StarKist

April 12 , 2011

Mr. Alan Ota
US EPA Region 9-OPINAP (E-4) WTR-2
75 Hawthorne Street
San Francisco, CA 94105

Dr. Toafa Vaiaga'e, Director
Office of the Governor, AS EPA
EOB Utulei, American Samoa 96799

Gentlemen:

RE: OD 93-01 SECTION 6.2
Reports and Correspondence

Pursuant to the above referenced Ocean Dumping permit, the final quarterly report for OD 93-01 is enclosed.

Section 6.2.1 and Section 6.2.3

All reports and related correspondence required by General Condition 1.10, Special Conditions 3.2, 3.3, 4.3, 4.5, 4.7, 5.2, 5.3, 5.4, 6.1, and all other materials, including applications shall be submitted to ***(EPA Region IX) (American Samoa Environmental Protection Agency).***

Data compiled are for the period of January 2011 to March 2011. Analytical performance concluded all parameters were met

Joe Carney.
Manager, Engeneering and Maintenance

cc: Brett Butler, SKS General Manager
Michael Wolfram, OPINAP Program Director
File

P.O. Box 368 Pago Pago, AS 96799 684-644-4231 (p) 684-644-2440 (f) www.starkist.com

APPENDIX B - REPORT FORM 2

Data Form for 3-Month Report on Waste Stream Analyses for StarKist Samoa MPRSA 102 Permit #OD 93-01

Reporting Period: From January 2011 to March 2011

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
12-Jan-11	53702	45433	35402	3920	835	5600	5050	6.61	1.01
OD 93-01 Permit Limits	95,760	77,170	105,900	52,110	3,080	13,370	7,640	6.2 to 7.3	0.93 to 1.05

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
9-Feb-11	64498	48407	38040	3897	805	5950	5700	6.74	1.02
OD 93-01 Permit Limits	95,760	77,170	105,900	52,110	3,080	13,370	7,640	6.2 to 7.3	0.93 to 1.05

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
9-Mar-11	64432	45172	38516	5706.3	770	5800	4500	6.80	1.01
OD 93-01 Permit Limits	95,760	77,170	105,900	52,110	3,080	13,370	7,640	6.2 to 7.3	0.93 to 1.05

Note: An asterisk (*) next to the waste concentration signifies that a violation of the permit limit has occurred.

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : January 2011

0D 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	**30,000**	**70,000**	**100,000**	

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Jan-11	0	0	0		
2-Jan-11	0	0	0		
3-Jan-11	0	0	0		
4-Jan-11	4750	19000	23750	47500	147500
5-Jan-11	14075	56300	70375	140750	
6-Jan-11	6750	27000	33750	67500	131750
7-Jan-11	6250	25000	31250	62500	
8-Jan-11	3250	13000	16250	32500	147000
9-Jan-11	1000	4000	5000	10000	
10-Jan-11	3375	13500	16875	33750	
11-Jan-11	9000	36000	45000	90000	156250
12-Jan-11	6125	24500	30625	61250	
13-Jan-11	9750	39000	48750	97500	160750
14-Jan-11	5625	22500	28125	56250	
15-Jan-11	1000	4000	5000	10000	173250
16-Jan-11	500	2000	2500	5000	
17-Jan-11	5500	22000	27500	55000	
18-Jan-11	8750	35000	43750	87500	137500
19-Jan-11	6625	26500	33125	66250	
20-Jan-11	8500	34000	42500	85000	191750
21-Jan-11	5000	20000	25000	50000	
22-Jan-11	8000	32000	40000	80000	182000
23-Jan-11	1000	4000	5000	10000	
24-Jan-11	0	0	0		
25-Jan-11	750	3000	3750	7500	
26-Jan-11	500	2000	2500	5000	
27-Jan-11	6625	26500	33125	66250	156750
28-Jan-11	3750	15000	18750	37500	
29-Jan-11	12000	48000	60000	120000	145000
30-Jan-11	3500	14000	17500	35000	
31-Jan-11	3425	13700	17125	34250	
Monthly Totals	145375	581500	726875	1453750	1729500

NOTE: An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.

The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum sulfate: 14055.6 Pounds/Month
Coagulant polymer: 322.1 Pounds/Month

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : February 2011

0D 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	**30,000**	**70,000**	**100,000**	**200,000**

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Feb-11	8250	33000	41250	82500	196250
2-Feb-11	5625	22500	28125	56250	
3-Feb-11	8500	34000	42500	85000	183750
4-Feb-11	7375	29500	36875	73750	
5-Feb-11	9000	36000	45000	90000	188750
6-Feb-11	10000	40000	50000	100000	
7-Feb-11	6250	25000	31250	62500	
8-Feb-11	5000	20000	25000	50000	174500
9-Feb-11	8500	34000	42500	85000	
10-Feb-11	3875	15500	19375	38750	182500
11-Feb-11	4500	18000	22500	45000	
12-Feb-11	8500	34000	42500	85000	184250
13-Feb-11	250	1000	1250	2500	
14-Feb-11	5750	23000	28750	57500	
15-Feb-11	9750	39000	48750	97500	192500
16-Feb-11	5875	23500	29375	58750	
17-Feb-11	1000	4000	5000	10000	186250
18-Feb-11	5750	23000	28750	57500	
19-Feb-11	4500	18000	22500	45000	194500
20-Feb-11	4500	18000	22500	45000	
21-Feb-11	5000	20000	25000	50000	
22-Feb-11	9500	38000	47500	95000	190000
23-Feb-11	5125	20500	25625	51250	
24-Feb-11	6000	24000	30000	60000	193750
25-Feb-11	8625	34500	43125	86250	
26-Feb-11	8250	33000	41250	82500	181250
27-Feb-11	1500	6000	7500	15000	
28-Feb-11	5500	22000	27500	55000	
Monthly Totals	172250	689000	861250	1722500	2248250

NOTE: An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate : 16021.9 Pounds/Month
Coagulant Polymer : 404.6 Pounds/Month

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : March 2011

0D 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	**30,000**	**70,000**	**100,000**	**200,000**

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Mar-11	7000	28000	35000	70000	185000
2-Mar-11	9875	39500	49375	98750	
3-Mar-11	8000	32000	40000	80000	191250
4-Mar-11	6000	24000	30000	60000	
5-Mar-11	500	2000	2500	5000	196250
6-Mar-11	2000	8000	10000	20000	
7-Mar-11	15375	61500	76875	153750	
8-Mar-11	10500	42000	52500	105000	183750
9-Mar-11	6625	26500	33125	66250	
10-Mar-11	10250	41000	51250	102500	195750
11-Mar-11	500	2000	2500	5000	
12-Mar-11	6125	24500	30625	61250	131250
13-Mar-11	2000	8000	10000	20000	
14-Mar-11	7625	30500	38125	76250	
15-Mar-11	6125	24500	30625	61250	184500
16-Mar-11	7875	31500	39375	78750	
17-Mar-11	7625	30500	38125	76250	197000
18-Mar-11	10375	41500	51875	103750	
19-Mar-11	14500	58000	72500	145000	183750
20-Mar-11	9000	36000	45000	90000	
21-Mar-11	1625	6500	8125	16250	
22-Mar-11	8500	34000	42500	85000	168750
23-Mar-11	7125	28500	35625	71250	
24-Mar-11	7750	31000	38750	77500	191250
25-Mar-11	4500	18000	22500	45000	
26-Mar-11	8375	33500	41875	83750	168750
27-Mar-11	1750	7000	8750	17500	
28-Mar-11	6625	26500	33125	66250	
29-Mar-11	8000	32000	40000	80000	183750
30-Mar-11	7625	30500	38125	76250	
31-Mar-11	6625	26500	33125	66250	177000
Monthly Totals	216375	865500	1081875	2163750	2538000

NOTE: An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred. The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate : 18083.6 Pound/Month
Coagulant Polymer : 412.7 Pounds/Month

StarKist Samoa CO
Ocean Dump Site Monitoring Reports

13 - Jan - 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	5.0	2.5	0.015	0.30	0.24	0.031
	control-3	5.0	2.0	0.005	0.40	0.34	0.039
	control-10	4.5	1.5	0.010	0.25	0.22	0.029
	1	4.5	1.5	0.005	0.25	0.34	0.020
	3	4.5	2.0	0.000	0.05	0.45	0.017
	10	6.0	2.0	0.020	0.15	0.22	0.023
Station 2	1	4.5	2.5	0.020	0.20	0.34	0.028
	3	5.0	1.5	0.005	0.25	0.11	0.033
	10	4.5	1.5	0.005	0.30	0.34	0.028
Station 3	1	4.0	3.5	0.010	0.35	0.23	0.041
	3	4.5	2.5	0.005	0.15	0.45	0.031
	10	4.5	3.0	0.020	0.30	0.33	0.033
Station 4	1	5.0	2.5	0.010	0.25	0.35	0.032
	3	5.0	2.5	0.015	0.30	0.22	0.028
	10	5.0	3.0	0.015	0.35	0.35	0.043
Station 5	1	5.0	2.5	0.015	0.40	0.47	0.020
	3	4.0	2.5	0.005	0.40	0.22	0.043
	10	5.0	1.5	0.015	0.10	0.45	0.038

Feb - 10- 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	5.5	2.0	0.025	0.30	0.34	0.030
	control-3	4.5	3.0	0.010	0.30	0.47	0.036
	control-10	5.5	2.5	0.015	0.15	0.25	0.041
	1	4.5	2.5	0.020	0.20	0.24	0.042
	3	5.0	3.0	0.035	0.20	0.33	0.027
	10	5.0	3.5	0.005	0.30	0.23	0.041
Station 2	1	4.5	2.5	0.005	0.10	0.23	0.039
	3	5.0	1.5	0.015	0.20	0.33	0.032
	10	5.0	2.5	0.015	0.20	0.23	0.038
Station 3	1	4.5	2.5	0.000	0.05	0.33	0.037
	3	4.5	2.0	0.010	0.15	0.23	0.028
	10	5.5	2.5	0.025	0.05	0.24	0.023
Station 4	1	5.0	1.5	0.005	0.20	0.23	0.033
	3	4.5	3.0	0.025	0.25	0.35	0.044
	10	5.5	3.5	0.005	0.15	0.45	0.026
Station 5	1	4.5	2.0	0.010	0.15	0.38	0.042
	3	5.5	2.0	0.020	0.25	0.37	0.045
	10	4.5	2.0	0.005	0.20	0.23	0.047

TSS is reported as non-filterable residue
TVSS is reported as volatile non-filterable residue

StarKist Samoa CO
Ocean Dump Site Monitoring Reports

March - 11 - 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	4.5	2.0	0.010	0.30	0.47	0.046
	control-3	5.5	2.0	0.005	0.20	0.56	0.032
	control-10	5.5	3.0	0.010	0.05	0.34	0.041
	1	4.5	1.5	0.015	0.25	0.23	0.043
	3	5.0	2.5	0.025	0.20	0.35	0.027
	10	4.5	2.0	0.015	0.25	0.11	0.019
Station 2	1	4.5	3.0	0.000	0.20	0.24	0.050
	3	5.0	3.5	0.015	0.35	0.12	0.038
	10	5.0	3.0	0.005	0.30	0.36	0.052
Station 3	1	5.0	3.5	0.010	0.50	0.49	0.045
	3	5.5	2.0	0.005	0.15	0.47	0.046
	10	5.5	2.5	0.005	0.25	0.38	0.050
Station 4	1	5.0	2.0	0.020	0.25	0.25	0.046
	3	6.5	2.0	0.015	0.20	0.49	0.038
	10	5.5	2.0	0.010	0.30	0.36	0.032
Station 5	1	6.0	2.5	0.015	0.20	0.39	0.043
	3	6.0	2.0	0.005	0.20	0.12	0.032
	10	5.5	2.0	0.000	0.10	0.12	0.049

TSS is reported as non-filterable residue
TVSS is reported as volatile non-filterable residue

April 12 , 2011

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Manager, Engeneering and Maintenance

cc: Brett Butler, SKS General Manager
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APPENDIX B - REPORT FORM 2

Data Form for 3-Month Report on Waste Stream Analyses for StarKist Samoa MPRSA 102 Permit #OD 93-01

Reporting Period: From January 2011 to March 2011

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
12-Jan-11	53702	45433	35402	3920	835	5600	5050	6.61	1.01
OD 93-01 Permit Limits	95,760	77,170	105,900	52,110	3,080	13,370	7,640	6.2 to 7.3	0.93 to 1.05

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Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
9-Feb-11	64498	48407	38040	3897	805	5950	5700	6.74	1.02
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9-Mar-11	64432	45172	38516	5706.3	770	5800	4500	6.80	1.01
OD 93-01 Permit Limits	95,760	77,170	105,900	52,110	3,080	13,370	7,640	6.2 to 7.3	0.93 to 1.05

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and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : January 2011

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Permit Limits	30,000	70,000	100,000	

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Jan-11	0	0	0		
2-Jan-11	0	0	0		
3-Jan-11	0	0	0		
4-Jan-11	4750	19000	23750	47500	147500
5-Jan-11	14075	56300	70375	140750	
6-Jan-11	6750	27000	33750	67500	131750
7-Jan-11	6250	25000	31250	62500	
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23-Jan-11	1000	4000	5000	10000	
24-Jan-11	0	0	0		
25-Jan-11	750	3000	3750	7500	
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30-Jan-11	3500	14000	17500	35000	
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Month : February 2011

0D 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	30,000	70,000	100,000	200,000

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
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4-Feb-11	7375	29500	36875	73750	
5-Feb-11	9000	36000	45000	90000	188750
6-Feb-11	10000	40000	50000	100000	
7-Feb-11	6250	25000	31250	62500	
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22-Feb-11	9500	38000	47500	95000	190000
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24-Feb-11	6000	24000	30000	60000	193750
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26-Feb-11	8250	33000	41250	82500	181250
27-Feb-11	1500	6000	7500	15000	
28-Feb-11	5500	22000	27500	55000	
Monthly Totals	172250	689000	861250	1722500	2248250

NOTE: An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred. The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate : 16021.9 Pounds/Month
Coagulant Polymer : 404.6 Pounds/Month

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : March 2011

0D 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	**30,000**	**70,000**	**100,000**	**200,000**

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Mar-11	7000	28000	35000	70000	185000
2-Mar-11	9875	39500	49375	98750	
3-Mar-11	8000	32000	40000	80000	191250
4-Mar-11	6000	24000	30000	60000	
5-Mar-11	500	2000	2500	5000	196250
6-Mar-11	2000	8000	10000	20000	
7-Mar-11	15375	61500	76875	153750	
8-Mar-11	10500	42000	52500	105000	183750
9-Mar-11	6625	26500	33125	66250	
10-Mar-11	10250	41000	51250	102500	195750
11-Mar-11	500	2000	2500	5000	
12-Mar-11	6125	24500	30625	61250	131250
13-Mar-11	2000	8000	10000	20000	
14-Mar-11	7625	30500	38125	76250	
15-Mar-11	6125	24500	30625	61250	184500
16-Mar-11	7875	31500	39375	78750	
17-Mar-11	7625	30500	38125	76250	197000
18-Mar-11	10375	41500	51875	103750	
19-Mar-11	14500	58000	72500	145000	183750
20-Mar-11	9000	36000	45000	90000	
21-Mar-11	1625	6500	8125	16250	
22-Mar-11	8500	34000	42500	85000	168750
23-Mar-11	7125	28500	35625	71250	
24-Mar-11	7750	31000	38750	77500	191250
25-Mar-11	4500	18000	22500	45000	
26-Mar-11	8375	33500	41875	83750	168750
27-Mar-11	1750	7000	8750	17500	
28-Mar-11	6625	26500	33125	66250	
29-Mar-11	8000	32000	40000	80000	183750
30-Mar-11	7625	30500	38125	76250	
31-Mar-11	6625	26500	33125	66250	177000
Monthly Totals	216375	865500	1081875	2163750	2538000

NOTE: An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred. The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate : 18083.6 Pound/Month
Coagulant Polymer : 412.7 Pounds/Month

StarKist Samoa CO
Ocean Dump Site Monitoring Reports

13 - Jan - 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	5.0	2.5	0.015	0.30	0.24	0.031
	control-3	5.0	2.0	0.005	0.40	0.34	0.039
	control-10	4.5	1.5	0.010	0.25	0.22	0.029
	1	4.5	1.5	0.005	0.25	0.34	0.020
	3	4.5	2.0	0.000	0.05	0.45	0.017
	10	6.0	2.0	0.020	0.15	0.22	0.023
Station 2	1	4.5	2.5	0.020	0.20	0.34	0.028
	3	5.0	1.5	0.005	0.25	0.11	0.033
	10	4.5	1.5	0.005	0.30	0.34	0.028
Station 3	1	4.0	3.5	0.010	0.35	0.23	0.041
	3	4.5	2.5	0.005	0.15	0.45	0.031
	10	4.5	3.0	0.020	0.30	0.33	0.033
Station 4	1	5.0	2.5	0.010	0.25	0.35	0.032
	3	5.0	2.5	0.015	0.30	0.22	0.028
	10	5.0	3.0	0.015	0.35	0.35	0.043
Station 5	1	5.0	2.5	0.015	0.40	0.47	0.020
	3	4.0	2.5	0.005	0.40	0.22	0.043
	10	5.0	1.5	0.015	0.10	0.45	0.038

Feb - 10- 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	5.5	2.0	0.025	0.30	0.34	0.030
	control-3	4.5	3.0	0.010	0.30	0.47	0.036
	control-10	5.5	2.5	0.015	0.15	0.25	0.041
	1	4.5	2.5	0.020	0.20	0.24	0.042
	3	5.0	3.0	0.035	0.20	0.33	0.027
	10	5.0	3.5	0.005	0.30	0.23	0.041
Station 2	1	4.5	2.5	0.005	0.10	0.23	0.039
	3	5.0	1.5	0.015	0.20	0.33	0.032
	10	5.0	2.5	0.015	0.20	0.23	0.038
Station 3	1	4.5	2.5	0.000	0.05	0.33	0.037
	3	4.5	2.0	0.010	0.15	0.23	0.028
	10	5.5	2.5	0.025	0.05	0.24	0.023
Station 4	1	5.0	1.5	0.005	0.20	0.23	0.033
	3	4.5	3.0	0.025	0.25	0.35	0.044
	10	5.5	3.5	0.005	0.15	0.45	0.026
Station 5	1	4.5	2.0	0.010	0.15	0.38	0.042
	3	5.5	2.0	0.020	0.25	0.37	0.045
	10	4.5	2.0	0.005	0.20	0.23	0.047

TSS is reported as non-filterable residue
TVSS is reported as volatile non-filterable residue

StarKist Samoa CO
Ocean Dump Site Monitoring Reports

March - 11 - 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	4.5	2.0	0.010	0.30	0.47	0.046
	control-3	5.5	2.0	0.005	0.20	0.56	0.032
	control-10	5.5	3.0	0.010	0.05	0.34	0.041
	1	4.5	1.5	0.015	0.25	0.23	0.043
	3	5.0	2.5	0.025	0.20	0.35	0.027
	10	4.5	2.0	0.015	0.25	0.11	0.019
Station 2	1	4.5	3.0	0.000	0.20	0.24	0.050
	3	5.0	3.5	0.015	0.35	0.12	0.038
	10	5.0	3.0	0.005	0.30	0.36	0.052
Station 3	1	5.0	3.5	0.010	0.50	0.49	0.045
	3	5.5	2.0	0.005	0.15	0.47	0.046
	10	5.5	2.5	0.005	0.25	0.38	0.050
Station 4	1	5.0	2.0	0.020	0.25	0.25	0.046
	3	6.5	2.0	0.015	0.20	0.49	0.038
	10	5.5	2.0	0.010	0.30	0.36	0.032
Station 5	1	6.0	2.5	0.015	0.20	0.39	0.043
	3	6.0	2.0	0.005	0.20	0.12	0.032
	10	5.5	2.0	0.000	0.10	0.12	0.049

TSS is reported as non-filterable residue
TVSS is reported as volatile non-filterable residue

April 12 , 2011

Mr. Alan Ota
US EPA Region 9-OPINAP (E-4) WTR-2
75 Hawthorne Street
San Francisco, CA 94105

Dr. Toafa Vaiaga'e, Director
Office of the Governor, AS EPA
EOB Utulei, American Samoa 96799

Gentlemen:

RE: OD 93-01 SECTION 6.2
Reports and Correspondence

Pursuant to the above referenced Ocean Dumping permit, the final quarterly report for OD 93-01 is enclosed.

Section 6.2.1 and Section 6.2.3

All reports and related correspondence required by General Condition 1.10, Special Conditions 3.2, 3.3, 4.3, 4.5, 4.7, 5.2, 5.3, 5.4, 6.1, and all other materials, including applications shall be submitted to ***(EPA Region IX) (American Samoa Environmental Protection Agency).***

Data compiled are for the period of January 2011 to March 2011. Analytical performance concluded all parameters were met

Joe Carney.
Manager, Engeneering and Maintenance

cc: Brett Butler, SKS General Manager
Michael Wolfram, OPINAP Program Director
File

P.O. Box 368 Pago Pago, AS 96799 684-644-4331 (p) 684-644-2440 (f) www.starkist.com

APPENDIX B - REPORT FORM 2

Data Form for 3-Month Report on Waste Stream Analyses for StarKist Samoa MPRSA 102 Permit #OD 93-01

Reporting Period: From January 2011 to March 2011

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
12-Jan-11	53702	45433	35402	3920	835	5600	5050	6.61	1.01
OD 93-01 Permit Limits	95,760	77,170	105,900	52,110	3,080	13,370	7,640	6.2 to 7.3	0.93 to 1.05

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
9-Feb-11	64498	48407	38040	3897	805	5950	5700	6.74	1.02
OD 93-01 Permit Limits	95,760	77,170	105,900	52,110	3,080	13,370	7,640	6.2 to 7.3	0.93 to 1.05

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
9-Mar-11	64432	45172	38516	5706.3	770	5800	4500	6.80	1.01
OD 93-01 Permit Limits	95,760	77,170	105,900	52,110	3,080	13,370	7,640	6.2 to 7.3	0.93 to 1.05

Note: An asterisk (*) next to the waste concentration signifies that a violation of the permit limit has occurred.

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day
and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : January 2011

0D 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	30,000	70,000	100,000	

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Jan-11	0	0	0		
2-Jan-11	0	0	0		
3-Jan-11	0	0	0		
4-Jan-11	4750	19000	23750	47500	147500
5-Jan-11	14075	56300	70375	140750	
6-Jan-11	6750	27000	33750	67500	131750
7-Jan-11	6250	25000	31250	62500	
8-Jan-11	3250	13000	16250	32500	147000
9-Jan-11	1000	4000	5000	10000	
10-Jan-11	3375	13500	16875	33750	
11-Jan-11	9000	36000	45000	90000	156250
12-Jan-11	6125	24500	30625	61250	
13-Jan-11	9750	39000	48750	97500	160750
14-Jan-11	5625	22500	28125	56250	
15-Jan-11	1000	4000	5000	10000	173250
16-Jan-11	500	2000	2500	5000	
17-Jan-11	5500	22000	27500	55000	
18-Jan-11	8750	35000	43750	87500	137500
19-Jan-11	6625	26500	33125	66250	
20-Jan-11	8500	34000	42500	85000	191750
21-Jan-11	5000	20000	25000	50000	
22-Jan-11	8000	32000	40000	80000	182000
23-Jan-11	1000	4000	5000	10000	
24-Jan-11	0	0	0		
25-Jan-11	750	3000	3750	7500	
26-Jan-11	500	2000	2500	5000	
27-Jan-11	6625	26500	33125	66250	156750
28-Jan-11	3750	15000	18750	37500	
29-Jan-11	12000	48000	60000	120000	145000
30-Jan-11	3500	14000	17500	35000	
31-Jan-11	3425	13700	17125	34250	
Monthly Totals	145375	581500	726875	1453750	1729500

NOTE: An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum sulfate: 14055.6 Pounds/Month
Coagulant polymer: 322.1 Pounds/Month

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day
and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : February 2011

0D 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	30,000	70,000	100,000	200,000

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Feb-11	8250	33000	41250	82500	196250
2-Feb-11	5625	22500	28125	56250	
3-Feb-11	8500	34000	42500	85000	183750
4-Feb-11	7375	29500	36875	73750	
5-Feb-11	9000	36000	45000	90000	188750
6-Feb-11	10000	40000	50000	100000	
7-Feb-11	6250	25000	31250	62500	
8-Feb-11	5000	20000	25000	50000	174500
9-Feb-11	8500	34000	42500	85000	
10-Feb-11	3875	15500	19375	38750	182500
11-Feb-11	4500	18000	22500	45000	
12-Feb-11	8500	34000	42500	85000	184250
13-Feb-11	250	1000	1250	2500	
14-Feb-11	5750	23000	28750	57500	
15-Feb-11	9750	39000	48750	97500	192500
16-Feb-11	5875	23500	29375	58750	
17-Feb-11	1000	4000	5000	10000	186250
18-Feb-11	5750	23000	28750	57500	
19-Feb-11	4500	18000	22500	45000	194500
20-Feb-11	4500	18000	22500	45000	
21-Feb-11	5000	20000	25000	50000	
22-Feb-11	9500	38000	47500	95000	190000
23-Feb-11	5125	20500	25625	51250	
24-Feb-11	6000	24000	30000	60000	193750
25-Feb-11	8625	34500	43125	86250	
26-Feb-11	8250	33000	41250	82500	181250
27-Feb-11	1500	6000	7500	15000	
28-Feb-11	5500	22000	27500	55000	
Monthly Totals	172250	689000	861250	1722500	2248250

NOTE: An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate : 16021.9 Pounds/Month
Coagulant Polymer : 404.6 Pounds/Month

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : March 2011

0D 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	30,000	70,000	100,000	200,000

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Mar-11	7000	28000	35000	70000	185000
2-Mar-11	9875	39500	49375	98750	
3-Mar-11	8000	32000	40000	80000	191250
*4-Mar-11	6000	24000	30000	60000	
5-Mar-11	500	2000	2500	5000	196250
6-Mar-11	2000	8000	10000	20000	
7-Mar-11	15375	61500	76875	153750	
8-Mar-11	10500	42000	52500	105000	183750
9-Mar-11	6625	26500	33125	66250	
10-Mar-11	10250	41000	51250	102500	195750
11-Mar-11	500	2000	2500	5000	
12-Mar-11	6125	24500	30625	61250	131250
13-Mar-11	2000	8000	10000	20000	
14-Mar-11	7625	30500	38125	76250	
15-Mar-11	6125	24500	30625	61250	184500
16-Mar-11	7875	31500	39375	78750	
17-Mar-11	7625	30500	38125	76250	197000
18-Mar-11	10375	41500	51875	103750	
19-Mar-11	14500	58000	72500	145000	183750
20-Mar-11	9000	36000	45000	90000	
21-Mar-11	1625	6500	8125	16250	
22-Mar-11	8500	34000	42500	85000	168750
23-Mar-11	7125	28500	35625	71250	
24-Mar-11	7750	31000	38750	77500	191250
25-Mar-11	4500	18000	22500	45000	
26-Mar-11	8375	33500	41875	83750	168750
27-Mar-11	1750	7000	8750	17500	
28-Mar-11	6625	26500	33125	66250	
29-Mar-11	8000	32000	40000	80000	183750
30-Mar-11	7625	30500	38125	76250	
31-Mar-11	6625	26500	33125	66250	177000
Monthly Totals	216375	865500	1081875	2163750	2538000

NOTE: An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred. The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate : 18083.6 Pound/Month
Coagulant Polymer : 412.7 Pounds/Month

StarKist Samoa CO
Ocean Dump Site Monitoring Reports

13 - Jan - 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	5.0	2.5	0.015	0.30	0.24	0.031
	control-3	5.0	2.0	0.005	0.40	0.34	0.039
	control-10	4.5	1.5	0.010	0.25	0.22	0.029
	1	4.5	1.5	0.005	0.25	0.34	0.020
	3	4.5	2.0	0.000	0.05	0.45	0.017
	10	6.0	2.0	0.020	0.15	0.22	0.023
Station 2	1	4.5	2.5	0.020	0.20	0.34	0.028
	3	5.0	1.5	0.005	0.25	0.11	0.033
	10	4.5	1.5	0.005	0.30	0.34	0.028
Station 3	1	4.0	3.5	0.010	0.35	0.23	0.041
	3	4.5	2.5	0.005	0.15	0.45	0.031
	10	4.5	3.0	0.020	0.30	0.33	0.033
Station 4	1	5.0	2.5	0.010	0.25	0.35	0.032
	3	5.0	2.5	0.015	0.30	0.22	0.028
	10	5.0	3.0	0.015	0.35	0.35	0.043
Station 5	1	5.0	2.5	0.015	0.40	0.47	0.020
	3	4.0	2.5	0.005	0.40	0.22	0.043
	10	5.0	1.5	0.015	0.10	0.45	0.038

Feb - 10- 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	5.5	2.0	0.025	0.30	0.34	0.030
	control-3	4.5	3.0	0.010	0.30	0.47	0.036
	control-10	5.5	2.5	0.015	0.15	0.25	0.041
	1	4.5	2.5	0.020	0.20	0.24	0.042
	3	5.0	3.0	0.035	0.20	0.33	0.027
	10	5.0	3.5	0.005	0.30	0.23	0.041
Station 2	1	4.5	2.5	0.005	0.10	0.23	0.039
	3	5.0	1.5	0.015	0.20	0.33	0.032
	10	5.0	2.5	0.015	0.20	0.23	0.038
Station 3	1	4.5	2.5	0.000	0.05	0.33	0.037
	3	4.5	2.0	0.010	0.15	0.23	0.028
	10	5.5	2.5	0.025	0.05	0.24	0.023
Station 4	1	5.0	1.5	0.005	0.20	0.23	0.033
	3	4.5	3.0	0.025	0.25	0.35	0.044
	10	5.5	3.5	0.005	0.15	0.45	0.026
Station 5	1	4.5	2.0	0.010	0.15	0.38	0.042
	3	5.5	2.0	0.020	0.25	0.37	0.045
	10	4.5	2.0	0.005	0.20	0.23	0.047

TSS is reported as non-filterable residue
TVSS is reported as volatile non-filterable residue

StarKist Samoa CO
Ocean Dump Site Monitoring Reports

March - 11 - 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	4.5	2.0	0.010	0.30	0.47	0.046
	control-3	5.5	2.0	0.005	0.20	0.56	0.032
	control-10	5.5	3.0	0.010	0.05	0.34	0.041
	1	4.5	1.5	0.015	0.25	0.23	0.043
	3	5.0	2.5	0.025	0.20	0.35	0.027
	10	4.5	2.0	0.015	0.25	0.11	0.019
Station 2	1	4.5	3.0	0.000	0.20	0.24	0.050
	3	5.0	3.5	0.015	0.35	0.12	0.038
	10	5.0	3.0	0.005	0.30	0.36	0.052
Station 3	1	5.0	3.5	0.010	0.50	0.49	0.045
	3	5.5	2.0	0.005	0.15	0.47	0.046
	10	5.5	2.5	0.005	0.25	0.38	0.050
Station 4	1	5.0	2.0	0.020	0.25	0.25	0.046
	3	6.5	2.0	0.015	0.20	0.49	0.038
	10	5.5	2.0	0.010	0.30	0.36	0.032
Station 5	1	6.0	2.5	0.015	0.20	0.39	0.043
	3	6.0	2.0	0.005	0.20	0.12	0.032
	10	5.5	2.0	0.000	0.10	0.12	0.049

TSS is reported as non-filterable residue
TVSS is reported as volatile non-filterable residue

StarKist

July 13, 2011

Mr. Alan Ota
US EPA Region 9-OPINAP (E-4) WTR-2
75 Hawthorne Street
San Francisco, CA 94105

Dr. Toafa Vaiaga'e, Director
Office of the Governor, AS EPA
EOB Utulei, American Samoa 96799

Gentlemen:

RE: OD 93-01 SECTION 6.2
Reports and Correspondence

Pursuant to the above referenced Ocean Dumping permit, the final quarterly report for OD 93-01 is enclosed.

Section 6.2.1 and Section 6.2.3

All reports and related correspondence required by General Condition 1.10, Special Conditions 3.2, 3.3, 4.3, 4.5, 4.7, 5.2, 5.3, 5.4, 6.1, and all other materials, including applications shall be submitted to ***(EPA Region IX) (American Samoa Environmental Protection Agency).***

Data compiled are for the period of April 2011 to June 2011. Analytical performance concluded all parameters were met

Joe Carney.
Manager, Engeneering and Maintenance

7/13/11

cc: Brett Butler, SKS General Manager
Michael Wolfram, OPINAP Program Director
File

323 North Shore Drive Suite 600 Pittsburgh, Pennsylvania 15212 412.323.7400 www.starkist.com

APPENDIX B - REPORT FORM 2

Data Form for 3-Month Report on Waste Stream Analyses for StarKist Samoa MPRSA 102 Permit #OD 93-01

Reporting Period: From April 2011 to June 2011

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
27-Apr-11	61624	49520	69604	5488.8	795	5200	5300	7.18	1.02
OD 93-01 Permit Limits	**95,760**	**77,170**	**105,900**	**52,110**	**3,080**	**13,370**	**7,640**	**6.2 to 7.3**	**0.93 to 1.05**

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
25-May-11	44911	33598	36359	5451.3	670	5900	5050	6.94	1.02
OD 93-01 Permit Limits	**95,760**	**77,170**	**105,900**	**52,110**	**3,080**	**13,370**	**7,640**	**6.2 to 7.3**	**0.93 to 1.05**

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
1-Jun-11	60176	44158	29331	6061.3	765	5450	5100	6.71	1.01
OD 93-01 Permit Limits	**95,760**	**77,170**	**105,900**	**52,110**	**3,080**	**13,370**	**7,640**	**6.2 to 7.3**	**0.93 to 1.05**

Note: An asterisk (*) next to the waste concentration signifies that a violation of the permit limit has occurred.

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : April 2011

OD 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	**30,000**	**70,000**	**100,000**	

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Apr-11	8375	33500	41875	83750	
2-Apr-11	7875	31500	39375	78750	192500
3-Apr-11	2250	9000	11250	22500	
4-Apr-11	6125	24500	30625	61250	
5-Apr-11	8750	35000	43750	87500	188750
6-Apr-11	8375	33500	41875	83750	
7-Apr-11	10350	41400	51750	103500	194250
8-Apr-11	6750	27000	33750	67500	
9-Apr-11	1750	7000	8750	17500	197500
10-Apr-11	0	0	0	0	
11-Apr-11	2000	8000	10000	20000	
12-Apr-11	1250	5000	6250	12500	
13-Apr-11	0	0	0	0	
14-Apr-11	1250	5000	6250	12500	
15-Apr-11	0	0	0	0	
16-Apr-11	0	0	0	0	
17-Apr-11	3250	13000	16250	32500	
18-Apr-11	5250	21000	26250	52500	
19-Apr-11	9000	36000	45000	90000	146750
20-Apr-11	7875	31500	39375	78750	
21-Apr-11	9000	36000	45000	90000	189250
22-Apr-11	3750	15000	18750	37500	
23-Apr-11	2500	10000	12500	25000	162500
24-Apr-11	750	3000	3750	7500	
25-Apr-11	9250	37000	46250	92500	
26-Apr-11	11250	45000	56250	112500	155500
27-Apr-11	7750	31000	38750	77500	
28-Apr-11	8000	32000	40000	80000	192500
29-Apr-11	8750	35000	43750	87500	
30-Apr-11	750	3000	3750	7500	192500
Monthly Totals	152225	608900	761125	1522250	1812000

NOTE: An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.

The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum sulfate: 12110.5 Pounds/Month
Coagulant polymer: 277.8 Pounds/Month

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day
and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : May 2011

OD 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	30,000	70,000	100,000	200,000

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-May-11	4625	18500	23125	46250	
2-May-11	7250	29000	36250	72500	
3-May-11	9625	38500	48125	96250	162250
4-May-11	7625	30500	38125	76250	
5-May-11	10500	42000	52500	105000	179750
6-May-11	6000	24000	30000	60000	
7-May-11	2000	8000	10000	20000	190000
8-May-11	4250	17000	21250	42500	
9-May-11	6875	27500	34375	68750	
10-May-11	5000	20000	25000	50000	135750
11-May-11	10125	40500	50625	101250	
12-May-11	10000	40000	50000	100000	138750
13-May-11	8125	32500	40625	81250	
14-May-11	7500	30000	37500	75000	196750
15-May-11	1750	7000	8750	17500	
16-May-11	5375	21500	26875	53750	
17-May-11	9375	37500	46875	93750	172500
18-May-11	6375	25500	31875	63750	
19-May-11	8625	34500	43125	86250	182500
20-May-11	7250	29000	36250	72500	
21-May-11	2500	10000	12500	25000	176500
22-May-11	0	0	0		
23-May-11	5750	23000	28750	57500	
24-May-11	9875	39500	49375	98750	133750
25-May-11	6375	25500	31875	63750	
26-May-11	7750	31000	38750	77500	199750
27-May-11	7735	30940	38675	77350	
28-May-11	2250	9000	11250	22500	177000
29-May-11	0	0	0		
30-May-11	0	0	0		
31-May-11	6500	26000	32500	65000	
Monthly Totals	186885	747940	934925	1823600	2045250

NOTE An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred. The number of violations are shown in the Monthly Totals row.

should be 1,869,850

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate : 16965.3 Pounds/Month
Coagulant Polymer : 400.2 Pounds/Month

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day
and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : June 2011

0D 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	30,000	70,000	100,000	200,000

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Jun-11	8125	32500	40625	81250	
2-Jun-11	7250	29000	36250	72500	183750
3-Jun-11	8500	34000	42500	85000	
4-Jun-11	8000	32000	40000	80000	182500
5-Jun-11	3250	13000	16250	32500	
6-Jun-11	5500	22000	27500	55000	
7-Jun-11	8500	34000	42500	85000	185000
8-Jun-11	7875	31500	39375	78750	
9-Jun-11	8625	34500	43125	86250	177500
10-Jun-11	6875	27500	34375	68750	
11-Jun-11	1500	6000	7500	15000	168750
12-Jun-11	500	2000	2500	5000	
13-Jun-11	6125	24500	30625	61250	
14-Jun-11	7625	30500	38125	76250	
15-Jun-11	9000	36000	45000	90000	175500
16-Jun-11	6875	27500	34375	68750	
17-Jun-11	7000	28000	35000	70000	183250
18-Jun-11	1000	4000	5000	10000	
19-Jun-11	1500	6000	7500	15000	
20-Jun-11	5375	21500	26875	53750	
21-Jun-11	8000	32000	40000	80000	176250
22-Jun-11	8125	32500	40625	81250	
23-Jun-11	7375	29500	36875	73750	187500
24-Jun-11	7625	30500	38125	76250	
25-Jun-11	250	1000	1250	2500	179250
26-Jun-11	1000	4000	5000	10000	
27-Jun-11	7500	30000	37500	75000	
28-Jun-11	9750	39000	48750	97500	127500
29-Jun-11	7875	31500	39375	78750	
30-Jun-11	9000	36000	45000	90000	191750
Monthly Totals	185500	742000	927500	1855000	2118500

twice

NOTE An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred. The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate : 17887.5 Pounds/Month
Coagulant Polymer : 425.5 Pounds/Month

StarKist Samoa CO
Ocean Dump Site Monitoring Reports

28- April - 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	5.0	2.5	0.015	0.25	0.38	0.040
	control-3	6.5	2.0	0.005	0.30	0.48	0.046
	control-10	7.0	3.5	0.015	0.35	0.63	0.040
	1	6.0	1.5	0.000	0.20	0.39	0.038
	3	6.5	3.0	0.010	0.30	0.48	0.030
	10	6.0	3.5	0.015	0.45	0.47	0.038
Station 2	1	5.0	2.5	0.020	0.30	0.22	0.024
	3	6.5	2.0	0.010	0.40	0.51	0.043
	10	4.5	2.0	0.020	0.25	0.38	0.047
Station 3	1	5.5	2.0	0.010	0.15	0.38	0.039
	3	5.5	2.0	0.005	0.25	0.48	0.036
	10	6.5	3.0	0.015	0.35	0.22	0.042
Station 4	1	5.5	2.0	0.015	0.30	0.60	0.032
	3	6.0	2.0	0.005	0.35	0.38	0.049
	10	6.0	3.0	0.010	0.35	0.62	0.051
Station 5	1	5.5	2.5	0.005	0.50	0.26	0.037
	3	6.0	2.0	0.020	0.30	0.38	0.039
	10	7.0	2.0	0.015	0.40	0.66	0.032

May - 26- 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	6.0	3.5	0.005	0.50	0.58	0.044
	control-3	4.5	2.5	0.010	0.25	0.63	0.040
	control-10	4.5	3.5	0.015	0.25	0.39	0.038
	1	4.5	2.5	0.015	0.20	0.47	0.032
	3	4.5	3.0	0.000	0.50	0.36	0.032
	10	5.5	1.5	0.015	0.20	0.49	0.048
Station 2	1	4.5	2.5	0.015	0.30	0.26	0.047
	3	6.0	2.5	0.025	0.25	0.50	0.041
	10	5.5	1.5	0.015	0.25	0.62	0.043
Station 3	1	6.0	2.0	0.005	0.30	0.37	0.048
	3	5.0	1.5	0.000	0.15	0.54	0.041
	10	5.0	2.5	0.025	0.50	0.38	0.032
Station 4	1	5.0	2.0	0.020	0.45	0.57	0.041
	3	5.0	2.0	0.015	0.30	0.62	0.050
	10	4.5	2.0	0.025	0.25	0.56	0.037
Station 5	1	5.0	1.5	0.035	0.50	0.71	0.053
	3	5.0	1.5	0.025	0.50	0.25	0.057
	10	6.0	1.0	0.025	0.30	0.51	0.051

TSS is reported as non-filterable residue
TVSS is reported as volatile non-filterable residue

StarKist Samoa CO
Ocean Dump Site Monitoring Reports

June - 02 - 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	5.5	2.5	0.000	0.25	0.63	0.023
	control-3	4.5	3.0	0.005	0.20	0.36	0.028
	control-10	4.5	2.0	0.010	0.25	0.25	0.031
	1	4.5	2.0	0.000	0.25	0.38	0.028
	3	5.5	2.5	0.000	0.25	0.70	0.037
	10	5.0	2.5	0.010	0.25	0.50	0.024
Station 2	1	5.5	2.5	0.000	0.10	0.23	0.034
	3	5.5	3.0	0.000	0.10	0.45	0.028
	10	4.0	3.0	0.010	0.20	0.22	0.040
Station 3	1	5.0	2.0	0.015	0.15	0.58	0.022
	3	5.5	2.0	0.010	0.20	0.22	0.035
	10	5.0	2.5	0.010	0.20	0.35	0.039
Station 4	1	6.0	3.0	0.020	0.35	0.50	0.038
	3	5.0	2.5	0.030	0.05	0.51	0.034
	10	4.5	2.0	0.010	0.30	0.13	0.030
Station 5	1	5.0	2.5	0.035	0.20	0.38	0.021
	3	5.0	1.5	0.015	0.15	0.25	0.033
	10	5.0	2.5	0.030	0.00	0.13	0.041

TSS is reported as non-filterable residue
TVSS is reported as volatile non-filterable residue

StarKist.

July 13, 2011

Mr. Alan Ota
US EPA Region 9-OPINAP (E-4) WTR-2
75 Hawthorne Street
San Francisco, CA 94105

Dr. Toafa Vaiaga'e, Director
Office of the Governor, AS EPA
EOB Utulei, American Samoa 96799

Gentlemen:

RE: OD 93-01 SECTION 6.2
Reports and Correspondence

Pursuant to the above referenced Ocean Dumping permit, the final quarterly report for OD 93-01 is enclosed.

Section 6.2.1 and Section 6.2.3

All reports and related correspondence required by General Condition 1.10, Special Conditions 3.2, 3.3, 4.3, 4.5, 4.7, 5.2, 5.3, 5.4, 6.1, and all other materials, including applications shall be submitted to ***(EPA Region IX) (American Samoa Environmental Protection Agency).***

Data compiled are for the period of April 2011 to June 2011. Analytical performance concluded all parameters were met

Joe Carney.
Manager, Engeneering and Maintenance

7/13/11

cc: Brett Butler, SKS General Manager
Michael Wolfram, OPINAP Program Director
File

323 North Shore Drive Suite 600 Pittsburgh, Pennsylvania 15212 412.323.7400 www.starkist.com

APPENDIX B - REPORT FORM 2

Data Form for 3-Month Report on Waste Stream Analyses for StarKist Samoa MPRSA 102 Permit #OD 93-01

Reporting Period: From April 2011 to June 2011

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
27-Apr-11	61624	49520	69604	5488.8	795	5200	5300	7.18	1.02
OD 93-01 Permit Limits	95,760	77,170	105,900	52,110	3,080	13,370	7,640	6.2 to 7.3	0.93 to 1.05

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
25-May-11	44911	33598	36359	5451.3	670	5900	5050	6.94	1.02
OD 93-01 Permit Limits	95,760	77,170	105,900	52,110	3,080	13,370	7,640	6.2 to 7.3	0.93 to 1.05

StarKist Samoa - On Shore Storage Tank

Month & Year	Total Solids (mg/L)	Total Volatile Solids (mg/L)	5-day Biological Oxygen Demand (mg/L)	Oil & Grease (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Ammonia (mg/L)	pH (pH units)	Density (g/mL)
1-Jun-11	60176	44158	29331	6061.3	765	5450	5100	6.71	1.01
OD 93-01 Permit Limits	95,760	77,170	105,900	52,110	3,080	13,370	7,640	6.2 to 7.3	0.93 to 1.05

Note: An asterisk (*) next to the waste concentration signifies that a violation of the permit limit has occurred.

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day
and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : April 2011

OD 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	30,000	70,000	100,000	

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Apr-11	8375	33500	41875	83750	
2-Apr-11	7875	31500	39375	78750	192500
3-Apr-11	2250	9000	11250	22500	
4-Apr-11	6125	24500	30625	61250	
5-Apr-11	8750	35000	43750	87500	188750
6-Apr-11	8375	33500	41875	83750	
7-Apr-11	10350	41400	51750	103500	194250
8-Apr-11	6750	27000	33750	67500	
9-Apr-11	1750	7000	8750	17500	197500
10-Apr-11	0	0	0	0	
11-Apr-11	2000	8000	10000	20000	
12-Apr-11	1250	5000	6250	12500	
13-Apr-11	0	0	0	0	
14-Apr-11	1250	5000	6250	12500	
15-Apr-11	0	0	0	0	
16-Apr-11	0	0	0	0	
17-Apr-11	3250	13000	16250	32500	
18-Apr-11	5250	21000	26250	52500	
19-Apr-11	9000	36000	45000	90000	146750
20-Apr-11	7875	31500	39375	78750	
21-Apr-11	9000	36000	45000	90000	189250
22-Apr-11	3750	15000	18750	37500	
23-Apr-11	2500	10000	12500	25000	162500
24-Apr-11	750	3000	3750	7500	
25-Apr-11	9250	37000	46250	92500	
26-Apr-11	11250	45000	56250	112500	155500
27-Apr-11	7750	31000	38750	77500	
28-Apr-11	8000	32000	40000	80000	192500
29-Apr-11	8750	35000	43750	87500	
30-Apr-11	750	3000	3750	7500	192500
Monthly Totals	152225	608900	761125	1522250	1812000

NOTE: An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.

The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum sulfate: 12110.5 Pounds/Month
Coagulant polymer: 277.8 Pounds/Month

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : May 2011

0D 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	30,000	70,000	100,000	200,000

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-May-11	4625	18500	23125	46250	
2-May-11	7250	29000	36250	72500	
3-May-11	9625	38500	48125	96250	162250
4-May-11	7625	30500	38125	76250	
5-May-11	10500	42000	52500	105000	179750
6-May-11	6000	24000	30000	60000	
7-May-11	2000	8000	10000	20000	190000
8-May-11	4250	17000	21250	42500	
9-May-11	6875	27500	34375	68750	
10-May-11	5000	20000	25000	50000	135750
11-May-11	10125	40500	50625	101250	
12-May-11	10000	40000	50000	100000	138750
13-May-11	8125	32500	40625	81250	
14-May-11	7500	30000	37500	75000	196750
15-May-11	1750	7000	8750	17500	
16-May-11	5375	21500	26875	53750	
17-May-11	9375	37500	46875	93750	172500
18-May-11	6375	25500	31875	63750	
19-May-11	8625	34500	43125	86250	182500
20-May-11	7250	29000	36250	72500	
21-May-11	2500	10000	12500	25000	176500
22-May-11	0	0	0		
23-May-11	5750	23000	28750	57500	
24-May-11	9875	39500	49375	98750	133750
25-May-11	6375	25500	31875	63750	
26-May-11	7750	31000	38750	77500	199750
27-May-11	7735	30940	38675	77350	
28-May-11	2250	9000	11250	22500	177000
29-May-11	0	0	0		
30-May-11	0	0	0		
31-May-11	6500	26000	32500	65000	
Monthly Totals	186985	747940	934925	1823600	2045250

NOTE An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred. The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate : 16965.3 Pounds/Month
Coagulant Polymer : 400.2 Pounds/Month

APPENDIX B - REPORT FORM 1

Monthly Volumes of StarKist Samoa Fish Processing Wastes Generated Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month : June 2011

OD 93-01	DAF Sludge Generated (gallons/day)	Cooker Water Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)
Permit Limits	30,000	70,000	100,000	200,000

Date	DAF Sludge Generated (gallons/day)	Cooker Juice Generated (gallons/day)	Press Liquor Generated (gallons/day)	Total Generated (gallons/day)	Volume Ocean Disposed (gallons/day)
1-Jun-11	8125	32500	40625	81250	
2-Jun-11	7250	29000	36250	72500	183750
3-Jun-11	8500	34000	42500	85000	
4-Jun-11	8000	32000	40000	80000	182500
5-Jun-11	3250	13000	16250	32500	
6-Jun-11	5500	22000	27500	55000	
7-Jun-11	8500	34000	42500	85000	185000
8-Jun-11	7875	31500	39375	78750	
9-Jun-11	8625	34500	43125	86250	177500
10-Jun-11	6875	27500	34375	68750	
11-Jun-11	1500	6000	7500	15000	168750
12-Jun-11	500	2000	2500	5000	
13-Jun-11	6125	24500	30625	61250	
14-Jun-11	7625	30500	38125	76250	
15-Jun-11	9000	36000	45000	90000	175500
16-Jun-11	6875	27500	34375	68750	
17-Jun-11	7000	28000	35000	70000	183250
18-Jun-11	1000	4000	5000	10000	
19-Jun-11	1500	6000	7500	15000	
20-Jun-11	5375	21500	26875	53750	
21-Jun-11	8000	32000	40000	80000	176250
22-Jun-11	8125	32500	40625	81250	
23-Jun-11	7375	29500	36875	73750	187500
24-Jun-11	7625	30500	38125	76250	
25-Jun-11	250	1000	1250	2500	179250
26-Jun-11	1000	4000	5000	10000	
27-Jun-11	7500	30000	37500	75000	
28-Jun-11	9750	39000	48750	97500	127500
29-Jun-11	7875	31500	39375	78750	
30-Jun-11	9000	36000	45000	90000	191750
Monthly Totals	185500	742000	927500	1855000	2118500

NOTE: An asterisk (*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred. The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate : 17887.5 Pounds/Month
Coagulant Polymer : 425.5 Pounds/Month

StarKist Samoa CO
Ocean Dump Site Monitoring Reports

28- April - 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	5.0	2.5	0.015	0.25	0.38	0.040
	control-3	6.5	2.0	0.005	0.30	0.48	0.046
	control-10	7.0	3.5	0.015	0.35	0.63	0.040
	1	6.0	1.5	0.000	0.20	0.39	0.038
	3	6.5	3.0	0.010	0.30	0.48	0.030
	10	6.0	3.5	0.015	0.45	0.47	0.038
Station 2	1	5.0	2.5	0.020	0.30	0.22	0.024
	3	6.5	2.0	0.010	0.40	0.51	0.043
	10	4.5	2.0	0.020	0.25	0.38	0.047
Station 3	1	5.5	2.0	0.010	0.15	0.38	0.039
	3	5.5	2.0	0.005	0.25	0.48	0.036
	10	6.5	3.0	0.015	0.35	0.22	0.042
Station 4	1	5.5	2.0	0.015	0.30	0.60	0.032
	3	6.0	2.0	0.005	0.35	0.38	0.049
	10	6.0	3.0	0.010	0.35	0.62	0.051
Station 5	1	5.5	2.5	0.005	0.50	0.26	0.037
	3	6.0	2.0	0.020	0.30	0.38	0.039
	10	7.0	2.0	0.015	0.40	0.66	0.032

May - 26- 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	6.0	3.5	0.005	0.50	0.58	0.044
	control-3	4.5	2.5	0.010	0.25	0.63	0.040
	control-10	4.5	3.5	0.015	0.25	0.39	0.038
	1	4.5	2.5	0.015	0.20	0.47	0.032
	3	4.5	3.0	0.000	0.50	0.36	0.032
	10	5.5	1.5	0.015	0.20	0.49	0.048
Station 2	1	4.5	2.5	0.015	0.30	0.26	0.047
	3	6.0	2.5	0.025	0.25	0.50	0.041
	10	5.5	1.5	0.015	0.25	0.62	0.043
Station 3	1	6.0	2.0	0.005	0.30	0.37	0.048
	3	5.0	1.5	0.000	0.15	0.54	0.041
	10	5.0	2.5	0.025	0.50	0.38	0.032
Station 4	1	5.0	2.0	0.020	0.45	0.57	0.041
	3	5.0	2.0	0.015	0.30	0.62	0.050
	10	4.5	2.0	0.025	0.25	0.56	0.037
Station 5	1	5.0	1.5	0.035	0.50	0.71	0.053
	3	5.0	1.5	0.025	0.50	0.25	0.057
	10	6.0	1.0	0.025	0.30	0.51	0.051

TSS is reported as non-filterable residue
TVSS is reported as volatile non-filterable residue

StarKist Samoa CO
Ocean Dump Site Monitoring Reports

June - 02 - 2011	Depth (m)	TSS mg/l SKS	TVSS mg/l SKS	TP mg/l SKS	TN mg/l SKS	O&G mg/l SKS	Ammonia mg/l SKS
Station 1	control-1	5.5	2.5	0.000	0.25	0.63	0.023
	control-3	4.5	3.0	0.005	0.20	0.36	0.028
	control-10	4.5	2.0	0.010	0.25	0.25	0.031
	1	4.5	2.0	0.000	0.25	0.38	0.028
	3	5.5	2.5	0.000	0.25	0.70	0.037
	10	5.0	2.5	0.010	0.25	0.50	0.024
Station 2	1	5.5	2.5	0.000	0.10	0.23	0.034
	3	5.5	3.0	0.000	0.10	0.45	0.028
	10	4.0	3.0	0.010	0.20	0.22	0.040
Station 3	1	5.0	2.0	0.015	0.15	0.58	0.022
	3	5.5	2.0	0.010	0.20	0.22	0.035
	10	5.0	2.5	0.010	0.20	0.35	0.039
Station 4	1	6.0	3.0	0.020	0.35	0.50	0.038
	3	5.0	2.5	0.030	0.05	0.51	0.034
	10	4.5	2.0	0.010	0.30	0.13	0.030
Station 5	1	5.0	2.5	0.035	0.20	0.38	0.021
	3	5.0	1.5	0.015	0.15	0.25	0.033
	10	5.0	2.5	0.030	0.00	0.13	0.041

TSS is reported as non-filterable residue
TVSS is reported as volatile non-filterable residue

StarKist

April 12, 2011

Mr. Michael Wolfram
U. S. EPA Region 9
Pacific Insular Area Program (CMD-5)
75 Hawthorne Street
San Francisco, CA 94105

Dr. Toafa Vaiaga'e
Director, AS EPA
Office of the Governor
EOB Utulei, American Samoa 96799

Gentlemen :

Re : **Discharge Monitoring Report for the Months of January, February and March of 2011, under NPDES No . AS0000019 as issued to Star Kist Samoa, INC.**

Attached is the Star Kist Samoa's Discharge Monitoring Reports covering the months of January, February and March of 2011.

Star Kist Samoa met all Effluent limits.

Sincerely

Joe Carney
Manager , Engineering and Maintenance

Wa \ ls : \ npdes \samoa
Attachments :
cc :
Mr. Alan Ota
Mr. Brett Butler

P.O. Box 368 Pago Pago, AS 96799 684-644-4231 (p) 684-644-2440 (f) www.starkist.com

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	01/31/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001/MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	******	******	******	81	81		0		
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	90 30DA AVG	95 DAILY MX	deg F		Continuous	CONTIN
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	303.8	395.5		0		
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Weekly	COMP24
pH	SAMPLE MEASUREMENT	******	******	******	7.0	******	7.1		0		
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	8.6 MAXIMUM	SU		Continuous	CONTIN
Solids, total suspended	SAMPLE MEASUREMENT	1261.2	1594.3		******	******	******	******	0		
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	3960 MO AVG	9960 DAILY MX	lb/d	******	******	******	******		Weekly	COMP24
Nitrogen, total (as N)	SAMPLE MEASUREMENT	902.4	1047.8		******	******	******	******	0		
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	1200 MO AVG	2100 DAILY MX	lb/d	******	******	******	******		Twice Per Week	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	298.1	472.1		******	24.5	37.6		0		
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	2016 MO AVG	4045 DAILY MX	lb/d	******	83.36 30DA AVG	167.26 DAILY MX	mg/L		Weekly	COMP24
Phosphorus, total (as P)	SAMPLE MEASUREMENT	134.6	160.7		******	******	******	******	0		
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	192 MO AVG	309 DAILY MX	lb/d	******	******	******	******		Twice Per Week	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe.Carney Engineering & Maint	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684-644-4232		4-13-11
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	01/31/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001/MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oil and grease	SAMPLE MEASUREMENT	214.8	244.8		******	******	******	******	0		
03582 1 0 Effluent Gross	PERMIT REQUIREMENT	1008 MO AVG	2520 DAILY MX	lb/d	******	******	******	******		Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	1.094814	1.610000		******	******	******	******	0		
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	METER

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe.Carney Engineering & Maint	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684-644	4232	4-13-11
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of January 2011

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/L	Total Ammonia #/day	BOD5 Eff mg/l	BOD5 Total #/day
1																			
2																			
3	342.6102																		
4	392.6358	0.820000	413.4	9.4	80	7.0	7.0												
5	388.8483	1.370000	747.3	16.9	80	7.0	7.0												
6	372.6539	1.320000	779.1	17.8	80	7.0	7.0	22.3	244.8	78.7	863.9	10.2	112.0	80.0	878.2	23.4	256.9	395.5	4341.5
7	364.3427	1.070000	736.7	17.5	80	7.0	7.0					12.4	110.3	62.0	551.7				
8		0.500000	270.3	7.3	81	7.0	7.0												
9		0.420000	265.0	7.5	80	7.0	7.0												
10	404.4168	1.560000	545.9	12.5	80	7.0	7.1												
11	424.1849	1.500000	757.9	17.9	80	7.0	7.0	18.8	234.5	110.0	1372.1	9.9	123.5	84.0	1047.8	19.5	243.2	283.1	3531.4
12	429.9835	1.610000	800.3	18.5	80	7.0	7.0					12.0	160.7	70.0	937.2				
13	407.4810	1.540000	577.7	13.8	80	7.0	7.0												
14	427.8167	1.380000	556.5	13.8	80	7.0	7.0												
15		0.140000	111.3	2.7	80	7.0	7.0												
16		0.430000	265.0	6.3	80	7.0	7.0												
17	425.4401	1.290000	699.6	15.2	80	7.0	7.0												
18	432.9880	1.530000	789.7	17.1	80	7.0	7.0	18.6	236.7	125.3	1594.3	10.1	128.5	81.0	1030.6	17.3	220.1	202.1	2571.4
19	436.6009	1.540000	800.3	18.0	80	7.0	7.0					12.1	155.0	76.0	973.3				
20	414.8647	1.520000	736.7	16.1	80	7.0	7.0												
21	422.2047	1.460000	742.0	15.8	80	7.0	7.0												
22	383.0709	1.370000	593.6	12.8	80	7.0	7.0												
23		0.400000	190.8	4.2	80	7.0	7.0												
24																			
25		0.400000	201.4	4.2	80	7.0	7.0												
26		0.280000	180.2	4.5	80	7.0	7.0												
27	349.2940	1.230000	450.5	9.7	80	7.0	7.0												
28	462.4459	1.510000	550.2	12.7	80	7.0	7.0	11.4	143.2	96.7	1214.3	11.2	140.6	72.0	904.1	37.6	472.1	334.4	4199.1
29	470.1376	1.330000	514.1	12.1	80	7.0	7.0					13.6	150.4	81.0	895.9				
30		0.900000	296.8	6.8	80	7.0	7.0												
31	460.2712	1.140000	482.3	11.0	80	7.0	7.0												
TOT	8212.2918	29.560000	14054.6	322.1					859.2		5044.6		1081.0		7218.8		1192.3		14643.4
AVG	410.6146	1.094814	520.5	11.9				17.8	214.8	102.7	1261.2	11.4	134.6	75.8	902.4	24.5	298.1	303.8	3660.9

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	02/01/2011	TO	02/28/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001/MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	******	******	******	80	80		0		
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	90 30DA AVG	95 DAILY MX	deg F		Continuous	CONTIN
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	350.9	449.0		0		
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Weekly	COMP24
pH	SAMPLE MEASUREMENT	******	******	******	7.0	******	7.0		0		
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	8.6 MAXIMUM	SU		Continuous	CONTIN
Solids, total suspended	SAMPLE MEASUREMENT	1356.0	1564.0		******	******	******	******	0		
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	3960 MO AVG	9960 DAILY MX	lb/d	******	******	******	******		Weekly	COMP24
Nitrogen, total (as N)	SAMPLE MEASUREMENT	779.5	1167.6		******	******	******	******	0		
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	1200 MO AVG	2100 DAILY MX	lb/d	******	******	******	******		Twice Per Week	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	440.5	579.3		******	34.6	38.7		0		
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	2016 MO AVG	4045 DAILY MX	lb/d	******	83.36 30DA AVG	167.26 DAILY MX	mg/L		Weekly	COMP24
Phosphorus, total (as P)	SAMPLE MEASUREMENT	130.9	196.1		******	******	******	******	0		
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	192 MO AVG	309 DAILY MX	lb/d	******	******	******	******		Twice Per Week	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe.Carney Engineering & Maint	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684-644-4232		4-13-11
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	02/01/2011	TO	02/28/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001/MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oil and grease	SAMPLE MEASUREMENT	170.3	201.0		******	******	******	******	0		
03582 1 0 Effluent Gross	PERMIT REQUIREMENT	1008 MO AVG	2520 DAILY MX	lb/d	******	******	******	******		Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	1.337143	1.910000		******	******	******	******	0		
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	METER

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe.Carney Engineering & Maint	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684-644-4232		4-13-11
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of February 2011

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/L	Total Ammonia #/day	BOD5 Eff mg/L	BOD5 Total #/day
1	464.4197	1.350000	503.5	13.0	80	7.0	7.0	15.0	168.4	76.7	861.1	9.4	105.5	56.0	628.7	30.0	336.8	285.0	3199.6
	468.3261	1.410000	492.9	11.1	80	7.0	7.0					10.8	126.6	72.0	844.2				
3	479.2823	1.380000	530.0	12.4	80	7.0	7.0												
4	483.8175	1.480000	545.9	14.7	80	7.0	7.0												
5	418.3857	1.230000	482.3	11.3	80	7.0	7.0												
6		0.780000	291.5	6.8	80	7.0	7.0												
7	400.8040	1.490000	646.6	14.6	80	7.0	7.0												
8	395.4060	1.800000	556.5	12.1	80	7.0	7.0	10.8	161.7	100.7	1507.4	13.1	196.1	78.0	1167.6	38.7	579.3	334.4	5005.6
9	468.2223	0.700000	604.2	13.7	80	7.0	7.0					10.5	61.1	78.0	454.1				
10	352.9670	1.570000	535.3	12.4	80	7.0	7.0												
11	355.6460	1.900000	535.3	13.1	80	7.0	7.0												
12	350.6690	1.300000	530.0	13.3	80	7.0	7.0												
13		1.150000	535.3	12.7	80	7.0	7.0												
14	371.3365	1.340000	694.3	14.5	80	7.0	7.0												
15	388.4351	1.520000	848.0	18.3	80	7.0	7.0	15.9	201.0	118.0	1491.6	14.1	178.2	81.0	1023.9	38.4	485.4	449.0	5675.5
16	389.2203	1.470000	492.9	11.8	80	7.0	7.0					12.1	147.9	55.0	672.3				
17	390.5186	1.530000	609.5	14.1	80	7.0	7.0												
18	365.7146	1.590000	805.6	17.8	80	7.0	7.0												
19	371.4598	1.060000	270.3	7.9	80	7.0	7.0												
20		0.960000	111.3	2.8	80	7.0	7.0												
21	394.6653	1.470000	630.7	13.7	80	7.0	7.0												
22	396.5447	1.390000	556.5	12.7	80	7.0	7.0	13.0	150.3	135.3	1564.0	12.5	144.5	72.0	832.3	31.2	360.6	335.3	3875.8
23	389.2184	0.910000	567.1	13.7	80	7.0	7.0					11.5	87.0	81.0	613.0				
24	393.6006	1.910000	609.5	15.4	80	7.0	7.0												
25	386.8538	1.440000	625.4	14.1	80	7.0	7.0												
26	343.9644	1.290000	492.9	11.4	80	7.0	7.0												
27		0.860000	185.5	4.2	80	7.0	7.0												
28	378.3783	1.160000	402.8	9.0	80	7.0	7.0												
TOT	9597.8560	37.440000	14691.6	342.6					681.3		5424.0		1047.0		6236.0		1762.1		17756.5
AVG	399.9107	1.337143	528.7	12.2	80			13.7	170.3	107.7	1356.0	11.8	130.9	71.6	779.5	34.6	440.5	350.9	4439.1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001/MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	******	******	******	81	82		0		
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	90 30DA AVG	95 DAILY MX	deg F		Continuous	CONTIN
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	386.0	476.3		0		
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Weekly	COMP24
pH	SAMPLE MEASUREMENT	******	******	******	7.0	******	7.1		0		
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	8.6 MAXIMUM	SU		Continuous	CONTIN
Solids, total suspended	SAMPLE MEASUREMENT	1371.6	1624.6		******	******	******	******	0		
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	3960 MO AVG	9960 DAILY MX	lb/d	******	******	******	******		Weekly	COMP24
Nitrogen, total (as N)	SAMPLE MEASUREMENT	942.9	1187.0		******	******	******	******	0		
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	1200 MO AVG	2100 DAILY MX	lb/d	******	******	******	******		Twice Per Week	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	523.0	622.2		******	41.1	44.5		0		
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	2016 MO AVG	4045 DAILY MX	lb/d	******	83.36 30DA AVG	167.26 DAILY MX	mg/L		Weekly	COMP24
Phosphorus, total (as P)	SAMPLE MEASUREMENT	144.9	200.9		******	******	******	******	0		
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	192 MO AVG	309 DAILY MX	lb/d	******	******	******	******		Twice Per Week	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe.Carney Engineering & Maint	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684-644-4232		4-13-11
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2011	TO	03/31/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001/MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oil and grease	SAMPLE MEASUREMENT	130.6	189.9		******	******	******	******	0		
03582 1 0 Effluent Gross	PERMIT REQUIREMENT	1008 MO AVG	2520 DAILY MX	lb/d	******	******	******	******		Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	1.400000	1.830000		******	******	******	******	0		
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Continuous	METER

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe Carney Engineering & Maint	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684	644-4232	4-13-11
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of March 2011

Date	Production TONS	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/L	Total Ammonia #/day	BOD5 Eff mg/L	BOD5 Total mg/l
1	400.7948	1.370000	641.3	14.5	80	7.0	7	12.0	136.7	131.3	1495.9	10.2	116.2	85.0	968.4	42.7	486.5	476.3	5426.4
2	389.2868	1.730000	646.6	15.8	80	7.0	7.0					11.0	158.3	78.0	1122.2				
3	417.4801	1.520000	625.4	14.2	80	7.0	7.0												
4	414.1029	1.550000	715.5	16.1	80	7.0	7.0												
5	386.7021	1.110000	445.2	9.9	80	7.0	7.0												
6		0.410000	190.8	4.9	82	7.0	7.0												
7	442.7566	1.390000	604.2	14.5	80	7.0	7.0												
8	426.3839	1.540000	715.5	15.9	80	7.0	7.0												
9	444.2518	1.480000	694.3	15.2	80	7.0	7.0	6.5	80.0	132.0	1624.6	10.0	123.1	76.0	935.4	44.5	547.7	457.5	5630.8
10	358.6451	1.420000	593.6	14.4	80	7.0	7.0					11.4	134.6	61.0	720.3				
11		0.060000	74.2	1.7	80	7.0	7.0												
12	375.6025	1.180000	445.2	10.2	80	7.0	7.0												
13		0.800000	259.7	5.9	80	7.0	7.0												
14	440.6899	1.500000	561.8	14.2	80	7.0	7.0												
15	429.6823	1.480000	694.3	17.1	80	7.0	7.0												
16	445.4458	1.350000	715.5	12.4	80	7.0	7.0	8.2	92.1	100.0	1122.7	11.0	123.5	70.0	785.9	40.0	449.1	285.1	3200.7
17	431.5883	1.540000	519.4	13.3	80	7.0	7.0					9.9	126.8	46.0	589.1				
18	436.5421	1.680000	561.8	13.3	80	7.0	7.0												
19	426.2433	0.840000	323.3	7.9	80	7.0	7.0												
20		1.300000	365.7	8.6	80	7.0	7.0												
21	458.4963	1.580000	609.5	14.9	80	7.0	7.1												
22	453.0748	1.690000	742.0	17.6	80	7.0	7.0												
23	456.4040	1.770000	890.4	18.0	80	7.0	7.0	12.9	189.9	96.0	1413.1	10.8	159.0	62.0	912.6	34.6	509.3	319.7	4705.8
24	434.2529	1.830000	673.1	14.7	80	7.0	7.0					13.2	200.9	78.0	1187.0				
25	438.2886	1.660000	641.3	14.4	80	7.0	7.0												
26	444.6626	1.620000	630.7	13.4	80	7.0	7.0												
27		1.000000	296.8	6.8	80	7.0	7.0												
28	431.8657	1.550000	710.2	15.7	80	7.0	7.0												
29	435.7277	1.720000	874.5	19.0	80	7.0	7.0	10.8	154.5	84.0	1201.5	11.2	160.2	78.0	1115.7	43.5	622.2	391.5	5599.8
30	450.5361	1.800000	805.6	17.9	80	7.0	7.0					9.8	146.7	73.0	1092.7				
31	455.7290	1.780000	816.2	20.3	80	7.0	7.0												
TOT	11125.2360	43.250000	18083.6	412.7					653.2		6857.8		1449.3		9429.3		2614.8		24563.5
AVG	358.8786	1.400000	583.3	13.3				10.1	130.6	108.7	1371.6	10.9	144.9	70.7	942.9	41.1	523.0	386.0	4912.7

Starkist

July 13, 2011

Mr. Michael Wolfram
U. S. EPA Region 9
Pacific Insular Area Program (CMD-5)
75 Hawthorne Street
San Francisco, CA 94105

Dr. Toafa Vaiaga'e
Director, AS EPA
Office of the Governor
EOB Utulei, American Samoa 96799

Gentlemen :

Re : **Discharge Monitoring Report for the Months of April, May and June of 2011, under NPDES No . AS0000019 as issued to Star Kist Samoa, INC.**

Attached is the Star Kist Samoa's Discharge Monitoring Reports covering the months of April, May and June of 2011.

Star Kist Samoa met all Effluent limits.

Sincerely

Joe Carney
Manager , Engineering and Maintenance

Wa \ ls : \ npdes \samoa
Attachments :
cc :
Mr. Alan Ota
Mr. Brett Butler

323 North Shore Drive Suite 600 Pittsburgh, Pennsylvania 15212 412.323.7400 www.starkist.com

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	04/30/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001/MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	.....	.....	.....	.....	80	80		0		
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	.....	.....	.....	.....	90 30DA AVG	95 DAILY MX	deg F		Continuous	CONTIN
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	.....	.....	.....	.....	246.7	273.7		0		
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	.....	.....	.....	.....	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Weekly	COMP24
pH	SAMPLE MEASUREMENT	.....	.....	.....	7.0	.....	7.0		0		
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	.....	.....	.....	6.5 MINIMUM	.....	9.0 MAXIMUM	SU		Continuous	CONTIN
Solids, total suspended	SAMPLE MEASUREMENT	1764.4	2196.9		.....	.....	.....	.....	0		
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	3250 MO AVG	9990 DAILY MX	lb/d	.....	.....	.....	.....		Weekly	COMP24
Nitrogen, total (as N)	SAMPLE MEASUREMENT	1044.8	1293.6		.....	.....	.....	.....	0		
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	1200 MO AVG	2100 DAILY MX	lb/d	.....	.....	.....	.....		Twice Per Week	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	642.0	827.9		.....	46.3	54.4		0		
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	2016 MO AVG	4045 DAILY MX	lb/d	.....	83.36 30DA AVG	167.26 DAILY MX	mg/L		Weekly	COMP24
Phosphorus, total (as P)	SAMPLE MEASUREMENT	158.6	237.6		.....	.....	.....	.....	0		
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	192 MO AVG	309 DAILY MX	lb/d	.....	.....	.....	.....		Twice Per Week	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe.Carney Engineering & Maint			684-644-4232		7 15 11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	04/30/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001/MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oil and grease	SAMPLE MEASUREMENT	159.0	185.7		.....	.....	.....	.....	0		
03582 1 0 Effluent Gross	PERMIT REQUIREMENT	1008 MO AVG	2520 DAILY MX	lb/d	.....	.....	.....	.....		Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	1.154000	1.880000		.....	.....	.....	.....	0		
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	.....	.....	.....	.....		Continuous	METER

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe.Carney Engineering & Maint			684-644-4232		7 13 11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of April 2011

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/L	Total Ammonia #/day	BOD5 Eff mg/l	BOD5 Total #/day
1	458.7315	1.830000	530.0	12.7	80	7.0	7.0												
2	435.6500	1.540000	657.2	14.8	80	7.0	7.0												
3		0.920000	296.8	6.8	80	7.0	7.0												
4	447.6559	1.650000	583.0	13.5	80	7.0	7.0												
5	432.5433	1.830000	810.9	17.8	80	7.0	7.0	12.2	185.7	84.0	1278.3	12.0	182.6	85.0	1293.6	54.4	827.9	273.7	4165.2
6	436.2313	1.880000	614.8	14.1	80	7.0	7.0					15.2	237.6	71.0	1110.0				
7	438.3033	1.760000	567.1	13.0	80	7.0	7.0												
8	443.7137	1.450000	482.3	10.7	80	7.0	7.0												
9		0.170000	111.3	2.5	80	7.0	7.0												
10																			
11		0.290000	74.2	1.7	80	7.0	7.0												
12		0.030000	37.1	0.9	80	7.0	7.0												
13																			
14																			
15																			
16																			
17		0.700000	185.5	4.2	80	7.0	7.0												
18	417.2077	1.270000	630.7	14.0	80	7.0	7.0												
19	461.4974	1.500000	551.2	12.4	80	7.0	7.0												
20	443.1662	1.490000	863.9	19.3	80	7.0	7.0	11.4	141.3	177.3	2196.9	11.7	145.0	76.0	941.7	44.7	553.9	201.0	2490.6
21	439.3792	1.380000	842.7	18.3	80	7.0	7.0					8.8	101.0	61.0	700.0				
22		0.680000	233.2	4.8	80	7.0	7.0												
23		0.420000	111.3	2.5	80	7.0	7.0												
24		0.750000	445.2	10.4	80	7.0	7.0												
25	453.6844	1.200000	540.6	13.1	80	7.0	7.0												
26	443.1561	1.640000	795.0	20.0	80	7.0	7.0	11.0	150.0	133.3	1818.0	12.0	163.7	86.0	1172.9	39.9	544.2	265.4	3619.6
27	441.2446	1.560000	837.4	18.9	80	7.0	7.0					9.4	121.9	81.0	1050.8				
28	404.3073	1.460000	598.9	13.8	80	7.0	7.0												
29	436.8980	1.260000	593.6	14.4	80	7.0	7.0												
30		0.190000	116.6	3.2	80	7.0	7.0												
TOT	7033.3699	28.850000	12110.5	277.8					476.9		5293.2		961.8		6269.0		1925.9		10275.4
AVG	439.5856	1.154000	484.4	11.1	80			11.5	159.0	131.5	1764.4	23.0	158.6	76.7	1044.8	46.3	642.0	246.7	3425.1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: STAR KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2011	TO	05/31/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001/MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	.....	.....	.....	.....	80	80		0		
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	.....	.....	.....	.....	90 30DA AVG	95 DAILY MX	deg F		Continuous	CONTIN
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	.....	.....	.....	.....	344.8	411.3		0		
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	.....	.....	.....	.....	Req. Mon MO AVG	Req. Mon DAILY MX	mg/l		Weekly	COMP24
pH	SAMPLE MEASUREMENT	.....	.....	.....	7.0	.....	7.1		0		
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	.....	.....	.....	5.5 MINIMUM	.....	8.6 MAXIMUM	SU		Continuous	CONTIN
Solids, total suspended	SAMPLE MEASUREMENT	1536.5	2088.1		.....	.....	.....	.....	0		
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	3950 MO AVG	9960 DAILY MX	lb/d	.....	.....	.....	.....		Weekly	COMP24
Nitrogen, total (as N)	SAMPLE MEASUREMENT	848.5	1005.4		.....	.....	.....	.....	0		
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	1200 MO AVG	2100 DAILY MX	lb/d	.....	.....	.....	.....		Twice Per Week	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	462.0	504.0		.....	37.2	39.1		0		
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	2016 MO AVG	4045 DAILY MX	lb/d	.....	83.36 30DA AVG	167.26 DAILY MX	mg/L		Weekly	COMP24
Phosphorus, total (as P)	SAMPLE MEASUREMENT	137.1	168.7		.....	.....	.....	.....	0		
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	192 MO AVG	300 DAILY MX	lb/d	.....	.....	.....	.....		Twice Per Week	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe.Carney Engineering & Maint			684-644-4232		13
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2011	TO	05/31/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001 MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oil and grease	SAMPLE MEASUREMENT	160.5	316.6		.....	.....	.....	.....	0		
03582 1 0 Effluent Gross	PERMIT REQUIREMENT	1096 MO AVG	2520 DAILY MX	lb/d	.....	.....	.....	.....		Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	1.255714	1.820000		.....	.....	.....	.....	0		
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	.....	.....	.....	.....		Continuous	METER

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe Carney Engineering & Maint			684-644-4232		7 5 11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of May 2011

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/L	Total Ammonia #/day	BOD5 Eff mg/l	BOD5 Total #/day
1		0.710000	392.2	9.5	80	7.0	7.0												
2	434.9948	1.240000	561.8	13.3	80	7.0	7.0												
3	461.0686	1.470000	731.4	17.2	80	7.0	7.0	25.9	316.6	114.0	1393.6	13.8	168.7	60.0	733.5	38.5	470.6	326.9	3996.2
4	457.0916	1.460000	805.6	18.3	80	7.0	7.0					11.2	136.0	76.0	922.7				
5	448.8481	1.450000	768.5	17.9	80	7.0	7.0												
6	432.7208	1.190000	498.2	11.6	80	7.0	7.0												
7		0.120000	111.3	2.5	80	7.0	7.0												
8		0.340000	349.8	4.4	80	7.0	7.0												
9	437.7989	1.390000	699.6	16.4	80	7.0	7.0												
10	439.0903	1.480000	816.2	18.9	80	7.0	7.0	8.6	105.8	93.3	1148.3	10.5	129.2	60.0	738.5	35.3	434.5	326.3	4016.0
11	449.4041	1.300000	742.0	16.5	80	7.0	7.0					11.8	127.6	76.0	821.6				
12	445.0259	1.310000	731.4	17.1	80	7.0	7.0												
13	442.5140	1.820000	636.0	16.1	80	7.0	7.0												
14	430.6317	1.380000	567.1	14.0	80	7.0	7.0												
15		0.830000	498.2	12.3	80	7.0	7.0												
16	442.5124	1.440000	795.0	18.9	80	7.0	7.0												
17	448.7446	1.470000	699.6	17.2	80	7.0	7.0												
18	471.5039	1.550000	863.9	19.6	80	7.0	7.0	8.2	105.7	162.0	2088.1	10.7	137.9	78.0	1005.4	39.1	504.0	314.5	4053.8
19	443.5008	1.550000	710.2	16.2	80	7.0	7.1					11.8	152.1	73.0	941.0				
20	430.7398	1.300000	450.5	12.8	80	7.0	7.0												
21		1.080000	333.9	6.8	80	7.0	7.0												
22																			
23	446.0646	1.350000	625.4	15.4	80	7.0	7.0												
24	454.6129	1.470000	736.7	17.6	80	7.0	7.0	9.3	113.7	124.0	1515.8	10.8	132.0	58.0	709.0	35.9	438.9	411.3	5027.9
25	424.6774	1.530000	773.8	19.5	80	7.0	7.0					8.9	113.2	72.0	916.1				
26	417.6449	1.400000	662.5	16.2	80	7.0	7.0												
27	438.0646	1.320000	636.0	15.8	80	7.0	7.0												
28		0.510000	185.5	3.7	80	7.0	7.0												
29																			
30																			
31	395.0911	1.400000	583.0	14.5	80	7.0	7.0												
TOT	9692.3528	35.160000	16965.3	400.2					641.8		6145.9		1096.8		6787.8		1848.0		17094.0
AVG	440.5615	1.255714	605.9	14.3	80			13.0	160.5	123.3	1536.5	11.2	137.1	69.1	848.5	37.2	462.0	344.8	4273.5

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN. MR JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	06/01/2011	TO	06/30/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001/MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	.....	.....	.....	.....	80	80		0		
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	.....	.....	.....	.....	90 30DA AVG	95 DAILY MX	deg F		Continuous	CONTIN
BOD, 5-day, 20 deg C	SAMPLE MEASUREMENT	.....	.....	.....	.....	264.3	323.4		0		
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	.....	.....	.....	.....	Rep. Mon MO AVG	Rep. Mon DAILY MX	mg/L		Weekly	COMP24
pH	SAMPLE MEASUREMENT	.....	.....	.....	7.0	.....	7.0		0		
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	.....	.....	.....	6.5 MINIMUM	.....	8.6 MAXIMUM	SU		Continuous	CONTIN
Solids, total suspended	SAMPLE MEASUREMENT	1151.8	1535.8		.....	.....	.....	.....	0		
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	3960 MO AVG	9960 DAILY MX	lb/d	.....	.....	.....	.....		Weekly	COMP24
Nitrogen, total (as N)	SAMPLE MEASUREMENT	879.4	1002.4		.....	.....	.....	.....	0		
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	1200 MO AVG	2100 DAILY MX	lb/d	.....	.....	.....	.....		Twice Per Week	COMP24
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	446.3	534.8		.....	37.3	41.2		0		
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	2016 MO AVG	4045 DAILY MX	lb/d	.....	83.36 30DA AVG	167.26 DAILY MX	mg/L		Weekly	COMP24
Phosphorus, total (as P)	SAMPLE MEASUREMENT	117.8	153.6		.....	.....	.....	.....	0		
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	192 MO AVG	309 DAILY MX	lb/d	.....	.....	.....	.....		Twice Per Week	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe Carney Engineering & Maint			684-644-4232		7 15 11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN. MR. JOE CARNEY

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2011	TO	06/30/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001/MONTHLY
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oil and grease	SAMPLE MEASUREMENT	167.2	198.2		.....	.....	.....	.....	0		
03582 1 0 Effluent Gross	PERMIT REQUIREMENT	1006 MO AVG	2520 DAILY MX	lb/d	.....	.....	.....	.....		Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	1.184300	1.620000		.....	.....	.....	.....	0		
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon MO AVG	Req. Mon DAILY MX	Mgal/d	.....	.....	.....	.....		Continuous	METER

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe,Carney Engineering & Maint			684-644-4232		7/15/11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of June 2011

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/L	Total Ammonia #/day	BOD5 Eff mg/l	BOD5 Total #/day
1	427.5756	1.510000	21.6	19.5	80	7.0	7.0	9.2	115.5	96.0	1205.5	7.1	89.2	55.0	690.6	31.3	393.0	188.8	2370.8
2	408.4843	1.440000	853.3	19.3	80	7.0	7.0					9.7	116.2	79.0	946.0				
3	417.1888	1.580000	667.8	16.9	80	7.0	7.0												
4	385.4541	1.420000	651.9	14.0	80	7.0	7.0												
5		0.680000	302.1	7.3	80	7.0	7.0												
6	410.5870	0.540000	355.1	8.5	80	7.0	7.0												
7	408.3310	1.620000	805.6	19.5	80	7.0	7.0	12.9	173.8	114.0	1535.8	11.4	153.6	72.0	970.0	39.7	534.8	265.2	3572.8
8	401.8455	1.610000	699.6	16.4	80	7.0	7.0					8.7	116.5	74.0	990.8				
9	391.4185	1.540000	726.1	17.9	80	7.0	7.0												
10	412.3645	1.470000	742.0	17.6	80	7.0	7.0												
11		0.460000	212.0	5.1	80	7.0	7.0												
12		0.450000	238.5	5.9	80	7.0	7.0												
13	414.3657	1.420000	646.6	16.1	80	7.0	7.0												
14	416.5484	1.260000	747.3	18.8	80	7.0	7.0	16.9	177.1	66.0	691.6	11.6	121.5	59.0	618.2	35.8	375.1	265.2	2778.8
15	416.8143	1.420000	757.9	18.2	80	7.0	7.0					10.7	126.4	83.0	980.1				
16	421.1813	1.430000	683.7	17.1	80	7.0	7.0												
17	417.0839	1.160000	561.8	13.1	80	7.0	7.0												
18		0.390000	227.9	5.5	80	7.0	7.0												
19		0.280000	201.4	4.5	80	7.0	7.0												
20	410.0932	1.440000	747.3	17.8	80	7.0	7.0												
	413.3131	1.370000	742.0	18.2	80	7.0	7.0	17.4	198.2	90.7	1033.3	9.3	106.0	74.0	843.1	38.5	438.6	278.8	3176.3
22	419.2890	1.470000	858.6	19.3	80	7.0	7.0					11.0	134.5	82.0	1002.4				
23	424.3550	1.490000	726.1	16.8	80	7.0	7.0												
24	421.0465	1.490000	736.7	17.6	80	7.0	7.0												
25		0.350000	111.3	2.5	80	7.0	7.0												
26		0.620000	201.4	4.8	80	7.0	7.0												
27	425.9835	1.230000	620.1	14.4	80	7.0	7.0												
28	437.1300	1.430000	720.8	17.2	80	7.0	7.0												
29	438.3015	1.430000	779.1	18.2	80	7.0	7.0	14.4	171.2	108.7	1292.6	7.7	91.6	80.0	951.4	41.2	489.9	323.4	3845.8
30	458.7705	1.530000	752.6	17.5	80	7.0	7.0					9.6	122.1	63.0	801.6				
TOT	9597.5252	35.530000	17098.2	425.5					835.9		5758.8		1177.4		8794.2		2231.6		15744.5
AVG	417.2837	1.184300	569.9	14.2	80			14.2	167.2	95.1	1151.8	79.1	117.8	72.1	879.4	37.3	446.3	264.3	3148.9

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No 2040 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: STAR-KIST SAMOA
ADDRESS: PO BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY
LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

AS0000019	001-S
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2011	TO	06/30/2011

DMR Mailing ZIP CODE: 96799
MAJOR

DISCHARGE 001S/SEMIANNUAL
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Zinc, total recoverable	SAMPLE MEASUREMENT				.....						
01094 1 0 Effluent Gross	PERMIT REQUIREMENT	27.52 MO AVG	55.24 DAILY MX	lb/d	.....	1138 30DA AVG	2284 DAILY MX	ug/L		Semiannual	COMP24
Copper, total recoverable	SAMPLE MEASUREMENT				.....						
01119 1 0 Effluent Gross	PERMIT REQUIREMENT	1.41 MO AVG	2.84 DAILY MX	lb/d	.....	58.42 30DA AVG	117.2 DAILY MX	ug/L		Semiannual	COMP24
Mercury, total recoverable	SAMPLE MEASUREMENT				.....						
71901 1 0 Effluent Gross	PERMIT REQUIREMENT	.04 MO AVG	.11 DAILY MX	lb/d	.....	1.8 30DA AVG	4.72 DAILY MX	ug/L		Semiannual	COMP24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Joe Carney Engineering & Maint			684-644-4232		7 13 11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

April 1st, 2011

Michael Wolfram
Program Manager
Pacific Islands Office
USEPA Region IX
75 Hawthorne Street
San Francisco, CA 94105

RE: OCEAN DUMPING PERMIT OD93-02 SPECIAL

Dear Michael:

Pursuant to the requirements of the above referenced permit, we are herewith submitting the Quarterly ocean dumping report for the period of January 2011 through March 2011 for COS Samoa Packing Company. No waste has been generated or transferred or dumped in this quarter. Enclosed are the following:

* EPA Forms 1, 2 and 3.
* Results of Monthly Onshore Storage Tank Analysis. No testing was done. N/A
* Letter to ASEPA reporting exceedances and irregularities during the 3 month period where applicable. There were no exceedances. N/A
* Monthly Site Monitoring Reports. N/A
* Results of Monthly Site Monitoring Analysis.

Please advise if additional information is required.

Sincerely,

Craig Double
Facility Manager
Samoa Tuna Processors Inc.

Enclosures:
Pacific Island Office

Cc(1) Except Vessel Logs	Director American Samoa Environmental Protection Agency American Samoa Government Pago Pago, American Samoa 96799
Cc(1) Complete Report	Director of Engineering Chicken of the Sea International 9330 Scranton Road Suite 500 San Diego, California 92121
	Allan Ota Wetlands Office US EPA Region IX 75 Hawthorne Street San Francisco, CA 94105
Cc(1) Vessel Logs Only	Commanding Chief U.S. Coast Guard Liaison Office P.O. Box 249 Pago Pago, American Samoa 96799
Cc(1) Except Vessel Logs:	Project Leader Office of Environmental Services U.S. Fish and Wildlife Service 300 Ala Moana Boulevard P.O. Box 50167 Honolulu, Hawaii 96850
	John Naughton Pacific Island Regional Office 1601 Kapiolani BLvd. Suite 1110 Honolulu, Hawaii 96814-4700
	Executive Director Western Pacific Regional Fishery Management Council 1164 Bishop Street, Suite 1405 Honolulu, Hawaii 96813

STAR KIST SAMOA, CO
P. O. BOX 368, PAGO PAGO AMERICAN SAMOA 96799
WATER TREATMENT DEPARTMENT

REPORT OF ANALYSES RESULTS

SAMPLE TYPE : Sea Water - Ocean Monitoring Sampling - January 13, 2011
REPORTING DATE : February 16, 2011

SAMPLES	AMMONIA (mg N/L)	TOTAL NITROGEN (mg N/L)	TOTAL PHOSPHORUS (mg P/L)	NON FILTERABLE RESIDUE (mg/L)	VOLATILE NON FILTERABLE RESIDUE (mg/L)	OIL& GREASE (mg / L)
Stn : 1-1Mtr Control	0.031	0.30	0.015	5.0	2.5	0.24
Stn : 1-3 Mtr Control	0.039	0.40	0.005	5.0	2.0	0.34
Stn :1-10 Mtr Control	0.029	0.25	0.010	4.5	1.5	0.22
Stn : 1-1Mtr	0.020	0.25	0.005	4.5	1.5	0.34
Stn : 1-3 Mtr	0.017	0.05	0.000	4.5	2.0	0.45
Stn : 1-10 Mtr	0.023	0.15	0.020	6.0	2.0	0.22
Stn : 2-1 Mtr	0.028	0.20	0.020	4.5	2.5	0.34
Stn : 2-3 Mtr	0.033	0.25	0.005	5.0	1.5	0.11
Stn : 2-10 Mtr	0.028	0.30	0.005	4.5	1.5	0.34
Stn : 3-1 Mtr	0.041	0.35	0.010	4.0	3.5	0.23
Stn : 3-3 Mtr	0.031	0.15	0.005	4.5	2.5	0.45
Stn : 3-10 Mtr	0.033	0.30	0.020	4.5	3.0	0.33
Stn : 4-1 Mtr	0.032	0.25	0.010	5.0	2.5	0.35
Stn : 4-3 Mtr	0.028	0.30	0.015	5.0	2.5	0.22
Stn : 4-10 Mtr	0.043	0.35	0.015	5.0	3.0	0.35
Stn : 5-1 Mtr	0.020	0.40	0.015	5.0	2.5	0.47
Stn : 5-3 Mtr	0.043	0.40	0.005	4.0	2.5	0.22
Stn : 5-10 Mtr	0.038	0.10	0.015	5.0	1.5	0.45

Joe Carney: Engineering Manager

STAR KIST, SAMOA, CO
P. O. BOX 368, PAGO PAGO AMERICAN SAMOA 96799
WATER TREATMENT DEPARTMENT

REPORT OF ANALYSES RESULTS

SAMPLE TYPE : Sea Water - Ocean Monitoring Sampling - February 10, 2011
REPORTING DATE : March 08, 2011

SAMPLES	AMMONIA (mg N/L)	TOTAL NITROGEN (mg N/L)	TOTAL PHOSPHORUS (mg P/L)	NON FILTERABLE RESIDUE (mg/L)	VOLATILE NON FILTERABLE RESIDUE (mg/L)	OIL& GREASE (mg / L)
Stn : 1-1Mtr Control	0.030	0.30	0.025	5.5	2.0	0.34
Stn : 1-3 Mtr Control	0.036	0.30	0.010	4.5	3.0	0.47
Stn :1-10 Mtr Control	0.041	0.15	0.015	5.5	2.5	0.25
Stn : 1-1Mtr	0.042	0.20	0.020	4.5	2.5	0.24
Stn : 1-3 Mtr	0.027	0.20	0.035	5.0	3.0	0.33
Stn : 1-10 Mtr	0.041	0.30	0.005	5.0	3.5	0.23
Stn : 2-1 Mtr	0.039	0.10	0.005	4.5	2.5	0.23
Stn : 2-3 Mtr	0.032	0.20	0.015	5.0	1.5	0.33
Stn : 2-10 Mtr	0.038	0.20	0.015	5.0	2.5	0.23
Stn : 3-1 Mtr	0.037	0.05	0.000	4.5	2.5	0.33
Stn : 3-3 Mtr	0.028	0.15	0.010	4.5	2.0	0.23
Stn : 3-10 Mtr	0.023	0.05	0.025	5.5	2.5	0.24
Stn : 4-1 Mtr	0.033	0.20	0.005	5.0	1.5	0.23
Stn : 4-3 Mtr	0.044	0.25	0.025	4.5	3.0	0.35
Stn : 4-10 Mtr	0.026	0.15	0.005	5.5	3.5	0.45
Stn : 5-1 Mtr	0.042	0.15	0.010	4.5	2.0	0.38
Stn : 5-3 Mtr	0.045	0.25	0.020	5.5	2.0	0.37
Stn : 5-10 Mtr	0.047	0.20	0.005	4.5	2.0	0.23

Joe Carney: Engineering Manager

STAR KIST SAMOA, CO
P. O. BOX 368, PAGO PAGO AMERICAN SAMOA 96799
WATER TREATMENT DEPARTMENT

REPORT OF ANALYSES RESULTS

SAMPLE TYPE : Sea Water - Ocean Monitoring Sampling - March,10 2011
REPORTING DATE : April 06, 2011

SAMPLES	AMMONIA (mg N/L)	TOTAL NITROGEN (mg N/L)	TOTAL PHOSPHORUS (mg P/L)	NON FILTERABLE RESIDUE (mg/L)	VOLATILE NON FILTERABLE RESIDUE (mg/L)	OIL& GREASE (mg / L)
Stn : 1-1Mtr Control	0.046	0.30	0.010	4.5	2.0	0.47
Stn : 1-3 Mtr Control	0.032	0.20	0.005	5.5	2.0	0.56
Stn 1-10 Mtr Control	0.041	0.05	0.010	5.5	3.0	0.34
Stn : 1-1Mtr	0.043	0.25	0.015	4.5	1.5	0.23
Stn : 1-3 Mtr	0.027	0.20	0.025	5.0	2.5	0.35
Stn : 1-10 Mtr	0.019	0.25	0.015	4.5	2.0	0.11
Stn : 2-1 Mtr	0.050	0.20	0.000	4.5	3.0	0.24
Stn : 2-3 Mtr	0.038	0.35	0.015	5.0	3.5	0.12
Stn : 2-10 Mtr	0.052	0.30	0.005	5.0	3.0	0.36
Stn : 3-1 Mtr	0.045	0.50	0.010	5.0	3.5	0.49
Stn : 3-3 Mtr	0.046	0.15	0.005	5.5	2.0	0.47
Stn : 3-10 Mtr	0.050	0.25	0.005	5.5	2.5	0.38
Stn : 4-1 Mtr	0.046	0.25	0.020	5.0	2.0	0.25
Stn : 4-3 Mtr	0.038	0.20	0.015	6.5	2.0	0.49
Stn : 4-10 Mtr	0.032	0.30	0.010	5.5	2.0	0.36
Stn : 5-1 Mtr	0.043	0.20	0.015	6.0	2.5	0.39
Stn : 5-3 Mtr	0.032	0.20	0.005	6.0	2.0	0.12
Stn : 5-10 Mtr	0.049	0.10	0.000	5.5	2.0	0.12

Joe Carney: Engineering Manager

APPENDIX B - REPORT FORM 1

Monthly Volumes of COS Samoa Packing Fish Processing Wastes Generated Per Day
and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month: Jan-11

OD 93-02 Permit Limits	DAF Sludge Generated (gallons/day) 60,000	Precooker Water Generated (gallons/day) 100,000	Press Water Generated (gallons/day) 40,000	Total Generated (gallons/day) 200,000	Volume Ocean Disposed (gallons/day) 200,000
1/1/2011	No waste for January			0	
Totals	0	0	0	0	0

Note: An asterisk(*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate: 0 pounds/month

APPENDIX B - REPORT FORM 1

Monthly Volumes of COS Samoa Packing Fish Processing Wastes Generated Per Day
and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month: Feb-11

OD 93-02 Permit Limits	DAF Sludge Generated (gallons/day) 60,000	Precooker Water Generated (gallons/day) 100,000	Press Water Generated (gallons/day) 40,000	Total Generated (gallons/day) 200,000	Volume Ocean Disposed (gallons/day) 200,000
2/1/2011	No Waste for February			#VALUE!	
Totals	0	0	0	#VALUE!	0

Note: An asterisk(*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly Totals row.

Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate: 0 pounds/month

APPENDIX B - REPORT FORM 1

Monthly Volumes of COS Samoa Packing Fish Processing Wastes Generated Per Day
and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month: Mar-11

OD 93-02 Permit Limits	DAF Sludge Generated (gallons/day) 600,00	Precooker Water Generated (gallons/day) 100,000	Press Water Generated (gallons/day) 40,000	Total Generated (gallons/day) 200,000	Volume Ocean Disposed (gallons/day) 200,000
3/1/2011	No Waste for March			#VALUE!	
Totals	0	0	0	#VALUE!	0

Note: An asterisk(*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly Totals row.

Monthly quantities of Aluminum Sulfate: 0 pounds/month

APPENDIX B - REPORT FORM 2

Data Form for 3-Month Report on Waste Stream Analyses for COS Samoa Packing MPRSA 102 Permit #OD 93-02

Reporting Period: From January 2011 to March 2011

COS Samoa Packing - Onshore Storage Monitoring Report

Month & Year	Total Solids (mg/L)		Total Volatile Solids (mg/L)		5-Day Biological Oxygen Demand (mg/L)		Oil and Grease (mg/L)		Total Phosphorus (mg/L)		Total Nitrogen (mg/L)		Ammonia (mg/L)		pH (pH units)		Density (g/mL)	
January-11 Feruary-11 March-11																		
OD 93-02 Permit Limits	54,590		58,760		87,780		48,630		2,820		11,070		5,200		5.8 to 7.5		.97 to 1.03	

NOTE: An asterisk(*) next to the waste concentration signifies that an exceedance of the permit limit has occurred.

Cumulative Yearly Data on Fish Processing Wastes
Generated at COS Samoa Packing Company and Disposed at the Ocean Site
MPRSA 102 Special Permit #OD 93-02

Reporting Period: From 1-Jan 2011 31-Mar 2011

Month & Year	DAF Sludge Generated (gallons/month)	Cooker Water Generated (gallons/month)	Press Water Generated (gallons/month)	Total Generated (gallons/month)	Coagulate polymer (pounds/month)	Volume Ocean Disposed (gallons/month)
Jan. 2011	0	0	0	0	0	0
Feb. 2011	0	0	0	0	0	0
Mar. 2011	0	0	0	0	0	0
Apr. 2011						
May. 2011						
Jun. 2011						
Jul. 2011						
Aug. 2011						
Sep. 2011						
Oct. 2011						
Nov. 2011						
Dec. 2011						
Cumulative Yearly Totals	0	0	0	0	0	0

NOTE: A seperate table shall be prepared for each calendar year.

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

10 March, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

RECEIVED
MAR 14 2011
BY:

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
14 March, 2011

Introduction

On March 10, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0510: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0600: The *Blue Moon* entered the dumpzone circle @ 14*22.5' S x 170*38.7' W.

0610: The *Blue Moon* arrived at the dump-zone center, where observed east winds and slight east southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0620: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with east/SE swells to 1.0 meters and east winds at 10 knots (kts.) with the barometer reading 29.62. Current set and drift, of the ship, were to the west at 1.1 knots. No floating materials or sea life were observed here.

0630: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.2 miles long (see Plot 1) until 0945 hrs.

0955: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east wind had increased to 15 kts. with partly cloudy skies. The waste plume was not visibly present here and was only apparent further down-current to the west some distance, (approximately 0.5 miles) away. The current/wind drift of the ship was GPS determined to be westerly @ 1.6 knots. No sea life or floating materials were observed.

1005: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed similar coloration qualities as those at Station #1, with only clear natural blue appearing seawater and no visible indication of the waste plume. The average drift rate of the ship with current and wind was GPS determined here to be westerly (W) at a rate of 1.9 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1015: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed a large area with heavy surface sheen over clear sub-surface waters. Sea & wind conditions remained the same as with the previous sample stations and the drift rate of the ship between Stations #3 & 4 was 1.8 knots, again, to the west.

1025: Station Four monitoring. This area showed more of the heavy surface sheen over clear blue subsurface water, pretty much the same color qualities as with Station #3. The westerly current/drift rate of the ship was again noted here to be at 1.8 knots. No floating scum or suspended particulate materials were observed at any of these sample stations.

1032: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.4 NM west of the zone center (see Plot #1). The leading edge of the waste plume was clearly visible at this location as a distinct area of broken up streaks of moderate to heavy glassy surface sheen with clear, natural appearing blue waters further down-current to the west and no floating or suspended scum or particulates. No notable sea life was observed at this position or any of the previous stations, other than a few random seabirds flying by. The final barometer reading was 29.67 when monitoring activities were concluded at 1040 hrs. The *Blue Moon* exited the disposal zone at 1048 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 11:45.

Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

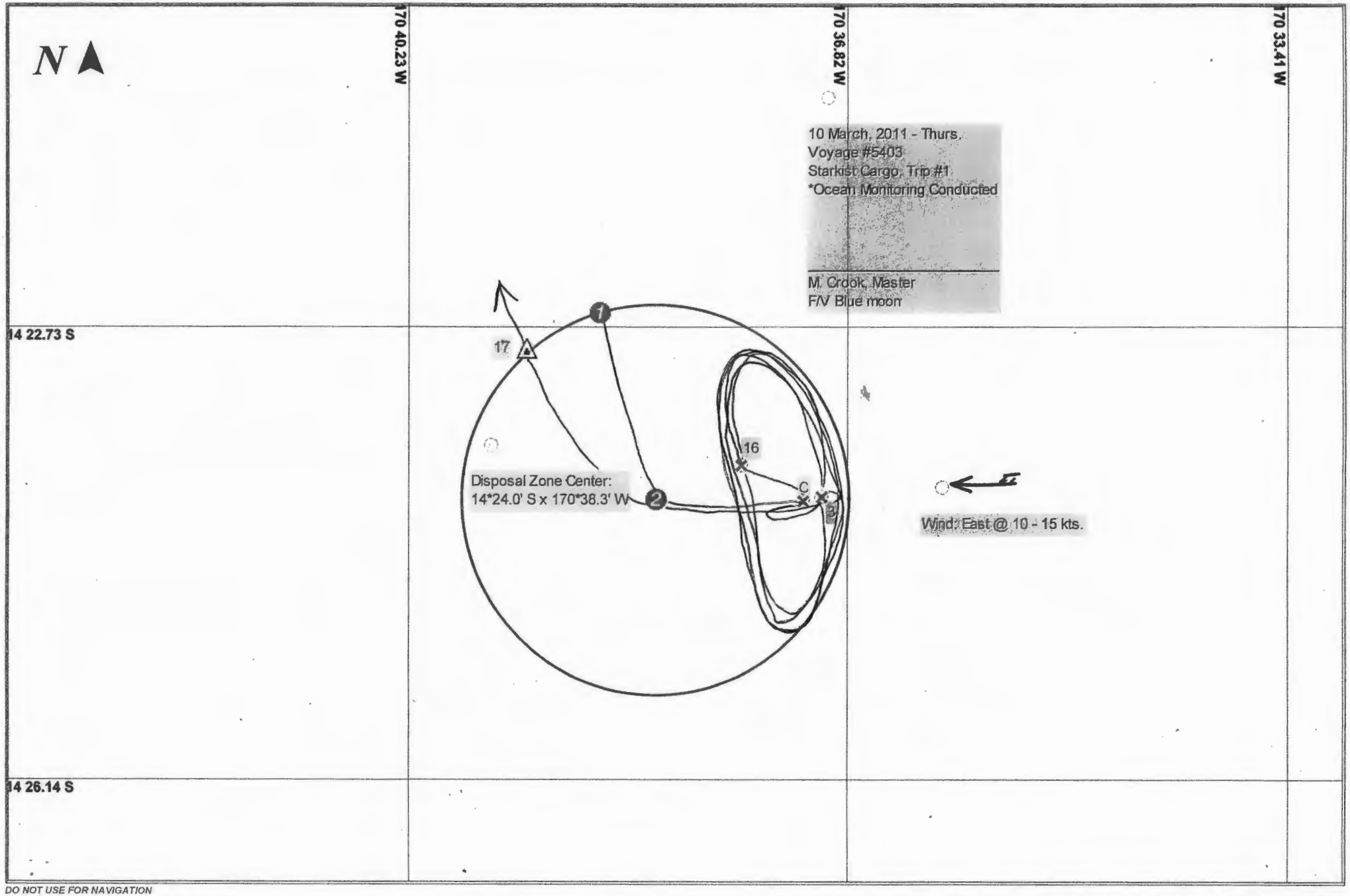
Table 1

Date: March 10, 2011	Sea Conditions: Slight w/ East southeast swells to 1.0 meters. Wind: East @ 10 - 15 knots Visibility: Good 8-10+ miles Barometer: 29.61 - 29.67 Current Set & Drift Rate: West @ average 1.75 knots Sky: Cloudy/Partly cloudy, 70 - 80%					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0620	Control	1	27.8	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	27.8	7.3		
		10	27.8	7.3		
0955	Station 1	1	27.8	7.3	None	Same as Control Station.
		3	27.8	7.3		
		10	27.8	7.3		
1005	Station 2	1	27.8	7.3	None	Again, same as Control and Station #1.
		3	27.8	7.3		
		10	27.8	7.3		
1015	Station 3	1	28.3	7.3	Slightly Pungent	Broad area of heavy glassy surface sheen over deep, clear blue. No floating or suspended particulate or other material.
		3	27.8	7.3		
		10	27.8	7.3		
1025	Station 4	1	27.8	7.3	Slightly Pungent	Same as Station #3.
		3	27.8	7.3		
		10	27.8	7.3		
1032	Station 5	1	27.8	7.3	Slightly Pungent	Leading edge of the waste plume: Distinct area of broken steaks of moderate to heavy glassy surface sheen over clear blue with more clear, blue, natural appearing seas further down-current to the west. No floating or suspended materials of any description.
		3	27.8	7.3		
		10	27.8	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control-C	14° 24.08'	South	170° 37.15'	West
Station 1	14° 23.99'	South	170° 37.01'	West
Station 2	14° 24.07'	South	170° 37.29'	West
Station 3	14° 24.06'	South	170° 37.50'	West
Station 4	14° 24.08'	South	170° 37.88'	West
Station 5	14° 24.06'	South	170° 38.80'	West

191,000



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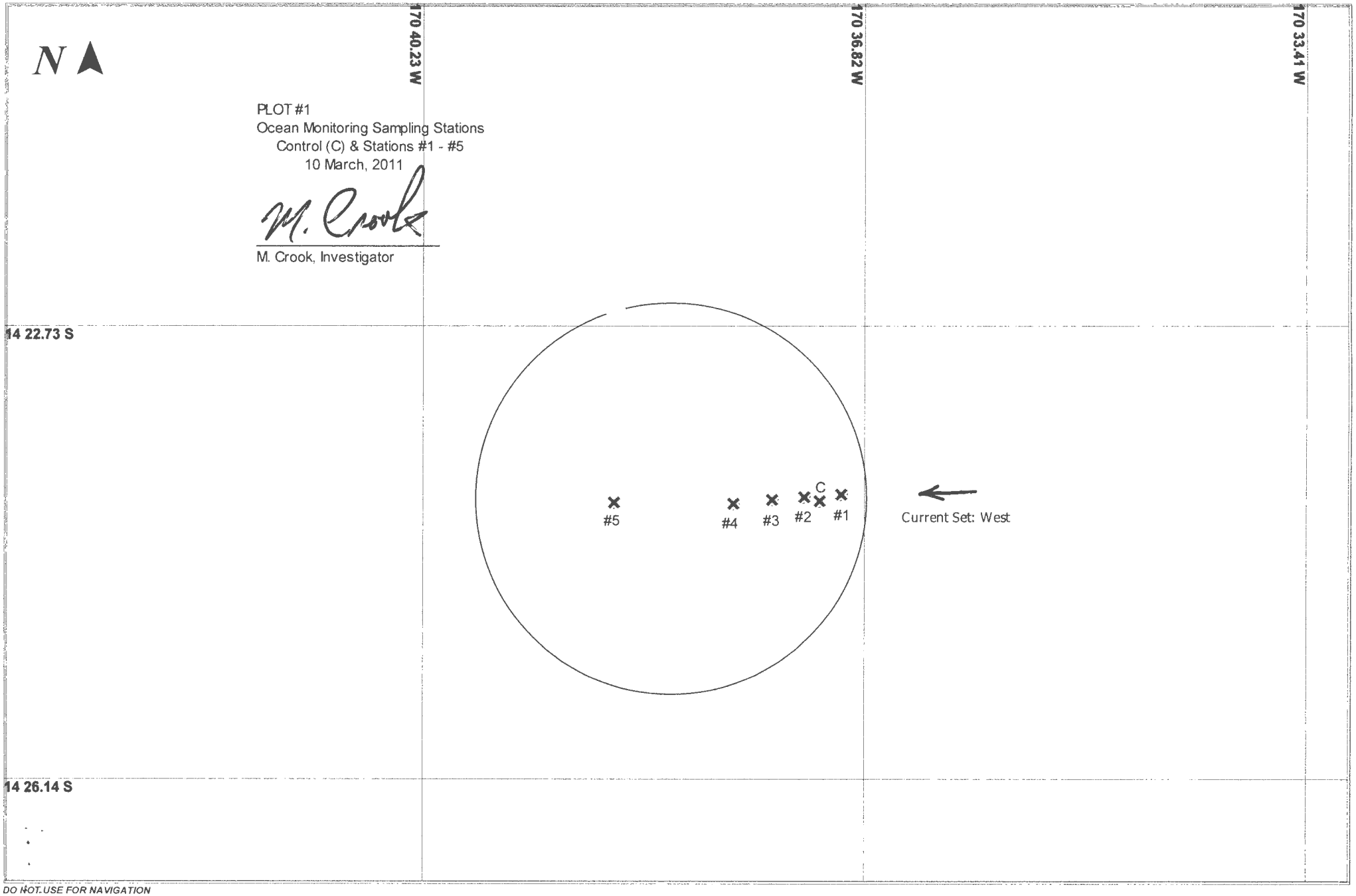
191,000



PLOT #1
Ocean Monitoring Sampling Stations
Control (C) & Stations #1 - #5
10 March, 2011

M. Crook, Investigator

DO NOT USE FOR NAVIGATION
SOME NAVIGATION AIDS MAY NOT BE SHOWN

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Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

10 February, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

RECEIVED
RECEIVED
RECEIVED
FEB 14 2011
FEB 15 2011
By:
By:

RECEIVED
FEB 14 2011
By:

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
11 February, 2011

Introduction

On February 10, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dumpsite area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0610: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0702: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S x 170*38.7' W.

0712: The *Blue Moon* arrived at the dump-zone center, where observed calm winds and slight east southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0725: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with east/ESE swells to 1.0 meters and calm winds with the barometer reading 29.60. Current set and drift, of the ship, were slow to the west at 0.3 knots. No floating materials or sea life were observed here.

0735: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.2 miles long (see Plot 1) until 1033 hrs.

1040: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. An east wind had just slightly come up and increased to 5 knots with still cloudy skies. The waste plume appeared here as elongate large area of heavy glassy surface sheen with a few aqua patches extending in a N to S direction and moving, very gradually to the west. The current/wind drift of the ship was now GPS determined to be westerly @ 0.2 knots. No sea life or floating materials were observed.

1050: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed similar coloration/sheen qualities as those at Station #1, with clear natural blue appearing seawater underneath. The average drift rate of the ship with current and wind was GPS determined to be westerly (W) at a very slow rate of 0.1 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1100: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed the same heavy sheen over clear sub-surface waters as Stations #1 & #2 with a few additional small patches of milky blue. Sea & wind conditions remained quite calm at this point and the drift rate of the ship between Stations #3 & 4 was 0.2 knots, again, to the west.

1110: Station Four monitoring. This area showed, in addition to the heavy surface sheen, widespread floating swaths of brownish scum and particulate material. None of this material was noted to be suspended or sub-surface. The westerly current/drift rate of the ship was again noted here to be at 0.3 knots.

1115: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.35 NM east of the zone center. The leading edge of the waste plume was hardly visible at this location as an area of faint streaks of slightly glassy surface sheen with clear, natural appearing blue waters further down-current to the west. No notable sea life was observed at this position or any of the previous stations, other than a few random seabirds flying by. The final barometer reading was 29.54 when monitoring activities were concluded at 1130 hrs. The *Blue Moon* exited the disposal zone at 1140 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1230 hours.

Prepared by M. Crook
Mike Crook, Principal Investigator

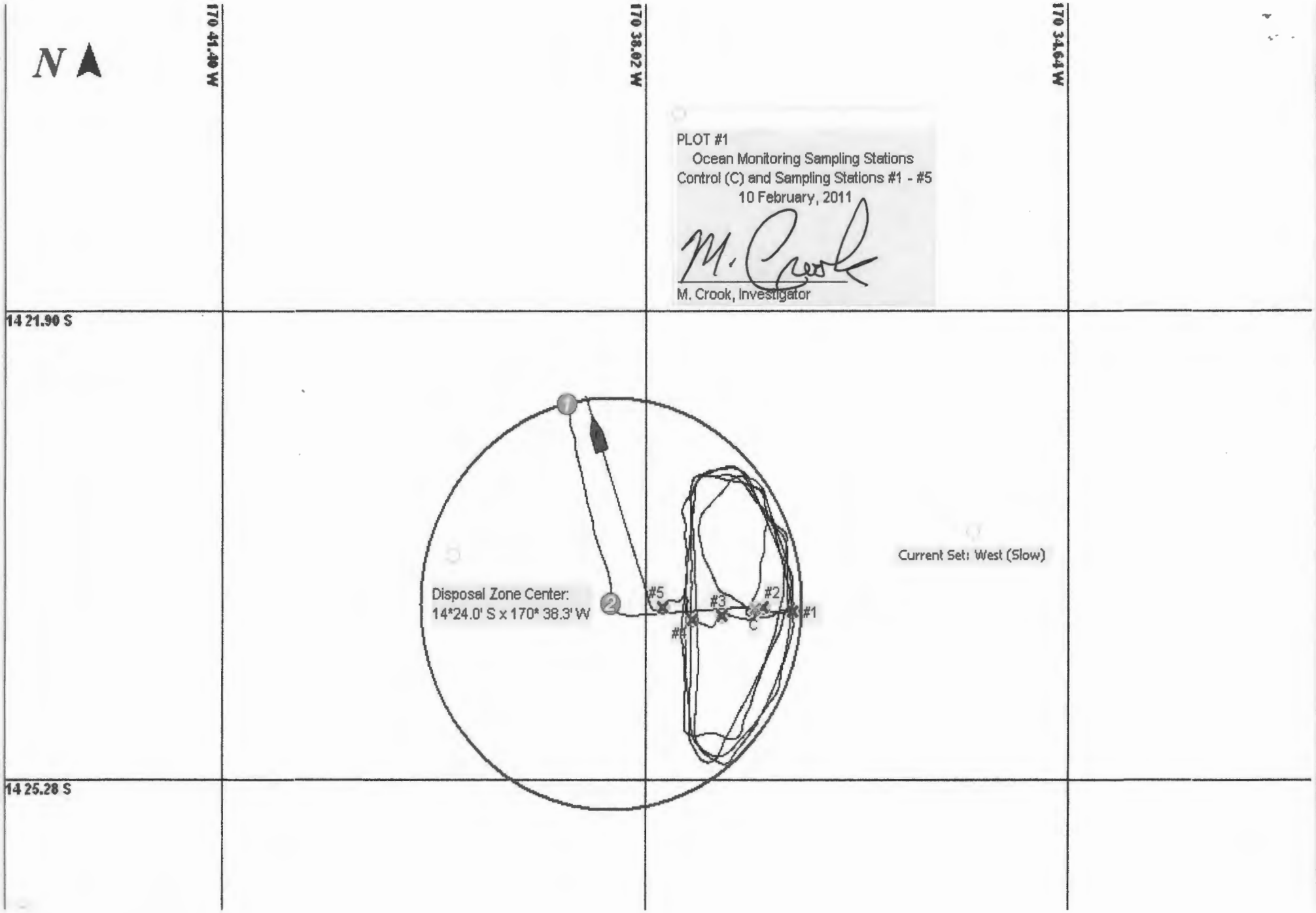
OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: 10 February, 2011	Sea Conditions: Slight w/ East southeast swells to 1.0 meters. Wind: Calm to East @ 2 -5 knots Visibility: Good 8-10+ miles Barometer: 29.59 - 29.60 - 29.54 Current Set & Drift Rate: Slow west @ average 0.25 knots Sky: Cloudy/overcast - 100%					
Time	Station	Depth (meters)	Temp. (°C)	pH	Odor	Color
0725	Control	1	26.1	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	26.1	7.3		
		10	26.1	7.3		
1035	Station 1	1	27.2	7.3	Slightly Pungent	Heavy glassy surface sheen over deep, clear blue water. No floating or suspended particulate or other material.
		3	27.2	7.3		
		10	26.7	7.3		
1045	Station 2	1	27.2	7.3	Slightly Pungent	A large area of heavy glassy sheen over clear blue water. No floating or suspended particulate materials.
		3	27.2	7.3		
		10	27.2	7.3		
1055	Station 3	1	28.3	7.3	Slightly Pungent	Heavy glassy surface sheen with some light milky blue patches. No floating or suspended particulate or other material.
		3	27.8	7.3		
		10	27.8	7.3		
1105	Station 4	1	27.2	7.3	Slightly Pungent	A large area of heavy glassy sheen with abundant floating swaths of brownish scum and fine particulate materials, also light brown in color. None of this material extended sub-surface (suspended).
		3	27.2	7.3		
		10	27.2	7.3		
1115	Station 5	1	27.2	7.3	Slightly Pungent	Leading edge of the waste plume: Scattered & broken light steaks of glassy surface sheen with clear, blue, natural appearing seas further down-current to the west. No more floating or suspended materials of any description.
		3	27.2	7.3		
		10	27.2	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control-C	14° 24.04'	South	170° 37.14'	West
Station 1	14° 24.06'	South	170° 36.89'	West
Station 2	14° 24.05'	South	170° 37.09'	West
Station 3	14° 24.11'	South	170° 37.45'	West
Station 4	14° 24.13'	South	170° 37.63'	West
Station 5	14° 24.00'	South	170° 37.86'	West


N
170 41.49 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
10 February, 2011
M. Crook, Investigator
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Current Set: West (Slow)
#1
#2
#3
#4
#5
C

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

13 January, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
17 January, 2011

Introduction

On January 13, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dumpsite area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0520: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0613: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S x 170*38.7' W.

0622: The *Blue Moon* arrived at the dump-zone center, where observed light easterly winds and slight easterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0635: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with east swells to 1.5 meters and an east wind of 10 knots with the barometer reading 29.52. Current set and drift, of the ship, were to the west at 0.5 knots. No floating materials or sea life were observed here.

0645: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.2 miles long (see Plot 1) until 0937 hrs.

0945: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east winds had increased slightly to12 knots with cloudy skies. The waste plume appeared here as elongate streaks of light to heavy glassy surface sheen extending in a N to S direction and moving, generally, to the west. The current/wind drift of the ship was now GPS determined to be westerly @ 1.0 knots. No sea life or floating materials were observed.

0955: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed lighter and more broken and scattered streaks of glassy surface sheen than at Station #1, with clear natural blue appearing seawater underneath. The average drift rate of the ship with current and wind was GPS determined to be westerly (W) at 1.0 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1010: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed none of the typical glassy surface sheen, just clear blue water being in the center of the drifting elliptically shaped plume's center. The drift rate of the ship between Stations #3 & 4 was 1.1 knots, again, to the west.

1020: Station Four monitoring. Standard sampling procedures were again carried out as in previous stations. This position, 0.25 NM, W of Station #3, showed the same visual characteristics of the waste plume as Station #2 with another area of light & scattered streaks of surface sheen over natural clear blue water extending from N to S and roughly 2.5 miles long. There were no floating or suspended materials. The westerly current/drift rate of the ship was again noted here to be at 1.0 knots.

1030: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.30 NM east of the zone center. The leading edge of the waste plume was clearly visible at this location as an area of long N to S reaching track lines of heavy glassy surface sheen with clear, natural appearing blue waters further down-current to the west. No notable sea life was observed at this position or any of the previous stations, other than a few random seabirds flying by. The final barometer reading was 29.51 when monitoring activities were concluded at 1040 hrs. The *Blue Moon* exited the disposal zone at 1052 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1145 hours.

Prepared by M. Crook
Mike Crook, Principal Investigator

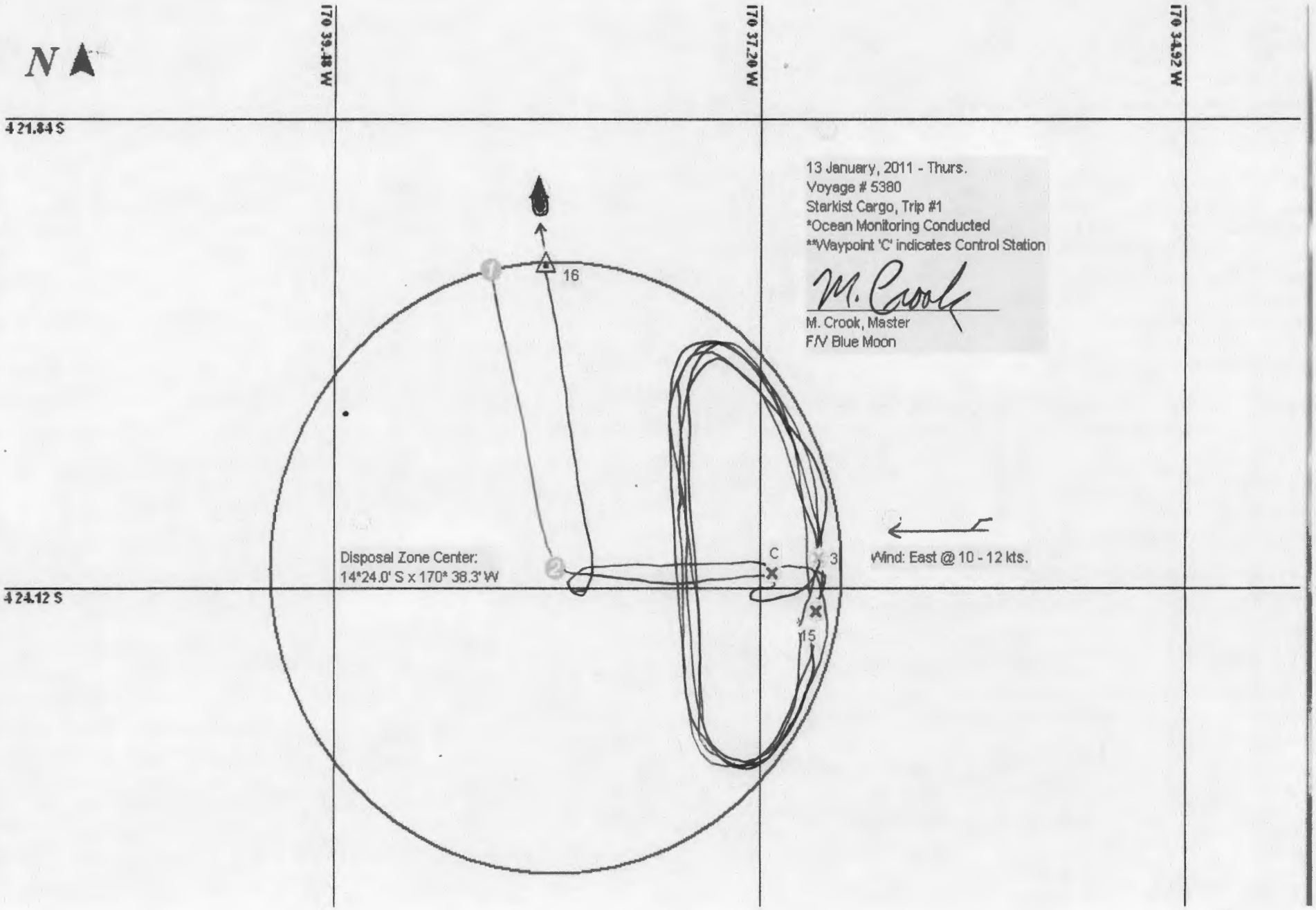
OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

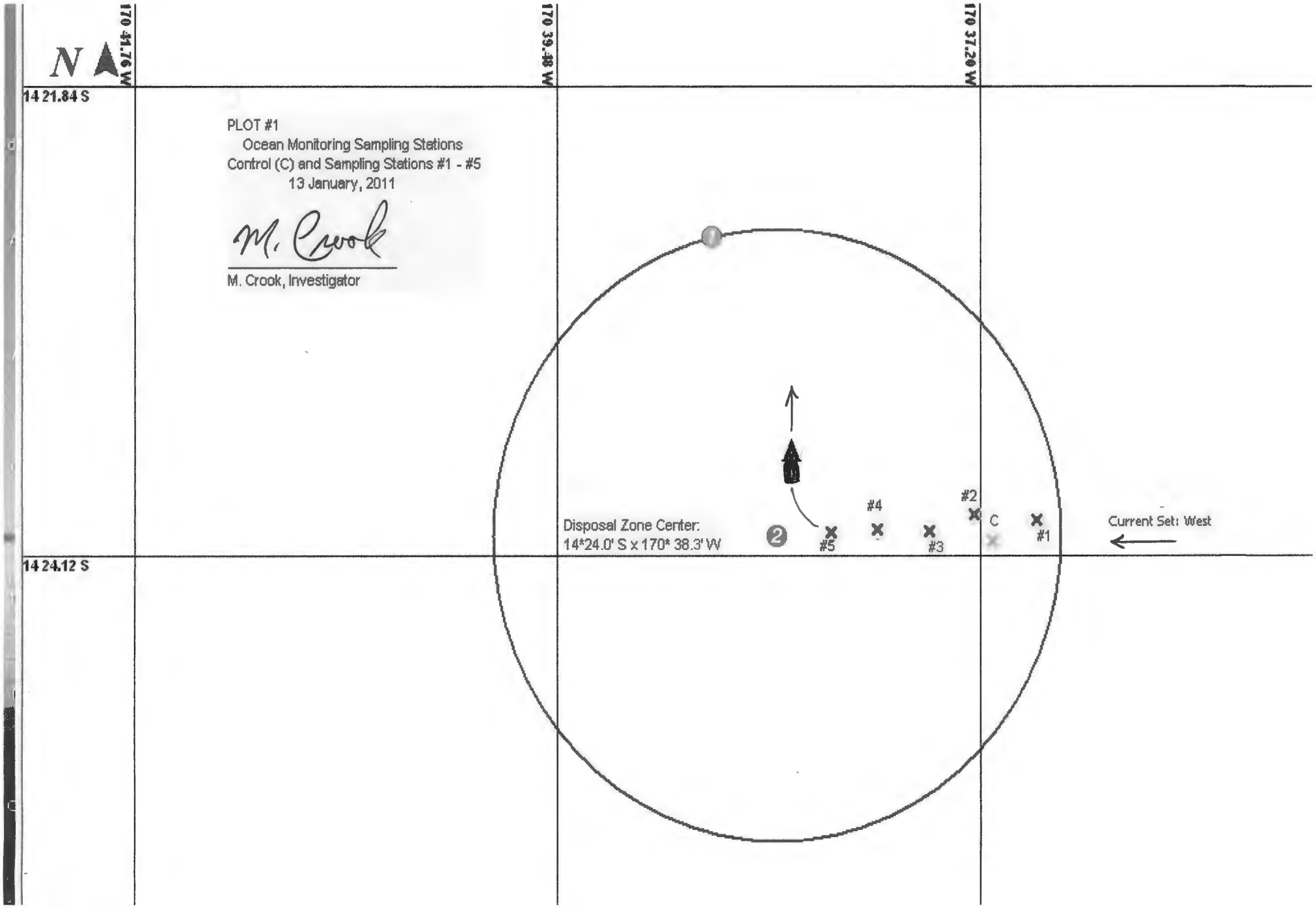
Table 1

Date: 13 January, 2011	Sea Conditions: Slight w/ East swells to 1.5 meters. Wind: East @ 10 - 12 knots Visibility: Very good @ 8 -10+ miles. Barometer: 29.50 - 29.53 - 29.51 Current Set & Drift: West @ average 1.0 knots Sky: Cloudy w/ some passing rain.					
Time	Station	Depth (meters)	Temp. (°C)	pH	Odor	Color
0635	Control	1	27.2	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	27.2	7.3		
		10	27.2	7.3		
0945	Station 1	1	27.8	7.3	None	Streaks and track lines of moderate to heavy glassy surface sheen over clear blue water. No floating or suspended materials or sea life.
		3	27.8	7.3		
		10	27.8	7.3		
0955	Station 2	1	27.2	7.3	Slightly Pungent	A few light and scattered streaks of light, glassy surface sheen over clear blue water. No floating or suspended materials.
		3	27.2	7.3		
		10	27.2	7.3		
1010	Station 3	1	27.8	7.3	None	Clear, blue water. No visible sign of the waste plume here at the center of the drifting plume ellipse. No floating or suspended particulate materials present.
		3	27.8	7.3		
		10	27.8	7.3		
1020	Station 4	1	27.8	7.3	Slightly Pungent	Same characteristics as Station #2.
		3	27.8	7.3		
		10	27.8	7.3		
1030	Station 5	1	27.8	7.3	Slightly Pungent	The leading edge of the wastewater plume: A heavy north to south band of surface sheen created a clear demarcation between the leading edge and the clear, natural blue waters further to the west. No floating or suspended particulate material, scum etc.
		3	27.8	7.3		
		10	27.8	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control-C	14° 24.00'	South	170° 37.18'	West
Station 1	14° 23.88'	South	170° 36.90'	West
Station 2	14° 23.91'	South	170° 37.19'	West
Station 3	14° 23.98'	South	170° 37.48'	West
Station 4	14° 23.99'	South	170° 37.75'	West
Station 5	14° 24.01'	South	170° 38.00'	West


N
170 39.48 W
170 37.20 W
170 34.92 W
4 21.84 S
4 24.12 S
13 January, 2011 - Thurs.
Voyage # 5380
Starkist Cargo, Trip #1
*Ocean Monitoring Conducted
**Waypoint 'C' indicates Control Station
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: East @ 10 - 12 kts.
16
C
3
15


N
170 41.76 W
170 39.48 W
170 37.20 W
14 21.84 S
14 24.12 S
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
13 January, 2011
M. Crook, Investigator
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
#5
#4
#3
#2
C
#1
Current Set: West

STAR KIST SAMOA, CO
P. O. BOX 368, PAGO PAGO AMERICAN SAMOA 96799
WATER TREATMENT DEPARTMENT

REPORT OF ANALYSES RESULTS

SAMPLE TYPE : Sea Water - Ocean Monitoring Sampling - February 10, 2011
REPORTING DATE : March 08, 2011

SAMPLES	AMMONIA (mg N/L)	TOTAL NITROGEN (mg N/L)	TOTAL PHOSPHORUS (mg P/L)	NON FILTERABLE RESIDUE (mg/L)	VOLATILE NON FILTERABLE RESIDUE (mg/L)	OIL& GREASE (mg / L)
Stn : 1-1Mtr Control	0.030	0.30	0.025	5.5	2.0	0.34
Stn : 1-3 Mtr Control	0.036	0.30	0.010	4.5	3.0	0.47
Stn :1-10 Mtr Control	0.041	0.15	0.015	5.5	2.5	0.25
Stn : 1-1Mtr	0.042	0.20	0.020	4.5	2.5	0.24
Stn : 1-3 Mtr	0.027	0.20	0.035	5.0	3.0	0.33
Stn : 1-10 Mtr	0.041	0.30	0.005	5.0	3.5	0.23
Stn : 2-1 Mtr	0.039	0.10	0.005	4.5	2.5	0.23
Stn : 2-3 Mtr	0.032	0.20	0.015	5.0	1.5	0.33
Stn : 2-10 Mtr	0.038	0.20	0.015	5.0	2.5	0.23
Stn : 3-1 Mtr	0.037	0.05	0.000	4.5	2.5	0.33
Stn : 3-3 Mtr	0.028	0.15	0.010	4.5	2.0	0.23
Stn : 3-10 Mtr	0.023	0.05	0.025	5.5	2.5	0.24
Stn : 4-1 Mtr	0.033	0.20	0.005	5.0	1.5	0.23
Stn : 4-3 Mtr	0.044	0.25	0.025	4.5	3.0	0.35
Stn : 4-10 Mtr	0.026	0.15	0.005	5.5	3.5	0.45
Stn : 5-1 Mtr	0.042	0.15	0.010	4.5	2.0	0.38
Stn : 5-3 Mtr	0.045	0.25	0.020	5.5	2.0	0.37
Stn : 5-10 Mtr	0.047	0.20	0.005	4.5	2.0	0.23

Joe Carney: Engineering Manager

STAR KIST SAMOA, CO
P. O. BOX 368, PAGO PAGO AMERICAN SAMOA 96799
WATER TREATMENT DEPARTMENT

REPORT OF ANALYSES RESULTS

SAMPLE TYPE : Sea Water - Ocean Monitoring Sampling - January 13, 2011
REPORTING DATE : February 16, 2011

SAMPLES	AMMONIA (mg N/L)	TOTAL NITROGEN (mg N/L)	TOTAL PHOSPHORUS (mg P/L)	NON FILTERABLE RESIDUE (mg/L)	VOLATILE NON FILTERABLE RESIDUE (mg/L)	OIL& GREASE (mg / L)
Stn : 1-1Mtr Control	0.031	0.30	0.015	5.0	2.5	0.24
Stn : 1-3 Mtr Control	0.039	0.40	0.005	5.0	2.0	0.34
Stn :1-10 Mtr Control	0.029	0.25	0.010	4.5	1.5	0.22
Stn : 1-1Mtr	0.020	0.25	0.005	4.5	1.5	0.34
Stn : 1-3 Mtr	0.017	0.05	0.000	4.5	2.0	0.45
Stn : 1-10 Mtr	0.023	0.15	0.020	6.0	2.0	0.22
Stn : 2-1 Mtr	0.028	0.20	0.020	4.5	2.5	0.34
Stn : 2-3 Mtr	0.033	0.25	0.005	5.0	1.5	0.11
Stn : 2-10 Mtr	0.028	0.30	0.005	4.5	1.5	0.34
Stn : 3-1 Mtr	0.041	0.35	0.010	4.0	3.5	0.23
Stn : 3-3 Mtr	0.031	0.15	0.005	4.5	2.5	0.45
Stn : 3-10 Mtr	0.033	0.30	0.020	4.5	3.0	0.33
Stn : 4-1 Mtr	0.032	0.25	0.010	5.0	2.5	0.35
Stn : 4-3 Mtr	0.028	0.30	0.015	5.0	2.5	0.22
Stn : 4-10 Mtr	0.043	0.35	0.015	5.0	3.0	0.35
Stn : 5-1 Mtr	0.020	0.40	0.015	5.0	2.5	0.47
Stn : 5-3 Mtr	0.043	0.40	0.005	4.0	2.5	0.22
Stn : 5-10 Mtr	0.038	0.10	0.015	5.0	1.5	0.45

Joe Carney: Engineering Manager

STAR KIST SAMOA, INC.
P. O. BOX 368, PAGO PAGO AMERICAN SAMOA 96799
WATER TREATMENT DEPARTMENT

REPORT OF ANALYSES RESULTS

SAMPLE TYPE : Sea Water - Ocean Monitoring Sampling - March 10 2011
REPORTING DATE April 06, 2011

SAMPLES	AMMONIA	TOTAL NITROGEN	TOTAL PHOSPHORUS	NON FILTERABLE RESIDUE	VOLATILE NON FILTERABLE RESIDUE	OIL & GREASE
	(mg N/L)	(mg N/L)	(mg P/L)	(mg/L)	(mg/L)	(mg / L)
Stn : 1-1Mtr Control	0.046	0.30	0.010	4.5	2.0	0.47
Stn : 1-3 Mtr Control	0.032	0.20	0.005	5.5	2.0	0.56
Stn : 1-10 Mtr Control	0.041	0.05	0.010	5.5	3.0	0.34
Stn : 1-1Mtr	0.043	0.25	0.015	4.5	1.5	0.23
Stn : 1-3 Mtr	0.027	0.20	0.025	5.0	2.5	0.35
Stn : 1-10 Mtr	0.019	0.25	0.015	4.5	2.0	0.11
Stn : 2-1 Mtr	0.050	0.20	0.000	4.5	3.0	0.24
Stn : 2-3 Mtr	0.038	0.35	0.015	5.0	3.5	0.10
Stn : 2-10 Mtr	0.052	0.30	0.005	5.0	3.0	0.36
Stn : 3-1 Mtr	0.046	0.50	0.010	5.0	3.5	0.49
Stn : 3-3 Mtr	0.042	0.15	0.005	5.5	2.0	0.47
Stn : 3-10 Mtr	0.050	0.25	0.005	5.5	2.5	0.38
Stn : 4-1 Mtr	0.046	0.25	0.020	5.0	2.0	0.25
Stn : 4-3 Mtr	0.038	0.20	0.015	6.5	2.0	0.49
Stn : 4-10 Mtr	0.032	0.30	0.010	5.5	2.0	0.36
Stn : 5-1 Mtr	0.043	0.20	0.015	6.0	2.5	0.39
Stn : 5-3 Mtr	0.032	0.20	0.005	6.0	2.0	0.12
Stn : 5-10 Mtr	0.049	0.10	0.000	5.5	2.0	0.12

July 12th, 2011

Michael Wolfram
Program Manager
Pacific Islands Office
USEPA Region IX
75 Hawthorne Street
San Francisco, CA 94105

RE: OCEAN DUMPING PERMIT OD93-02 SPECIAL

Dear Michael:

Pursuant to the requirements of the above referenced permit, we are herewith submitting the Quarterly ocean dumping report for the period of April 2011 through June 2011 for COS Samoa Packing Company. No waste has been generated or transferred or dumped in this quarter. Enclosed are the following:

* EPA Forms 1, 2 and 3.
* Results of Monthly Onshore Storage Tank Analysis. No testing was done. N/A
* Letter to ASEPA reporting exceedances and irregularities during the 3 month period where applicable. There were no exceedances. N/A
* Monthly Site Monitoring Reports. N/A
* Results of Monthly Site Monitoring Analysis.

Please advise if additional information is required.

Sincerely,

Craig Double
Facility Manager
Samoa Tuna Processors Inc.

Enclosures:
Pacific Island Office

Cc(1) Except Vessel Logs	Director American Samoa Environmental Protection Agency American Samoa Government Pago Pago, American Samoa 96799
Cc(1) Complete Report	Director of Engineering Chicken of the Sea International 9330 Scranton Road Suite 500 San Diego, California 92121
	Allan Ota Wetlands Office US EPA Region IX 75 Hawthorne Street San Francisco, CA 94105
Cc(1) Vessel Logs Only	Commanding Chief U.S. Coast Guard Liaison Office P.O. Box 249 Pago Pago, American Samoa 96799
Cc(1) Except Vessel Logs:	Project Leader Office of Environmental Services U.S. Fish and Wildlife Service 300 Ala Moana Boulevard P.O. Box 50167 Honolulu, Hawaii 96850
	John Naughton Pacific Island Regional Office 1601 Kapiolani BLvd. Suite 1110 Honolulu, Hawaii 96814-4700
	Executive Director Western Pacific Regional Fishery Management Council 1164 Bishop Street, Suite 1405 Honolulu, Hawaii 96813

APPENDIX B - REPORT FORM 1

Monthly Volumes of COS Samoa Packing Fish Processing Wastes Generated
Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month: April 2011

OD 93-02 Permit Limits	DAF Sludge Generated (gallons/day) 60,000	Precooker Water Generated (gallons/day) 100,000	Press Water Generated (gallons/day) 40,000	Total Generated (gallons/day) 200,000	Volume Ocean Disposed (gallons/day) 200,000
April 2011	No waste for April			0	
Totals	0	0	0	0	0

Note: An asterisk(*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly "Totals" row.
Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate: 0 pounds/month

APPENDIX B - REPORT FORM 1

Monthly Volumes of COS Samoa Packing Fish Processing Wastes Generated
Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month: May 2011

OD 93-02 Permit Limits	DAF Sludge Generated (gallons/day) 60,000	Precooker Water Generated (gallons/day) 100,000	Press Water Generated (gallons/day) 40,000	Total Generated (gallons/day) 200,000	Volume Ocean Disposed (gallons/day) 200,000
May	No waste for May			0	
Totals	0	0	0	0	0

Note: An asterisk(*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly "Totals" row.
Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate: 0 pounds/month

APPENDIX B - REPORT FORM 1

Monthly Volumes of COS Samoa Packing Fish Processing Wastes Generated
Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month: June 2011

OD 93-02 Permit Limits	DAF Sludge Generated (gallons/day) 600,00	Precooker Water Generated (gallons/day) 100,000	Press Water Generated (gallons/day) 40,000	Total Generated (gallons/day) 200,000	Volume Ocean Disposed (gallons/day) 200,000
June 2011	No waste for June			0	
Totals	0	0	0	0	0

Note: An asterisk(*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly "Totals" row.
Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate: 0 pounds/month

APPENDIX B - REPORT FORM 2

Data Form for 3-Month Report on Waste Stream Analyses for COS Samoa Packing MPRSA 102 Permit #OD 93-02

Reporting Period: From April 2011 to June 2011

COS Samoa Packing - Onshore Storage Monitoring Report

Month & Year	Total Solids (mg/L)		Total Volatile Solids (mg/L)		5-Day Biological Oxygen Demand (mg/L)		Oil and Grease (mg/L)		Total Phosphorus (mg/L)		Total Nitrogen (mg/L)		Ammonia (mg/L)		pH (pH units)		Density (g/mL)	
April-11																		
May-11																		
June-11																		
OD 93-02 Permit Limits	54,590		58,760		87,780		48,630		2,820		11,070		5,200		5.8 to 7.5		.97 to 1.03	

NOTE: An asterisk(*) next to the waste concentration signifies that an exceedance of the permit limit has occurred.

Cumulative Yearly Data on Fish Processing Wastes
Generated at COS Samoa Packing Company and Disposed at the Ocean Site
MPRSA 102 Special Permit #OD 93-02

Reporting Period: From 01 JAN. 2011 31 DEC. 2011

Month & Year	DAF Sludge Generated (gallons/month)	Cooker Water Generated (gallons/month)	Press Water Generated (gallons/month)	Total Generated (gallons/month)	Coagulate polymer (pounds/month)	Volume Ocean Disposed (gallons/month)
Jan. 2011	0	0	0	0	0	0
Feb. 2011	0	0	0	0	0	0
Mar. 2011	0	0	0	0	0	0
Apr. 2011	0	0	0	0	0	0
May. 2011	0	0	0	0	0	0
Jun. 2011	0	0	0	0	0	0
Jul. 2011						
Aug. 2011						
Sep. 2011						
Oct. 2011						
Nov. 2011						
Dec. 2011						
Cumulative Yearly Totals	0	0	0	0	0	0

NOTE: A seperate table shall be prepared for each calendar year.

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

28 April, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

RECEIVED
MAY 2 2011
By:

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
30 April, 2011

Introduction

On April 28, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0505: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0558: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S x 170*38.7' W.

0608: The *Blue Moon* arrived at the dump-zone center, where observed east winds and slight east to southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0620: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with East & SE swells to 1.5 meters and east winds at 10 knots (kts.) with the barometer reading 29.56. Current set and drift of the ship, by GPS, were to the west at 1.2 knots. No floating materials or sea life were observed here.

0628: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.25 miles long (see Plot 1) until 0943 hrs.

0945: Station One Monitoring (See Plot #1). Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east wind had increased to 15 kts. with cloudy skies. The waste plume was not visibly present here and was only apparent further down-current to the west some distance, (at least 0.5 miles) away.. The current/wind drift of the ship was GPS determined to be westerly @ 1.4 knots. A small shark was seen to follow the water sampler up from the 10 meter drop. No floating or suspended materials were noted here.

0955: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed similar coloration qualities as those at Station #1, with only clear natural blue appearing seawater and no visible indication of the waste plume. The average drift rate of the ship with current and wind was GPS determined here to be westerly (W) at a rate of 1.6 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1005: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed a broad area of broken streaks and patches of moderate surface sheen over clear sub-surface waters. Sea & wind conditions remained the same as with the previous two sample stations and the drift rate of the ship between Stations #3 & 4 was 1.5 knots, again, to the west.

1015: Station Four monitoring. This area showed more patches of moderate surface sheen along with a sparse concentration of fine, light grey colored suspended particulate material. The westerly current/drift rate of the ship was again noted here to be at 1.5 knots. No sea-life was observed.

1025: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.41 NM west of the zone center (See Plot #1). The leading edge of the waste plume was distinctive at this location as an unbroken line of heavy glassy surface sheen with clear, natural appearing blue waters further down-current to the west. Also present in and under this sheen, was a fairly dense concentration of floating and suspended particulate material extending down to the limit of water visibility. All these materials were light brown, gray or ash colored. The final drift rate of the ship was noted to be 1.4 knots. Other than a few random seabirds flying by and the shark noted at Station #1, no significant sea life was observed at this position or any of the previous stations. The final barometer reading was 29.59 when monitoring activities were concluded at 1035 hrs. The *Blue Moon* exited the disposal zone at 1045 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1135 hours.

Prepared by M. Crook
Mike Crook, Principal Investigator

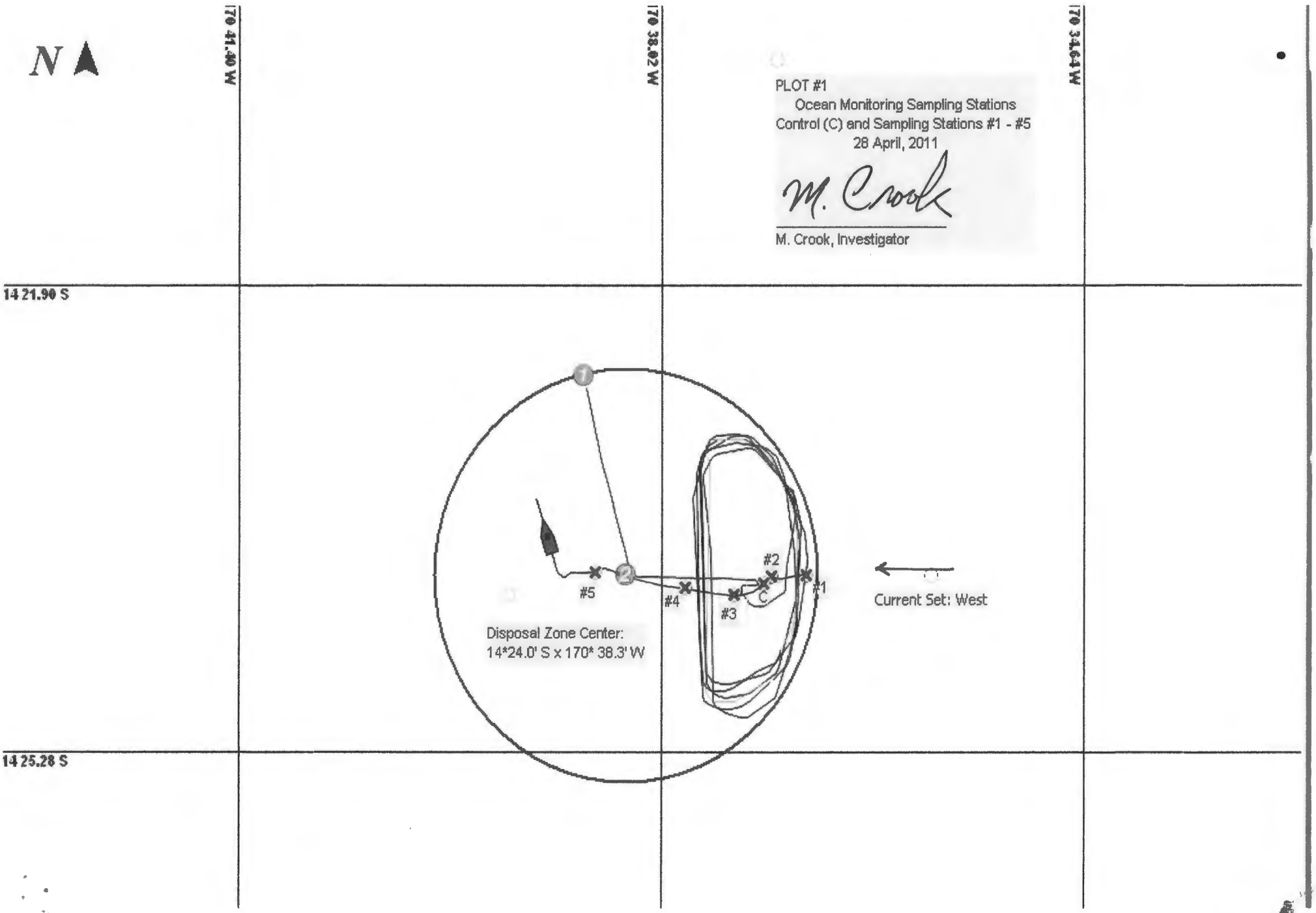
OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: April 28, 2011	Sea Conditions: Slight w/ East & Southeast swells to 1.5 meters. Wind: East @ 10 - 15 knots Visibility: Good 6 - 10+ miles Barometer: 29.53 - 29.59 Current Set & Drift Rate: West @ average 1.5 knots Sky: Cloudy, 70 - 1000%					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0620	Control	1	28.3	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	28.3	7.3		
		10	28.3	7.3		
0945	Station 1	1	28.9	7.3	None	Same as Control Station.
		3	28.9	7.3		
		10	28.3	7.3		
0955	Station 2	1	28.9	7.3	None	Again, same as Control and Station #1.
		3	28.9	7.3		
		10	28.3	7.3		
1005	Station 3	1	28.9	7.3	Slightly Pungent	Broad area of broken streaks and patches of moderate glassy surface sheen over deep, clear blue. No floating or suspended particulate or other material.
		3	28.9	7.3		
		10	28.9	7.3		
1015	Station 4	1	28.9	7.3	Slightly Pungent	More broken patches of moderate surface sheen along with suspended, fine & light colored suspended particulates, not particularly dense in concentration.
		3	28.9	7.3		
		10	28.9	7.3		
1025	Station 5	1	28.9	7.3	Pungent	Leading edge of the waste plume: Distinct area of an unbroken north to south line of heavy surface sheen along with a fairly dense concentration of floating and suspended, brownish particulate material.
		3	28.9	7.3		
		10	28.9	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control - C	14° 24.08'	South	170° 37.26'	West
Station 1	14° 24.03'	South	170° 36.87'	West
Station 2	14° 24.06'	South	170° 37.14'	West
Station 3	14° 24.15'	South	170° 37.50'	West
Station 4	14° 24.09'	South	170° 37.82'	West
Station 5	14° 23.99'	South	170° 38.58'	West


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
28 April, 2011
M. Crook, Investigator
#1
#2
#3
#4
#5
C
Current Set: West
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

24 May, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

RECEIVED
MAY 27 2011
By:

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
26 May, 2011

Introduction

On May 24, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0505: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0555: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S x 170*38.7' W.

0605: The *Blue Moon* arrived at the dump-zone center, where observed ESE winds and slight south to southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0615: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with south & SE swells to 1.5 meters and east winds at 10 knots (kts.) with the barometer reading 29.58. Current set and drift of the ship, by GPS, were to the west at 0.7 knots. No floating materials or sea life were observed here.

0623: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.25 miles long (see Plot 1) until 0853 hrs.

0905: Station One Monitoring (See Plot #1). Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east wind had increased to12 kts. with partly cloudy skies. The waste plume, visibly present here as a heavy surface sheen, also had abundant floating and suspended material as described in Table 1. The current/wind drift of the ship was GPS determined to be westerly @ 0.5 knots. No sea-life was observed.

0915: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed a lighter sheen than Station #1 and again, had floating and suspended particulates (See Table #1). The average drift rate of the ship with current and wind was GPS determined here to be westerly (W) at a rate of 0.6 knots between Stations #2 & 3 (See Plot #1). No sea-life was noted at this position.

0925: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position, 0.25 NM down-current (West) of Station #2, showed no sign of the plume's characteristic surface sheen or additional floating / suspended particulate material. Sea & wind conditions remained the same as with the previous two sample stations and the drift rate of the ship between Stations #3 & 4 was 0.5 knots, again, to the west.

0935: Station Four monitoring. This area showed no sign of the typical surface sheen but did have a sparse concentration of fine, light gray colored floating and suspended particulate material. The westerly current/drift rate of the ship was again noted here to be at 0.5 knots. No sea-life was observed.

1025: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.28 NM southeast of the zone center (See Plot #1). The leading edge of the waste plume was not distinctive at this location but showed only a few broken streaks of slightly glassy surface sheen with clear, natural appearing blue waters further down-current to the west. No additional floating and suspended particulate material was visible. The final drift rate of the ship was noted to be westerly at 0.5 knots. Other than a few random seabirds flying, no significant sea life was observed at this position or any of the previous stations. The final barometer reading was 29.60 when monitoring activities were concluded at 0950 hrs. The *Blue Moon* exited the disposal zone at 1000 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1050 hours.

Prepared by M. Crook
Mike Crook,
Principal Investigator

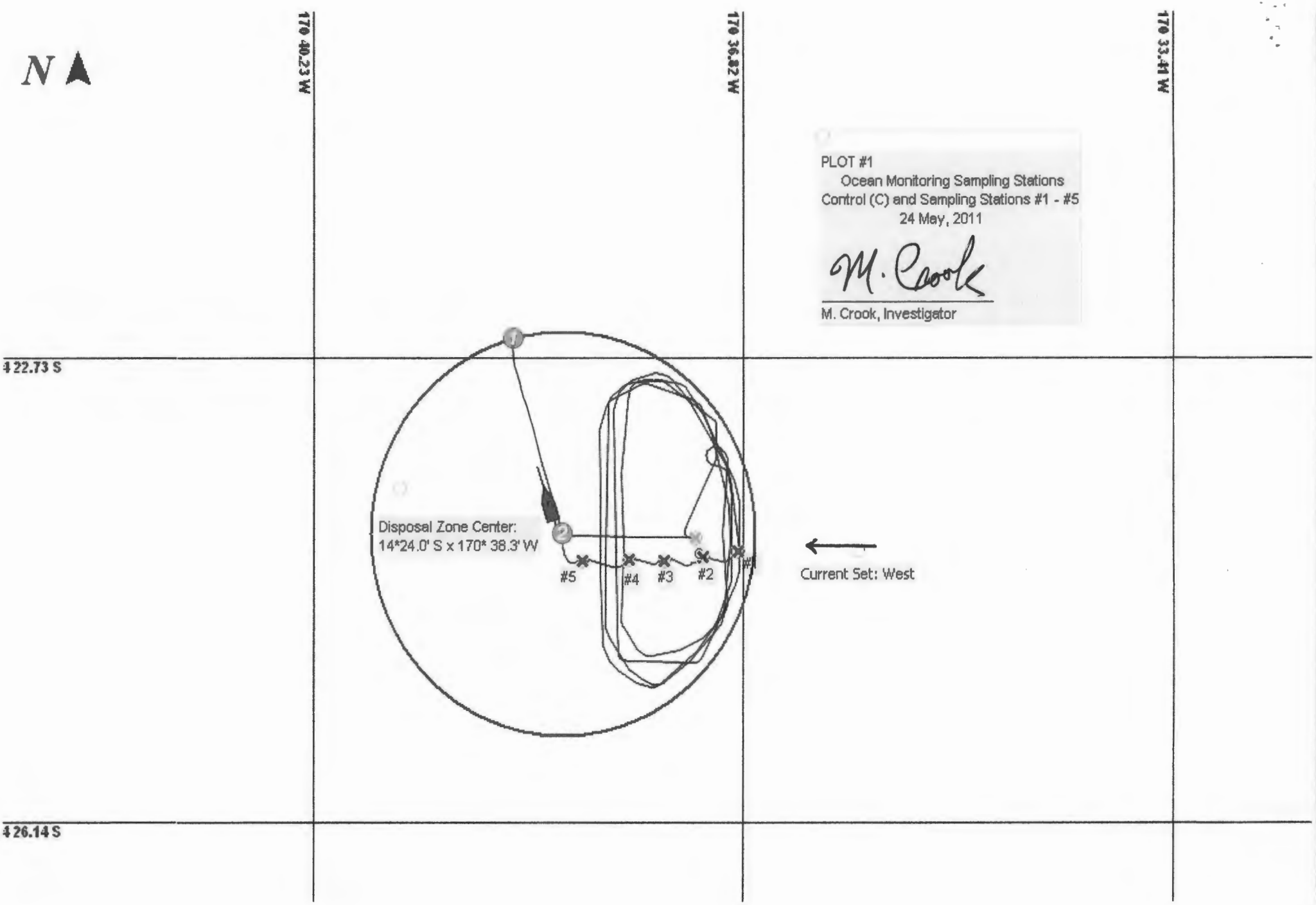
OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: May 24, 2011	Sea Conditions: Slight w/ South & Southeast swells to 1.5 meters. Wind: ESE @ 7 - 12 knots Visibility: Unlimited Barometer: 29.58 - 29.60 Current Set & Drift Rate: West @ average 0. 5 knots Sky: Cloudy, 30 - 40%					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0615	Control	1	27.2	8.0	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	27.2	7.9		
		10	27.2	7.7		
0905	Station 1	1	28.3	8.0	Slightly Pungent	Patches of moderate surface sheen along with abundant, large, brown colored floating & suspended particulates, fairly dense in concentration extending to the limit of visibility .
		3	28.3	7.7		
		10	27.8	7.9		
0915	Station 2	1	27.8	7.7	Slightly Pungent	Very light surface sheen but floating and suspended brownish particulates still present. Smaller in size and less concentrated than Station #1.
		3	27.8	7.9		
		10	27.8	8.1		
0925	Station 3	1	28.3	7.9	Slightly Pungent	Clear and natural deep pelagic blue w/ no floating or suspended materials. No sign of the wastewater plume at this position.
		3	28.3	7.9		
		10	28.3	8.0		
0935	Station 4	1	28.3	8.0	Slightly Pungent	No visible surface sheen however still notable, fine & light gray or ash colored suspended particulates, not particularly dense in concentration. Nothing floating on surface
		3	28.3	7.9		
		10	28.3	7.7		
0945	Station 5	1	28.3	7.8	None	Leading edge of the waste plume: Only the occasional light streak of surface sheen over deep, clear, natural appearing blue water. No more suspended or floating particulate material noted.
		3	28.3	8.0		
		10	28.3	8.0		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control - C	14° 24.05'	South	170° 37.22'	West
Station 1	14° 24.14'	South	170° 36.85'	West
Station 2	14° 24.20'	South	170° 37.09'	West
Station 3	14° 24.22'	South	170° 37.37'	West
Station 4	14° 24.21'	South	170° 37.68'	West
Station 5	14° 24.21'	South	170° 38.10'	West


N
170 40.23 W
170 36.82 W
170 33.41 W
4 22.73 S
4 26.14 S
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
24 May, 2011
M. Crook, Investigator
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
#5
#4
#3
#2
#1
Current Set: West

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

04 June, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

RECEIVED
JUN 7 2011
BY:

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
07 June, 2011

Introduction

On June 4, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0505: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0556: The *Blue Moon* entered the dumpzone circle @ 14*22.5' S x 170*38.7' W.

0607: The *Blue Moon* arrived at the dump-zone center, where observed east winds and southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0620: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were moderate with SE swells to 2.5 meters and east winds at 12 knots (kts.) with the barometer reading 29.62. Current set and drift, of the ship, were to the west at 1.0 knots. No floating materials or sea life were observed here.

0630: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.2 miles long (see Plot 1) until 0930 hrs.

0940: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east wind had increased to 15 kts. with cloudy skies. The waste plume was not visibly present here and was only apparent further down-current to the west some distance, (approximately 0.25 miles) away.. The current/wind drift of the ship was GPS determined to be westerly @ 1.3 knots. No sea life or floating materials were observed.

0950: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed the typical coloration qualities of a partially dispersed wastewater plume; scattered patches of heavy glassy surface sheen, remnants of the north to south reaching track lines left by the discharge vessel. The average drift rate of the ship with current and wind was GPS determined here to be westerly (W) at a rate of, again, 1.3 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1000: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position, 0.25 NM down-current from Station #2, showed no visible sign of the waste plume, likely being the center of the discharge ellipse that was moving to the west. Sea & wind conditions remained the same as with the previous sample stations and the drift rate of the ship between Stations #3 & 4 was 1.1 knots, again, to the west.

1010: Station Four monitoring. This area showed more of the surface sheen over clear blue subsurface water, pretty much the same color qualities as with Station #2 with this sheen being moderate rather than the heavy sheen noted at Station #2. The westerly current/drift rate of ship was noted here to be at 1.0 knots. No floating scum or suspended particulate materials were observed at any of these sample stations.

1020: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and was located right at the zone center (see Plot #1). The plume remnants were clearly visible at this location as distinct streaks and broken up patches of moderate to heavy glassy surface sheen with clear, natural appearing blue waters further down-current to the west and no floating or suspended scum or particulates. No notable sea life was observed at this position or any of the previous stations other than a few random seabirds flying by. The final barometer reading was 29.64 when monitoring activities were concluded at 1030 hrs. The *Blue Moon* exited the disposal zone at 1040 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 11:30.

Prepared by M. Crook
Mike Crook, Principal Investigator

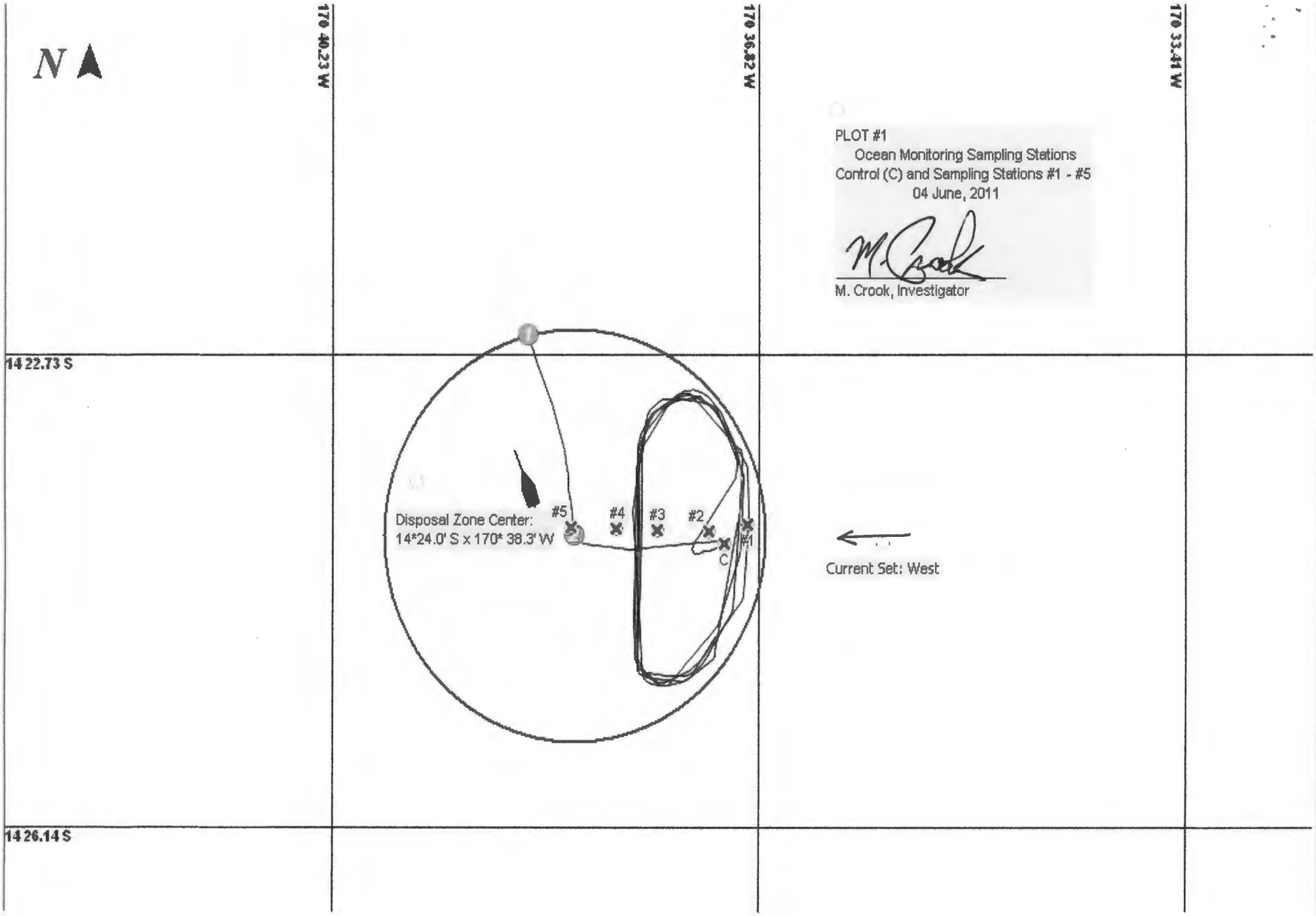
OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: June 04, 2011	Sea Conditions: Moderate w/ Southeast swells to 2.5 meters. Wind: ESE @ 10 - 15 knots Visibility: Fair to Good Barometer: 29.62 - 29.64 Current Set & Drift Rate: West @ average 1.2 knots Sky: Cloudy w/ some passing rain					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0620	Control	1	27.2	8.2	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	27.2	8.2		
		10	26.7	8.2		
0940	Station 1	1	27.2	8.2	None	Same color qualities as Control Station, clear and natural blue with no floating or suspended particulate material.
		3	27.2	8.2		
		10	27.2	8.2		
0950	Station 2	1	27.2	8.2	Slightly Pungent	Streaks and patches of heavy, glassy surface from broken up, north to south running, vessel discharge track lines. No sign of floating or particulate materials.
		3	27.2	8.2		
		10	27.2	8.2		
1000	Station 3	1	27.2	8.1	none	Same color qualities as Control & Station #1
		3	27.2	8.1		
		10	27.2	8.2		
1010	Station 4	1	27.2	8.1	Slightly Pungent	Broad area of broken streaks and patches of moderate glassy surface sheen over deep, clear blue. No floating or suspended particulate or other material.
		3	27.2	8.1		
		10	27.2	8.2		
1020	Station 5	1	27.2	8.1	Slightly Pungent	Leading edge of the waste plume: Broken up, north to south running line of heavy surface sheen but no floating or suspended particulate materials noted.
		3	27.2	8.2		
		10	26.7	8.2		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control - C	14° 24.08'	South	170° 37.19'	West
Station 1	14° 23.95'	South	170° 36.89'	West
Station 2	14° 24.01'	South	170° 37.20'	West
Station 3	14° 24.02'	South	170° 37.65'	West
Station 4	14° 24.01'	South	170° 37.96'	West
Station 5	14° 23.98'	South	170° 38.27'	West


N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
04 June, 2011
M. Crook, Investigator
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
#5
#4
#3
#2
#1
C
Current Set: West

January 10th, 2011

Carl Goldstein
Program Manager
Pacific Islands Office
USEPA Region IX
75 Hawthorne Street
San Francisco, CA 94105

RE: OCEAN DUMPING PERMIT OD93-02 SPECIAL

Dear Carl:

Pursuant to the requirements of the above referenced permit, we are herewith submitting the Quarterly ocean dumping report for the period of October 2010 through December 2010 for COS Samoa Packing Company. No waste has been generated or transferred or dumped in this quarter. Enclosed are the following:

* EPA Forms 1, 2 and 3.
* Results of Monthly Onshore Storage Tank Analysis. No testing was done.
* Letter to ASEPA reporting exceedances and irregularities during the 3 month period where applicable. There were no exceedances.
* Monthly Site Monitoring Reports.
* Results of Monthly Site Monitoring Analysis.

Please advise if additional information is required.

Sincerely,

Craig Double
Facility Manager
COS Samoa Packing Co.

Enclosures:
Pacific Island Office

Cc(1) Except Vessel Logs	Director American Samoa Environmental Protection Agency American Samoa Government Pago Pago, American Samoa 96799
Cc(1) Complete Report	Director of Engineering Chicken of the Sea International 9330 Scranton Road Suite 500 San Diego, California 92121
Cc(1) Vessel Logs Only	Commanding Chief U.S. Coast Guard Liaison Office P.O. Box 249 Pago Pago, American Samoa 96799
Cc(1) Except Vessel Logs:	Project Leader Office of Environmental Services U.S. Fish and Wildlife Service 300 Ala Moana Boulevard P.O. Box 50167 Honolulu, Hawaii 96850
	John Naughton Pacific Island Regional Office 1601 Kapiolani BLvd. Suite 1110 Honolulu, Hawaii 96814-4700
	Executive Director Western Pacific Regional Fishery Management Council 1164 Bishop Street, Suite 1405 Honolulu, Hawaii 96813

STAR KIST SAMOA, CO
P. O. BOX 368, PAGO PAGO AMERICAN SAMOA 96799
WATER TREATMENT DEPARTMENT

REPORT OF ANALYSES RESULTS

SAMPLE TYPE : Sea Water - Ocean Monitoring Sampling - October 07,2010
REPORTING DATE : November 03,2010

SAMPLES	AMMONIA (mg N/L)	TOTAL NITROGEN (mg N/L)	TOTAL PHOSPHORUS (mg P/L)	NON FILTERABLE RESIDUE (mg/L)	VOLATILE NON FILTERABLE RESIDUE (mg/L)	OIL& GREASE (mg / L)
Stn : 1-1Mtr Control	0.035	0.30	0.025	5.5	2.0	0.38
Stn : 1-3 Mtr Control	0.018	0.20	0.025	4.5	2.0	0.50
Stn :1-10 Mtr Control	0.018	0.25	0.010	6.5	2.0	0.29
Stn : 1-1Mtr	0.031	0.25	0.025	6.5	2.0	0.27
Stn : 1-3 Mtr	0.035	0.25	0.000	4.5	1.0	0.13
Stn : 1-10 Mtr	0.041	0.20	0.020	5.0	2.5	0.25
Stn : 2-1 Mtr	0.041	0.20	0.020	5.5	1.5	0.38
Stn : 2-3 Mtr	0.046	0.30	0.015	6.0	1.5	0.25
Stn : 2-10 Mtr	0.035	0.15	0.015	5.5	2.0	0.38
Stn : 3-1 Mtr	0.045	0.35	0.015	5.5	2.5	0.38
Stn : 3-3 Mtr	0.023	0.15	0.015	6.5	1.5	0.41
Stn : 3-10 Mtr	0.020	0.25	0.005	5.0	2.5	0.44
Stn : 4-1 Mtr	0.027	0.35	0.025	5.5	3.5	0.26
Stn : 4-3 Mtr	0.026	0.15	0.010	5.0	2.0	0.38
Stn : 4-10 Mtr	0.031	0.30	0.025	5.0	1.5	0.25
Stn : 5-1 Mtr	0.021	0.35	0.025	6.0	2.5	0.39
Stn : 5-3 Mtr	0.033	0.20	0.015	6.5	1.5	0.25
Stn : 5-10 Mtr	0.023	0.25	0.025	4.5	2.0	0.41

Joe Carney: Engineering Manager

STAR KIST SAMOA, CO
P. O. BOX 368, PAGO PAGO AMERICAN SAMOA 96799
WATER TREATMENT DEPARTMENT

REPORT OF ANALYSES RESULTS

SAMPLE TYPE : Sea Water - Ocean Monitoring Sampling - November, 2010
REPORTING DATE : Jan 05 2011

SAMPLES	AMMONIA (mg N/L)	TOTAL NITROGEN (mg N/L)	TOTAL PHOSPHORUS (mg P/L)	NON FILTERABLE RESIDUE (mg/L)	VOLATILE NON FILTERABLE RESIDUE (mg/L)	OIL& GREASE (mg / L)
Stn : 1-1Mtr Control	0.027	0.20	0.015	6.0	1.5	0.25
Stn : 1-3 Mtr Control	0.033	0.30	0.010	4.5	2.0	0.13
Stn :1-10 Mtr Control	0.017	0.10	0.015	6.0	2.0	0.31
Stn : 1-1Mtr	0.023	0.25	0.010	4.5	2.5	0.29
Stn : 1-3 Mtr	0.031	0.25	0.010	4.0	3.0	0.25
Stn : 1-10 Mtr	0.026	0.30	0.005	5.5	1.5	0.18
Stn : 2-1 Mtr	0.028	0.30	0.015	5.5	2.0	0.27
Stn : 2-3 Mtr	0.034	0.20	0.005	4.0	2.5	0.25
Stn : 2-10 Mtr	0.019	0.25	0.015	5.5	1.5	0.34
Stn : 3-1 Mtr	0.031	0.15	0.005	5.5	2.0	0.14
Stn : 3-3 Mtr	0.031	0.25	0.010	5.0	3.0	0.32
Stn : 3-10 Mtr	0.024	0.20	0.010	4.5	1.5	0.34
Stn : 4-1 Mtr	0.035	0.35	0.015	5.0	2.0	0.20
Stn : 4-3 Mtr	0.038	0.20	0.015	5.5	1.5	0.19
Stn : 4-10 Mtr	0.035	0.25	0.005	5.0	2.5	0.32
Stn : 5-1 Mtr	0.024	0.05	0.015	5.5	2.5	0.32
Stn : 5-3 Mtr	0.032	0.15	0.005	4.5	2.5	0.32
Stn : 5-10 Mtr	0.029	0.10	0.010	5.0	1.0	0.28

Joe Carney: Engineering Manager

STAR KIST SAMOA, CO
P. O. BOX 368, PAGO PAGO AMERICAN SAMOA 96799
WATER TREATMENT DEPARTMENT

REPORT OF ANALYSES RESULTS

SAMPLE TYPE : Sea Water - Ocean Monitoring Sampling - December 02, 2010
REPORTING DATE : January 05 2011

SAMPLES	AMMONIA (mg N/L)	TOTAL NITROGEN (mg N/L)	TOTAL PHOSPHORUS (mg P/L)	NON FILTERABLE RESIDUE (mg/L)	VOLATILE NON FILTERABLE RESIDUE (mg/L)	OIL& GREASE (mg / L)
Stn : 1-1Mtr Control	0.027	0.15	0.015	4.5	3.0	0.37
Stn : 1-3 Mtr Control	0.023	0.15	0.015	5.0	3.0.	0.50
Stn :1-10 Mtr Control	0.021	0.15	0.010	5.5	2.5	0.58
Stn : 1-1Mtr	0.018	0.20	0.005	5.5	2.5	0.68
Stn : 1-3 Mtr	0.031	0.20	0.015	4.5	2.0	0.62
Stn : 1-10 Mtr	0.040	0.30	0.015	4.5	2.5	0.66
Stn : 2-1 Mtr	0.025	0.10	0.015	5.0	2.0	0.49
Stn : 2-3 Mtr	0.028	0.20	0.025	5.0	3.0	0.53
Stn : 2-10 Mtr	0.033	0.10	0.010	4.5	2.5	0.38
Stn : 3-1 Mtr	0.028	0.30	0.010	5.0	3.0	0.38
Stn : 3-3 Mtr	0.027	0.25	0.015	5.5	3.5	0.45
Stn : 3-10 Mtr	0.030	0.25	0.025	5.0	2.5	0.43
Stn : 4-1 Mtr	0.029	0.20	0.005	5.5	2.5	0.53
Stn : 4-3 Mtr	0.028	0.30	0.025	4.5	3.5	0.50
Stn : 4-10 Mtr	0.035	0.10	0.015	4.5	2.0	0.49
Stn : 5-1 Mtr	0.040	0.05	0.025	6.0	3.5	0.43
Stn : 5-3 Mtr	0.035	0.15	0.025	4.5	2.5	0.55
Stn : 5-10 Mtr	0.025	0.20	0.010	4.5	2.5	0.62

Joe Carney: Engineering Manager

Cumulative Yearly Data on Fish Processing Wastes
Generated at COS Samoa Packing Company and Disposed at the Ocean Site
MPRSA 102 Special Permit #OD 93-02

Reporting Period: From 01 JAN. 2010 31 DEC. 2010

Month & Year	DAF Sludge Generated (gallons/month)	Cooker Water Generated (gallons/month)	Press Water Generated (gallons/month)	Total Generated (gallons/month)	Coagulate polymer (pounds/month)	Volume Ocean Disposed (gallons/month)
Jan. 2010	0	0	0	0	0	0
Feb. 2010	0	0	0	0	0	0
Mar. 2010	0	0	0	0	0	0
Apr. 2010	0	0	0	0	0	0
May. 2010	0	0	0	0	0	0
Jun. 2010	0	0	0	0	0	0
Jul. 2010	0	0	0	0	0	0
Aug. 2010	0	0	0	0	0	0
Sep. 2010	0	0	0	0	0	0
Oct. 2010	0	0	0	0	0	0
Nov. 2010	0	0	0	0	0	0
Dec. 2010	0	0	0	0	0	0
Cumulative Yearly Totals	0	0	0	0	0	0

NOTE: A seperate table shall be prepared for each calendar year.

APPENDIX B - REPORT FORM 2

Data Form for 3-Month Report on Waste Stream Analyses for COS Samoa Packing MPRSA 102 Permit #OD 93-02

Reporting Period: From October 2010 to December 2010

COS Samoa Packing - Onshore Storage Monitoring Report

Month & Year	Total Solids (mg/L)		Total Volatile Solids (mg/L)		5-Day Biological Oxygen Demand (mg/L)		Oil and Grease (mg/L)		Total Phosphorus (mg/L)		Total Nitrogen (mg/L)		Ammonia (mg/L)		pH (pH units)		Density (g/mL)	
October-10 November-10 December-10																		
OD 93-02 Permit Limits	54,590		58,760		87,780		48,630		2,820		11,070		5,200		5.8 to 7.5		.97 to 1.03	

NOTE: An asterisk(*) next to the waste concentration signifies that an exceedance of the permit limit has occurred.

APPENDIX B - REPORT FORM 1

Monthly Volumes of COS Samoa Packing Fish Processing Wastes Generated
Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month: October 2010

OD 93-02 Permit Limits	DAF Sludge Generated (gallons/day) 60,000	Precooker Water Generated (gallons/day) 100,000	Press Water Generated (gallons/day) 40,000	Total Generated (gallons/day) 200,000	Volume Ocean Disposed (gallons/day) 200,000
Oct 2010	No waste for October			0	
Totals	0	0	0	0	0

Note: An asterisk(*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly "Totals" row.
Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate: 0 pounds/month

APPENDIX B - REPORT FORM 1

Monthly Volumes of COS Samoa Packing Fish Processing Wastes Generated
Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month: November 2010

OD 93-02 Permit Limits	DAF Sludge Generated (gallons/day) 60,000	Precooker Water Generated (gallons/day) 100,000	Press Water Generated (gallons/day) 40,000	Total Generated (gallons/day) 200,000	Volume Ocean Disposed (gallons/day) 200,000
Nov 2010	No waste for November				
Totals	0				

Note: An asterisk(*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly "Totals" row.
Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate: 0 pounds/month

APPENDIX B - REPORT FORM 1

Monthly Volumes of COS Samoa Packing Fish Processing Wastes Generated
Per Day and Volumes of Fish Processing Wastes Disposed at the Ocean Site

Month: December 2010

OD 93-02 Permit Limits	DAF Sludge Generated (gallons/day) 600,00	Precooker Water Generated (gallons/day) 100,000	Press Water Generated (gallons/day) 40,000	Total Generated (gallons/day) 200,000	Volume Ocean Disposed (gallons/day) 200,000
Dec 2010	No waste for December				
Totals	0	0			

Note: An asterisk(*) to the right of the fish processing waste volume signifies that a violation of the permit limit has occurred.
The number of violations are shown in the Monthly "Totals" row.
Monthly quantities of alum (aluminum sulfate) and coagulant polymer added to the fish processing waste streams:

Aluminum Sulfate: 0 pounds/month

Ocean Disposal Site
Monitoring Report
(OD Permit 93-01 & 93-02)

07 October, 2010

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
COS Samoa Packing:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
10 Oct. 2010

Introduction

On November 4, 2010 the waste water tanker *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0615: The *Blue Moon* departed Pago Pago Harbor bound for the dumpsite location with Master/Principal Investigator, Chief and Mate on board.

0713: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S / 170*38.6' W.

0723: The *Blue Moon* arrived at the dump-zone center, where observed stiff southeasterly winds and moderate southeasterly seas indicated disposal operations be conducted in the southeast dump-zone quadrant.

0740: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or southeast (SE) of the dumpzone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were rough with SE swells to 2.5 meters and a strong SE wind of 20+ knots and the barometer reading 29.60. Current set and drift, of the ship, were to the northwest at 1.4 knots. No floating materials or sea life were observed here.

0747: The *Blue Moon* began disposal operations in the SE dump zone quadrant and continued discharging material with a northeast to southwest reciprocal, elliptical type pattern, approximately 2 miles long (see Plot 1) until 0820 hrs when, due to the rough sea condition, the discharge pattern was changed to the Figure 8 or Bow Tie pattern to reduce the excessive rolling of the ship. Wastewater discharging was completed at 10:52 hrs.

1055: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The SE winds had increased to 25 knots during the discharge but had subsequently dropped back at this time to about 20 knots, with still, overcast skies. The waste plume was not visible at all here, with no sign of the typical glassy surface

sheen. The current/wind drift of the ship was now GPS determined to be northwesterly @ 1.2 knots. No sea life or floatable materials were observed.

1105: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position, like Station #1, lacked any visual presence of the wastewater plume in it's immediate area, just clear natural blue appearing seawater. However, a few track-line remnants of the typical glassy surface sheen were apparent further down-current to the northwest and a few hundred meters to the north. The average drift rate of the ship with current and wind was GPS determined to be northwesterly (NW) at 1.3 knots between stations 2 & 3 (See Plot #1). No sea-life or floatable materials were noted at this position.

1115: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed some heavy glassy surface sheen over clear blue water. The drift rate of the ship between Stations #3 & 4 was 1.25 knots to the west-northwest.

1125: Station Four monitoring. Standard sampling procedures were again carried out as in previous stations. This position, 0.25 miles NW of Station #3, showed the same visual characteristics of the waste plume as Stations #1 & #2 with another large area of natural clear blue water. There were no floating or suspended materials. The NW current/drift rate of the ship was noted here to be a brisk 1.3 knots which had carried the last visible remnants of the plume at least an additional ¾ of a mile further down-current to the NW.

1015: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.6 NM southwest of the zone center (see Plot #1). The leading edge of the waste plume was clearly visible at this location as a patchy area of moderate and heavy streaks of glassy surface sheen with clear, natural appearing blue waters further down-current to the NW. No notable sea life was observed at this position or any of the previous stations, other than a few random seabirds flying by. The final barometer reading was 29.61 when monitoring activities were concluded at 1140 hrs. The *Blue Moon* exited the disposal zone at 1150 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1245 hours.

Introduction

On October 7, 2010 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0615: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0703: The *Blue Moon* entered the dumpzone circle @ 14*22.5' S / 170*38.7' W.

0713: The *Blue Moon* arrived at the dump-zone center, where observed light easterly winds and slight southerly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0725: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with south swells to 2.0 meters and a light E breeze of 7 knots and the barometer reading 29.58. Current set and drift, of the ship, were to the west at 0.5 knots. No floating materials or sea life were observed here.

0735: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging material with a north to south reciprocal, elongated elliptical pattern, approximately 2.2 miles long (see Plot 1) until 1025 hrs.

1035: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The E winds had increased slightly to 10 knots with still, partly cloudy skies. The waste plume appeared here as elongate streaks of moderate glassy surface sheen extending in a north to south direction and moving to the west. The current/wind drift of the ship was now GPS determined to be westerly @ 0.6 knots. No sea life or floatable materials were observed.

1045: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed moderate glassy surface sheen along with abundant fine, suspended particulate material. These particulates extended down to the limit of water visibility and were light brown to ash colored. The average drift rate of the ship with current and wind was GPS determined to be westerly (W) at 0.6 knots between stations 2 & 3 (See Plot #1). No sea-life was noted at this position.

1055: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed only some very light glassy surface sheen over clear blue water. The drift rate of the ship between Stations #3 & 4 was again, 0.6 knots to the west.

1105: Station Four monitoring. Standard sampling procedures were again carried out as in previous stations. This position, 0.25 NM, W of Station #3, didn't show any of the typical visual characteristics of the waste plume (like the glassy surface sheens or milky discolorations) and appeared to be in an area of natural clear blue water within the plume itself. There were no floating or suspended materials. The W current/drift rate of the ship was again noted here to be at 0.5 knots.

1115: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.26 NM south-southeast of the zone center (See Plot #1). The leading edge of the waste plume was clearly visible at this location as an area of moderate glassy surface sheen with clear, natural appearing blue waters further down-current to the west. The final drift rate of the ship was noted to be 0.6 knots. No notable sea life was observed at this position or any of the previous stations, other than a few random seabirds flying by. The final barometer reading was 29.60 when monitoring activities were concluded at 1125 hrs. The *Blue Moon* exited the disposal zone at 1135 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1225 hours.

Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: 07 October 2010	Sea Conditions: Slight w/ South swells to 2.0 meters. Wind: East @ 7 - 10 knots Visibility: Unlimited Barometer: 29.58 – 29.61 Current Set & Drift Rate: West @ average 0.6 knots Sky: Partly Cloudy to cloudy, 30 – 90%					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0725	Control	1	28.3	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	28.3	7.3		
		10	28.3	7.3		
1035	Station 1	1	28.3	7.3	Slightly Pungent	Moderate glassy surface sheen with some light milky blue patches. No floating or suspended particulate or other material.
		3	28.3	7.3		
		10	28.3	7.3		
1045	Station 2	1	28.3	7.3	Slightly Pungent	A large area of moderate glassy sheen with abundant suspended, fine particulate materials, light brown in color extending down to the limit of visibility (approx. 4 meters).
		3	28.3	7.3		
		10	28.3	7.3		
1055	Station 3	1	28.3	7.3	Slightly Pungent	Light surface sheen over deep, clear blue. No floating or suspended particulate materials at this position, 0.25 NM down-current of Station #2.
		3	28.3	7.3		
		10	28.3	7.3		
1105	Station 4	1	28.3	7.3	Slightly Pungent	No visible evidence (i.e. typical sheen) of the wastewater plume sheen in the vicinity of this position, an apparent void in the midst of the plume . No floating or suspended materials noted either.
		3	28.3	7.3		
		10	28.3	7.3		
1115	Station 5	1	28.3	7.3	Slightly Pungent	Leading edge of the waste plume. Moderate glassy surface sheen with clear, blue, natural appearing seas further down-current to the west. No floating or suspended materials of any description.
		3	28.3	7.3		
		10	28.3	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control-C	14° 24.14'	South	170° 37.19'	West
Station 1	14° 24.21'	South	170° 36.95'	West
Station 2	14° 24.28'	South	170° 37.21'	West
Station 3	14° 24.27'	South	170° 37.48'	West
Station 4	14° 24.26'	South	170° 37.72'	West
Station 5	14° 24.24'	South	170° 38.26'	West

N

170 39.60 W

170 36.15 W

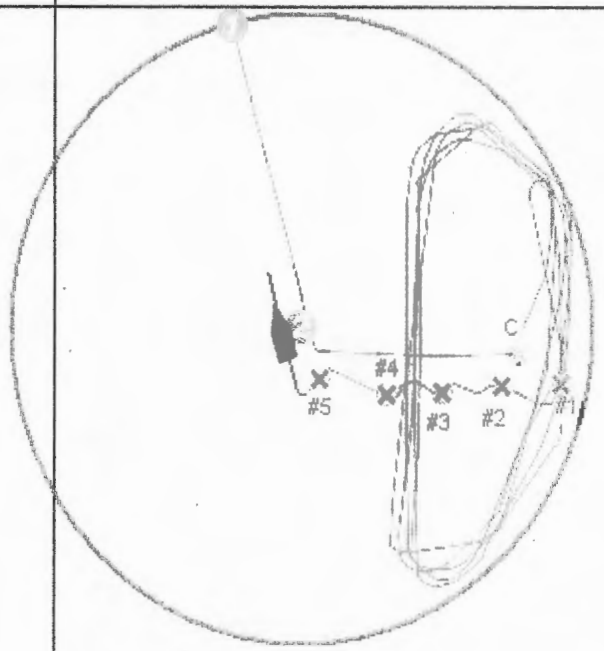
170 32.70 W

PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Stations #1 - #5
07 October, 2010

M. Crook, Investigator

14 22.50 S

Disposal Zone Center:
14*24.0' S x 170* 38.3' W



Current set: West

14 25.95 S

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

04 November, 2010

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
COS/Samoa Packing	Craig Double
Determination of Sampling Positions:	All positions & drift rates obtained by GPS Satellite Navigation.

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
06 November, 2010

Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: 04 November 2010	Sea Conditions: Moderate to Rough w/ East/Southeast swells to 2.5 meters. Wind: Southeast @ 20 - 25 knots Visibility: Fair to Good Barometer: 29.60 – 29.63 Current Set & Drift: Northwest @ average 1.3 knots Sky: 100% Cloudy w/ passing rains.					
Time	Station	Depth (meters)	Temp. (°C)	pH	Odor	Color
0740	Control	1	26.1	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	26.1	7.3		
		10	26.1	7.3		
1055	Station 1	1	26.7	7.3	None	Same color characteristics as the Control Station
		3	26.7	7.3		
		10	26.7	7.3		
1105	Station 2	1	26.7	7.3	None	Deep, clear blue water but a couple broken glassy track lines 300 meters to the north of this position. No floating or suspended materials.
		3	26.7	7.3		
		10	26.7	7.3		
1115	Station 3	1	26.7	7.3	Slightly Pungent	Heavy, glassy surface sheen over clear blue water. No floating or suspended particulate materials present.
		3	26.7	7.3		
		10	26.7	7.3		
1125	Station 4	1	26.7	7.3	Slightly Pungent	Same characteristics as the Control and #1 Stations.
		3	26.7	7.3		
		10	26.7	7.3		
1135	Station 5	1	26.7	7.3	Slightly Pungent	The leading edge of the waste plume consisted of broken up patches of earlier glassy track lines w/ moderate to heavy surface sheen. No floating or suspended particulate materials.
		3	26.7	7.3		
		10	26.7	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control-C	14° 24.74'	South	170° 37.14'	West
Station 1	14° 24.67'	South	170° 37.40'	West
Station 2	14° 24.64'	South	170° 37.50'	West
Station 3	14° 24.47'	South	170° 37.66'	West
Station 4	14° 24.36'	South	170° 37.87'	West
Station 5	14° 24.58'	South	170° 38.57'	West

N

3.05 W | 3.60 W | 3.15 W

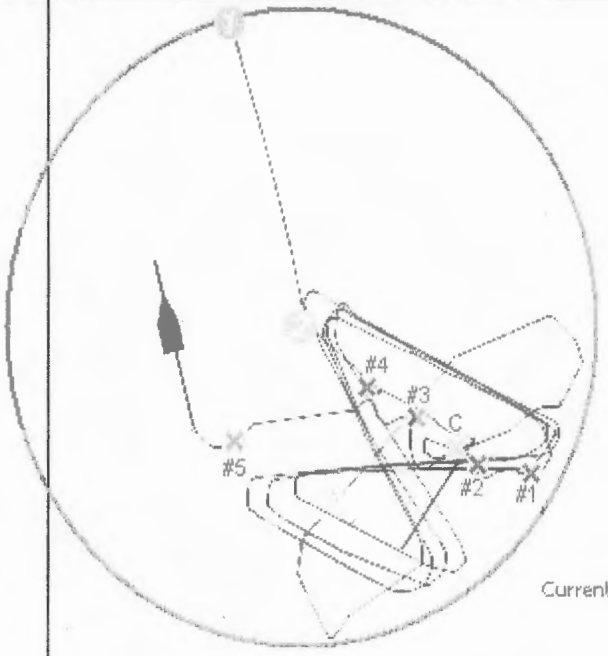
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Stations #1 - #5
04 November, 2010

M. Crook

M. Crook, Investigator

14 22.50 S

Disposal Zone Center.
14*24.0' S x 170* 38.3' W



Current Set: Northwest

14 25.95 S

Ocean Disposal Site
Monitoring Report
(OD Permit 93-01 & 93-02)

02 December, 2010

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
COS/Samoa Packing	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
06 December, 2010

Introduction

On December 2, 2010 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0605: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0655: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S / 170*38.7' W.

0705: The *Blue Moon* arrived at the dump-zone center, where observed light northeasterly winds and slight east/SE seas initially indicated disposal operations be conducted in the northeastern dump-zone quadrant.

0715: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or northeast (NE) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with station's position were recorded (Table 1). Seas at this time were slight with east & SE swells to1.0 meters and a light NE breeze of 5 knots with the barometer reading 29.56. Current set and drift, of the ship, were to the southwest at 0.4 knots. No floating materials or sea life were observed here.

0725: The *Blue Moon* began disposal operations in the NE dump zone quadrant and continued discharging material with a northwest to SE reciprocal, elongated elliptical pattern, approximately 2.25 miles long (see Plot 1) until 1005 hrs.

1010: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The NE winds had increased slightly to 10 knots with still, partly cloudy skies. The waste plume appeared here as an oblong body of moderate glassy surface sheen extending in a northwest (NW) to SE direction and moving to the southwest (SW). The current/wind drift of the ship was now GPS determined to be westerly @ 0.5 knots. No sea life or floatable materials

were observed.

1020: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed heavy glassy surface sheen but no floating or suspended particulate material. The average drift rate of the ship with current and wind was GPS determined to be southwesterly at 0.5 knots between stations 2 & 3 (See Plot #1). No sea-life was noted at this position.

1030: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed only some very light glassy surface sheen over clear blue water. The drift rate of the ship between Stations #3 & 4 was again, 0.4 - 0.5 knots to the SW.

1040: Station Four monitoring. Standard sampling procedures were again carried out as in previous stations. This position, 0.25 NM SW of Station #3, showed the typical heavy glassy surface sheen characteristic of the waste plume and was within 0.25 NM from the visible leading edge of the plume. There were no floating or suspended materials. The SW current/drift rate of the ship was again noted here to be at 0.5 knots.

1050: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.45 NM south of the zone center (See Plot #1). The leading edge of the waste plume was clearly visible at this location as an area of heavy glassy surface sheen with clear, natural appearing blue waters further down-current to the southwest. Also present in this sheen, were fine, suspended particulate material extending down to the limit of water visibility as well as a few floating, golf ball sized blobs of a grease-like substance . All the above were brown to gray or ash colored. The final drift rate of the ship was noted to be 0.5 knots. Other than a few random seabirds flying by, no notable sea life was observed at this position or any of the previous stations, although a 10 kg. Wahoo was caught on trolling gear near the zone perimeter on the return. The final barometer reading was 29.52 when monitoring activities were concluded at 1100 hrs. The *Blue Moon* exited the disposal zone at 1115 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1205 hours.

Prepared by _____
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: 02 December 2010	Sea Conditions: Slight w/ South/Southeast swells to 1.0 meters. Wind: Northeast @ 5 - 10 knots Visibility: Good @ 6-10+ miles. Barometer: 29.53 – 29.57- 29.52 Current Set & Drift: Southwest @ average 0.5 knots Sky: Partly cloudy 25 - 60%.					
Time	Station	Depth (meters)	Temp. (°C)	pH	Odor	Color
0715	Control	1	27.8	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	27.8	7.3		
		10	27.8	7.3		
1010	Station 1	1	28.9	7.3	None	Moderate glassy surface sheen over clear blue water. No floating or suspended materials or sea life.
		3	28.9	7.3		
		10	28.9	7.3		
1020	Station 2	1	28.9	7.3	Slightly Pungent	Heavy glassy surface sheen over clear blue water. No floating or suspended materials.
		3	28.3	7.3		
		10	28.3	7.3		
1030	Station 3	1	28.9	7.3	Slightly Pungent	Light glassy surface sheen over clear blue water at the center of the plume ellipse. No floating or suspended particulate materials present.
		3	28.9	7.3		
		10	28.9	7.3		
1040	Station 4	1	28.9	7.3	Pungent	Same characteristics as Station #2.
		3	28.9	7.3		
		10	28.9	7.3		
1050	Station 5	1	28.9	7.3	Pungent	The leading edge of the wastewater plume: Heavy surface sheen with fine, gray suspended particulate materials and several floating, golf ball sized blobs of greasy material.
		3	28.9	7.3		
		10	28.3	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control-C	14° 23.53'	South	170° 37.32'	West
Station 1	14° 23.43'	South	170° 37.00'	West
Station 2	14° 23.65'	South	170° 37.27'	West
Station 3	14° 23.87'	South	170° 37.57'	West
Station 4	14° 24.14'	South	170° 37.83'	West
Station 5	14° 24.39'	South	170° 38.15'	West

Copy: Nav Plot, Blue Moon

N

170 43.05 W

170 39.60 W

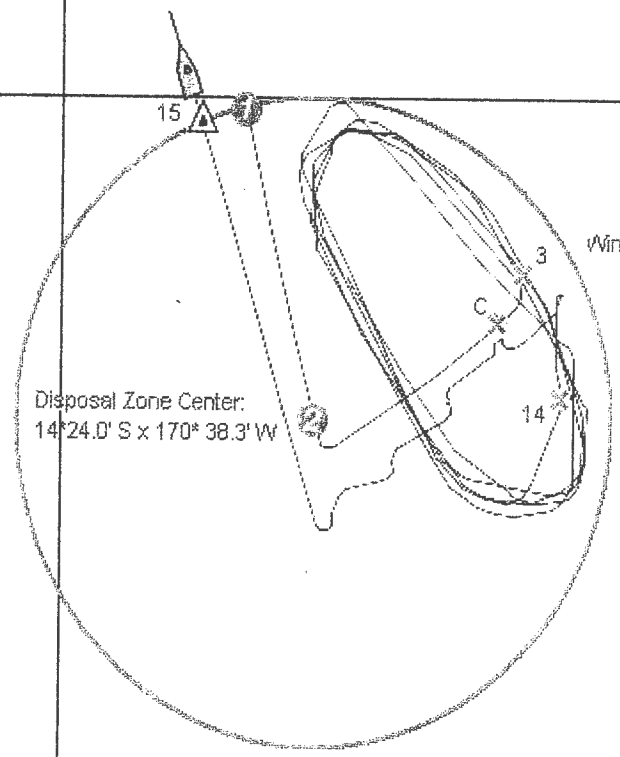
170 36.15 W

14 22.50 S

14 25.95 S

02 December, 2010 - Thurs.
Voyage # 5368
Starkist Cargo, Trip #1
*Ocean Monitoring/Sampling Conducted

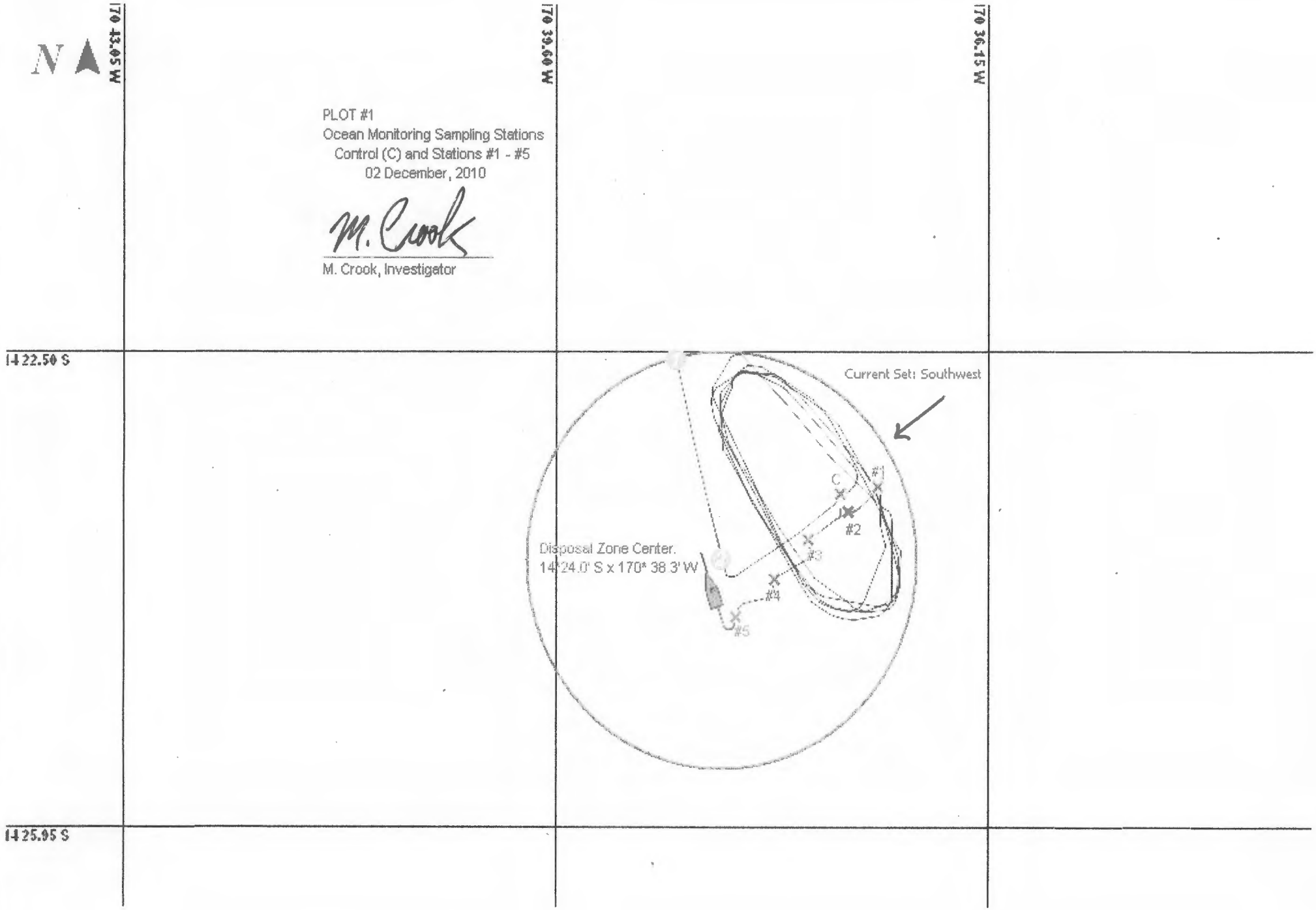
M. Crook, Master
F/V Blue Moon



Wind: Northeast @ 5 - 10 kts.

PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Stations #1 - #5
02 December, 2010

M. Crook, Investigator



Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

13 January, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
17 January, 2011

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On January 13, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dumpsite area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0520: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0613: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S x 170*38.7' W.

0622: The *Blue Moon* arrived at the dump-zone center, where observed light easterly winds and slight easterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0635: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with east swells to 1.5 meters and an east wind of 10 knots with the barometer reading 29.52. Current set and drift, of the ship, were to the west at 0.5 knots. No floating materials or sea life were observed here.

0645: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.2 miles long (see Plot 1) until 0937 hrs.

0945: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east winds had increased slightly to12 knots with cloudy skies. The waste plume appeared here as elongate streaks of light to heavy glassy surface sheen extending in a N to S direction and moving, generally, to the west. The current/wind drift of the ship was now GPS determined to be westerly @ 1.0 knots. No sea life or floating materials were observed.

0955: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed lighter and more broken and scattered streaks of glassy surface sheen than at Station #1, with clear natural blue appearing seawater underneath. The average drift rate of the ship with current and wind was GPS determined to be westerly (W) at 1.0 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1010: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed none of the typical glassy surface sheen, just clear blue water being in the center of the drifting elliptically shaped plume's center. The drift rate of the ship between Stations #3 & 4 was 1.1 knots, again, to the west.

1020: Station Four monitoring. Standard sampling procedures were again carried out as in previous stations. This position, 0.25 NM, W of Station #3, showed the same visual characteristics of the waste plume as Station #2 with another area of light & scattered streaks of surface sheen over natural clear blue water extending from N to S and roughly 2.5 miles long. There were no floating or suspended materials. The westerly current/drift rate of the ship was again noted here to be at 1.0 knots.

1030: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.30 NM east of the zone center. The leading edge of the waste plume was clearly visible at this location as an area of long N to S reaching track lines of heavy glassy surface sheen with clear, natural appearing blue waters further down-current to the west. No notable sea life was observed at this position or any of the previous stations, other than a few random seabirds flying by. The final barometer reading was 29.51 when monitoring activities were concluded at 1040 hrs. The *Blue Moon* exited the disposal zone at 1052 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1145 hours.

Prepared by M. Crook
Mike Crook, Principal Investigator

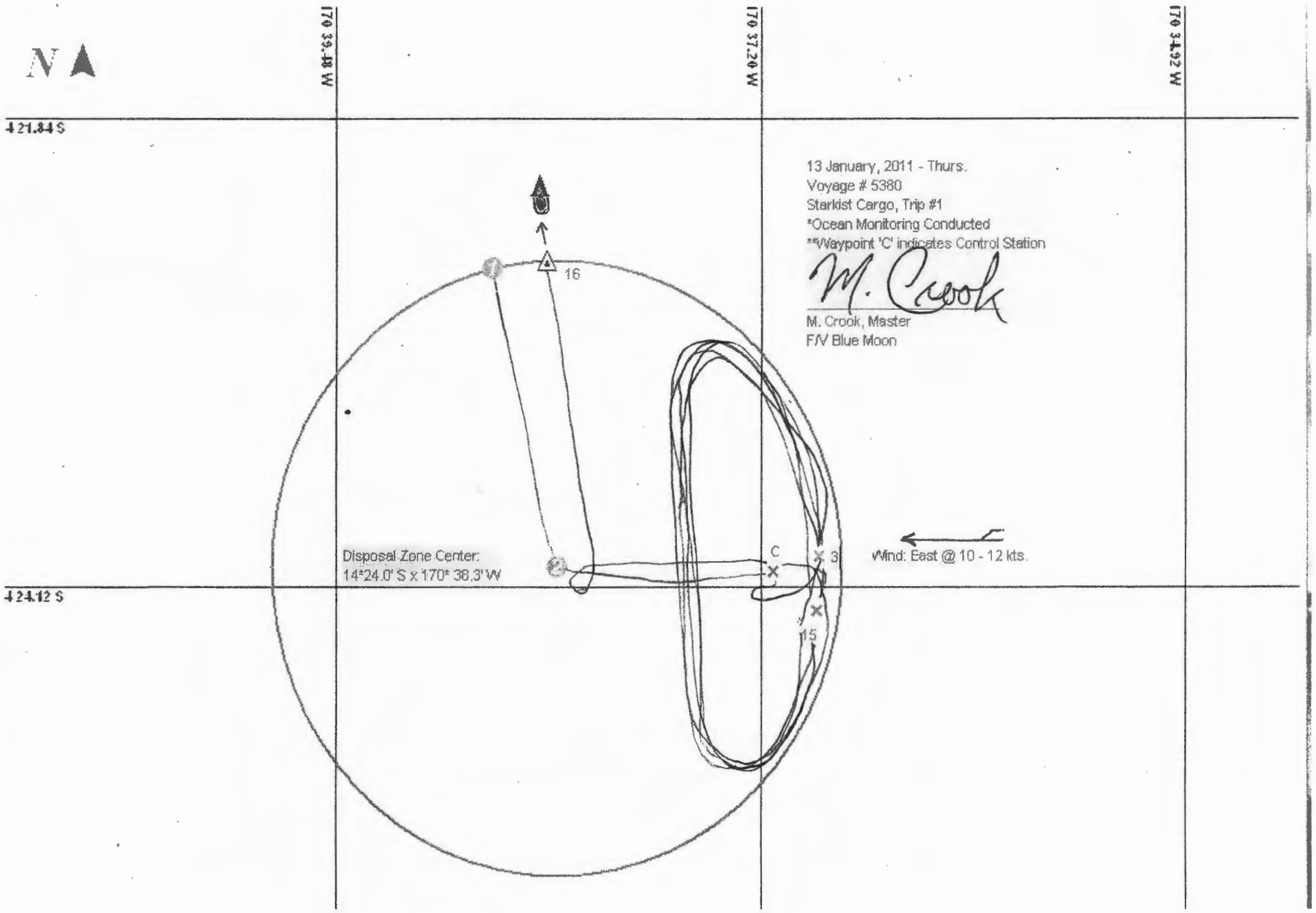
OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

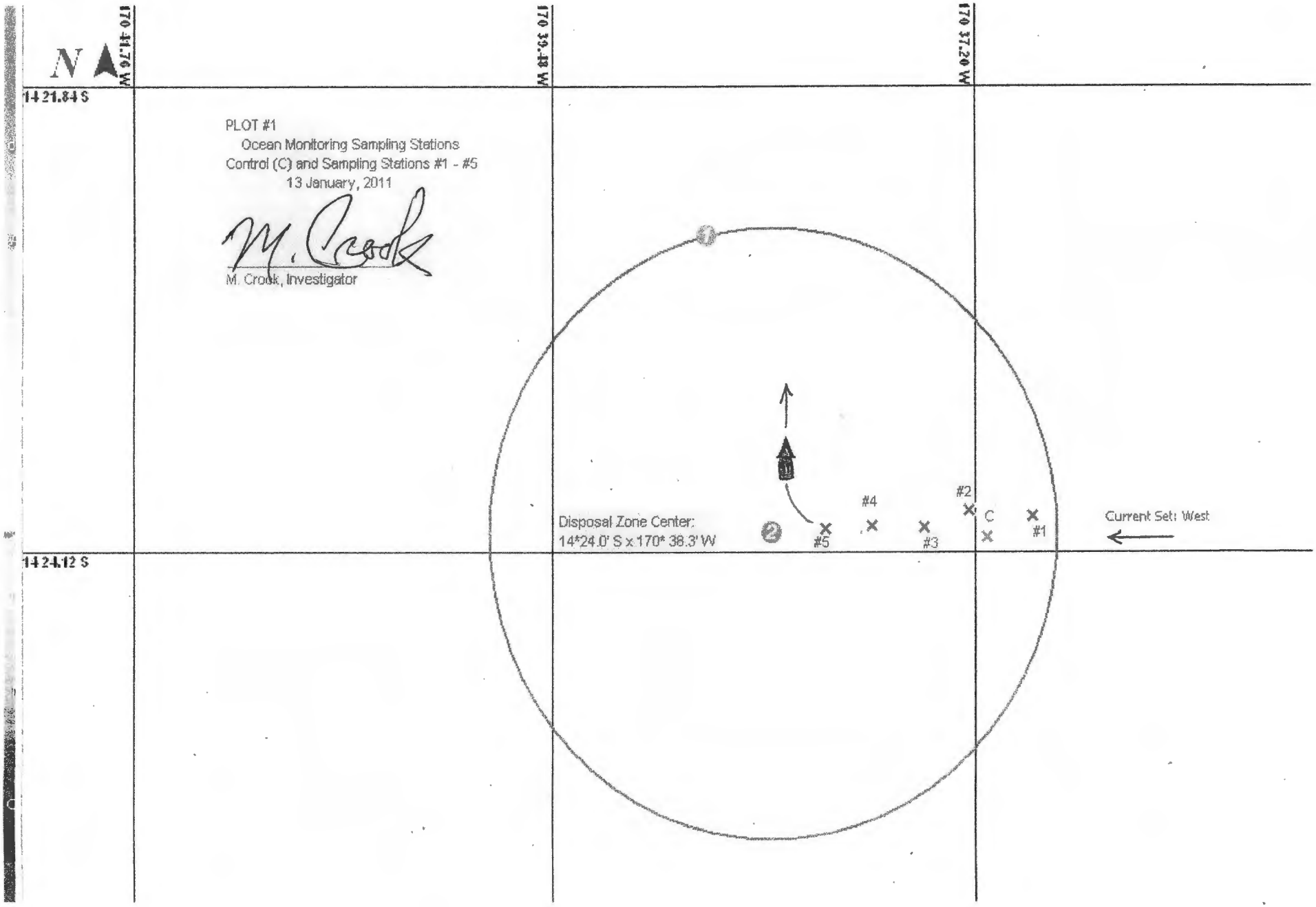
Table 1

Date: 13 January, 2011	Sea Conditions: Slight w/ East swells to 1.5 meters. Wind: East @ 10 - 12 knots Visibility: Very good @ 8 -10+ miles. Barometer: 29.50 - 29.53 - 29.51 Current Set & Drift: West @ average 1.0 knots Sky: Cloudy w/ some passing rain.					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0635	Control	1	27.2	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	27.2	7.3		
		10	27.2	7.3		
0945	Station 1	1	27.8	7.3	None	Streaks and track lines of moderate to heavy glassy surface sheen over clear blue water. No floating or suspended materials or sea life.
		3	27.8	7.3		
		10	27.8	7.3		
0955	Station 2	1	27.2	7.3	Slightly Pungent	A few light and scattered streaks of light, glassy surface sheen over clear blue water. No floating or suspended materials.
		3	27.2	7.3		
		10	27.2	7.3		
1010	Station 3	1	27.8	7.3	None	Clear, blue water. No visible sign of the waste plume here at the center of the drifting plume ellipse. No floating or suspended particulate materials present.
		3	27.8	7.3		
		10	27.8	7.3		
1020	Station 4	1	27.8	7.3	Slightly Pungent	Same characteristics as Station #2.
		3	27.8	7.3		
		10	27.8	7.3		
1030	Station 5	1	27.8	7.3	Slightly Pungent	The leading edge of the wastewater plume: A heavy north to south band of surface sheen created a clear demarcation between the leading edge and the clear, natural blue waters further to the west. No floating or suspended particulate material, scum etc.
		3	27.8	7.3		
		10	27.8	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control-C	14° 24.00'	South	170° 37.18'	West
Station 1	14° 23.88'	South	170° 36.90'	West
Station 2	14° 23.91'	South	170° 37.19'	West
Station 3	14° 23.98'	South	170° 37.48'	West
Station 4	14° 23.99'	South	170° 37.75'	West
Station 5	14° 24.01'	South	170° 38.00'	West


N
170 39.48 W
170 37.20 W
170 34.92 W
14 21.84 S
14 24.12 S
13 January, 2011 - Thurs.
Voyage # 5380
Starkist Cargo, Trip #1
*Ocean Monitoring Conducted
**Waypoint 'C' indicates Control Station
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: East @ 10 - 12 kts.
16
C
3
15


N
170 41.76 W
170 39.48 W
170 37.20 W
14 21.84 S
14 24.12 S
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
13 January, 2011
M. Crook, Investigator
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
#5
#4
#3
#2
C
#1
Current Set: West

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

13 January, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
17 January, 2011

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Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

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		3	27.2	7.3		
		10	27.2	7.3		
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		3	27.8	7.3		
		10	27.8	7.3		
0955	Station 2	1	27.2	7.3	Slightly Pungent	A few light and scattered streaks of light, glassy surface sheen over clear blue water. No floating or suspended materials.
		3	27.2	7.3		
		10	27.2	7.3		
1010	Station 3	1	27.8	7.3	None	Clear, blue water. No visible sign of the waste plume here at the center of the drifting plume ellipse. No floating or suspended particulate materials present.
		3	27.8	7.3		
		10	27.8	7.3		
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		10	27.8	7.3		
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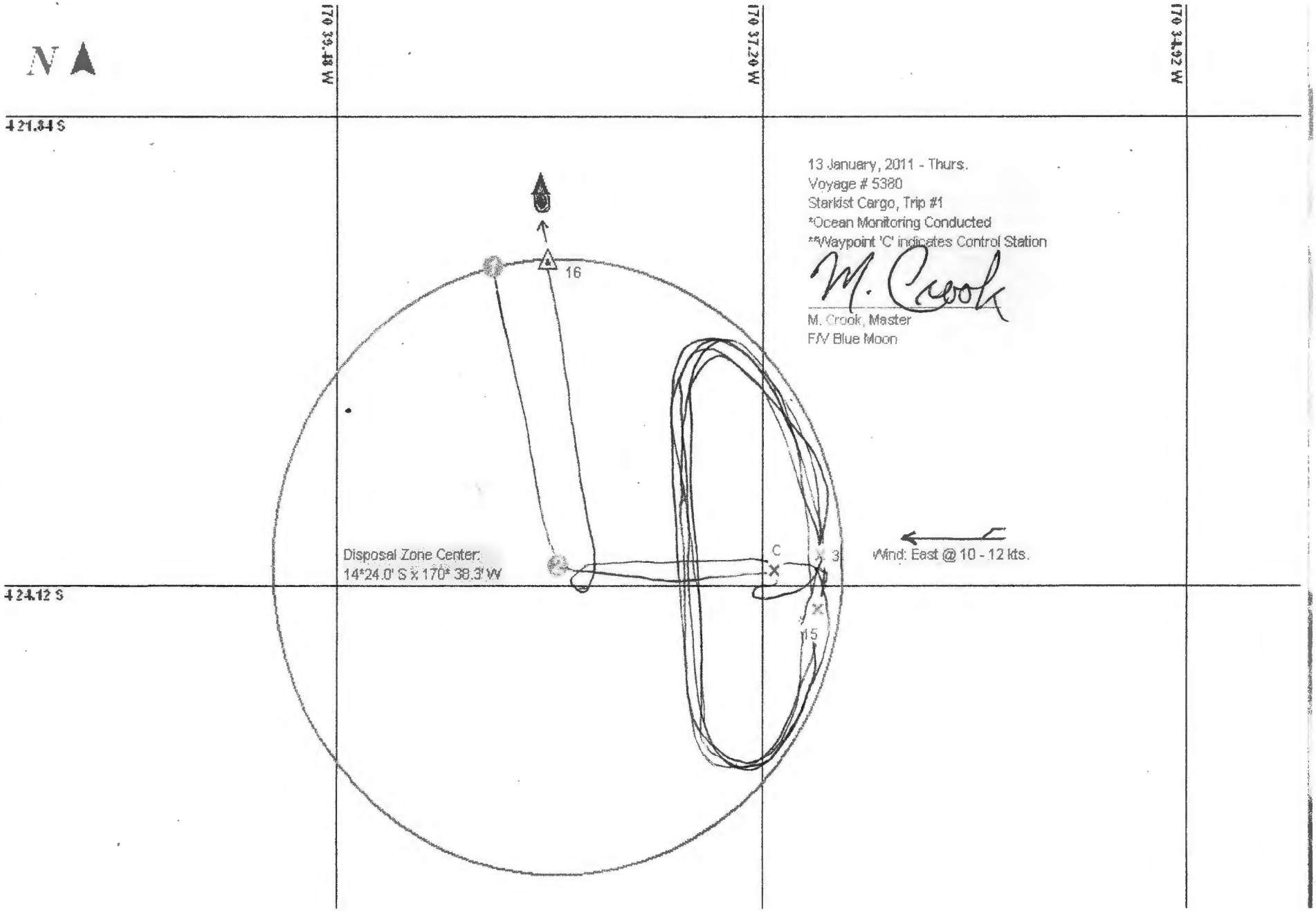
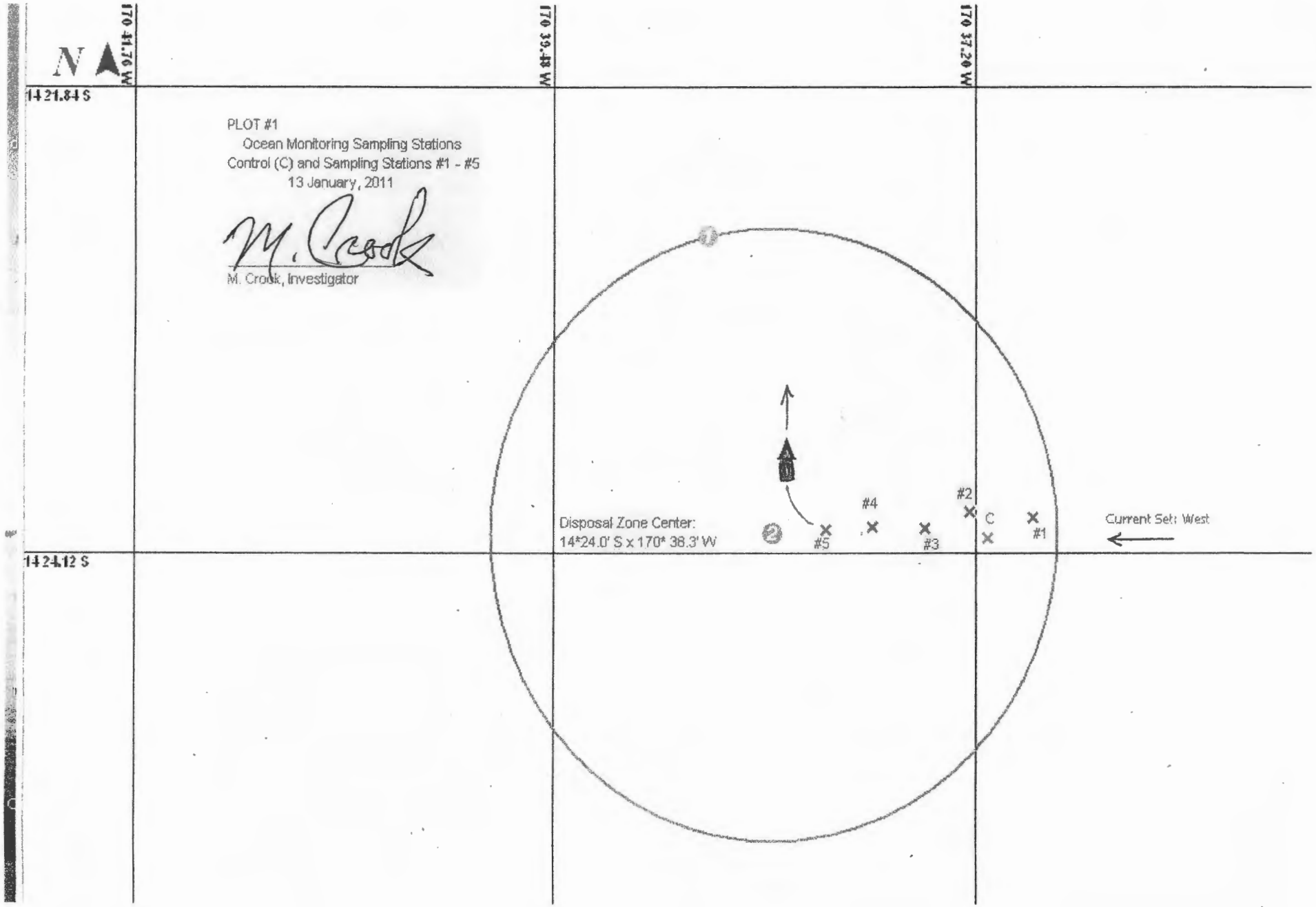

N
170 36.48 W
170 37.20 W
170 34.92 W
421.34 S
424.12 S
13 January, 2011 - Thurs.
Voyage # 5380
Starkist Cargo, Trip #1
*Ocean Monitoring Conducted
**Waypoint 'C' indicates Control Station
M. Crook, Master
F/V Blue Moon
16
C
3
15
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: East @ 10 - 12 kts.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Control (C) and Sampling Stations #1 - #5
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M. Crook, Investigator
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#4
#3
#2
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#1
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Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

13 January, 2011

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Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

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		10	27.2	7.3		
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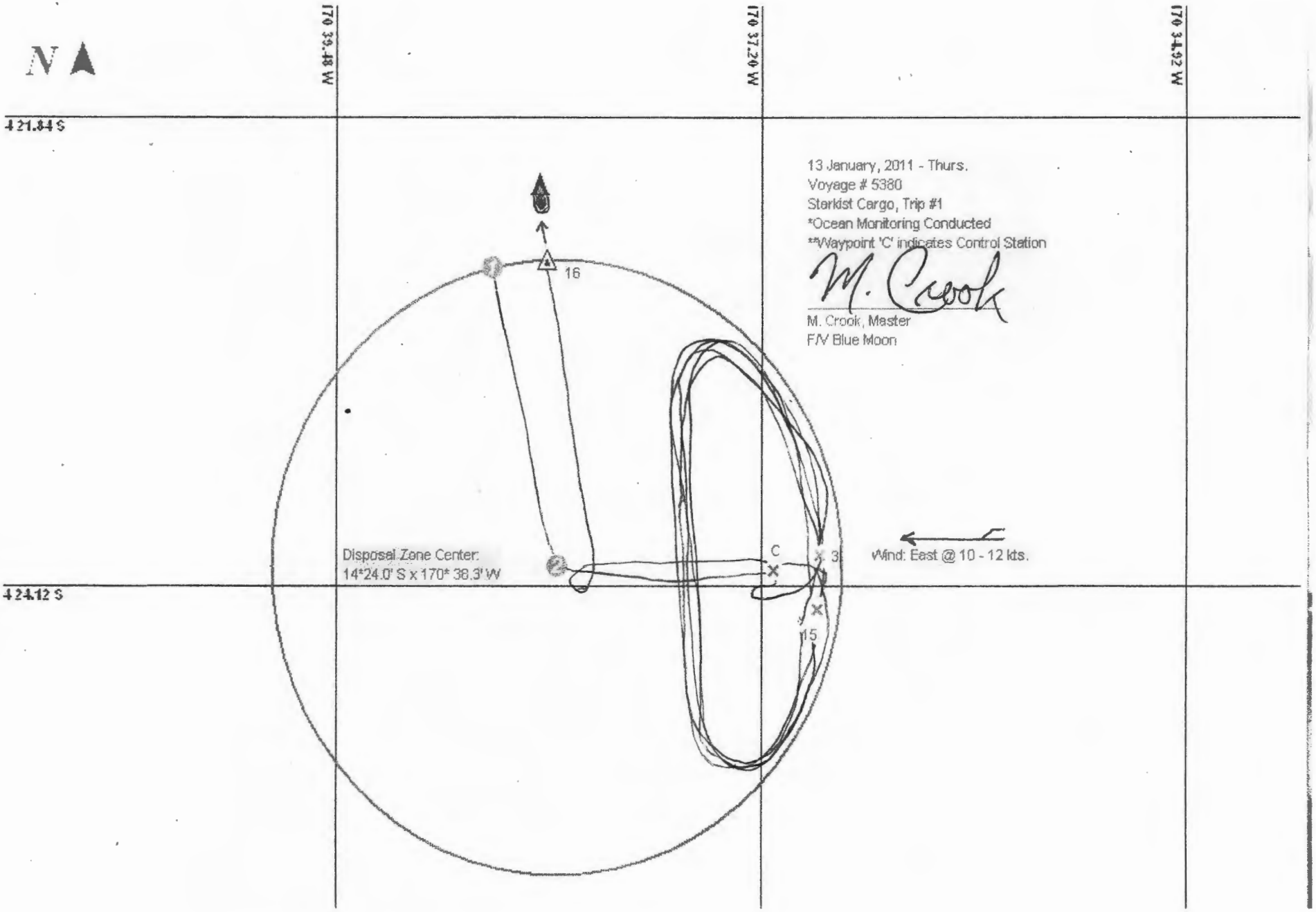
N
170 39.48 W
170 37.20 W
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421.84 S
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13 January, 2011 - Thurs.
Voyage # 5380
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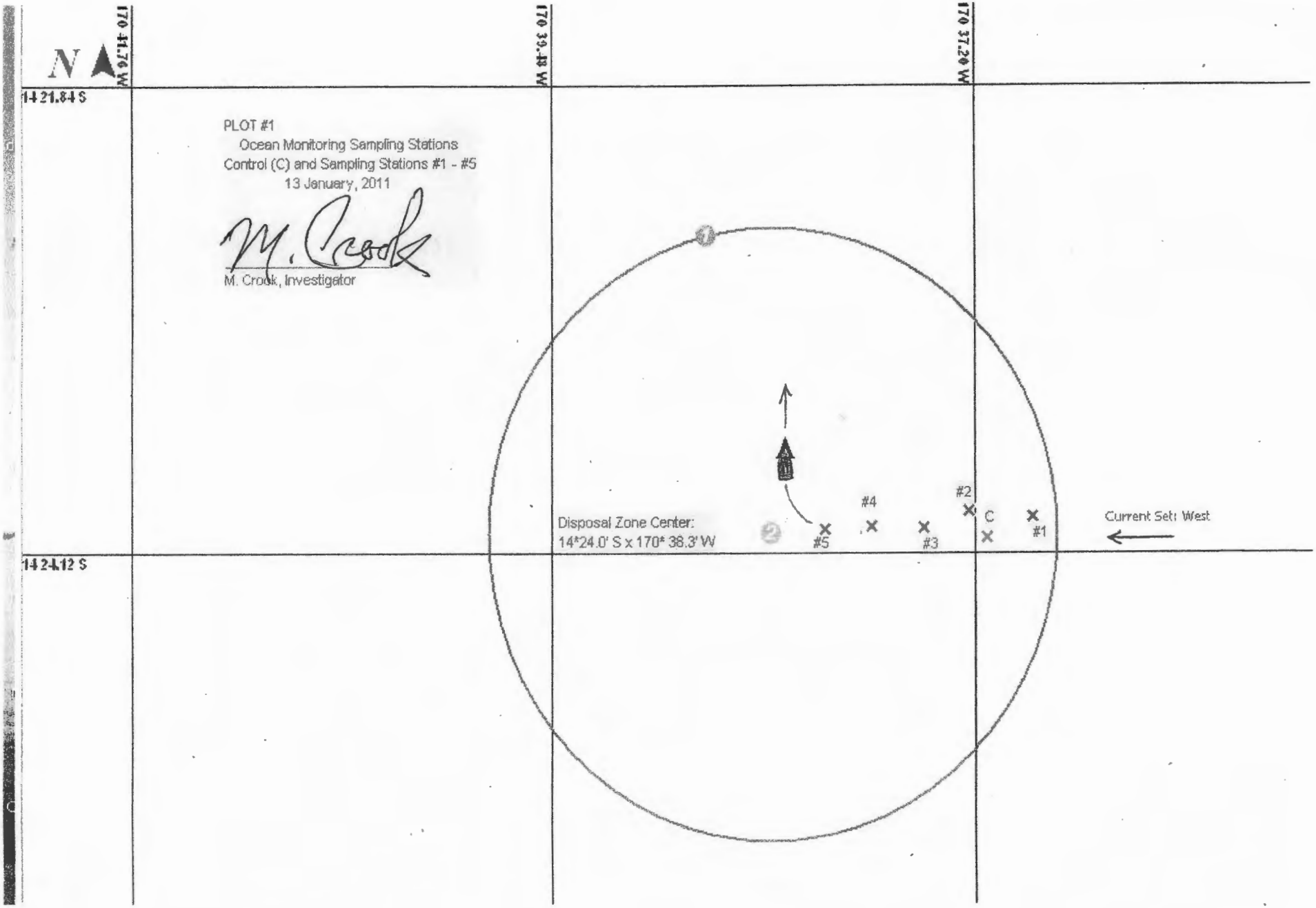
Wind: East @ 10 - 12 kts.
16
C
3
15


N
170 41.76 W
170 39.48 W
170 37.20 W
14 21.84 S
14 24.12 S
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
13 January, 2011
M. Crook, Investigator
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
#5
#4
#3
#2
C
#1
Current Set: West

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON January, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	11	0	0	**11**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	1,925,750	0	0	**1,925,750**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	1,925,750	**0**

RUNNING TIME ON TRIPS: **56.1 hrs.**

DISCHARGE TIME ON TRIPS: **31.06 hrs.**

AV. GPM DISCHARGE RATE: **104 gal/min/kt**

AV. TRIP TIME: **5.10 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER : M. Crook

M. Crook

Date: 01/04/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5376

Permit # OD 93-01 & OD 93-02

	Time	
1/3	1800	Begin 1st Loading SK
	1930	Finish 1st Loading SK
1/4	0000	Begin 2nd Loading SK
	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	147,500	Gallons
Other	0	Gallons
Total	147,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0600	Depart Starkist		14*16.50' S	170* 41.2' W	East-7	90	29.56			
0650	Arrive Edge of Zone	# 1	14*22.53' S	170*38.67' W	East-10	100	29.57	E+SE-1.0	8.9	163
0700	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.9	165
0708	Begin Discharge	# 3	14*23.98' S	170*37.22' W	" "	"	29.58	" " X	8.5	090
" 23		# 4	14*23.64' S	170*37.75' W					8.7	181
" 38	Remarks:	# 5	14*24.58' S	170*37.09' W					8.5	007
" 53		# 6	14*23.17' S	170*37.66' W					8.7	184
0808		# 7	14*25.08' S	170*37.43' W				5	8.4	021
" 23		# 8	14*23.45' S	170*37.09' W	East-12				8.8	346
" 38		# 9	14*24.61' S	170*37.80' W					9.2	180
" 53		# 10	14*23.90' S	170*37.09' W					8.7	000
0908		# 11	14*24.05' S	170*37.78' W					9.2	183
" 23		# 12	14*24.21' S	170*37.00' W				10	9.1	002
" 38		# 13	14*23.24' S	170*37.65' W					8.8	182
" 53		# 14	14*24.71' S	170*37.22' W					9.1	021
1008		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1003	Finish Discharge	#15	14*23.50' S	170*37.25' W	East-12	100%	29.58	E+SE-1.0	9.2	332
1008	Exit Discharge Zone	#16	14*22.77' S	170*37.59' W	" "	"	"	" "	9.4	333
1100	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 175 mins. Average Speed During Discharge: 8.86 kts. Total Time Run 5.0 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 95.1 Gallons/min/kt.

Unusual Occurrences? NAV Computer down - Hand Drawn Plot.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

N

Date: 04 JANUARY, 2011 - Tues.

Voyage # 5376

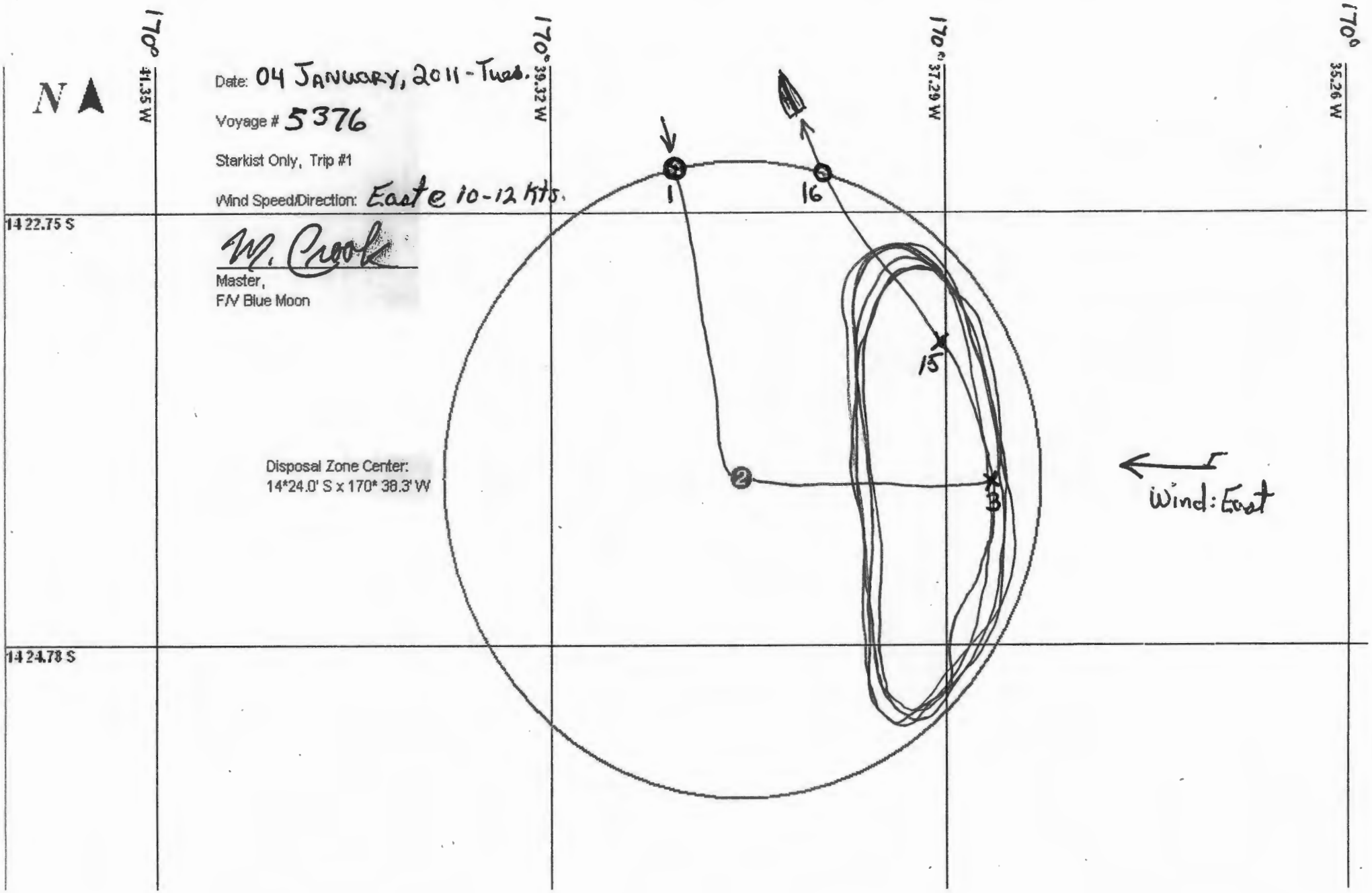
Starkist Only, Trip #1

Wind Speed/Direction: East @ 10-12 Kts.

M. Crook

Master,
F/V Blue Moon

Disposal Zone Center:
14*24.0' S x 170* 38.3' W



Date: 01/06/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5377

Permit # OD 93-01 & OD 93-02

Time		
1/05 1700	Begin 1st Loading SK	
2135	Finish 1st Loading SK	
/	Begin 2nd Loading SK	
/	Finish 2nd Loading SK	

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	131,750	Gallons
Other	0	Gallons
Total	131,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0620	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100	29.55			
0713	Arrive Edge of Zone	# 1	14*22.51' S	170*38.71' W	NE-10	"	"	East-1.0	9.0	163
0722	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.8	161
0730	Begin Discharge	# 3	14*23.40' S	170*37.41' W	" "	"	"	" " X	8.5	045
45		# 4	14*23.55' S	170*37.71' W			"		8.7	133
0800	Remarks:	# 5	14*23.34' S	170*37.13' W			"		8.7	315
15		# 6	14*23.27' S	170*38.02' W			"		8.6	135
30		# 7	14*23.86' S	170*36.94' W			29.56	5	8.8	341
45		# 8	14*23.03' S	170*38.22' W					9.0	132
0900		# 9	14*23.57' S	170*36.91' W					9.1	326
15		# 10	14*22.67' S	170*38.16' W					9.2	270
30		# 11	14*24.07' S	170*36.92' W					9.3	316
45		# 12	14*22.98' S	170*33.16' W			29.57	10	9.1	140
1000		# 13	14*23.57' S	170*36.94' W			"		9.2	334
15		# 14	14*2 S	170*3 W						
30		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1010	Finish Discharge	#14	14*22.75' S	170*37.60' W	NE-10	100	29.57	East-1.0	9.4	322
1011	Exit Discharge Zone	#15	14*22.69' S	170*37.65' W	" "	"	"	" "	9.5	330
1105	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

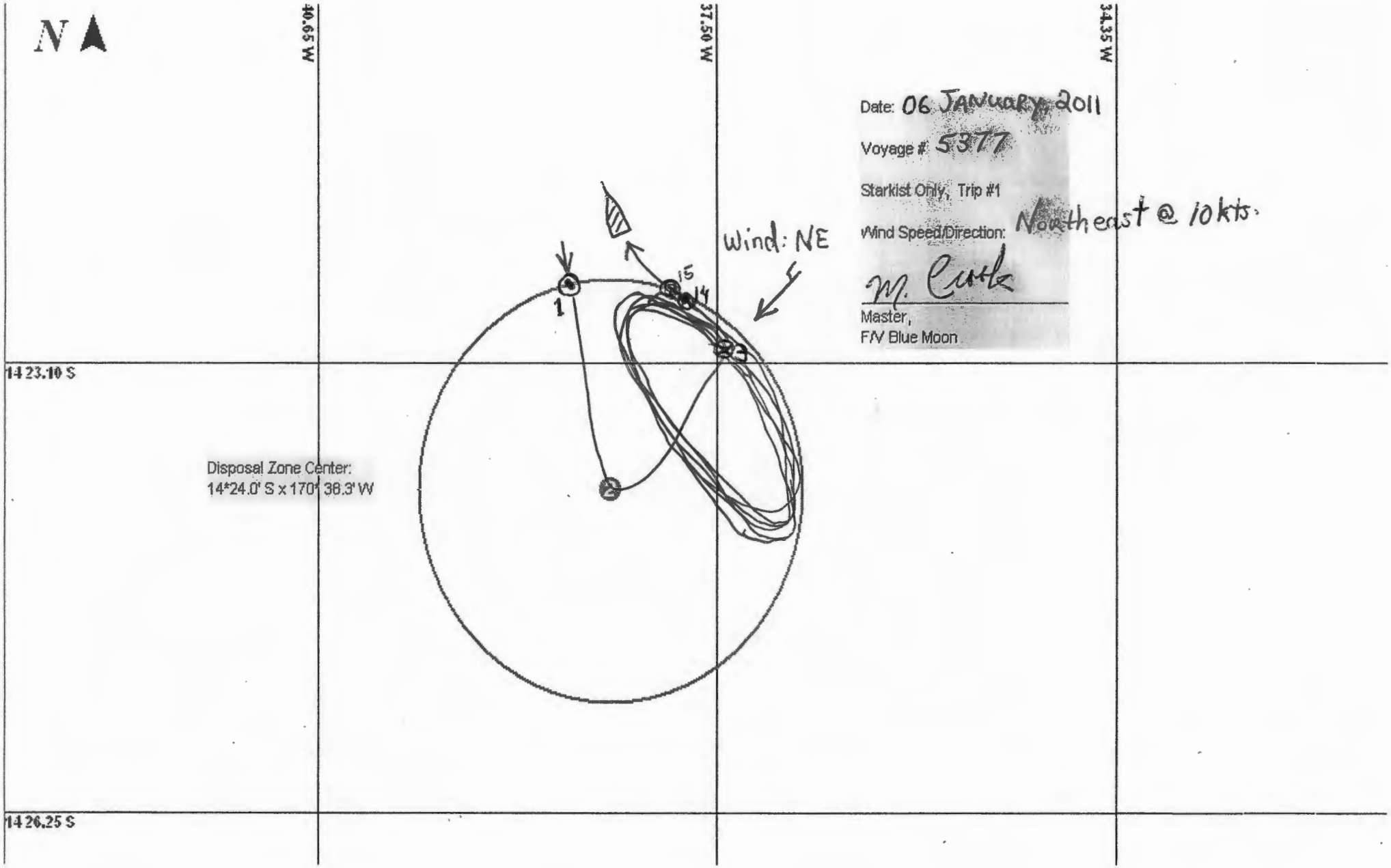
Total Discharge Time: 160 mins. Average Speed During Discharge: 8.96 kts. Total Time Run 4.75 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 92 Gallons/min/kt.

Unusual Occurrences? Hand drawn NAV Plot. NAV Computer down.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook



Date: 06 JANUARY 2011

Voyage #: 5377

Starkist Only, Trip #1

Wind Speed/Direction: Northeast @ 10kts.

M. Curtis

Master,
F/V Blue Moon

Date: 01/08/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5378

Permit # OD 93-01 & OD 93-02

17

Time	
1630	Begin 1st Loading SK
2130	Finish 1st Loading SK
/	Begin 2nd Loading SK
	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	147,000	Gallons
Other	0	Gallons
Total	147,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	NE-7	100-Rain	29.51			
0700	Arrive Edge of Zone	# 1	14*22.51' S	170*38.67' W	ENE-7	80	"	East-1.0	9.0	163
0710	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.8	160
0720	Begin Discharge	# 3	14*23.78' S	170*37.10' W	" "	90	"	" " X	8.5	042
" 35		# 4	14*23.55' S	170*37.86' W	" "		"		9.2	181
" 50	Remarks:	# 5	14*24.53' S	170*37.22' W	ENE-10		29.50		8.3	030
0805		# 6	14*22.81' S	170*37.53' W	" "		"		8.7	326
" 20		# 7	14*25.03' S	170*37.88' W	" "		"	5	8.5	174
" 35		# 8	14*23.68' S	170*36.91 W					9.3	001
" 50		# 9	14*25.51' S	170*37.90 W		80			9.6	180
0905		# 10	14*24.90' S	170*37.21' W					8.6	026
" 20		# 11	14*22.78' S	170*37.87' W					9.4	193
" 35		# 12	14*24.79' S	170*37.78' W				10	9.3	148
" 50		# 13	14*23.61' S	170*37.05' W					9.2	329
1005		# 14	14*2 S	170*3 W						
" 20		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1000	Finish Discharge	# 14	14*22.94' S	170*37.38 W	ENE-10	80%	29.50	East-1.0	9.7	323
1002	Exit Discharge Zone	# 15	14*22.76 S	170*37.47' W	" "	"	"	" "	9.7	324
1100	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 160 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 4.85 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 102 Gallons/min/kt.

Unusual Occurrences? Hand drawn Nav Plot - Nav Computer down.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 08 JAN., 2011- Sat.

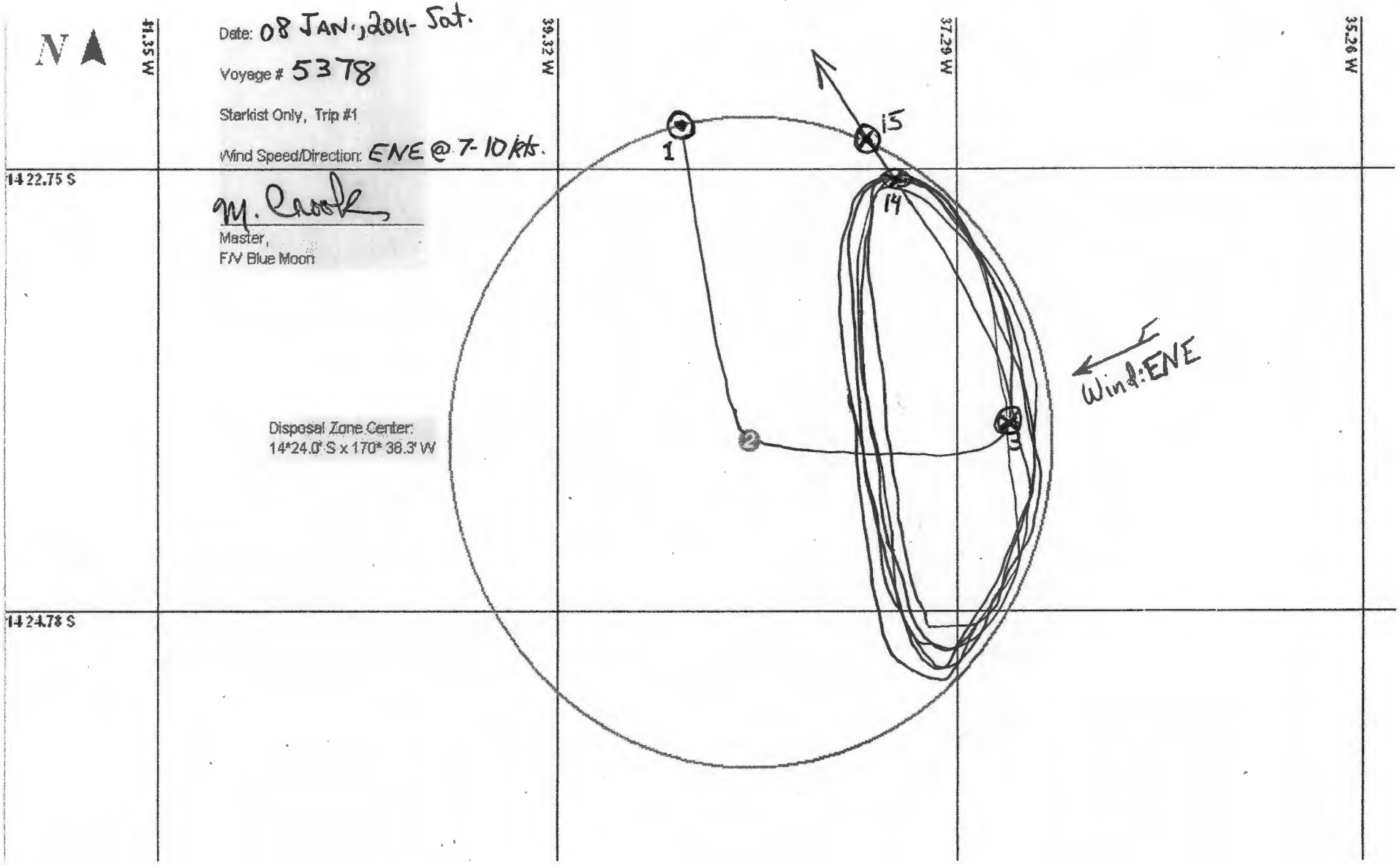
Voyage # 5378

Starkist Only, Trip #1

Wind Speed/Direction: ENE @ 7-10 kts.

M. Crook

Master,
F/V Blue Moon



Date: 01/11/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5379

Permit # OD 93-01 & OD 93-02

	Time	
1/10	1610	Begin 1st Loading SK
	2250	Finish 1st Loading SK
1/11	0000	Begin 2nd Loading SK
	0330	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	156,250	Gallons
Other	0	Gallons
Total	156,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	NW-7	100-Rain	29.51			
0700	Arrive Edge of Zone	# 1	14*22.52' S	170*38.68' W	NE-10	90	"	East-1.5	9.0	161
0708	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	80	"	" "	9.1	163
0715	Begin Discharge	# 3	14*23.33' S	170*37.42' W	" "	"	"	" " X	9.0	045
" 30		# 4	14*23.25' S	170*37.91 W		70	"		8.6	130
" 45	Remarks:	# 5	14*22.98' S	170*37.26' W		"	"		9.0	315
0800		# 6	14*23.43' S	170*37.85' W		"	"		8.7	127
" 15		# 7	14*23.30' S	170*37.09' W		"	"	5	9.1	326
" 30		# 8	14*23.31 S	170*37.81' W		60	29.50		8.7	126
" 45		# 9	14*23.26' S	170*37.21' W		"	"		9.0	322
0900		# 10	14*23.23 S	170*38.05 W		"			9.2	142
" 15		# 11	14*23.50' S	170*37.06' W		"			9.4	329
" 30		# 12	14*23.08' S	170*38.13' W		70		10	9.1	137
" 45		# 13	14*24.11' S	170*37.09' W		"			9.0	098
1000		# 14	14*2 S	170*3 W						
		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0955	Finish Discharge	#14	14*2 2.70' S	170*37.89 W	NE-10	80%	29.50	East-1.5	9.2	281
0958	Exit Discharge Zone	# 15	14*2 2. S	170*38.08 W	" "	"	"	"	9.4	324
1055	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

Total Discharge Time: 160 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 4.75 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 108.5 Gallons/min/kt.

Unusual Occurrences? Hand Drawn Nav Plot

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Poole

N

40.65 W

37.50 W

34.35 W

423.10 S

426.25 S

Date: 11 JANUARY, 2011

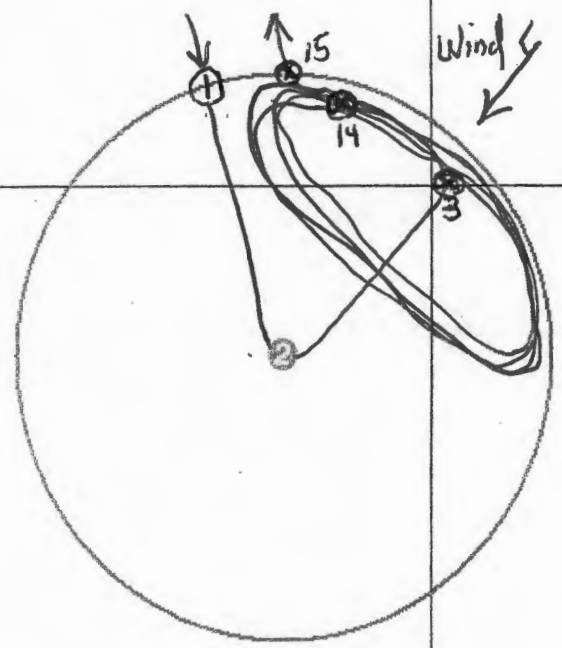
Voyage # 5379

Starkist Only, Trip #1

Wind Speed/Direction: NE @ 10 Kts.

M. Crooke

Master,
F/V Blue Moon



Disposal Zone Center:
14°24.0' S x 170° 38.3' W

Date: 01/13/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5380

Permit # OD 93-01 & OD 93-02

Time		
1/12 1530	Begin 1st Loading SK	
2115	Finish 1st Loading SK	
	Begin 2nd Loading SK	
	Finish 2nd Loading SK	

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	160,750	Gallons
Other	0	Gallons
Total	160,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0520	Depart Starkist		14*16.50' S	170* 41.2' W	East-5	80	29.50			
0613	Arrive Edge of Zone	# 1	14*22.58' S	170*38.67' W	East-10	75	29.51	East@1.5	8.9	161
0622	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	90	29.52	" "	8.6	162
0645	Begin Discharge	# 3	14*23.97' S	170*36.91 W	" "	95	"	" " X	8.2	005
0700		# 4	14*23.64' S	170*37.59' W	" "	"	29.53	" "	8.6	184
15	Remarks:	# 5	14*24.58' S	170*36.97 W	"		"		8.5	007
30	*Monitoring	# 6	14*23.63' S	170*37.68' W	" "				8.8	181
45	Control Samples	# 7	14*24.95' S	170*37.34' W	" "	100		5	8.7	063
0800	drawn at 0635	# 8	14*23.11' S	170*37.17' W	" "	light Rain			8.8	317
15	@14° 24.00' S X	# 9	14*24.45' S	170*37.69' W	East-12	100			8.7	178
30	170° 37.18' W	# 10	14*23.70' S	170*36.90' W	" "				9.1	001
45		# 11	14*23.89' S	170*37.75' W	" "				9.1	182
0900		# 12	14*24.56' S	170*36.78' W	" "		29.52	10	9.0	006
15		# 13	14*23.26' S	170*37.67' W		95	"		9.3	179
30		# 14	14*25.01' S	170*37.48' W		"	"		8.7	065
45		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0937	Finish Discharge	#15	14*24.22' S	170*36.91 W	East-12	90%	29.52	East-1.5	9.1	354
1052	Exit Discharge Zone	#16	14*22.57' S	170*38.36' W	" "	"	29.51	" "	9.3	341
1145	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

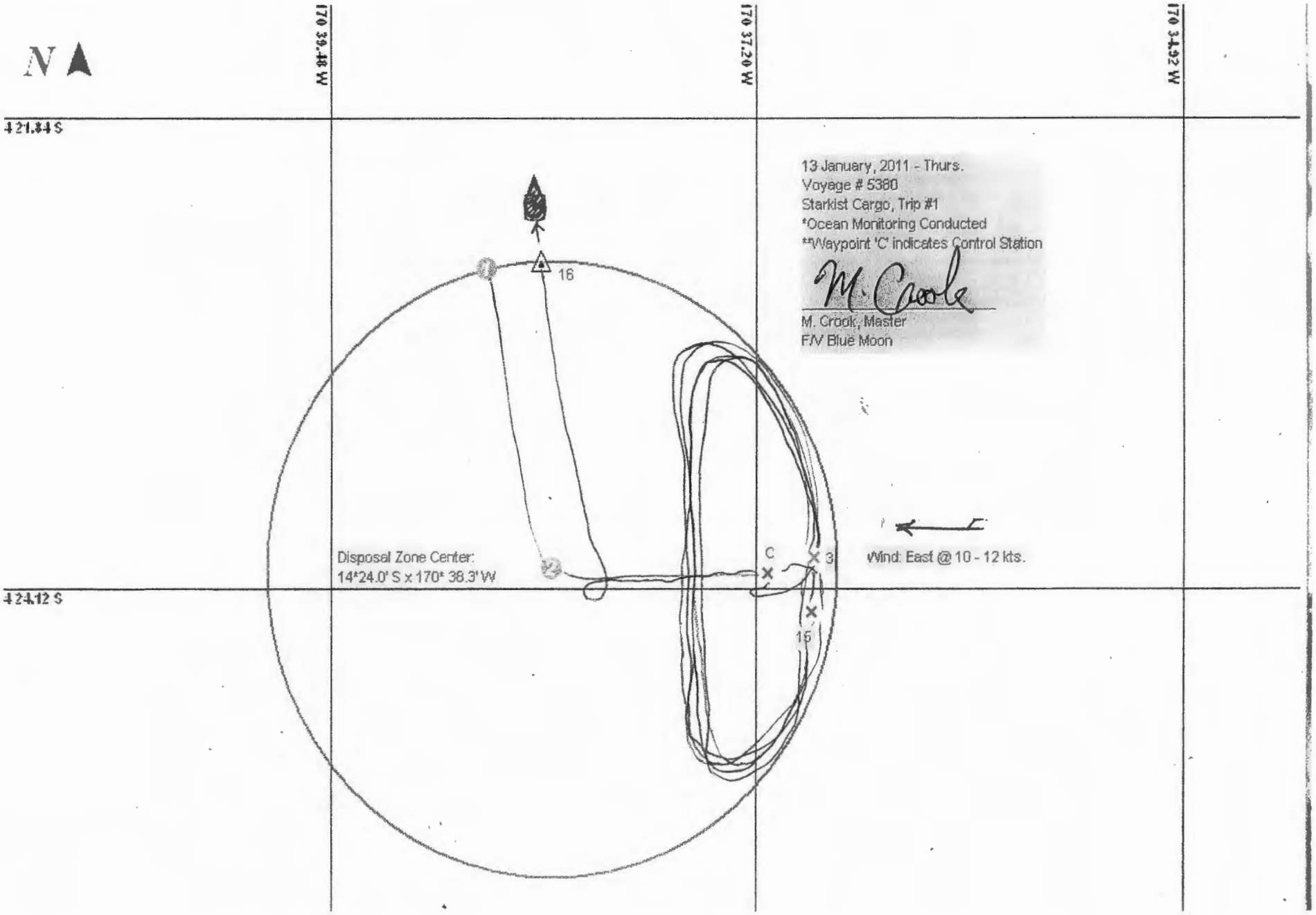
Total Discharge Time: 172 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 6.4 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 106 Gallons/min/kt.

Unusual Occurrences? Hand drawn Nav Track lines

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 39.48 W
170 37.20 W
170 34.92 W
421.34 S
424.12 S
13 January, 2011 - Thurs.
Voyage # 5380
Starkist Cargo, Trip #1
*Ocean Monitoring Conducted
**Waypoint 'C' indicates Control Station
M. Crook, Master
F/V Blue Moon
16
Disposal Zone Center:
14°24.0' S x 170° 36.3' W
C
3
15
Wind: East @ 10 - 12 kts.

Date: 01/15/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5381

Permit # OD 93-01 & OD 93-02

	Time	
1/14	1515	Begin 1st Loading SK
	2030	Finish 1st Loading SK
1/15	0130	Begin 2nd Loading SK
	023	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	173,250	Gallons
Other	0	Gallons
Total	173,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	80%	29.62			
0700	Arrive Edge of Zone	# 1	14*22.53' S	170*38.69' W	ENE-10	"	29.62	East 2.0	8.7	161
0710	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	ENE-12	"	"	" "	8.5	156
0717	Begin Discharge	# 3	14*23.80 S	170*37.21 W	" "	"	"	" " X	8.5	090
" 32		# 4	14*23.84 S	170*37.58' W	" "	"	"		8.6	177
" 47	Remarks:	# 5	14*24.01' S	170*36.92' W			"		8.7	001
0802		# 6	14*23.45' S	170*37.61' W			29.61		8.5	179
" 17		# 7	14*24.34' S	170*36.89' W				5	8.6	000
" 32		# 8	14*23.20' S	170*37.81' W					8.7	181
" 47		# 9	14*24.61' S	170*37.10' W	M.C				8.8	047
0902		# 10	14*22.88' S	170*37.46 W	~~75%~~	75%			9.1	279
" 17		# 11	14*24.62' S	170*37.31' W	ENE-12				8.7	046
" 32		# 12	14*22.97' S	170*37.30' W	" "			10	9.1	304
" 47		# 13	14*24.41' S	170*37.74' W	ENE-10		29.60		9.3	176
1002		# 14	14*23.67' S	170*36.89' W	" "				9.2	331
17		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1012	Finish Discharge	#15	14*22.79' S	170*37.69' W	ENE-10	75%	29.60	East 2.0	9.0	270
1014	Exit Discharge Zone	#16	14*22.64' S	170*37.77 W	" "	"	"	" "	9.2	334
1110	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

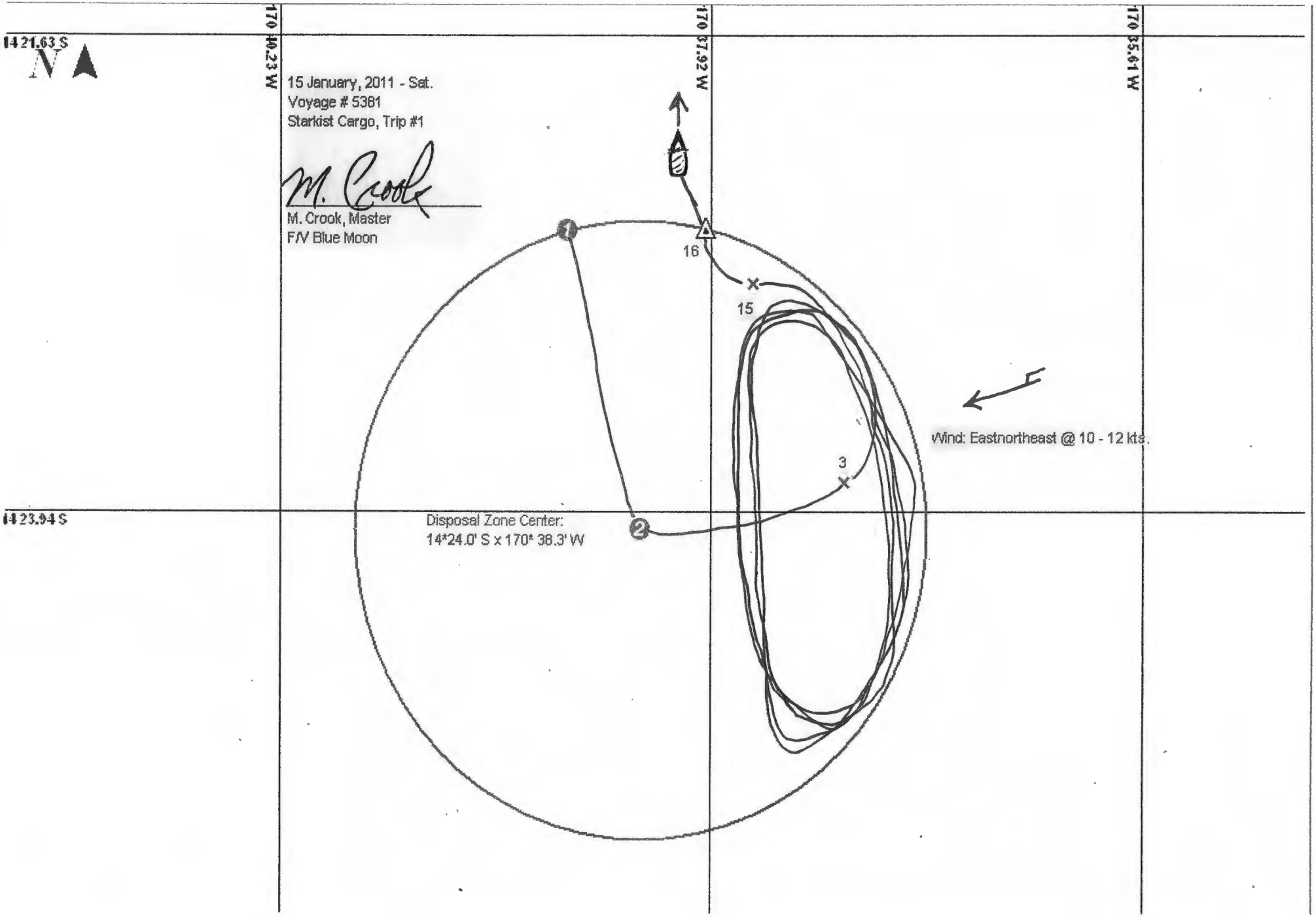
Total Discharge Time: 175 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.0 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112.5 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cooke


14 21.63 S
14 23.94 S
170 40.23 W
170 37.92 W
170 35.61 W
N
15 January, 2011 - Sat.
Voyage # 5381
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
1
2
3
15
16
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: Eastnortheast @ 10 - 12 kts.

Date: 01/18/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5382

Permit # OD 93-01 & OD 93-02

Time		
1/17 1700	Begin 1st Loading SK	
2030	Finish 1st Loading SK	
/	Begin 2nd Loading SK	
	Finish 2nd Loading SK	

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	137,500	Gallons
Other	0	Gallons
Total	137,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100%	29.51			
0707	Arrive Edge of Zone	# 1	14*22.57' S	170*38.68' W	East-10	"	29.52	East-1.0	9.0	159
0717	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	100-Rain	"	" "	8.9	161
0725	Begin Discharge	# 3	14*23.85' S	170*37.19' W	" "	100	"	" " X	9.0	090
" 40		# 4	14*24.00' S	170*37.64' W			"		8.9	178
" 55	Remarks:	# 5	14*23.97' S	170*36.90' W			"		8.9	000
0810		# 6	14*23.57 S	170*37.65' W					8.9	180
" 25		# 7	14*24.80' S	170*37.14' W				5	8.8	022
" 40		# 8	14*22.89' S	170*37.61' W					8.6	264
" 55		# 9	14*24.75' S	170*37.74' W					9.2	179
0910		# 10	14*23.71' S	170*36.88' W					9.1	348
" 25		# 11	14*23.92' S	170*37.75' W					9.5	177
" 40		# 12	14*24.06' S	170*36.96' W				10	9.3	012
" 55		# 13	14*23.23' S	170*37.87' W					9.2	180
1010		# 14	14*2 S	170*3 W						
" 25		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1000	Finish Discharge	#14	14*24.60' S	170*37.81' W	East-10	100%	29.52	East-1.0	9.3	181
1010	Exit Discharge Zone	#15	14*22.58 S	170*38.45 W					9.3	338
1110	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

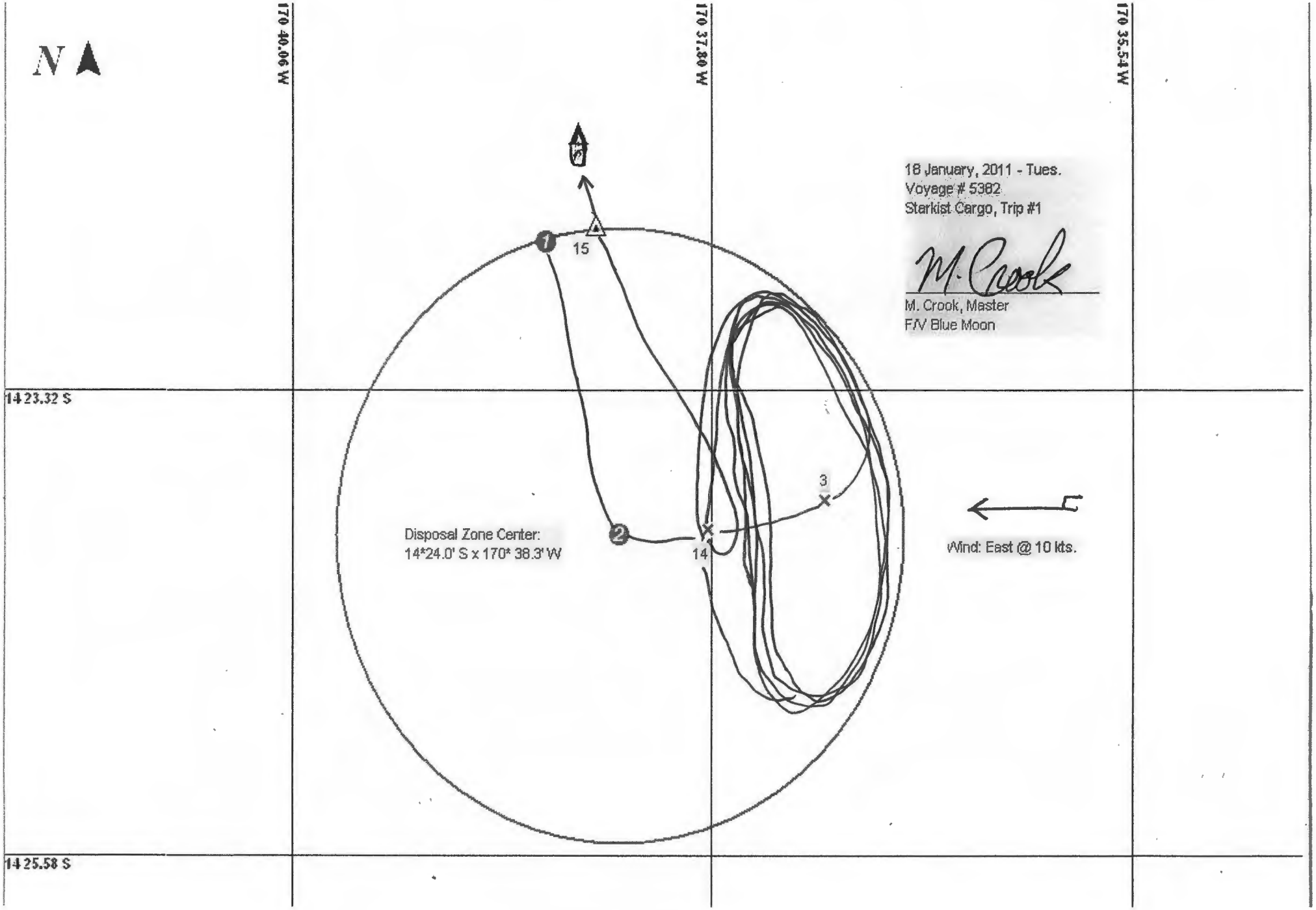
Total Discharge Time: 155 mins. Average Speed During Discharge: 9 kts. Total Time Run 4.9 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 98.6 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 40.06 W
170 37.80 W
170 35.54 W
14 23.32 S
14 25.58 S
18 January, 2011 - Tues.
Voyage # 5382
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: East @ 10 kts.
1
2
3
14
15

Date: 01/20/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5383

Permit # OD 93-01 & OD 93-02

	Time	
1/19	1545	Begin 1st Loading SK
	2130	Finish 1st Loading SK
1/20	0115	Begin 2nd Loading SK
	0215	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	191,750	Gallons
Other	0	Gallons
Total	191,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	NE-5	100	29.49			
0707	Arrive Edge of Zone	# 1	14*22.54' S	170*38.67' W	NE-10	"	"	East-1.0	8.8	160
0717	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.7	166
0725	Begin Discharge	# 3	14*23.41' S	170*37.42' W	" "	"	"	" " X	8.6	045
40		# 4	14*23.36' S	170*37.81' W			"		8.6	137
55	Remarks:	# 5	14*23.25' S	170*37.09' W			"		8.4	286
0810		# 6	14*23.03' S	170*38.31' W			"		9.1	134
25		# 7	14*23.98' S	170*36.88' W			"	5	8.7	351
40		# 8	14*22.63' S	170*38.30' W		"	"		8.7	206
55		# 9	14*23.54' S	170*37.21' W		90	"		8.9	344
0910		# 10	14*22.58' S	170*38.11' W		"	29.48		8.7	272
25		# 11	14*23.80' S	170*36.84' W	NE-12	"	"		9.0	336
40		# 12	14*22.67 S	170*38.10 W	" "	"	"	10	8.9	241
55		# 13	14*24.21' S	170*37.11 W	" "		"		9.3	136
1010		# 14	14*22.80' S	170*37.67' W	"	Light Rain	"		9.1	274
25		# 15	14*24.09' S	170*37.24' W	NE-15	100%	"		9.6	133
40		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1035	Finish Discharge	#16	14*23.11' S	170*37.11' W	NE-15	100%	29.48	East-1.0	9.3	331
1037	Exit Discharge Zone	#17	14*22.94' S	170*37.19' W	" "	"	"	" "	9.3	335
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

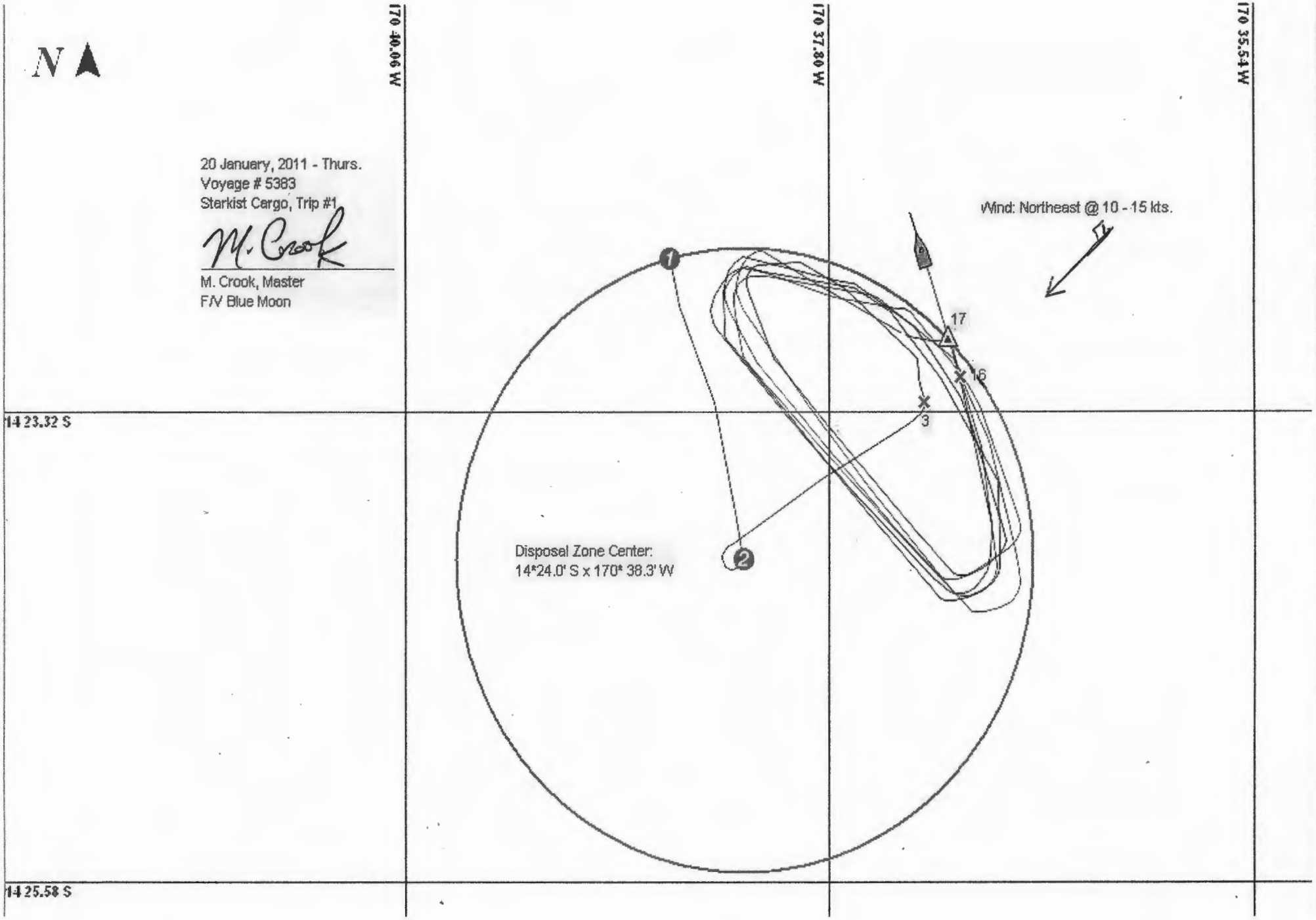
Total Discharge Time: 190 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 40.06 W
170 37.80 W
170 35.54 W
14 23.32 S
14 25.58 S
20 January, 2011 - Thurs.
Voyage # 5383
Sterkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Wind: Northeast @ 10 - 15 kts.
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
1
2
3
16
17

Date: 01/22/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5384

Permit # OD 93-01 & OD 93-02

Jan 21	Time	
	1520	Begin 1st Loading SK
	2120	Finish 1st Loading SK
22	0230	Begin 2nd Loading SK
	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded: SK 182,000 Gallons; Other 8 Gallons; Total 182,000 Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0620	Depart Starkist		14*16.50' S	170* 41.2' W	N-7	100	29.34			
0712	Arrive Edge of Zone	# 1	14*22.50' S	170*38.68' W	N-10	100	"	NE-1.0	9.0	161
0722	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	N-7	100-Rain		" "	9.0	164
0730	Begin Discharge	# 3	14*23.00' S	170*38.01 W	N-12	" "	29.35	NE-1.5 X	8.4	000
45		# 4	14*23.36' S	170*38.77' W	" "	100-o/c	"	" "	8.8	092
0800	Remarks:	# 5	14*23.12' S	170*37.17' W	" "	"	"	" "	8.6	311
15		# 6	14*22.95' S	170*39.21' W	NNE-12	"	"	" "	8.9	200
30		# 7	14*23.28' S	170*37.13' W	NNE-10	"	"	" " 5	8.5	006
45		# 8	14*22.87' S	170*39.01' W	NNE-5	"	"		9.3	241
0900		# 9	14*23.36' S	170*37.48' W		"	"		9.0	087
15		# 10	14*22.80' S	170*38.95' W		"	"		9.2	256
30		# 11	14*23.27' S	170*37.99' W		"	29.34		9.2	087
45		# 12	14*22.96' S	170*38.66' W		"	29.32	10	9.3	270
1000		# 13	14*23.40' S	170*38.08' W	NNE-15		"		9.2	086
15		# 14	14*22.76' S	170*37.76' W	N-15		"		9.4	269
30		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1030	Finish Discharge	#15	14*23.24 S	170*38.88' W	North-15	100%	29.32	NE-1.5	8.9	355
1035	Exit Discharge Zone	#16	14*22.70' S	170*38.93 W	" "	Rain-100	"	" "	9.0	356
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center South End of Discharge SSW Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 8.97 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cuob

N

170 41.40 W

170 38.02 W

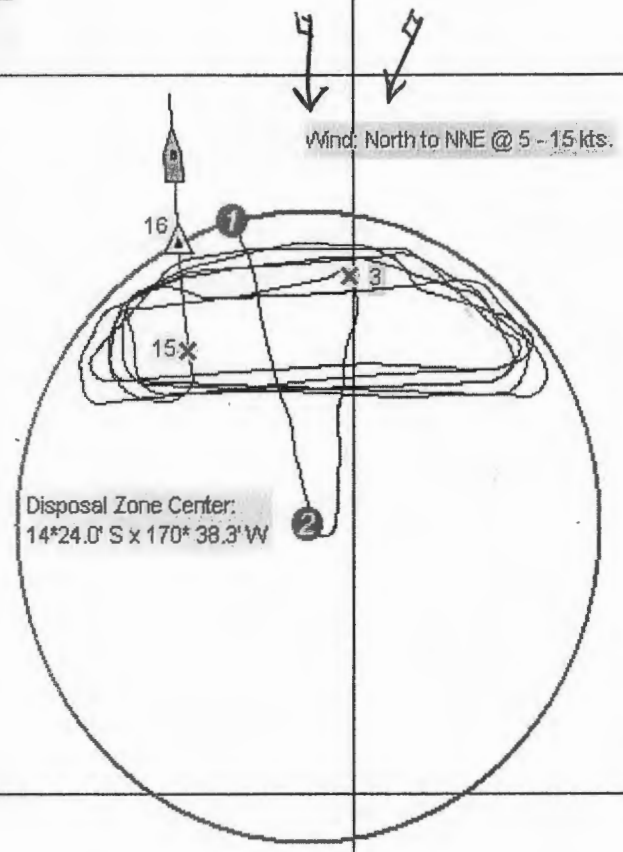
170 34.64 W

22 January, 2011 - Sat.
Voyage # 5384
Starkist Cargo, Trip #1

M. Crook

M. Crook, Master
F/V Blue Moon

14 21.90 S



14 25.28 S

Date: 01/27/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5385

Permit # OD 93-01 & OD 93-02

	Time	
1/26	1900	Begin 1st Loading SK
	2100	Finish 1st Loading SK
	0240	Begin 2nd Loading SK
1/27	0530	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	156,750	Gallons
Other	0	Gallons
Total	156,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0620	Depart Starkist		14*16.50' S	170* 41.2' W	East-10	100	29.52			
0710	Arrive Edge of Zone	# 1	14*22.52' S	170*38.68' W	ENE-15	"	29.53	East-1.0	8.9	161
0719	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	NE-15	"	29.54	" "	8.8	160
0728	Begin Discharge	# 3	14*23.53' S	170*37.32' W	NE-18	"	"	East-1.5X	8.0	045
" 43		# 4	14*23.16' S	170*38.14' W	" "	"	"	" "	8.5	141
" 58	Remarks:	# 5	14*24.10' S	170*36.83' W	" "	"	29.55		8.4	351
0813		# 6	14*22.84' S	170*38.45' W	NE-20	"	"		8.5	182
" 28		# 7	14*24.26' S	170*36.96' W			"	5	8.3	011
" 43		# 8	14*22.72' S	170*37.81' W			"		9.4	289
" 58		# 9	14*23.71' S	170*37.86' W			29.56		8.6	132
0913		# 10	14*23.85' S	170*36.87' W		RAIN	"		9.2	326
" 28		# 11	14*23.62' S	170*37.95' W		"	"		9.1	145
" 43		# 12	14*23.70' S	170*37.11' W		Light RAIN	29.57	10	8.8	341
" 58		# 13	14*22.91' S	170*33.49' W	NE-22	100	"		8.9	186
1013		# 14	14*24.36' S	170*37.13' W	" "	"	"		8.7	092
" 28		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1028	Finish Discharge	#15	14*23.11' S	170*37.33' W	NE-22	100%	29.58	East-1.5	9.3	321
1029	Exit Discharge Zone	#16	14*22.71' S	170*37.56' W	" "				9.3	329
1125	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

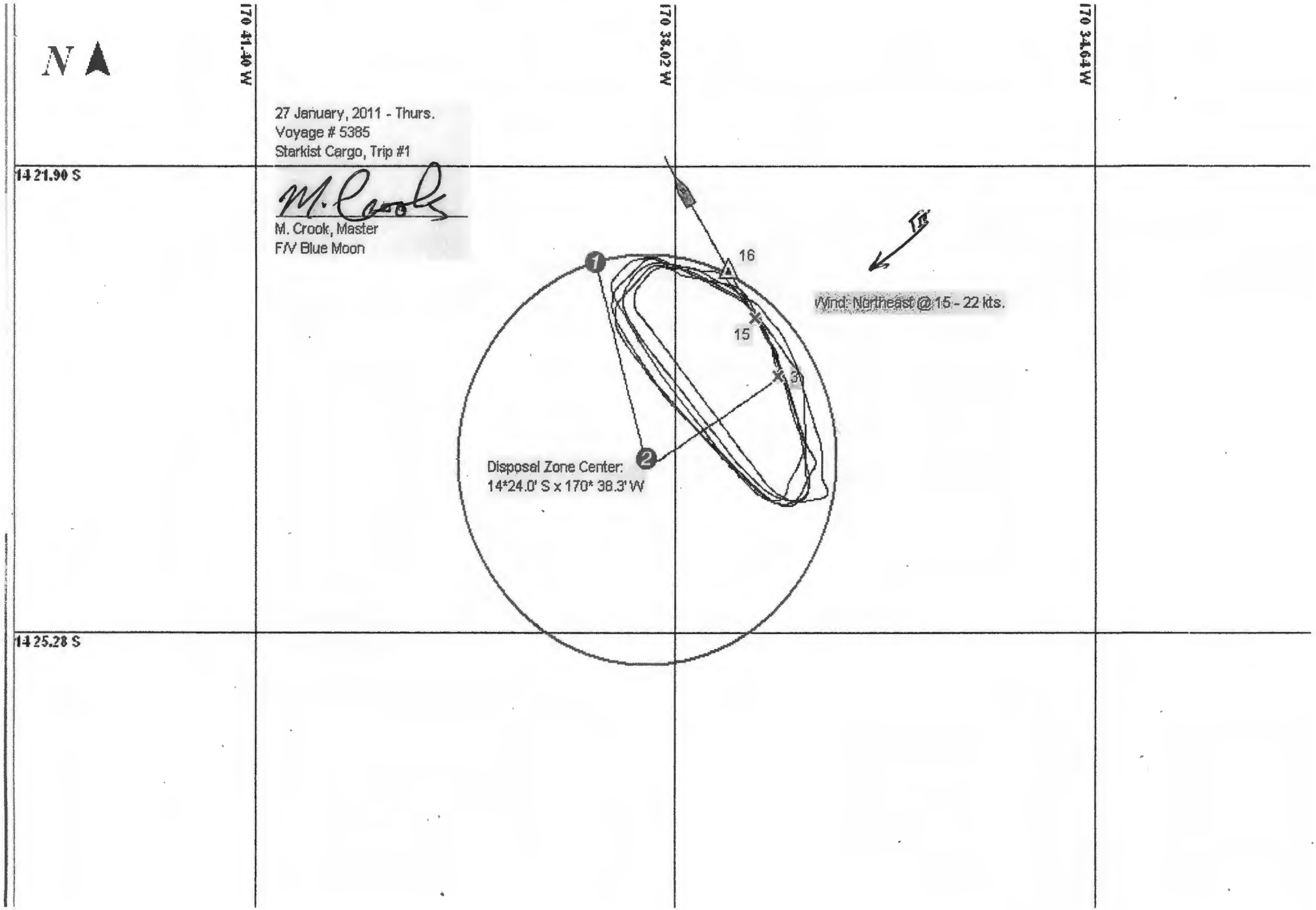
Total Discharge Time: 177 mins. Average Speed During Discharge: 8.75 kts. Total Time Run 5.10 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 101 Gallons/min/kt.

Unusuall Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
27 January, 2011 - Thurs.
Voyage # 5385
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
15
3
1
2
Wind: Northeast @ 15 - 22 kts.
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

Date: 01/29/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5386

Permit # OD 93-01 & OD 93-02

	Time	
1/28	1540	Begin 1st Loading SK
	2140	Finish 1st Loading SK
	/	Begin 2nd Loading SK
		Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	145,000	Gallons
	Other	0	Gallons
	Total	145,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0605	Depart Starkist		14*16.50' S	170* 41.2' W	East-10	90	29.61			
0658	Arrive Edge of Zone	# 1	14*22.57 S	170*38.67' W	East-15	"	29.62	East-1.5	8.8	162
0702	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	29.63	" "	8.6	164
0710	Begin Discharge	# 3	14*23.95' S	170*37.24' W	" "	80	29.64	" " X	8.4	090
25		# 4	14*23.44' S	170*37.75' W			"		8.8	179
40	Remarks:	# 5	14*24.78' S	170*37.23' W			"		8.5	028
55		# 6	14*23.41' S	170*37.72' W			"		8.2	181
0810		# 7	14*24.88' S	170*37.77' W			29.65	5	8.8	183
25		# 8	14*23.49' S	170*36.98' W			"		9.2	338
40		# 9	14*24.14' S	170*37.79' W			29.63		9.1	180
55		# 10	14*24.07' S	170*36.92' W			"		9.0	000
0910		# 11	14*23.19' S	170*37.78' W			"		9.1	182
25		# 12	14*24.70' S	170*37.12' W			"	10	9.0	021
40		# 13	14*23.13' S	170*37.71' W					9.1	181
55		# 14	14*2 S	170*3 W						
1010		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0950	Finish Discharge	#14	14*23.16' S	170*37.64' W	East-15	80%	29.63	East-1.5	9.3	334
0953	Exit Discharge Zone	#15	14*22.62' S	170*37.87' W	" "	"	"	" "	9.5	335
1050	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 160 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 4.75 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 102 Gallons/min/kt.

Unusuall Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M Cook

N

170 41.40 W

170 38.02 W

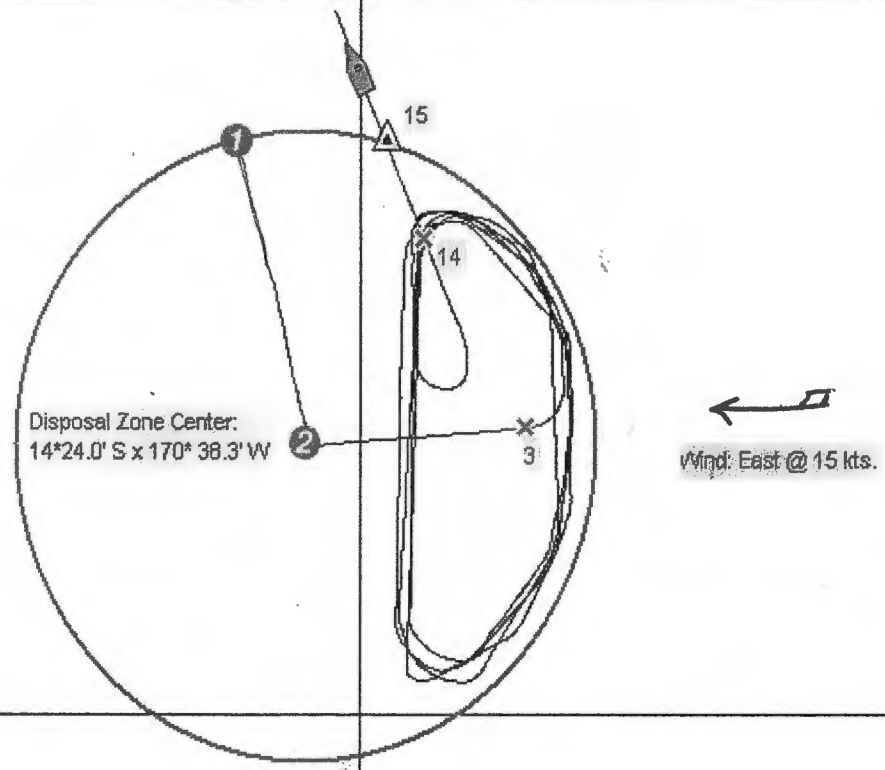
170 34.64 W

29 January, 2011 - Set.
Voyage # 5386
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon

14 21.90 S

14 25.28 S



OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON January, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	**TOTAL:**
	11	0	0	**11**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	**TOTAL:**
	1,925,750	0	0	**1,925,750**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	1,925,750	**0**

RUNNING TIME ON TRIPS: **56.1 hrs.**

DISCHARGE TIME ON TRIPS: **31.06 hrs.**

AV. GPM DISCHARGE RATE: **104 gal/min/kt**

AV. TRIP TIME: **5.10 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER : M. Crook

M. Crook

Date: 01/04/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5376

Permit # OD 93-01 & OD 93-02

	Time	
1/3	1800	Begin 1st Loading SK
	1930	Finish 1st Loading SK
1/4	0000	Begin 2nd Loading SK
	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	147,500	Gallons
Other	0	Gallons
Total	147,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0600	Depart Starkist		14*16.50' S	170* 41.2' W	East-7	90	29.56			
0650	Arrive Edge of Zone	# 1	14*22.53' S	170*38.67' W	East-10	100	29.57	E+SE-1.0	8.9	163
0700	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.9	165
0708	Begin Discharge	# 3	14*23.98' S	170*37.22' W	" "	"	29.58	" " X	8.5	090
" 23		# 4	14*23.64' S	170*37.75' W					8.7	181
" 38	Remarks:	# 5	14*24.58' S	170*37.09' W					8.5	007
" 53		# 6	14*23.17' S	170*37.66' W					8.7	184
0808		# 7	14*25.08' S	170*37.43' W				5	8.4	021
" 23		# 8	14*23.45' S	170*37.09' W	East-12				8.8	346
" 38		# 9	14*24.61' S	170*37.80' W					9.2	180
" 53		# 10	14*23.90' S	170*37.09' W					8.7	000
0908		# 11	14*24.05' S	170*37.78' W					9.2	183
" 23		# 12	14*24.21' S	170*37.00' W				10	9.1	002
" 38		# 13	14*23.24' S	170*37.65' W					8.8	182
" 53		# 14	14*24.71' S	170*37.22' W					9.1	021
1008		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1003	Finish Discharge	#15	14*23.50' S	170*37.25' W	East-12	100%	29.58	E+SE-1.0	9.2	332
1008	Exit Discharge Zone	#16	14*22.77' S	170*37.59' W	" "	"	"	" "	9.4	333
1100	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 175 mins. Average Speed During Discharge: 8.86 kts. Total Time Run 5.0 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 95.1 Gallons/min/kt.

Unusual Occurrences? Nav Computer down - Hand Drawn Plot.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 04 JANUARY, 2011 - Tues.

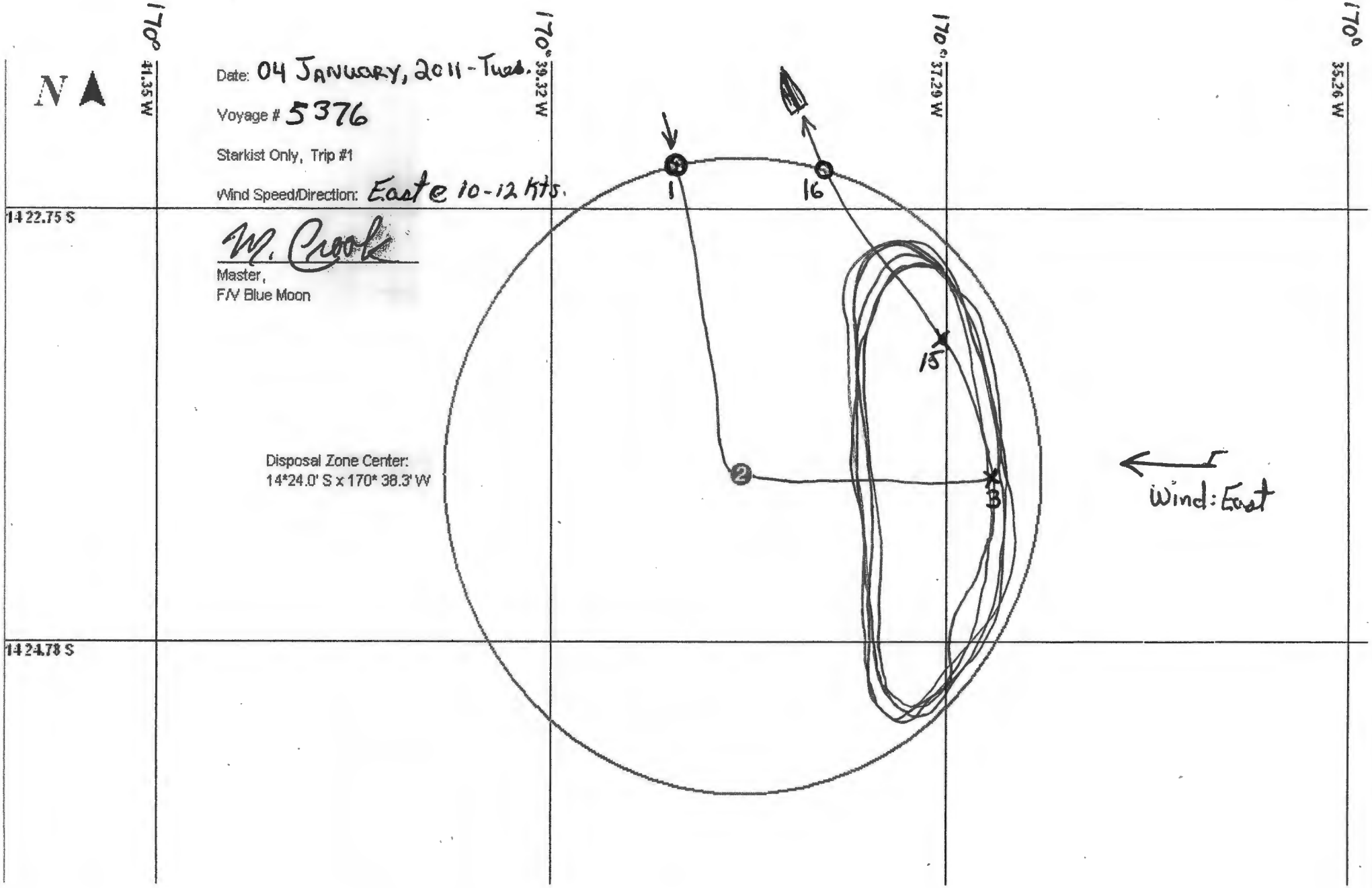
Voyage # 5376

Starkist Only, Trip #1

Wind Speed/Direction: East @ 10-12 kts.

M. Crook

Master,
F/V Blue Moon



Date: 01/06/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5377

Permit # OD 93-01 & OD 93-02

Time		
1700	Begin 1st Loading SK	
2135	Finish 1st Loading SK	
/	Begin 2nd Loading SK	
/	Finish 2nd Loading SK	

1/05

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	131,750	Gallons
	Other	0	Gallons
	Total	131,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
0620	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100	29.55	Metric	kts	True*
0713	Arrive Edge of Zone	# 1	14*22.51' S	170*38.71' W	NE-10	"	"	East-1.0	9.0	163
0722	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.8	161
0730	Begin Discharge	# 3	14*23.40' S	170*37.41' W	" "	"	"	" " X	8.5	045
45		# 4	14*23.55' S	170*37.71' W			"		8.7	133
0800	Remarks:	# 5	14*23.34' S	170*37.13' W			"		8.7	315
15		# 6	14*23.27' S	170*38.02' W			"		8.6	135
30		# 7	14*23.86' S	170*36.94' W			29.56	5	8.8	341
45		# 8	14*23.03' S	170*38.22' W					9.0	132
0900		# 9	14*23.57' S	170*36.91' W					9.1	326
15		# 10	14*22.67' S	170*38.16' W					9.2	270
30		# 11	14*24.07' S	170*36.92' W					9.3	316
45		# 12	14*22.98' S	170*33.16' W			29.57	10	9.1	140
1000		# 13	14*23.57' S	170*36.94' W			"		9.2	334
15		# 14	14*2 S	170*3 W						
30		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1010	Finish Discharge	#14	14*22.75' S	170*37.60' W	NE-10	100	29.57	East-1.0	9.4	322
1011	Exit Discharge Zone	#15	14*22.69' S	170*37.65' W	" "	"	"	" "	9.5	330
1105	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

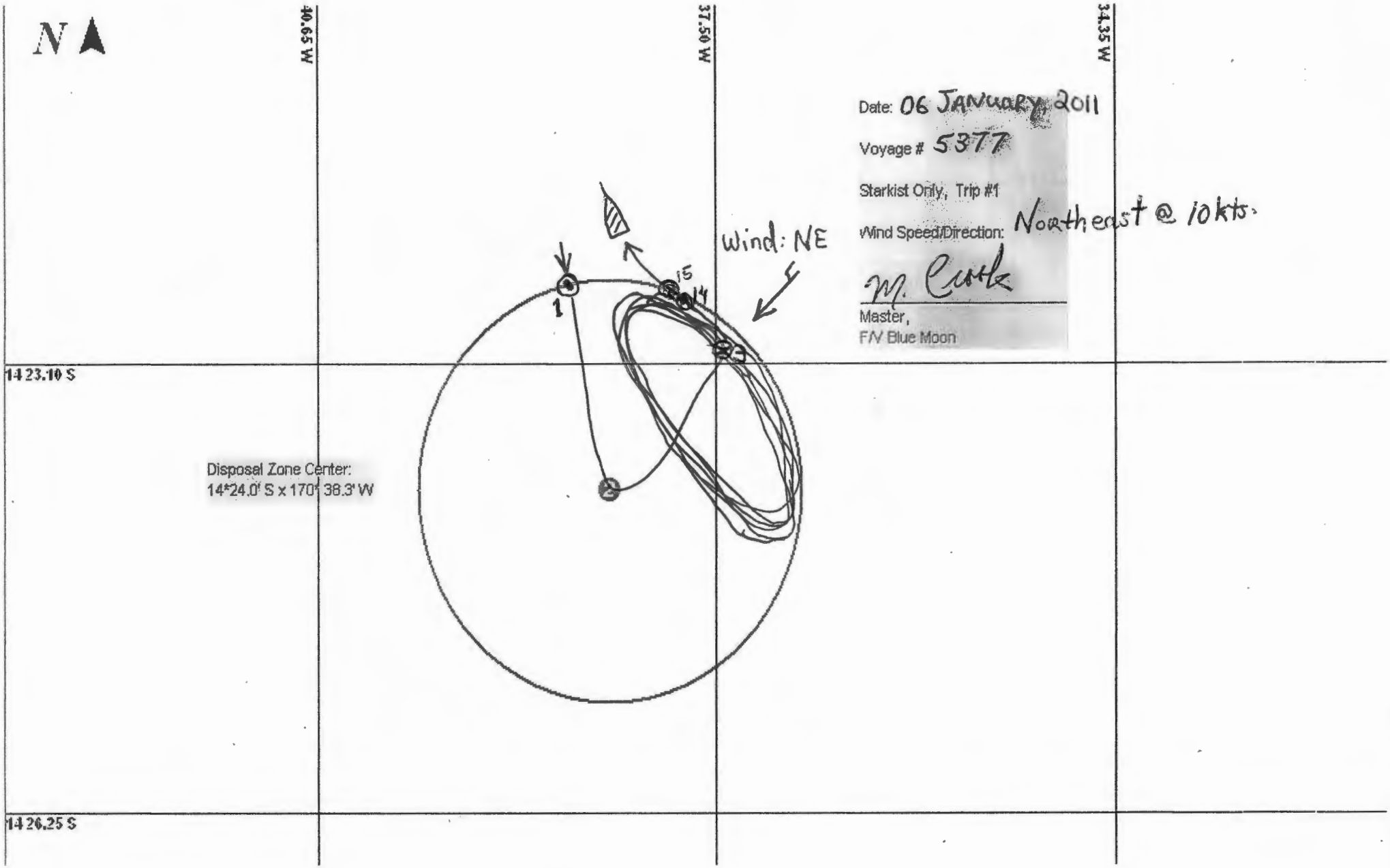
Total Discharge Time: 160 mins. Average Speed During Discharge: 8.96 kts. Total Time Run 4.75 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 92 Gallons/min/kt.

Unusual Occurrences? Hand drawn NAV Plot. NAV Computer down.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
40.65 W
37.50 W
34.35 W
14 23.10 S
14 26.25 S
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: NE
1
2
3
14
15
Date: 06 JANUARY 2011
Voyage # 5377
Starkist Only, Trip #1
Wind Speed/Direction: Northeast @ 10kts.
M. Cook
Master,
F/V Blue Moon

Date: 01/08/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5378

Permit # OD 93-01 & OD 93-02

17

Time	
1630	Begin 1st Loading SK
2130	Finish 1st Loading SK
/	Begin 2nd Loading SK
	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	147,000	Gallons
Other	0	Gallons
Total	147,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	NE-7	100-Rain	29.51			
0700	Arrive Edge of Zone	# 1	14*22.51' S	170*38.67' W	ENE-7	80	"	East-1.0	9.0	163
0710	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.8	160
0720	Begin Discharge	# 3	14*23.78' S	170*37.10' W	" "	90	"	" " X	8.5	042
" 35		# 4	14*23.55' S	170*37.86' W	" "		"		9.2	181
" 50	Remarks:	# 5	14*24.53' S	170*37.22' W	ENE-10		29.50		8.3	030
0805		# 6	14*22.81' S	170*37.55' W	" "		"		8.7	326
" 20		# 7	14*25.03' S	170*37.88' W	" "		"	5	8.5	174
" 35		# 8	14*23.68' S	170*36.91 W					9.3	001
" 50		# 9	14*25.51' S	170*37.90 W		80			9.6	180
0905		# 10	14*24.90' S	170*37.21' W					8.6	026
" 20		# 11	14*22.98' S	170*37.87' W					9.4	193
" 35		# 12	14*24.99' S	170*37.98' W				10	9.3	148
" 50		# 13	14*23.61' S	170*37.06' W					9.2	329
1005		# 14	14*2 S	170*3 W						
" 20		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1000	Finish Discharge	# 14	14*22.94' S	170*37.38 W	ENE-10	80%	29.50	East-1.0	9.7	323
1002	Exit Discharge Zone	# 15	14*22.76 S	170*37.47' W	" "	"	"	" "	9.7	324
1100	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 160 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 4.85 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 102 Gallons/min/kt.

Unusual Occurrences? Hand drawn Nav Plot - Nav Computer down.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 08 JAN., 2011- Sat.

Voyage # 5378

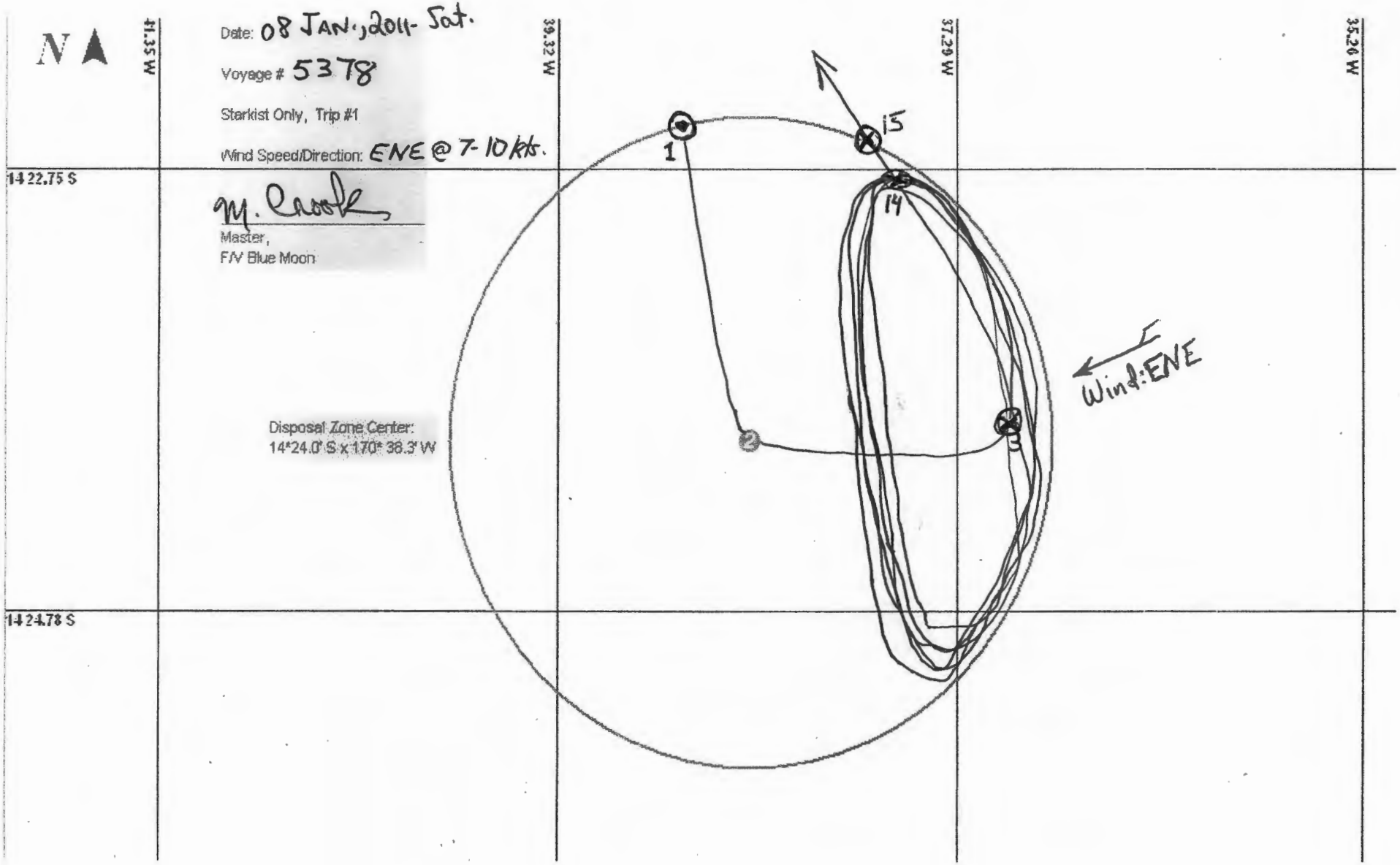
Starkist Only, Trip #1

Wind Speed/Direction: ENE @ 7-10 kts.

M. Crook

Master,
F/V Blue Moon

Disposal Zone Center:
14°24.0' S x 170° 38.3' W



Date: 01/11/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5379

Permit # OD 93-01 & OD 93-02

	Time	
1/10	1610	Begin 1st Loading SK
	2250	Finish 1st Loading SK
1/11	0000	Begin 2nd Loading SK
	0330	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	156,250	Gallons
Other	0	Gallons
Total	156,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	NW-7	100-Rain	29.51			
0700	Arrive Edge of Zone	# 1	14*22.52' S	170*38.68' W	NE-10	90	"	East-1.5	9.0	161
0708	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	80	"	" "	9.1	163
0715	Begin Discharge	# 3	14*23.33' S	170*37.42' W	" "	"	"	" " X	9.0	045
" 30		# 4	14*23.25' S	170*37.91 W		70	"		8.6	130
" 45	Remarks:	# 5	14*22.98' S	170*37.26' W		"	"		9.0	315
0800		# 6	14*23.43' S	170*37.85' W		"	"		8.7	127
" 15		# 7	14*23.30' S	170*37.09' W		"	"	5	9.1	326
" 30		# 8	14*23.31 S	170*37.81' W		60	29.50		8.9	126
" 45		# 9	14*23.26' S	170*37.21' W		"	"		9.0	322
0900		# 10	14*23.23 S	170*38.05 W		"			9.2	142
" 15		# 11	14*23.50' S	170*37.06' W		"			9.4	329
" 30		# 12	14*23.08' S	170*38.13' W		70		10	9.1	137
" 45		# 13	14*24.11' S	170*37.09' W		"			9.0	098
1000		# 14	14*2 S	170*3 W						
		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0955	Finish Discharge	#14	14*2 2.70' S	170*3 7.89 W	NE-10	80%	29.50	East-1.5	9.2	281
0958	Exit Discharge Zone	# 15	14*2 2. S	170*3 8.08 W	" "	"	"	"	9.4	324
1055	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

Total Discharge Time: 160 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 4.75 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 108.5 Gallons/min/kt.

Unusual Occurrences? Hand Drawn Nav Plot

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Poole

N

40.65 W

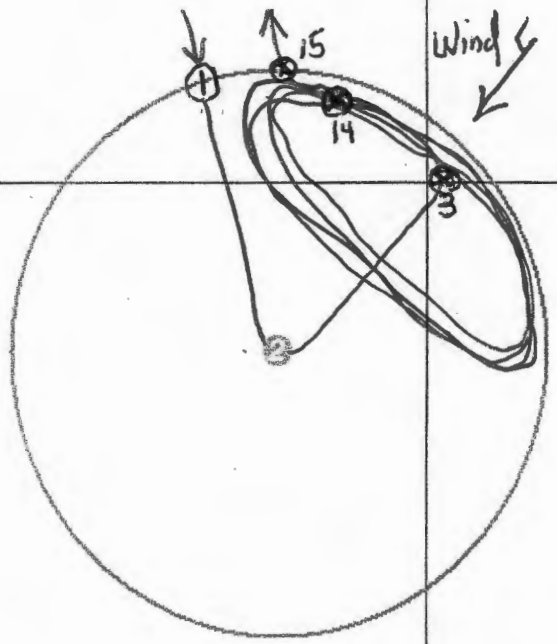
37.50 W

34.35 W

423.40 S

426.25 S

Disposal Zone Center:
14°24.0' S x 170° 38.3' W



Date: 11 JANUARY, 2011

Voyage # 5379

Starkist Only, Trip #1

Wind Speed/Direction: NE @ 10 kts.

M. Crooke

Master,
F/V Blue Moon

Date: 01/13/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5380

Permit # OD 93-01 & OD 93-02

	Time	
1/12	1530	Begin 1st Loading SK
	2115	Finish 1st Loading SK
	/	Begin 2nd Loading SK
		Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	160,750	Gallons
	Other	0	Gallons
	Total	160,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0520	Depart Starkist		14*16.50' S	170* 41.2' W	East-5	80	29.50			
0613	Arrive Edge of Zone	# 1	14*22.58' S	170*38.67' W	East-10	75	29.51	East@1.5	8.9	161
0622	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	90	29.52	" "	8.6	162
0645	Begin Discharge	# 3	14*23.97' S	170*36.91 W	" "	95	"	" " X	8.2	005
0700		# 4	14*23.64' S	170*37.59' W	" "	"	29.53	" "	8.6	184
15	Remarks:	# 5	14*24.58' S	170*36.97 W	"		"		8.5	007
30	*Monitoring	# 6	14*23.63' S	170*37.68' W	" "				8.8	181
45	Control Samples	# 7	14*24.95' S	170*37.34' W	" "	100		5	8.7	063
0800	drawn at 0635	# 8	14*23.11' S	170*37.17' W	" "	light Rain			8.8	317
15	@14° 24.00' S X	# 9	14*24.45' S	170*37.69' W	East-12	100			8.7	178
30	170° 37.18' W	# 10	14*23.70' S	170*36.90' W	" "				9.1	001
45		# 11	14*23.89' S	170*37.75' W	" "				9.1	182
0900		# 12	14*24.56' S	170*36.78' W	" "		29.52	10	9.0	006
15		# 13	14*23.26' S	170*37.67' W		95	"		9.3	179
30		# 14	14*25.01' S	170*37.48' W		"	"		8.7	065
45		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0937	Finish Discharge	#15	14*24.22' S	170*36.91 W	East-12	90%	29.52	East-1.5	9.1	354
1052	Exit Discharge Zone	#16	14*22.57' S	170*38.36' W	" "	"	29.51	" "	9.3	341
1145	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center (W)est End of Discharge West Discharge Pattern Ellipse

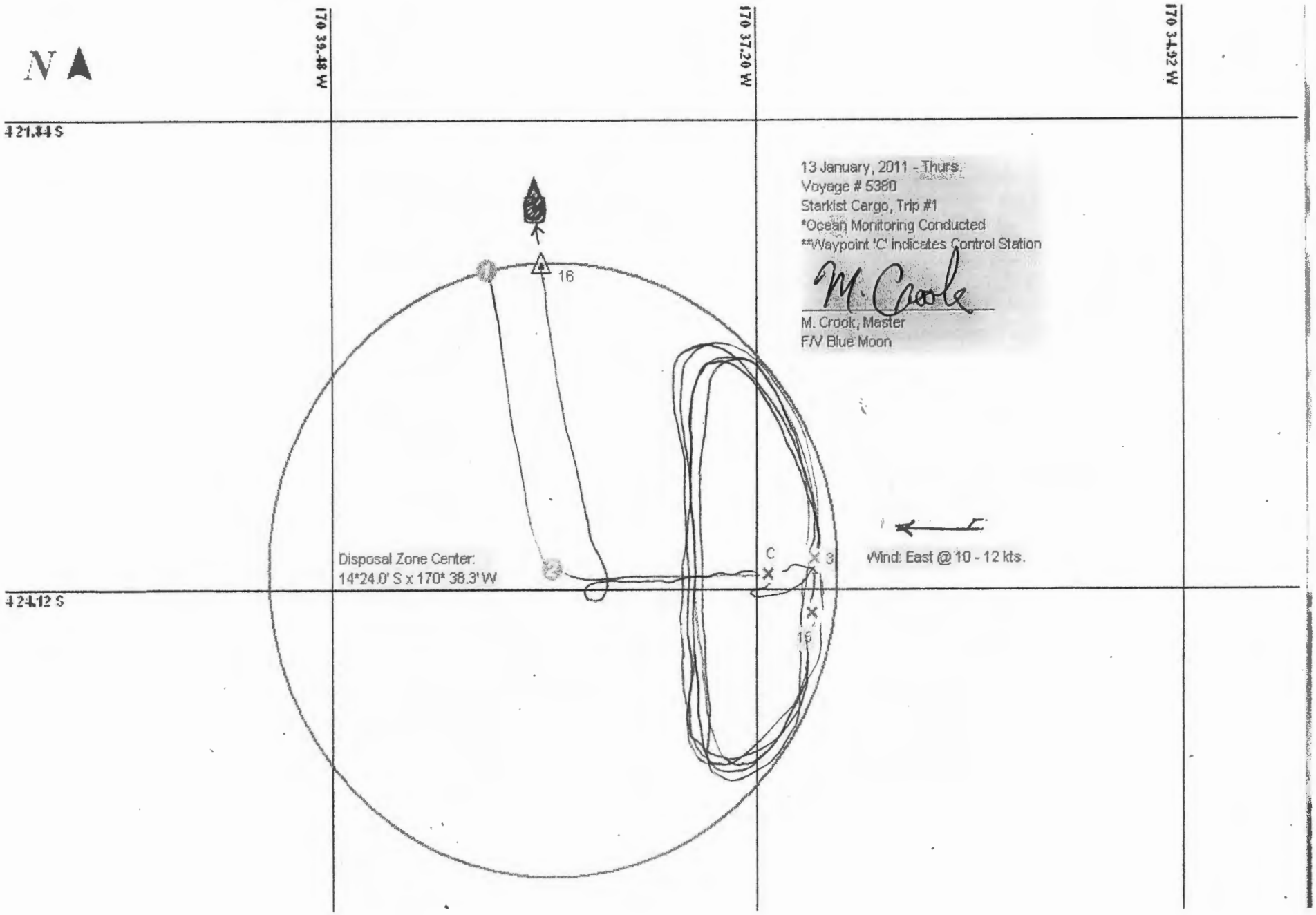
Total Discharge Time: 172 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 6.4 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 106 Gallons/min/kt.

Unusual Occurrences? Hand drawn NAV TRACK lines

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 39.48 W
170 37.20 W
170 34.92 W
421.84 S
424.12 S
13 January, 2011 - Thurs.
Voyage # 5360
Starkist Cargo, Trip #1
*Ocean Monitoring Conducted
**Waypoint 'C' indicates Control Station
M. Crook, Master
F/V Blue Moon
16
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
C
3
15
Wind: East @ 10 - 12 kts.

Date: 01/15/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5381

Permit # OD 93-01 & OD 93-02

	Time	
1/14	1515	Begin 1st Loading SK
	2030	Finish 1st Loading SK
1/15	0130	Begin 2nd Loading SK
	023	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	173,250	Gallons
Other	0	Gallons
Total	173,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	80%	29.62			
0700	Arrive Edge of Zone	# 1	14*22.53' S	170*38.69' W	ENE-10	"	29.62	East 2.0	8.7	161
0710	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	ENE-12	"	"	" "	8.5	156
0717	Begin Discharge	# 3	14*23.80 S	170*37.21' W	" "	"	"	" " X	8.5	090
" 32		# 4	14*23.84 S	170*37.58' W	" "	"	"		8.6	177
" 47	Remarks:	# 5	14*24.01' S	170*36.92' W			"		8.7	001
0802		# 6	14*23.45' S	170*37.61' W			29.61		8.5	179
" 17		# 7	14*24.34' S	170*36.89' W				5	8.6	000
" 32		# 8	14*23.20' S	170*37.81' W					8.7	181
" 47		# 9	14*24.61' S	170*37.10' W	M.C				8.8	047
0902		# 10	14*22.88' S	170*37.46 W	~~75%~~	75%			9.1	279
" 17		# 11	14*24.62' S	170*37.31' W	ENE-12				8.7	046
" 32		# 12	14*22.97' S	170*37.30' W	" "			10	9.1	304
" 47		# 13	14*24.41' S	170*37.74' W	ENE-10		29.60		9.3	176
1002		# 14	14*23.67' S	170*36.89' W	" "				9.2	331
17		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1012	Finish Discharge	#15	14*22.79' S	170*37.69' W	ENE-10	75%	29.60	East 2.0	9.0	270
1014	Exit Discharge Zone	#16	14*22.64' S	170*37.97 W	" "	"	"	" "	9.2	334
1110	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

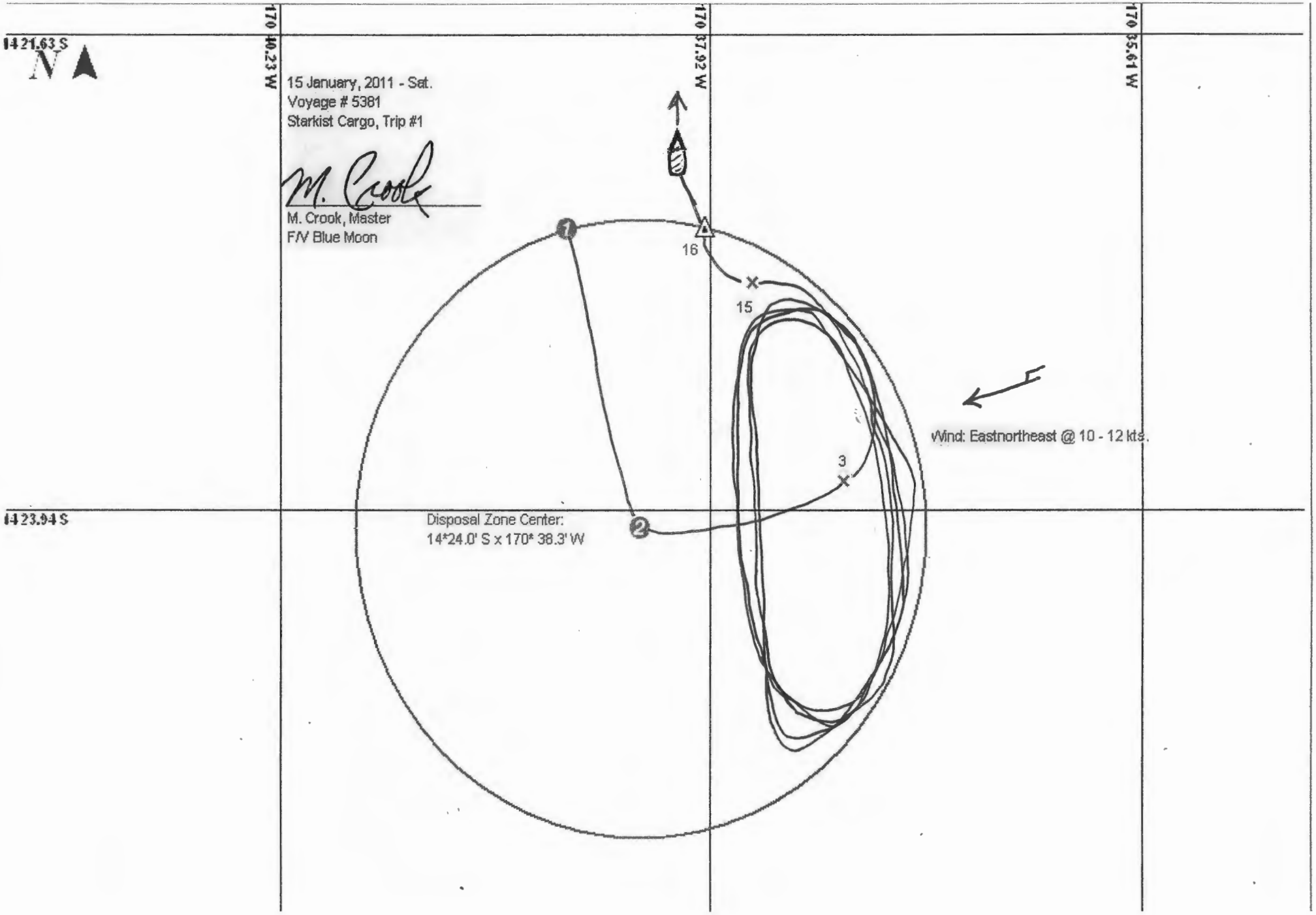
Total Discharge Time: 175 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.0 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112.5 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


170 40.23 W
170 37.92 W
170 35.61 W
14 21.63 S
14 23.94 S
N
15 January, 2011 - Sat.
Voyage # 5381
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
15
3
Wind: Eastnortheast @ 10 - 12 kts.
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

Date: 01/18/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5382

Permit # OD 93-01 & OD 93-02

	Time	
1/17	1700	Begin 1st Loading SK
	2030	Finish 1st Loading SK
	/	Begin 2nd Loading SK
		Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	137,500	Gallons
Other	0	Gallons
Total	137,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100%	29.51			
0707	Arrive Edge of Zone	# 1	14*22.57' S	170*38.68' W	East-10	"	29.52	East-1.0	9.0	159
0717	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	100-Rain	"	" "	8.9	161
0725	Begin Discharge	# 3	14*23.85' S	170*37.19' W	" "	100	"	" " X	9.0	090
" 40		# 4	14*24.00' S	170*37.64' W			"		8.9	178
" 55	Remarks:	# 5	14*23.97' S	170*36.90' W			"		8.9	000
0810		# 6	14*23.57 S	170*37.65' W					8.9	180
" 25		# 7	14*24.80' S	170*37.14' W				5	8.8	022
" 40		# 8	14*22.89' S	170*37.61' W					8.6	264
" 55		# 9	14*24.75' S	170*37.74' W					9.2	179
0910		# 10	14*23.71' S	170*36.88' W					9.1	348
" 25		# 11	14*23.92' S	170*37.75' W					9.5	177
" 40		# 12	14*24.06' S	170*36.96' W				10	9.3	012
" 55		# 13	14*23.23' S	170*37.87' W					9.2	180
1010		# 14	14*2 S	170*3 W						
" 25		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1000	Finish Discharge	#14	14*24.60' S	170*37.81' W	East-10	100%	29.52	East-1.0	9.3	181
1010	Exit Discharge Zone	#15	14*22.58 S	170*38.45 W					9.3	338
1110	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

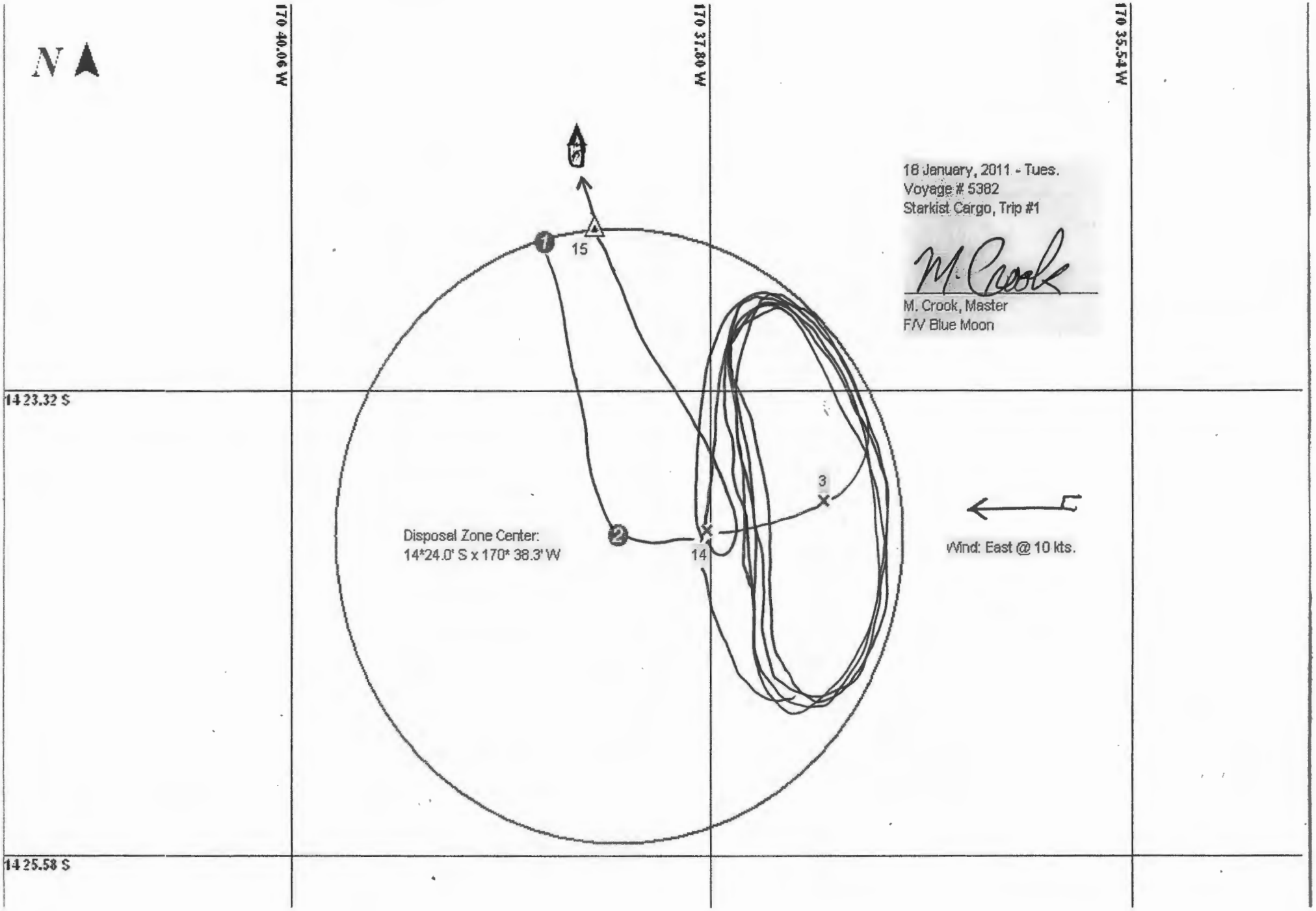
Total Discharge Time: 155 mins. Average Speed During Discharge: 9 kts. Total Time Run 4.9 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 98.6 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 40.06 W
170 37.80 W
170 35.54 W
14 23.32 S
14 25.58 S
18 January, 2011 - Tues.
Voyage # 5382
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
15
3
14
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: East @ 10 kts.

Date: 01/20/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5383

Permit # OD 93-01 & OD 93-02

	Time	
1/19	1545	Begin 1st Loading SK
	2130	Finish 1st Loading SK
1/20	0115	Begin 2nd Loading SK
	0215	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	191,750	Gallons
Other	0	Gallons
Total	191,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	NE-5	100	29.49			
0707	Arrive Edge of Zone	# 1	14*22.54' S	170*38.67' W	NE-10	"	"	East-1.0	8.8	160
0717	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.7	166
0725	Begin Discharge	# 3	14*23.41' S	170*37.42' W	" "	"	"	" " X	8.6	045
40		# 4	14*23.36' S	170*37.81' W			"		8.6	137
55	Remarks:	# 5	14*23.25' S	170*37.09' W			"		8.4	286
0810		# 6	14*23.03' S	170*38.31' W			"		9.1	134
25		# 7	14*23.98' S	170*36.88' W			"	5	8.7	351
40		# 8	14*22.63' S	170*38.30' W		"	"		8.7	206
55		# 9	14*23.54' S	170*37.21' W		90	"		8.4	344
0910		# 10	14*22.58' S	170*38.11' W		"	29.48		8.7	272
25		# 11	14*23.80' S	170*36.84' W	NE-12	"	"		9.0	336
40		# 12	14*22.67 S	170*38.10 W	" "	"	"	10	8.9	241
55		# 13	14*24.21' S	170*37.11 W	" "		"		9.3	136
1010		# 14	14*22.80' S	170*37.67' W	"	Light Rain	"		9.1	274
25		# 15	14*24.09' S	170*37.24' W	NE-15	100%	"		9.6	133
40		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1035	Finish Discharge	#16	14*23.11' S	170*37.11' W	NE-15	100%	29.48	East-1.0	9.3	331
1037	Exit Discharge Zone	#17	14*22.94' S	170*37.19' W	" "	"	"	" "	9.3	335
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

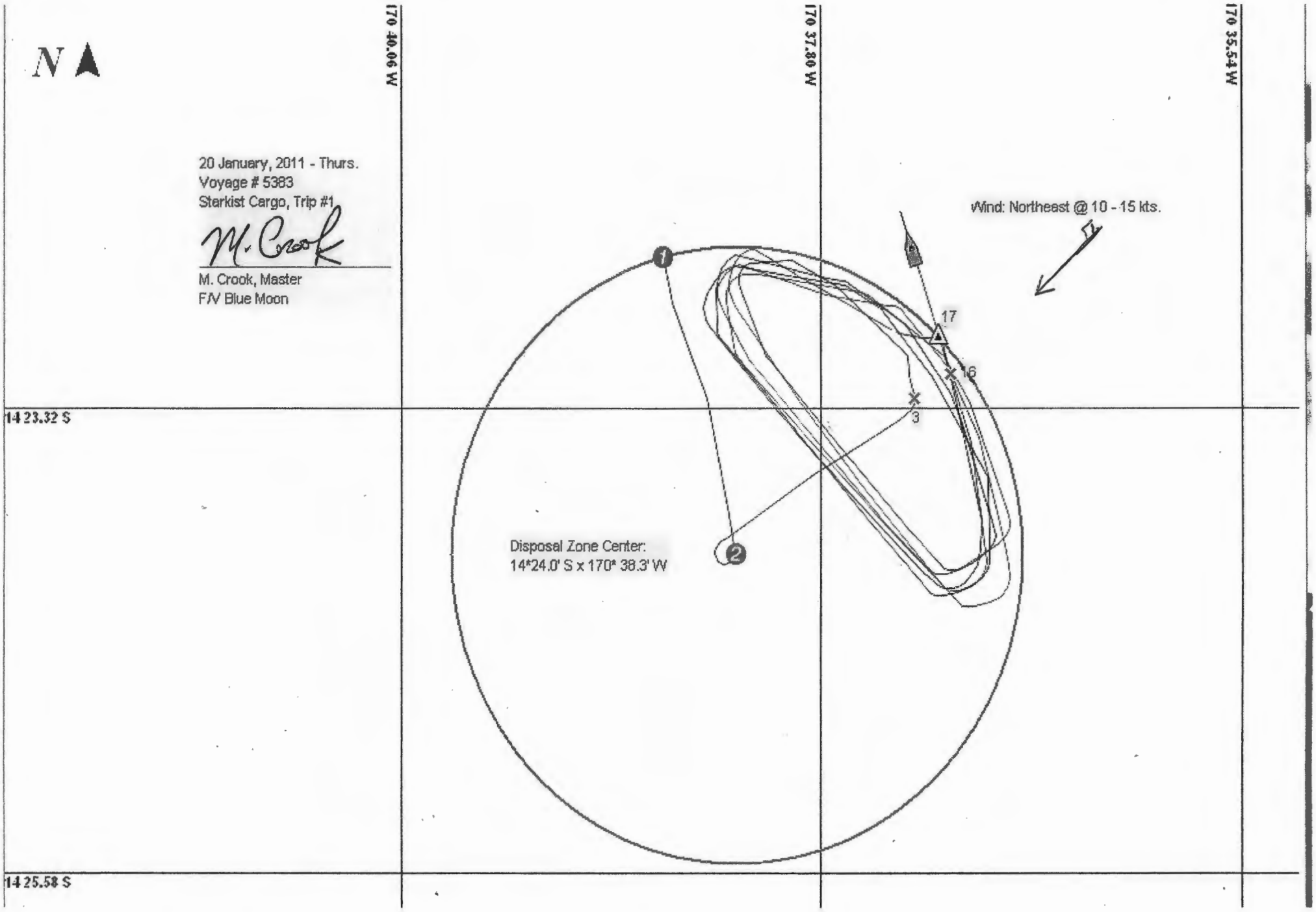
Total Discharge Time: 190 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 40.06 W
170 37.80 W
170 35.54 W
14 23.32 S
14 25.58 S
20 January, 2011 - Thurs.
Voyage # 5383
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Wind: Northeast @ 10 - 15 kts.
1
2
3
16
17
Disposal Zone Center:
14°24.0' S x 170° 38.3' W

Date: 01/22/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5384

Permit # OD 93-01 & OD 93-02

Jan	Time	
21	1520	Begin 1st Loading SK
	2120	Finish 1st Loading SK
22	0230	Begin 2nd Loading SK
	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	182,000	Gallons
Other	0	Gallons
Total	182,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0620	Depart Starkist		14*16.50' S	170* 41.2' W	N-7	100	29.34			
0712	Arrive Edge of Zone	# 1	14*22.50' S	170*38.68' W	N-10	100	"	NE-1.0	9.0	161
0722	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	N-7	100-RAIN		" "	9.0	164
0730	Begin Discharge	# 3	14*23.00' S	170*38.01' W	N-12	" "	29.35	NE-1.5 X	8.4	000
45		# 4	14*23.36' S	170*38.77' W	" "	100-o/c	"	" "	8.8	092
0800	Remarks:	# 5	14*23.12' S	170*37.17' W	" "	"	"	" "	8.6	311
15		# 6	14*22.95' S	170*39.21' W	NNE-12	"	"	" "	8.9	200
30		# 7	14*23.28' S	170*37.13' W	NNE-10	"	"	" " 5	8.5	006
45		# 8	14*22.87' S	170*39.04' W	NNE-5	"	"		9.3	241
0900		# 9	14*23.36' S	170*37.48' W		"	"		9.0	087
15		# 10	14*22.80' S	170*38.95' W		"	"		9.2	256
30		# 11	14*23.27' S	170*37.99' W		"	29.34		9.2	087
45		# 12	14*22.96' S	170*38.66' W		"	29.32	10	9.3	270
1000		# 13	14*23.40' S	170*38.18' W	NNE-15		"		9.2	086
15		# 14	14*22.76' S	170*37.76' W	N-15		"		9.4	269
30		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1030	Finish Discharge	#15	14*23.24 S	170*38.88' W	North-15	100%	29.32	NE-1.5	8.9	355
1035	Exit Discharge Zone	#16	14*22.70' S	170*38.93 W	" "	Rain-100	"	" "	9.0	356
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center South End of Discharge SSW Discharge Pattern Ellipse

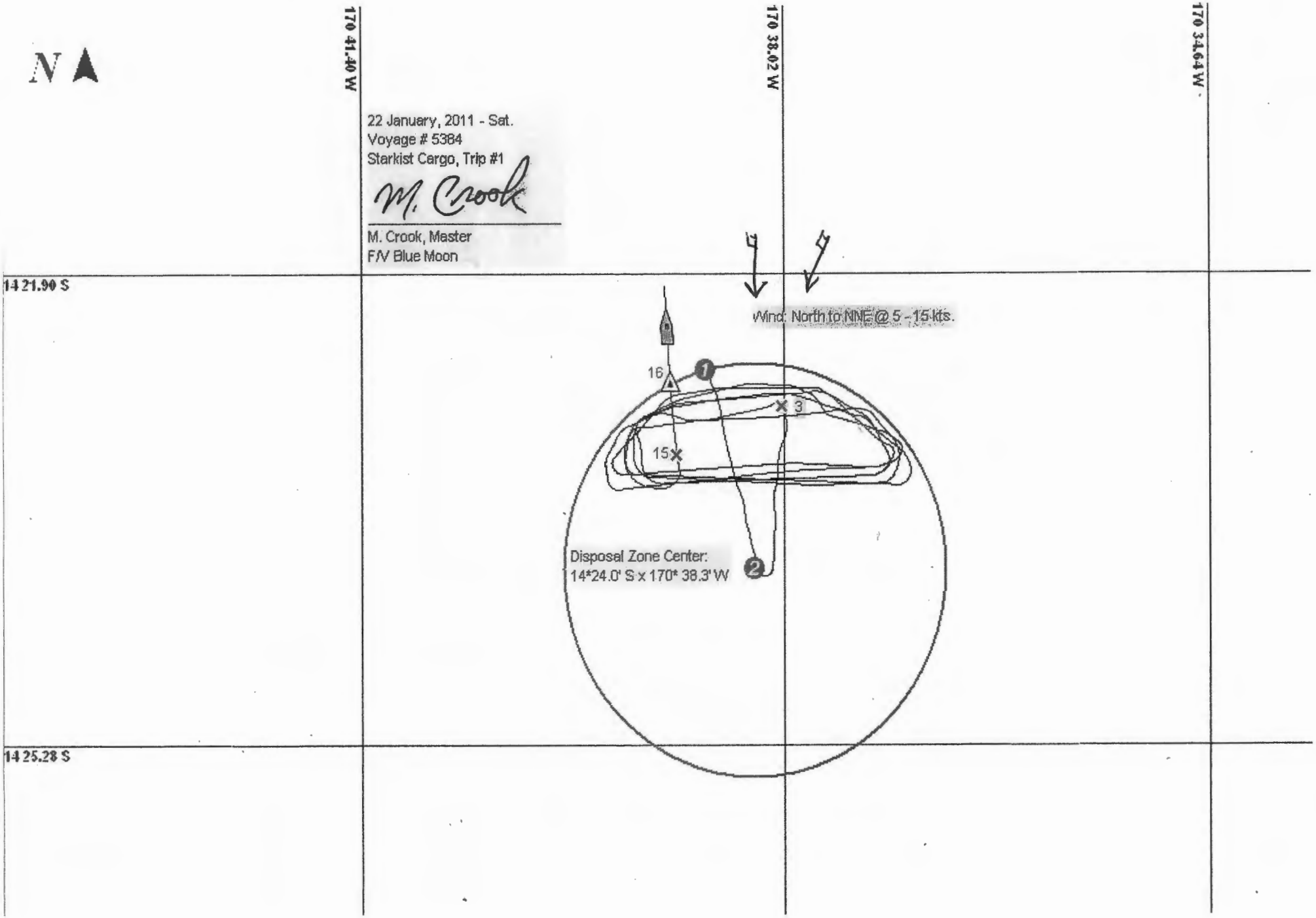
Total Discharge Time: 180 mins. Average Speed During Discharge: 8.97 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113 Gallons/min/kt.

Unusuall Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
22 January, 2011 - Sat.
Voyage # 5384
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Wind: North to NNE @ 5 - 15 kts.
16
3
15
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

Date: 01/27/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5385

Permit # OD 93-01 & OD 93-02

	Time	
1/26	1900	Begin 1st Loading SK
	2100	Finish 1st Loading SK
	0240	Begin 2nd Loading SK
1/27	0530	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	156,750	Gallons
	Other	0	Gallons
	Total	156,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0620	Depart Starkist		14*16.50' S	170* 41.2' W	East-10	100	29.52			
0710	Arrive Edge of Zone	# 1	14*22.52' S	170*38.68' W	ENE-15	"	29.53	East-1.0	8.7	161
0719	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	NE-15	"	29.54	" "	8.8	160
0728	Begin Discharge	# 3	14*23.53' S	170*37.32' W	NE-18	"	"	East-1.5X	8.0	045
" 43		# 4	14*23.16' S	170*38.14' W	" "	"	"	" "	8.5	141
" 58	Remarks:	# 5	14*24.10' S	170*36.83' W	" "	"	29.55		8.4	351
0813		# 6	14*22.84' S	170*38.45' W	NE-20	"	"		8.5	182
" 28		# 7	14*24.26' S	170*36.96' W			"	5	8.3	011
" 43		# 8	14*22.72' S	170*37.81' W			"		9.4	289
" 58		# 9	14*23.71' S	170*37.36' W			29.56		8.6	132
0913		# 10	14*23.85' S	170*36.87' W		RAIN	"		9.2	326
" 28		# 11	14*23.62' S	170*37.95' W		"	"		9.1	145
" 43		# 12	14*23.70' S	170*37.11' W		Light RAIN	29.57	10	8.8	341
" 58		# 13	14*22.91' S	170*33.49' W	NE-22	100	"		8.9	186
1013		# 14	14*24.36' S	170*37.13' W	" "	"	"		8.7	092
" 28		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1028	Finish Discharge	#15	14*23.11' S	170*37.33' W	NE-22	100%	29.58	East-1.5	9.3	321
1029	Exit Discharge Zone	#16	14*22.71' S	170*37.56' W	" "				9.3	329
1125	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

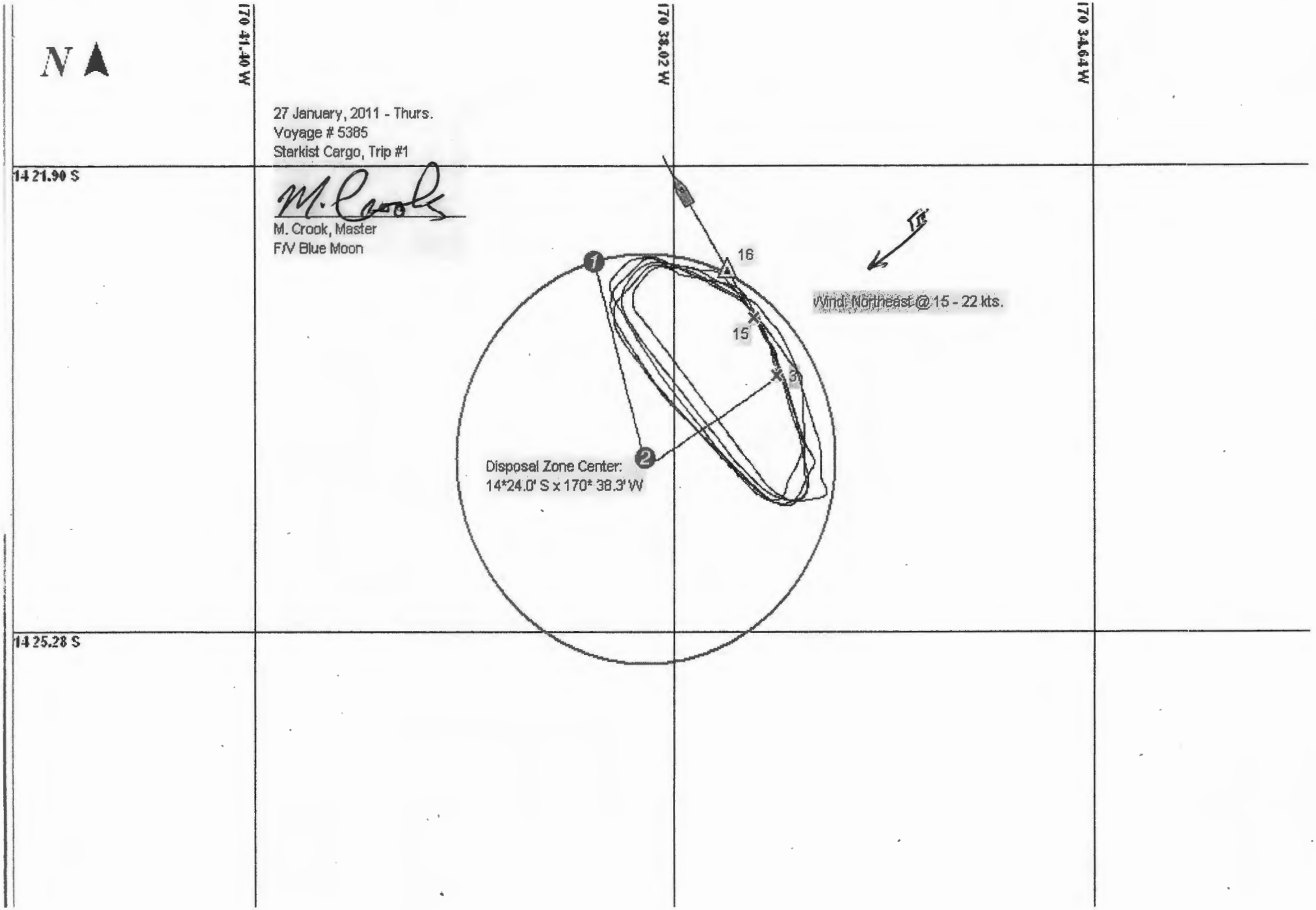
Total Discharge Time: 177 mins. Average Speed During Discharge: 8.75 kts. Total Time Run 5.10 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 101 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
27 January, 2011 - Thurs.
Voyage # 5385
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
15
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: Northeast @ 15 - 22 kts.

Date: 01/29/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5386

Permit # OD 93-01 & OD 93-02

	Time	
1/28	1540	Begin 1st Loading SK
	2140	Finish 1st Loading SK
		Begin 2nd Loading SK
	/	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	145,000	Gallons
	Other	0	Gallons
	Total	145,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0605	Depart Starkist		14*16.50' S	170* 41.2' W	East-10	90	29.61			
0652	Arrive Edge of Zone	# 1	14*22. 57 S	170*38. 67' W	East-15	"	29.62	East-1.5	8.8	162
0702	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	29.63	" "	8.6	164
0710	Begin Discharge	# 3	14*2 3.95' S	170*3 7.24' W	" "	80	29.64	" " X	8.4	090
25		# 4	14*2 3.44' S	170*3 7.75' W			"		8.8	179
40	Remarks:	# 5	14*2 4.78' S	170*3 7.23 W			"		8.5	028
55		# 6	14*2 3.41' S	170*3 7.72' W			"		8.2	181
0810		# 7	14*2 4.88' S	170*3 7.77' W			29.65	5	8.8	183
25		# 8	14*2 3.49' S	170*3 6.98' W			"		9.2	338
40		# 9	14*2 4.14' S	170*3 7.79' W			29.63		9.1	180
55		# 10	14*2 4.07' S	170*3 6.92' W			"		9.0	000
0910		# 11	14*2 3.19' S	170*3 7.78' W			"		9.1	182
25		# 12	14*2 4.70' S	170*3 7.12 W			"	10	9.0	021
40		# 13	14*2 3.13' S	170*3 7.71' W					9.1	181
55		# 14	14*2 S	170*3 W						
1010		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0950	Finish Discharge	#14	14*2 3.16' S	170*3 7.64' W	East-15	80%	29.63	East-1.5	9.3	334
0953	Exit Discharge Zone	#15	14*2 2.62' S	170*3 7.87' W	" "	"	"	" "	9.5	335
1050	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

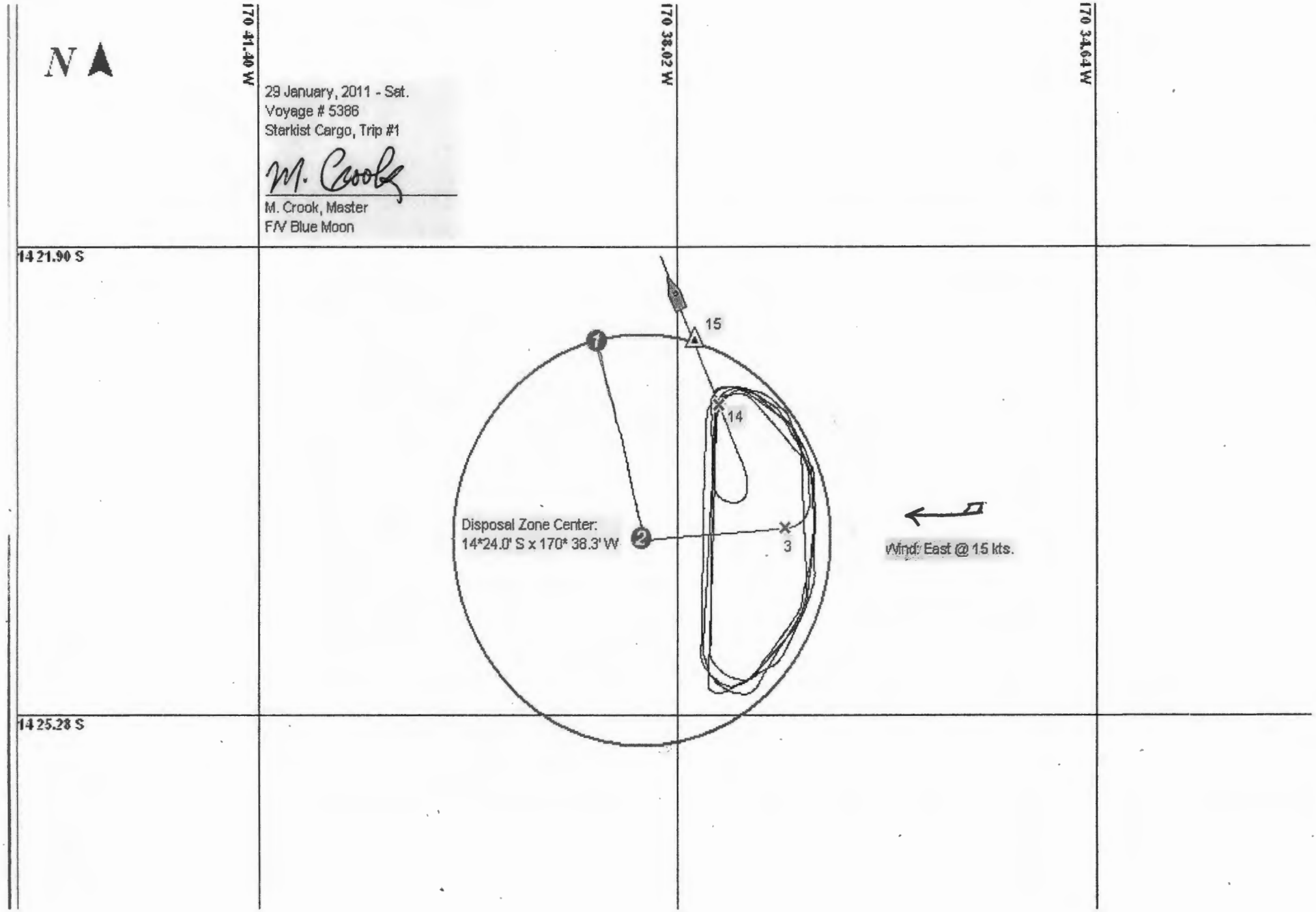
Total Discharge Time: 160 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 4.75 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 102 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
29 January, 2011 - Sat.
Voyage # 5386
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
15
14
3
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: East @ 15 kts.

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON January, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	11	0	0	**11**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	1,925,750	0	0	**1,925,750**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	1,925,750	**0**

RUNNING TIME ON TRIPS: **56.1 hrs.**

DISCHARGE TIME ON TRIPS: **31.06 hrs.**

AV. GPM DISCHARGE RATE: **104 gal/min/kt**

AV. TRIP TIME: **5.10 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER : M. Crook

M. Crook

Date: 01/04/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5376

Permit # OD 93-01 & OD 93-02

	Time	
1/3	1800	Begin 1st Loading SK
	1930	Finish 1st Loading SK
1/4	0000	Begin 2nd Loading SK
	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	147,500	Gallons
Other	0	Gallons
Total	147,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0600	Depart Starkist		14*16.50' S	170* 41.2' W	East-7	90	29.56			
0650	Arrive Edge of Zone	# 1	14*22.53' S	170*38.67' W	East-10	100	29.57	E+SE-1.0	8.9	163
0700	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.9	165
0708	Begin Discharge	# 3	14*23.98' S	170*37.22' W	" "	"	29.58	" " X	8.5	090
" 23		# 4	14*23.64' S	170*37.75' W					8.9	181
" 38	Remarks:	# 5	14*24.58' S	170*37.09' W					8.5	007
" 53		# 6	14*23.17' S	170*37.66' W					8.7	184
0808		# 7	14*25.08' S	170*37.43' W				5	8.4	021
" 23		# 8	14*23.45' S	170*37.09' W	East-12				8.8	346
" 38		# 9	14*24.61' S	170*37.80' W					9.2	180
" 53		# 10	14*23.90' S	170*37.09' W					8.9	000
0908		# 11	14*24.85' S	170*37.78' W					9.2	183
" 23		# 12	14*24.21' S	170*37.00' W				10	9.1	002
" 38		# 13	14*23.24' S	170*37.65' W					8.8	182
" 53		# 14	14*24.71' S	170*37.22' W					9.1	021
1008		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1003	Finish Discharge	#15	14*23.50' S	170*37.25' W	East-12	100%	29.58	E+SE-1.0	9.2	332
1008	Exit Discharge Zone	#16	14*22.77' S	170*37.54' W	" "	"	"	" "	9.4	333
1100	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 175 mins. Average Speed During Discharge: 8.86 kts. Total Time Run 5.0 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 95.1 Gallons/min/kt.

Unusual Occurrences? Nav Computer down - Hand Drawn Plot.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 04 JANUARY, 2011 - Tues.

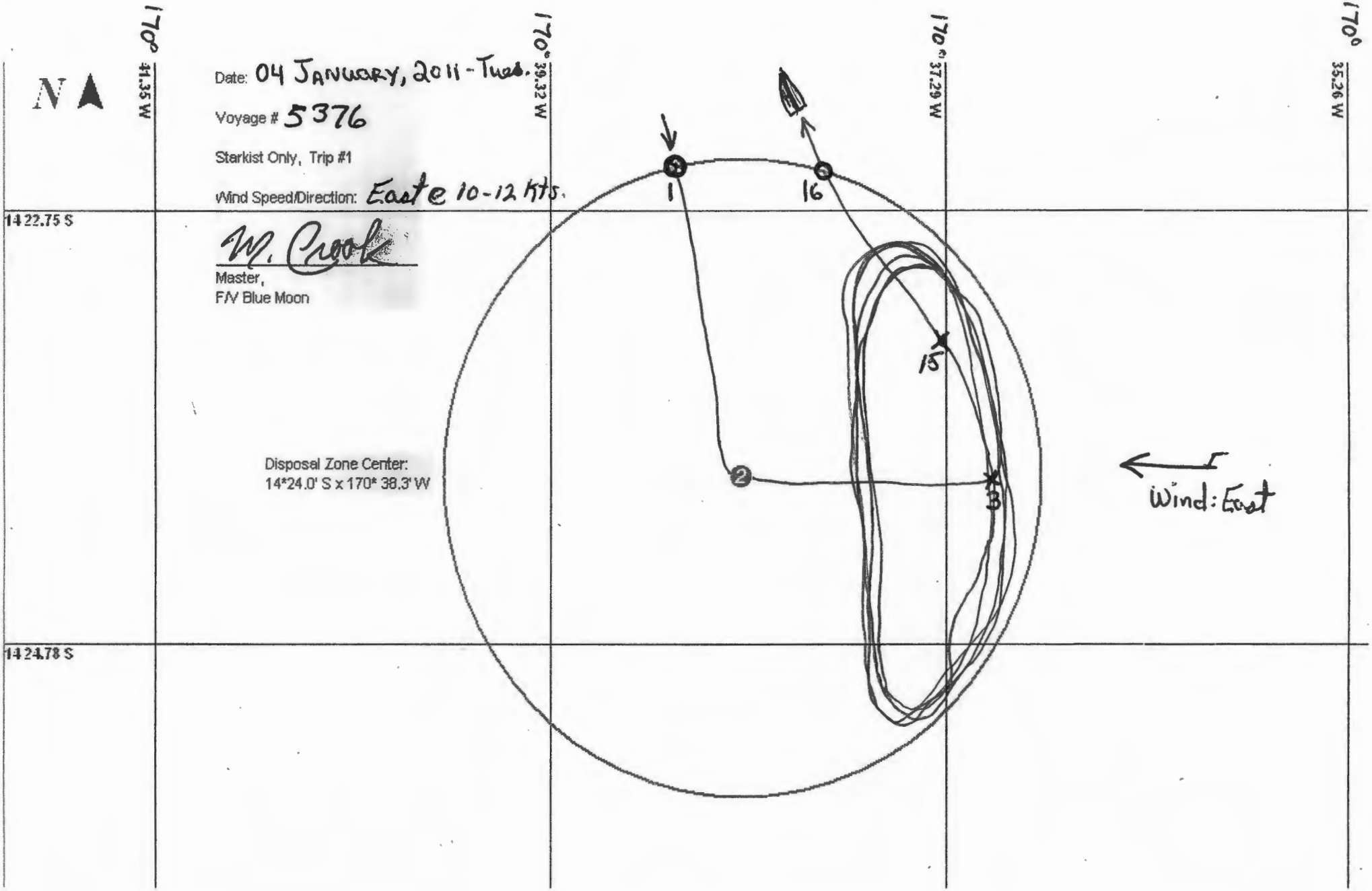
Voyage # 5376

Starkist Only, Trip #1

Wind Speed/Direction: East e 10-12 Kts.

M. Crook

Master,
F/V Blue Moon



Date: 01/06/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5377

Permit # OD 93-01 & OD 93-02

Time		
1/05 1700	Begin 1st Loading SK	
2135	Finish 1st Loading SK	
/	Begin 2nd Loading SK	
	Finish 2nd Loading SK	

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	131,750	Gallons
Other	0	Gallons
Total	131,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0620	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100	29.55			
0713	Arrive Edge of Zone	# 1	14*22.51' S	170*38.71' W	NE-10	"	"	East-1.0	9.0	163
0722	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.8	161
0730	Begin Discharge	# 3	14*23.40' S	170*37.41' W	" "	"	"	" " X	8.5	045
45		# 4	14*23.55' S	170*37.71' W			"		8.7	133
0800	Remarks:	# 5	14*23.34' S	170*37.13' W			"		8.7	315
15		# 6	14*23.27' S	170*38.02' W			"		8.6	135
30		# 7	14*23.86' S	170*36.94' W			29.56	5	8.8	341
45		# 8	14*23.03' S	170*38.22' W					9.0	132
0900		# 9	14*23.57' S	170*36.91' W					9.1	326
15		# 10	14*22.67' S	170*38.16' W					9.2	270
30		# 11	14*24.07' S	170*36.92' W					9.3	316
45		# 12	14*22.98' S	170*33.16' W			29.57	10	9.1	140
1000		# 13	14*23.57' S	170*36.94' W			"		9.2	334
15		# 14	14*2 S	170*3 W						
30		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1010	Finish Discharge	#14	14*22.75' S	170*37.60' W	NE-10	100	29.57	East-1.0	9.4	322
1011	Exit Discharge Zone	#15	14*22.69' S	170*37.65' W	" "	"	"	" "	9.5	330
1105	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

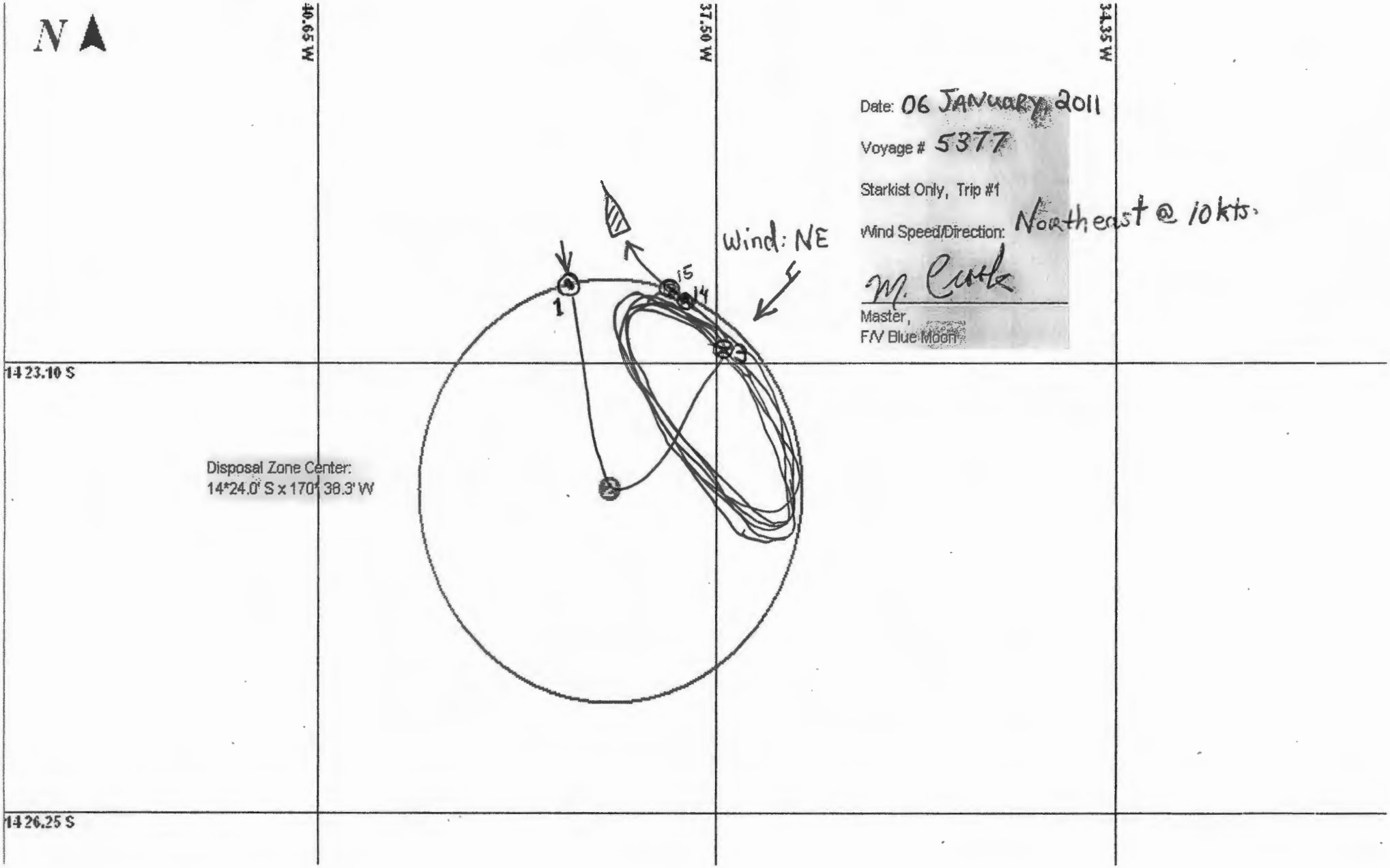
Total Discharge Time: 160 mins. Average Speed During Discharge: 8.96 kts. Total Time Run 4.75 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 92 Gallons/min/kt.

Unusual Occurrences? Hand drawn Nav Plot. Nav Computer down.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook



Date: 06 JANUARY 2011

Voyage # 5377

Starkist Only, Trip #1

Wind Speed/Direction: Northeast @ 10 kts.

M. Curtis

Master,
F/V Blue Moon

Date: 01/08/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5378

Permit # OD 93-01 & OD 93-02

17

Time	
1630	Begin 1st Loading SK
2130	Finish 1st Loading SK
/	Begin 2nd Loading SK
	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	147,000	Gallons
Other	0	Gallons
Total	147,000	Gallons

		WP#	GPS Position				Wind	% Clouds	Barometer	Swell	Speed	Course
										Metric	kts	True*
0610	Depart Starkist		14*16.50'	S	170* 41.2'	W	NE-7	100-Rain	29.51			
0700	Arrive Edge of Zone	# 1	14*22.51'	S	170*38.67'	W	ENE-7	80	"	East-1.0	9.0	163
0710	Arrive Zone Center	# 2	14*24.0	S	170*38.3	W	" "	"	"	" "	8.8	160
0720	Begin Discharge	# 3	14*23.78'	S	170*37.10'	W	" "	90	"	" " X	8.5	042
" 35		# 4	14*23.55'	S	170*37.86'	W	" "		"		9.2	181
" 50	Remarks:	# 5	14*24.53'	S	170*37.22'	W	ENE-10		29.50		8.3	030
0805		# 6	14*22.81'	S	170*37.55'	W	" "		"		8.7	326
" 20		# 7	14*25.03'	S	170*37.88'	W	" "		"	5	8.5	174
" 35		# 8	14*23.68'	S	170*36.91	W					9.3	001
" 50		# 9	14*25.51'	S	170*37.90	W		80			9.6	180
0905		# 10	14*24.90'	S	170*37.21'	W					8.6	026
" 20		# 11	14*22.98'	S	170*37.87'	W					9.4	193
" 35		# 12	14*24.99'	S	170*37.78'	W				10	9.3	148
" 50		# 13	14*23.61'	S	170*37.05'	W					9.2	329
1005		# 14	14*2	S	170*3	W						
" 20		# 15	14*2	S	170*3	W						
		# 16	14*2	S	170*3	W						
		# 17	14*2	S	170*3	W				15		
		# 18	14*2	S	170*3	W						
		# 19	14*2	S	170*3	W						
		# 20	14*2	S	170*3	W						
			14*2	S	170*3	W						
			14*2	S	170*3	W				20		
			14*2	S	170*3	W						
1000	Finish Discharge	# 14	14*22.94'	S	170*37.38	W	ENE-10	80%	29.50	East-1.0	9.7	323
1002	Exit Discharge Zone	# 15	14*22.76	S	170*37.47'	W	" "	"	"	" "	9.7	324
1100	Secure SK Dock		14*16.50'	S	170*41.2'	W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 160 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 4.85 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 102 Gallons/min/kt.

Unusual Occurrences? Hand drawn Nav Plot - Nav Computer down.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 08 JAN., 2011- Sat.

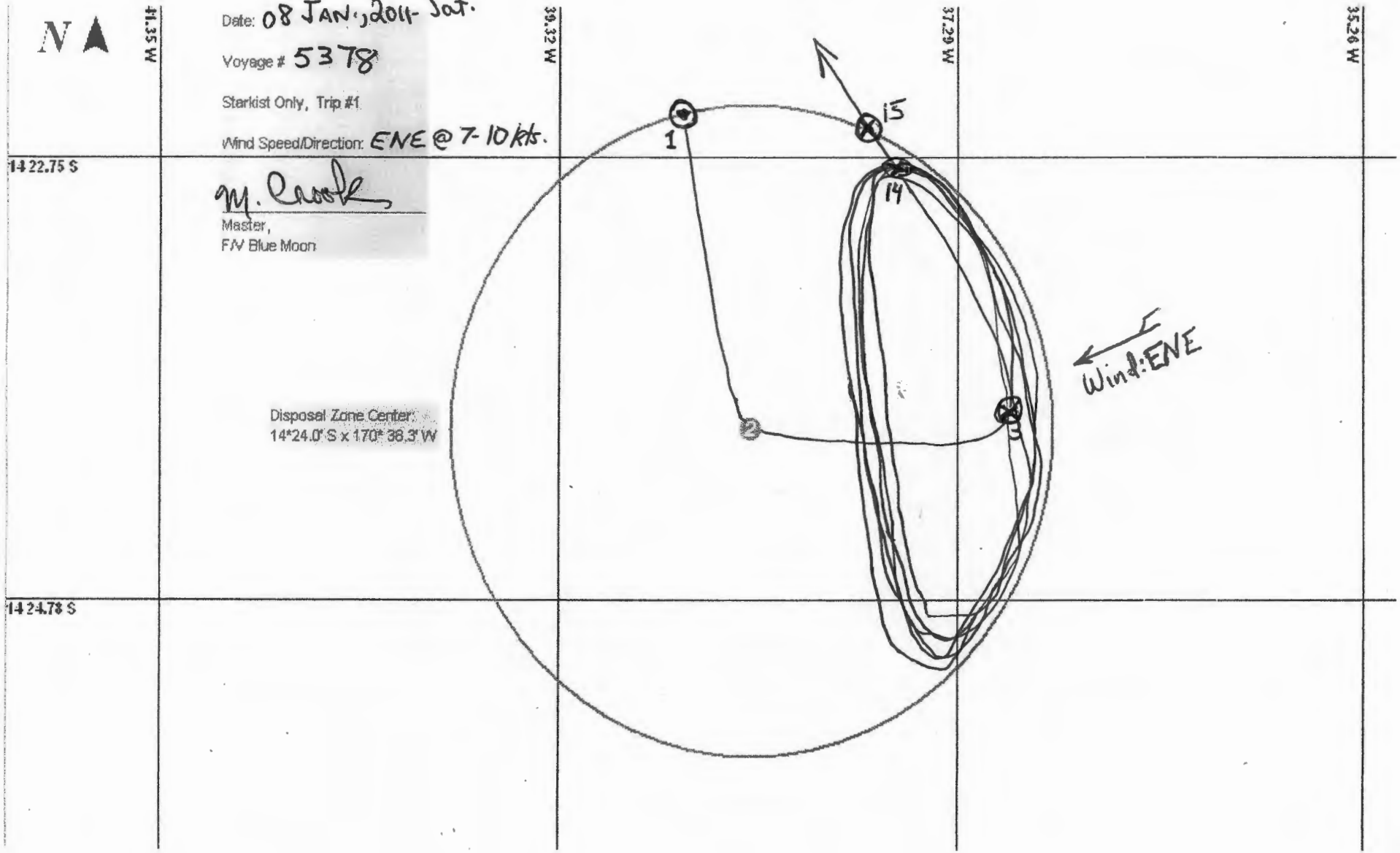
Voyage # 5378

Starkist Only, Trip #1

Wind Speed/Direction: ENE @ 7-10 kts.

M. Crook

Master,
F/V Blue Moon



Date: 01/11/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5379

Permit # OD 93-01 & OD 93-02

	Time	
1/10	1610	Begin 1st Loading SK
	2250	Finish 1st Loading SK
1/11	0000	Begin 2nd Loading SK
	0330	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	156,250	Gallons
Other	0	Gallons
Total	156,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	NW-7	100-Rain	29.51			
0700	Arrive Edge of Zone	# 1	14*22.52' S	170*38.68' W	NE-10	90	"	East-1.5	9.0	161
0708	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	80	"	" "	9.1	163
0715	Begin Discharge	# 3	14*23.33' S	170*37.42' W	" "	"	"	" " X	9.0	045
" 30		# 4	14*23.25' S	170*37.91 W		70	"		8.6	130
" 45	Remarks:	# 5	14*22.98' S	170*37.26' W		"	"		9.0	315
0800		# 6	14*23.43' S	170*37.85' W		"	"		8.7	127
" 15		# 7	14*23.30' S	170*37.09' W		"	"	5	9.1	326
" 30		# 8	14*23.31 S	170*37.81' W		60	29.50		8.7	126
" 45		# 9	14*23.26' S	170*37.21' W		"	"		9.0	322
0900		# 10	14*23.23 S	170*38.05 W		"			9.2	142
" 15		# 11	14*23.50' S	170*37.06' W		"			9.4	329
" 30		# 12	14*23.08' S	170*38.13' W		70		10	9.1	137
" 45		# 13	14*24.11' S	170*37.04' W		"			9.0	098
1000		# 14	14*2 S	170*3 W						
		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0955	Finish Discharge	#14	14*22.70' S	170*37.89 W	NE-10	80%	29.50	East-1.5	9.2	281
0958	Exit Discharge Zone	# 15	14*22. S	170*38.08 W	" "	"	"	"	9.4	324
1055	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

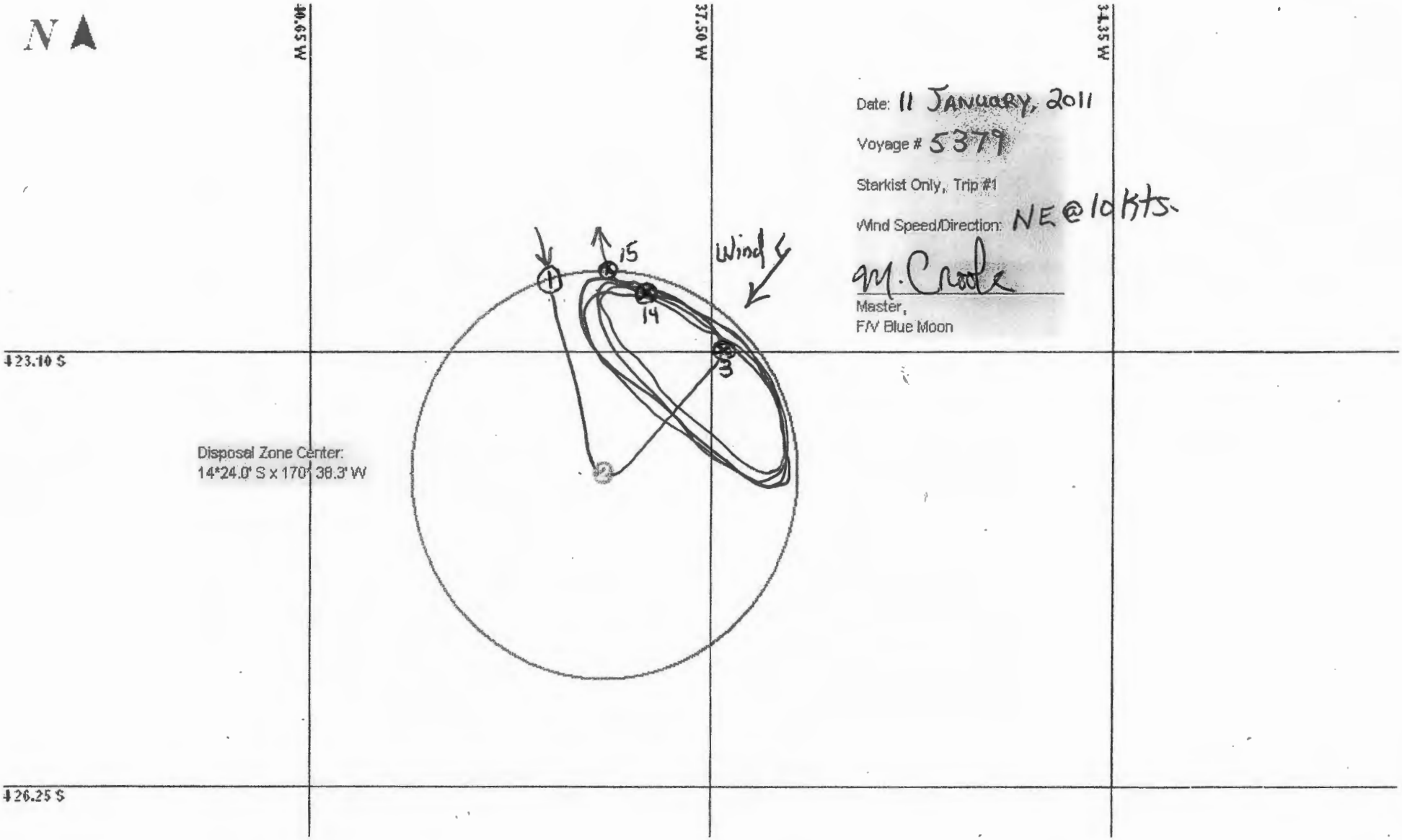
Total Discharge Time: 160 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 4.75 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 108.5 Gallons/min/kt.

Unusual Occurrences? Hand Drawn Nav Plot

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cooke



Date: 11 JANUARY, 2011

Voyage # 5379

Starkist Only, Trip #1

Wind Speed/Direction: NE @ 10 Kts.

M. Crooke

Master,
F/V Blue Moon

Date: 01/13/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5380

Permit # OD 93-01 & OD 93-02

	Time	
1/12	1530	Begin 1st Loading SK
	2115	Finish 1st Loading SK
		Begin 2nd Loading SK
		Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	160,750	Gallons
	Other	0	Gallons
	Total	160,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0520	Depart Starkist		14*16.50' S	170* 41.2' W	East - 5	80	29.50			
0613	Arrive Edge of Zone	# 1	14*22.58' S	170*38.67' W	East - 10	75	29.51	East@1.5	8.9	161
0622	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	90	29.52	" "	8.6	162
0645	Begin Discharge	# 3	14*23.97' S	170*36.91 W	" "	95	"	" " X	8.2	005
0700		# 4	14*23.64' S	170*37.59' W	" "	"	29.53	" "	8.6	184
15	Remarks:	# 5	14*24.58' S	170*36.97 W	"		"		8.5	007
30	*Monitoring	# 6	14*23.63' S	170*37.68' W	" "				8.8	181
45	Control Samples	# 7	14*24.95' S	170*37.34' W	" "	100		5	8.7	063
0800	drawn at 0635	# 8	14*23.11' S	170*37.17' W	" "	light Rain			8.8	317
15	@14° 24.00' S X	# 9	14*24.45' S	170*37.69' W	East-12	100			8.7	178
30	170° 37.18' W	# 10	14*23.70' S	170*36.90' W	" "				9.1	001
45		# 11	14*23.89' S	170*37.75' W	" "				9.1	182
0900		# 12	14*24.56' S	170*36.78' W	" "		29.52	10	9.0	006
15		# 13	14*23.26' S	170*37.67' W		95	"		9.3	179
30		# 14	14*25.01' S	170*37.48' W		"	"		8.7	065
45		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0937	Finish Discharge	#15	14*24.22' S	170*36.91 W	East-12	90%	29.52	East-1.5	9.1	354
1052	Exit Discharge Zone	#16	14*22.57' S	170*38.36' W	" "	"	29.51	" "	9.3	341
1145	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

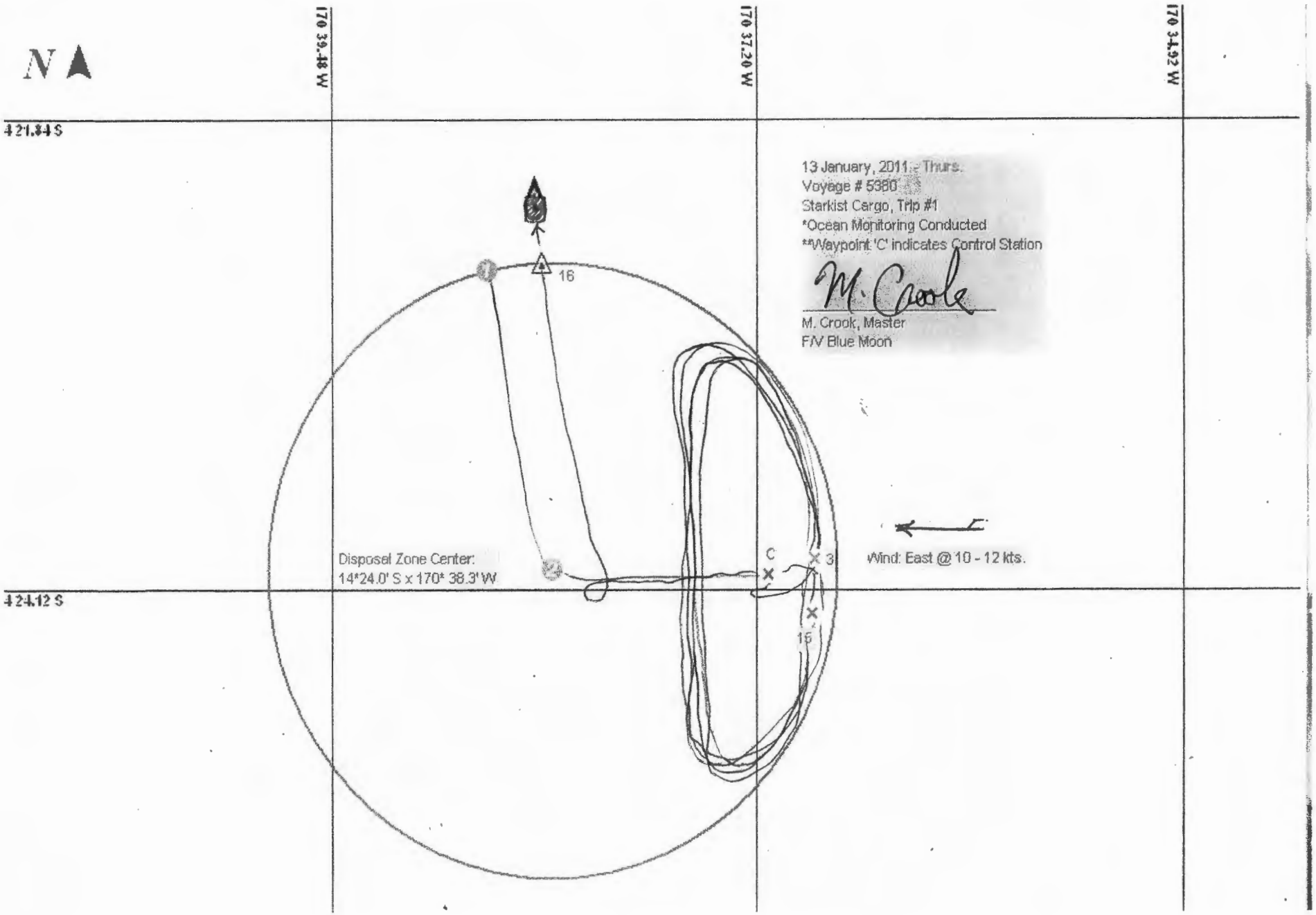
Total Discharge Time: 172 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 6.4 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 106 Gallons/min/kt.

Unusual Occurrences? Hand drawn NAV TRACK lines

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 39.48 W
170 37.20 W
170 34.92 W
421.84 S
424.12 S
13 January, 2011 - Thurs.
Voyage # 5380
Starkist Cargo, Trip #1
*Ocean Monitoring Conducted
**Waypoint 'C' indicates Control Station
M. Crook, Master
F/V Blue Moon
16
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
C
3
15
Wind: East @ 10 - 12 kts.

Date: 01/15/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5381

Permit # OD 93-01 & OD 93-02

	Time	
1/14	1515	Begin 1st Loading SK
	2030	Finish 1st Loading SK
1/15	0130	Begin 2nd Loading SK
	023	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	173,250	Gallons
Other	0	Gallons
Total	173,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	80%	29.62			
0700	Arrive Edge of Zone	# 1	14*22.53' S	170*38.69' W	ENE-10	"	29.62	East 2.0	8.7	161
0710	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	ENE-12	"	"	" "	8.5	156
0717	Begin Discharge	# 3	14*23.80 S	170*37.21 W	" "	"	"	" " X	8.5	090
" 32		# 4	14*23.84 S	170*37.58' W	" "	"	"		8.6	177
" 47	Remarks:	# 5	14*24.01' S	170*36.92' W			"		8.7	001
0802		# 6	14*23.45' S	170*37.61' W			29.61		8.5	179
" 17		# 7	14*24.34' S	170*36.89' W				5	8.6	000
" 32		# 8	14*23.20' S	170*37.81' W					8.7	181
" 47		# 9	14*24.61' S	170*37.10' W	M.C				8.8	047
0902		# 10	14*22.88' S	170*37.46' W	~~75%~~	75%			9.1	279
" 17		# 11	14*24.62' S	170*37.31' W	ENE-12				8.7	046
" 32		# 12	14*22.97' S	170*37.30' W	" "			10	9.1	304
" 47		# 13	14*24.41' S	170*37.74' W	ENE-10		29.60		9.3	176
1002		# 14	14*23.67' S	170*36.89' W	" "				9.2	331
17		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1012	Finish Discharge	#15	14*22.79' S	170*37.69' W	ENE-10	75%	29.60	East 2.0	9.0	270
1014	Exit Discharge Zone	#16	14*22.64' S	170*37.77 W	" "	"	"	" "	9.2	334
1110	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

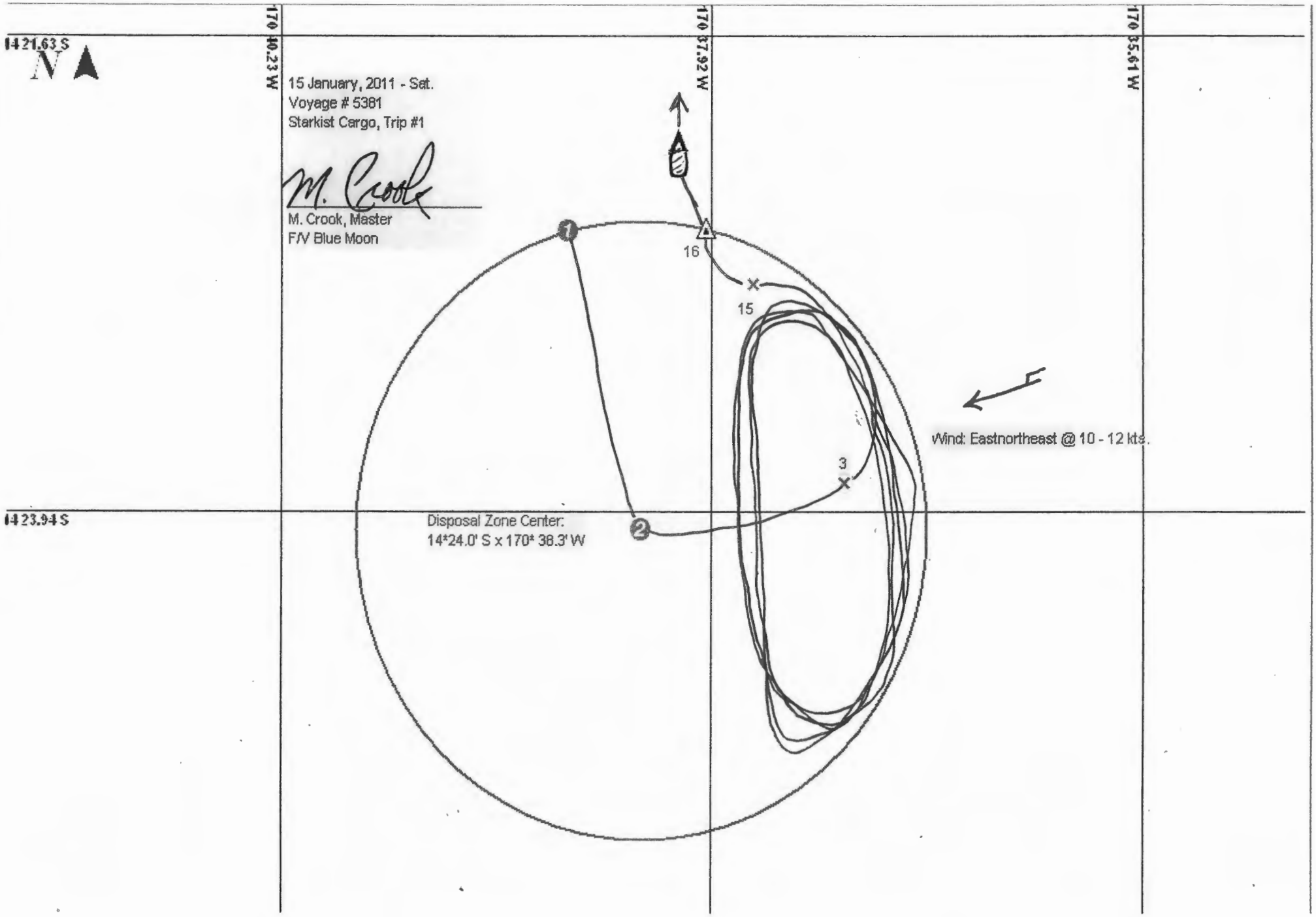
Total Discharge Time: 175 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.0 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112.5 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cooke


14 21.63 S
N
170 40.23 W
170 37.92 W
170 35.61 W
14 23.94 S
15 January, 2011 - Sat.
Voyage # 5381
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
1
2
3
15
16
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: Eastnortheast @ 10 - 12 kts.

Date: 01/18/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5382

Permit # OD 93-01 & OD 93-02

	Time	
1/17	1700	Begin 1st Loading SK
	2030	Finish 1st Loading SK
	/	Begin 2nd Loading SK
	/	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	137,500	Gallons
Other	0	Gallons
Total	137,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100%	29.51			
0707	Arrive Edge of Zone	# 1	14*22.57' S	170*38.68' W	East-10	"	29.52	East-1.0	9.0	159
0717	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	100-Rain	"	" "	8.9	161
0725	Begin Discharge	# 3	14*23.85' S	170*37.19' W	" "	100	"	" " X	9.0	090
" 40		# 4	14*24.00' S	170*37.64' W			"		8.9	178
" 55	Remarks:	# 5	14*23.97' S	170*36.90' W			"		8.9	000
0810		# 6	14*23.57 S	170*37.65' W					8.9	180
" 25		# 7	14*24.80' S	170*37.14' W				5	8.8	022
" 40		# 8	14*22.89' S	170*37.61' W					8.6	264
" 55		# 9	14*24.75' S	170*37.74' W					9.2	179
0910		# 10	14*23.71' S	170*36.88' W					9.1	348
" 25		# 11	14*23.92' S	170*37.75' W					9.5	177
" 40		# 12	14*24.06' S	170*36.96' W				10	9.3	012
" 55		# 13	14*23.23' S	170*37.87' W					9.2	180
1010		# 14	14*2 S	170*3 W						
" 25		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1000	Finish Discharge	#14	14*24.60' S	170*37.81' W	East-10	100%	29.52	East-1.0	9.3	181
1010	Exit Discharge Zone	#15	14*22.58 S	170*38.45 W					9.3	338
1110	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

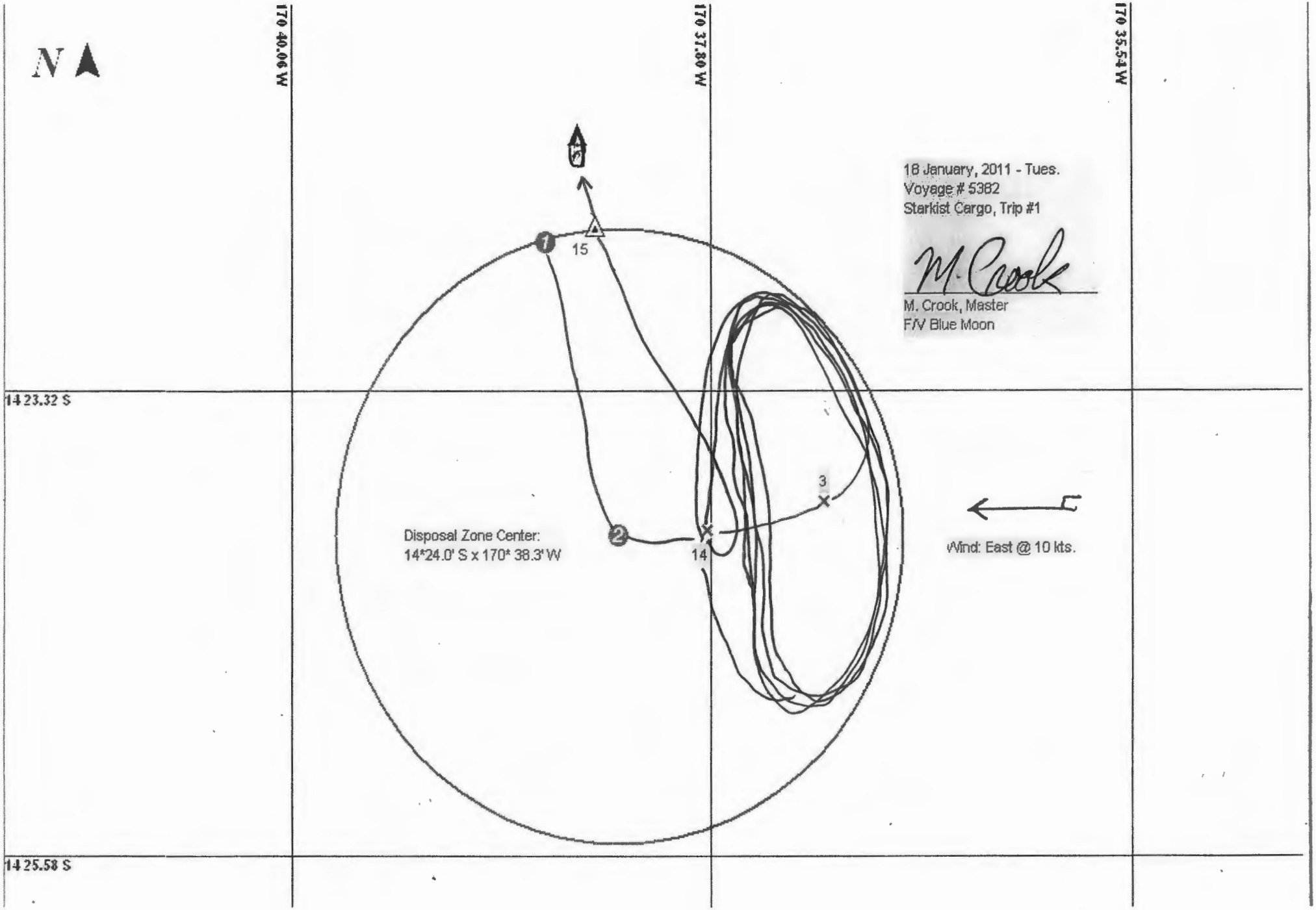
Total Discharge Time: 155 mins. Average Speed During Discharge: 9 kts. Total Time Run 4.9 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 98.6 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 40.06 W
170 37.80 W
170 35.54 W
14 23.32 S
14 25.58 S
18 January, 2011 - Tues.
Voyage # 5382
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: East @ 10 kts.
1
2
3
14
15

Date: 01/20/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5383

Permit # OD 93-01 & OD 93-02

	Time	
1/19	1545	Begin 1st Loading SK
	2130	Finish 1st Loading SK
1/20	0115	Begin 2nd Loading SK
	0215	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	191,750	Gallons
Other	0	Gallons
Total	191,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	NE-5	100	29.49			
0707	Arrive Edge of Zone	# 1	14*22.54' S	170*38.67' W	NE-10	"	"	East-1.0	8.8	160
0717	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.7	166
0725	Begin Discharge	# 3	14*23.41' S	170*37.42' W	" "	"	"	" " X	8.6	045
40		# 4	14*23.36' S	170*37.81' W			"		8.6	137
55	Remarks:	# 5	14*23.25' S	170*37.09' W			"		8.4	286
0810		# 6	14*23.03' S	170*38.31' W			"		9.1	134
25		# 7	14*23.98' S	170*36.88' W			"	5	8.7	351
40		# 8	14*22.63' S	170*38.30' W		"	"		8.7	206
55		# 9	14*23.54' S	170*37.21' W		90	"		8.9	344
0910		# 10	14*22.58' S	170*38.11' W		"	29.48		8.7	272
25		# 11	14*23.80' S	170*36.84' W	NE-12	"	"		9.0	336
40		# 12	14*22.67 S	170*38.10 W	" "	"	"	10	8.9	241
55		# 13	14*24.21' S	170*37.11 W	" "		"		9.3	136
1010		# 14	14*22.80' S	170*37.67' W	"	Light Rain	"		9.1	274
25		# 15	14*24.09' S	170*37.24' W	NE-15	100%	"		9.6	133
40		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1035	Finish Discharge	#16	14*23.11' S	170*37.11' W	NE-15	100%	29.48	East-1.0	9.3	331
1037	Exit Discharge Zone	#17	14*22.94' S	170*37.19' W	" "	"	"	" "	9.3	335
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

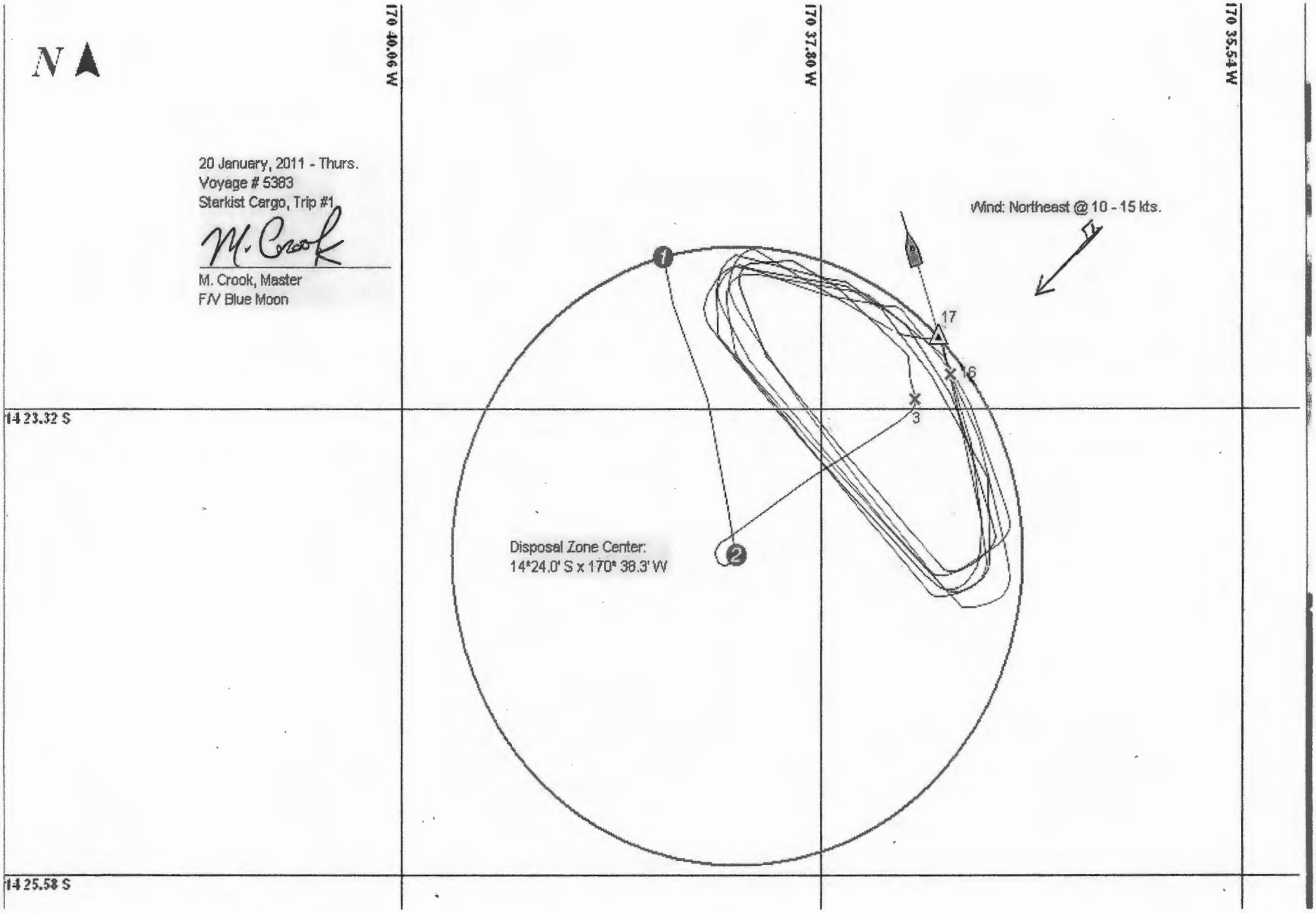
Total Discharge Time: 190 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 40.06 W
170 37.30 W
170 35.54 W
14 23.32 S
14 25.58 S
20 January, 2011 - Thurs.
Voyage # 5383
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Wind: Northeast @ 10 - 15 kts.
1
2
3
16
17
Disposal Zone Center:
14°24.0' S x 170° 38.3' W

Date: 01/22/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5384

Permit # OD 93-01 & OD 93-02

Time	
1520	Begin 1st Loading SK
2120	Finish 1st Loading SK
0230	Begin 2nd Loading SK
0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	182,000	Gallons
Other	0	Gallons
Total	182,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0620	Depart Starkist		14*16.50' S	170* 41.2' W	N-7	100	29.34			
0712	Arrive Edge of Zone	# 1	14*22.50' S	170*38.68' W	N-10	100	"	NE-1.0	9.0	161
0722	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	N-7	100-Rain		" "	9.0	164
0730	Begin Discharge	# 3	14*23.00' S	170*38.01 W	N-12	" "	29.35	NE-1.5 X	8.4	000
45		# 4	14*23.36' S	170*38.77' W	" "	100-o/c	"	" "	8.8	092
0800	Remarks:	# 5	14*23.12' S	170*37.17' W	" "	"	"	" "	8.6	311
15		# 6	14*22.95' S	170*39.21' W	NNE-12	"	"	" "	8.9	200
30		# 7	14*23.28' S	170*37.13' W	NNE-10	"	"	" " 5	8.5	006
45		# 8	14*22.87' S	170*39.04' W	NNE-5	"	"		9.3	241
0900		# 9	14*23.36' S	170*37.48' W		"	"		9.0	089
15		# 10	14*22.80' S	170*38.95' W		"	"		9.2	256
30		# 11	14*23.27' S	170*37.99' W		"	29.34		9.2	087
45		# 12	14*22.96' S	170*38.66' W		"	29.32	10	9.3	270
1000		# 13	14*23.40' S	170*38.68' W	NNE-15		"		9.2	086
15		# 14	14*22.76' S	170*37.76' W	N-15		"		9.4	269
30		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1030	Finish Discharge	#15	14*23.24 S	170*38.88' W	North-15	100%	29.32	NE-1.5	8.9	355
1035	Exit Discharge Zone	#16	14*22.70' S	170*38.93 W	" "	Rain-100	"	" "	9.0	356
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center South End of Discharge SSW Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 8.97 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

N ▲

170 41.40 W

170 38.02 W

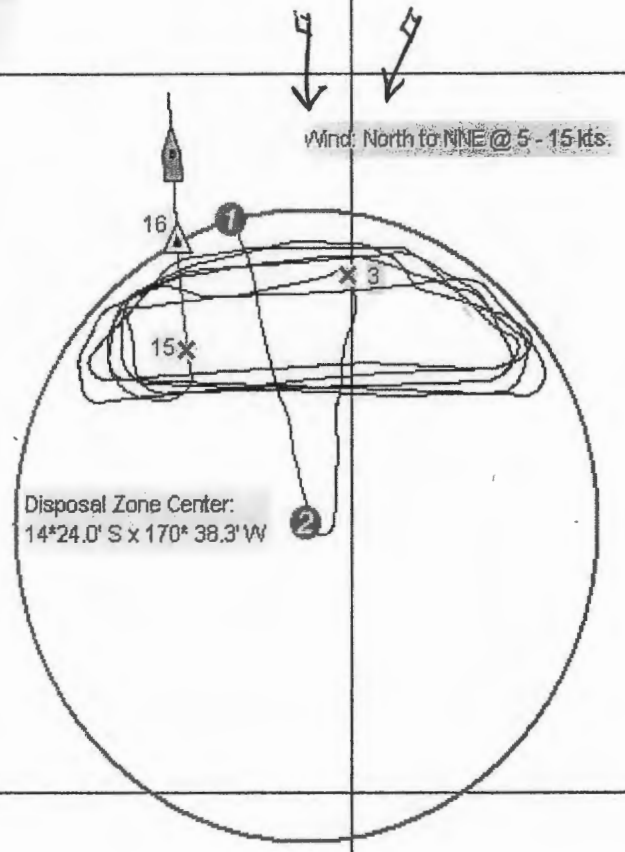
170 34.64 W

22 January, 2011 - Sat.
Voyage # 5384
Starkist Cargo, Trip #1

M. Crook

M. Crook, Master
F/V Blue Moon

14 21.90 S



14 25.28 S

Date: 01/27/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5385

Permit # OD 93-01 & OD 93-02

	Time	
1/26	1900	Begin 1st Loading SK
	2100	Finish 1st Loading SK
	0240	Begin 2nd Loading SK
1/27	0530	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:		
SK	156,750	Gallons
Other	0	Gallons
Total	156,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0620	Depart Starkist		14*16.50' S	170* 41.2' W	East-10	100	29.52			
0710	Arrive Edge of Zone	#1	14*22.52' S	170*38.68' W	ENE-15	"	29.53	East-1.0	8.9	161
0719	Arrive Zone Center	#2	14*24.0 S	170*38.3 W	NE-15	"	29.54	" "	8.8	160
0728	Begin Discharge	#3	14*23.53' S	170*37.32' W	NE-18	"	"	East-1.5X	8.0	045
" 43		#4	14*23.16' S	170*38.14' W	" "	"	"	" "	8.5	141
" 58	Remarks:	#5	14*24.10' S	170*36.83' W	" "	"	29.55		8.4	351
0813		#6	14*22.84' S	170*38.45' W	NE-20	"	"		8.5	182
" 28		#7	14*24.26' S	170*36.96' W			"	5	8.3	011
" 43		#8	14*22.72' S	170*37.81' W			"		9.4	289
" 58		#9	14*23.71' S	170*37.86' W			29.56		8.6	132
0913		#10	14*23.85' S	170*36.87' W		RAIN	"		9.2	326
" 28		#11	14*23.62' S	170*37.95' W		"	"		9.1	145
" 43		#12	14*23.70' S	170*37.11' W		Light RAIN	29.57	10	8.8	341
" 58		#13	14*22.91' S	170*33.49' W	NE-22	100	"		8.9	186
1013		#14	14*24.36' S	170*37.13' W	" "	"	"		8.7	092
" 28		#15	14*2 S	170*3 W						
		#16	14*2 S	170*3 W						
		#17	14*2 S	170*3 W				15		
		#18	14*2 S	170*3 W						
		#19	14*2 S	170*3 W						
		#20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1028	Finish Discharge	#15	14*23.11' S	170*37.33' W	NE-22	100%	29.58	East-1.5	9.3	321
1029	Exit Discharge Zone	#16	14*22.71' S	170*37.56' W	" "				9.3	329
1125	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center Southwest End of Discharge SW Discharge Pattern Ellipse

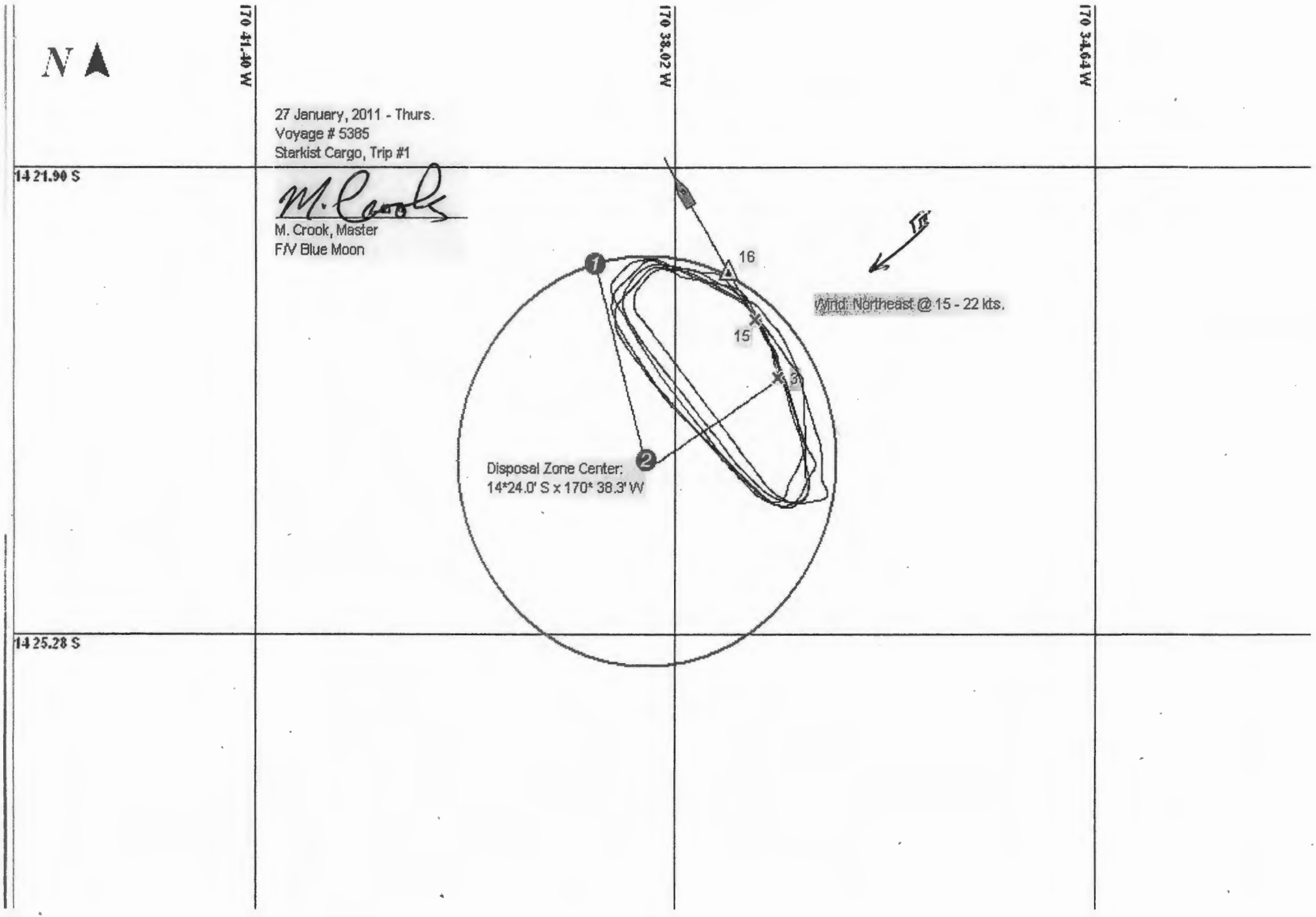
Total Discharge Time: 177 mins. Average Speed During Discharge: 8.75 kts. Total Time Run 5.10 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 101 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
27 January, 2011 - Thurs.
Voyage # 5385
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
15
3
Wind: Northeast @ 15 - 22 kts.
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

Date: 01/29/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5386

Permit # OD 93-01 & OD 93-02

	Time	
1/28	1540	Begin 1st Loading SK
	2140	Finish 1st Loading SK
		Begin 2nd Loading SK
	/	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	145,000	Gallons
Other	0	Gallons
Total	145,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0605	Depart Starkist		14*16.50' S	170* 41.2' W	East-10	90	29.61			
0652	Arrive Edge of Zone	# 1	14*22. 57 S	170*38. 67' W	East-15	"	29.62	East-1.5	8.8	162
0702	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	29.63	" "	8.6	164
0710	Begin Discharge	# 3	14*23.95' S	170*37.24' W	" "	80	29.64	" " X	8.4	090
25		# 4	14*23.44' S	170*37.75' W			"		8.8	179
40	Remarks:	# 5	14*24.78' S	170*37.23' W			"		8.5	028
55		# 6	14*23.41' S	170*37.72' W			"		8.2	181
0810		# 7	14*24.88' S	170*37.77' W			29.65	5	8.8	183
25		# 8	14*23.49' S	170*36.98' W			"		9.2	338
40		# 9	14*24.14' S	170*37.79' W			29.63		9.1	180
55		# 10	14*24.07' S	170*36.92' W			"		9.0	000
0910		# 11	14*23.19' S	170*37.78' W			"		9.1	182
25		# 12	14*24.70' S	170*37.12' W			"	10	9.0	021
40		# 13	14*23.13' S	170*37.71' W					9.1	181
55		# 14	14*2 S	170*3 W						
1010		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0950	Finish Discharge	#14	14*23.16' S	170*37.64' W	East-15	80%	29.63	East-1.5	9.3	334
0953	Exit Discharge Zone	#15	14*22.62' S	170*37.87' W	" "	"	"	" "	9.5	335
1050	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 160 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 4.75 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 102 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M Cook

N

170 41.40 W

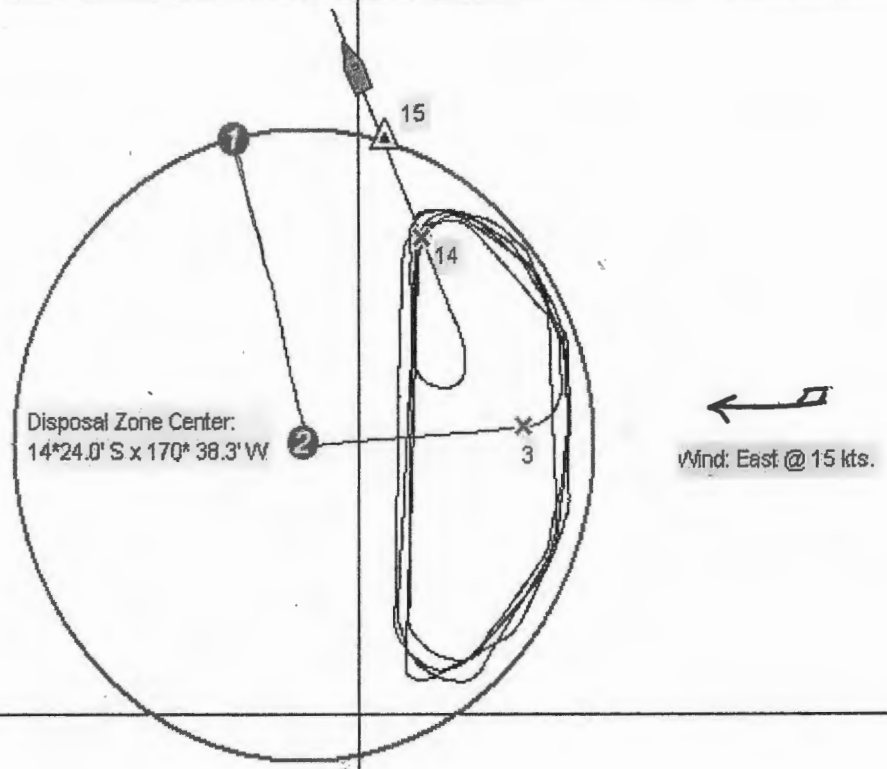
170 38.02 W

170 34.64 W

29 January, 2011 - Sat.
Voyage # 5386
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon

14 21.90 S



14 25.28 S

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

10 February, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
11 February, 2011

Introduction

On February 10, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dumpsite area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0610: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0702: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S x 170*38.7' W.

0712: The *Blue Moon* arrived at the dump-zone center, where observed calm winds and slight east southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0725: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with east/ESE swells to 1.0 meters and calm winds with the barometer reading 29.60. Current set and drift, of the ship, were slow to the west at 0.3 knots. No floating materials or sea life were observed here.

0735: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.2 miles long (see Plot 1) until 1033 hrs.

1040: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. An east wind had just slightly come up and increased to 5 knots with still cloudy skies. The waste plume appeared here as elongate large area of heavy glassy surface sheen with a few aqua patches extending in a N to S direction and moving, very gradually to the west. The current/wind drift of the ship was now GPS determined to be westerly @ 0.2 knots. No sea life or floating materials were observed.

1050: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed similar coloration/sheen qualities as those at Station #1, with clear natural blue appearing seawater underneath. The average drift rate of the ship with current and wind was GPS determined to be westerly (W) at a very slow rate of 0.1 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1100: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed the same heavy sheen over clear sub-surface waters as Stations #1 & #2 with a few additional small patches of milky blue. Sea & wind conditions remained quite calm at this point and the drift rate of the ship between Stations #3 & 4 was 0.2 knots, again, to the west.

1110: Station Four monitoring. This area showed, in addition to the heavy surface sheen, widespread floating swaths of brownish scum and particulate material. None of this material was noted to be suspended or sub-surface. The westerly current/drift rate of the ship was again noted here to be at 0.3 knots.

1115: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.35 NM east of the zone center. The leading edge of the waste plume was hardly visible at this location as an area of faint streaks of slightly glassy surface sheen with clear, natural appearing blue waters further down-current to the west. No notable sea life was observed at this position or any of the previous stations, other than a few random seabirds flying by. The final barometer reading was 29.54 when monitoring activities were concluded at 1130 hrs. The *Blue Moon* exited the disposal zone at 1140 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1230 hours.

Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

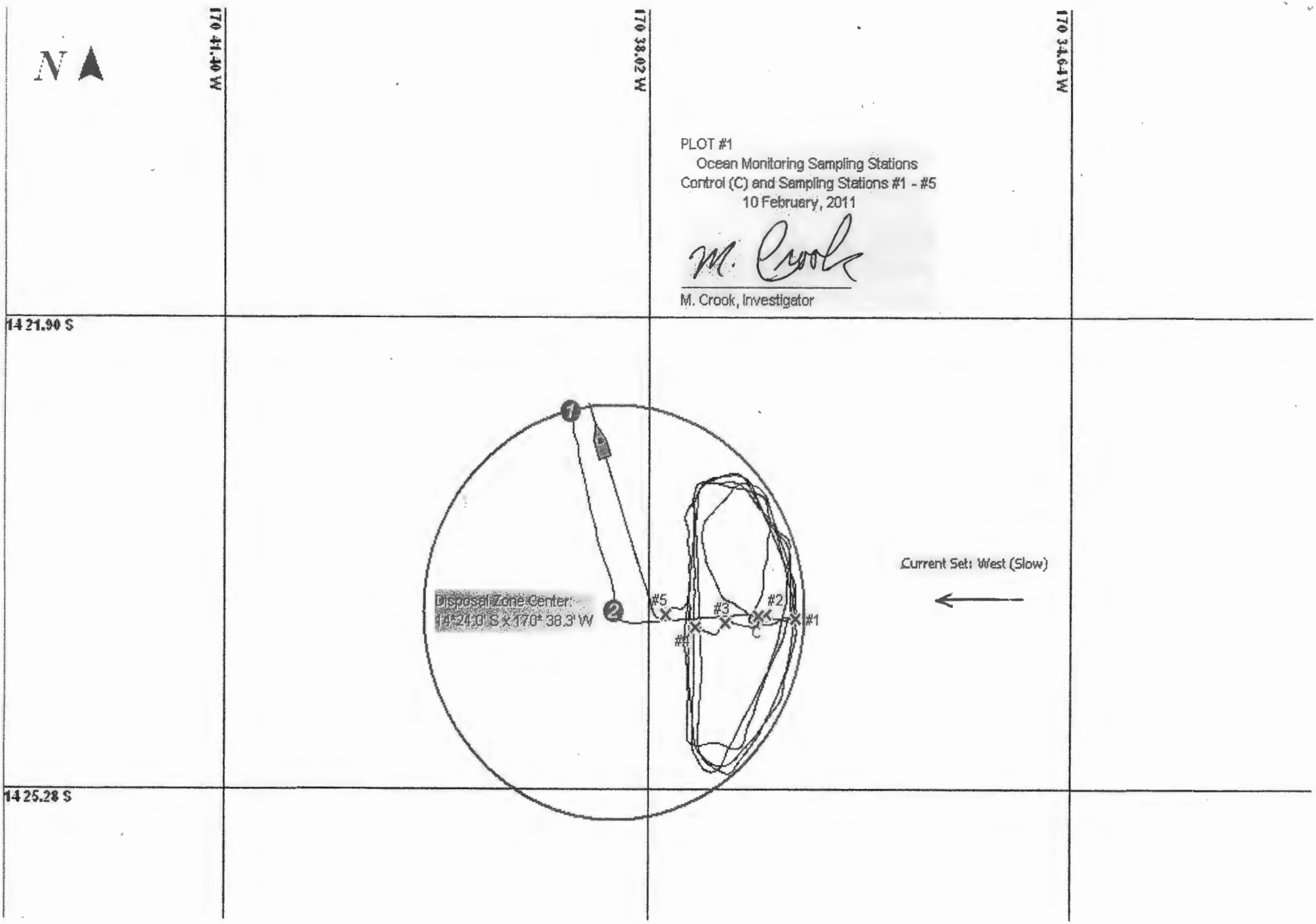
Date: 10 February, 2011	Sea Conditions: Slight w/ East southeast swells to 1.0 meters. Wind: Calm to East @ 2 -5 knots Visibility: Good 8-10+ miles Barometer: 29.59 - 29.60 - 29.54 Current Set & Drift Rate: Slow west @ average 0.25 knots Sky: Cloudy/overcast - 100%					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0725	Control	1	26.1	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	26.1	7.3		
		10	26.1	7.3		
1035	Station 1	1	27.2	7.3	Slightly Pungent	Heavy glassy surface sheen over deep, clear blue water. No floating or suspended particulate or other material.
		3	27.2	7.3		
		10	26.7	7.3		
1045	Station 2	1	27.2	7.3	Slightly Pungent	A large area of heavy glassy sheen over clear blue water. No floating or suspended particulate materials.
		3	27.2	7.3		
		10	27.2	7.3		
1055	Station 3	1	28.3	7.3	Slightly Pungent	Heavy glassy surface sheen with some light milky blue patches. No floating or suspended particulate or other material.
		3	27.8	7.3		
		10	27.8	7.3		
1105	Station 4	1	27.2	7.3	Slightly Pungent	A large area of heavy glassy sheen with abundant floating swaths of brownish scum and fine particulate materials, also light brown in color. None of this material extended sub-surface (suspended).
		3	27.2	7.3		
		10	27.2	7.3		
1115	Station 5	1	27.2	7.3	Slightly Pungent	Leading edge of the waste plume: Scattered & broken light steaks of glassy surface sheen with clear, blue, natural appearing seas further down-current to the west. No more floating or suspended materials of any description.
		3	27.2	7.3		
		10	27.2	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control-C	14° 24.04'	South	170° 37.14'	West
Station 1	14° 24.06'	South	170° 36.89'	West
Station 2	14° 24.05'	South	170° 37.09'	West
Station 3	14° 24.11'	South	170° 37.45'	West
Station 4	14° 24.13'	South	170° 37.63'	West
Station 5	14° 24.00'	South	170° 37.86'	West

PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
10 February, 2011

M. Crook, Investigator



Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

10 February, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
11 February, 2011

Introduction

On February 10, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dumpsite area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0610: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0702: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S x 170*38.7' W.

0712: The *Blue Moon* arrived at the dump-zone center, where observed calm winds and slight east southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0725: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with east/ESE swells to 1.0 meters and calm winds with the barometer reading 29.60. Current set and drift, of the ship, were slow to the west at 0.3 knots. No floating materials or sea life were observed here.

0735: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.2 miles long (see Plot 1) until 1033 hrs.

1040: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. An east wind had just slightly come up and increased to 5 knots with still cloudy skies. The waste plume appeared here as elongate large area of heavy glassy surface sheen with a few aqua patches extending in a N to S direction and moving, very gradually to the west. The current/wind drift of the ship was now GPS determined to be westerly @ 0.2 knots. No sea life or floating materials were observed.

1050: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed similar coloration/sheen qualities as those at Station #1, with clear natural blue appearing seawater underneath. The average drift rate of the ship with current and wind was GPS determined to be westerly (W) at a very slow rate of 0.1 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1100: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed the same heavy sheen over clear sub-surface waters as Stations #1 & #2 with a few additional small patches of milky blue. Sea & wind conditions remained quite calm at this point and the drift rate of the ship between Stations #3 & 4 was 0.2 knots, again, to the west.

1110: Station Four monitoring. This area showed, in addition to the heavy surface sheen, widespread floating swaths of brownish scum and particulate material. None of this material was noted to be suspended or sub-surface. The westerly current/drift rate of the ship was again noted here to be at 0.3 knots.

1115: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.35 NM east of the zone center. The leading edge of the waste plume was hardly visible at this location as an area of faint streaks of slightly glassy surface sheen with clear, natural appearing blue waters further down-current to the west. No notable sea life was observed at this position or any of the previous stations, other than a few random seabirds flying by. The final barometer reading was 29.54 when monitoring activities were concluded at 1130 hrs. The *Blue Moon* exited the disposal zone at 1140 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1230 hours.

Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

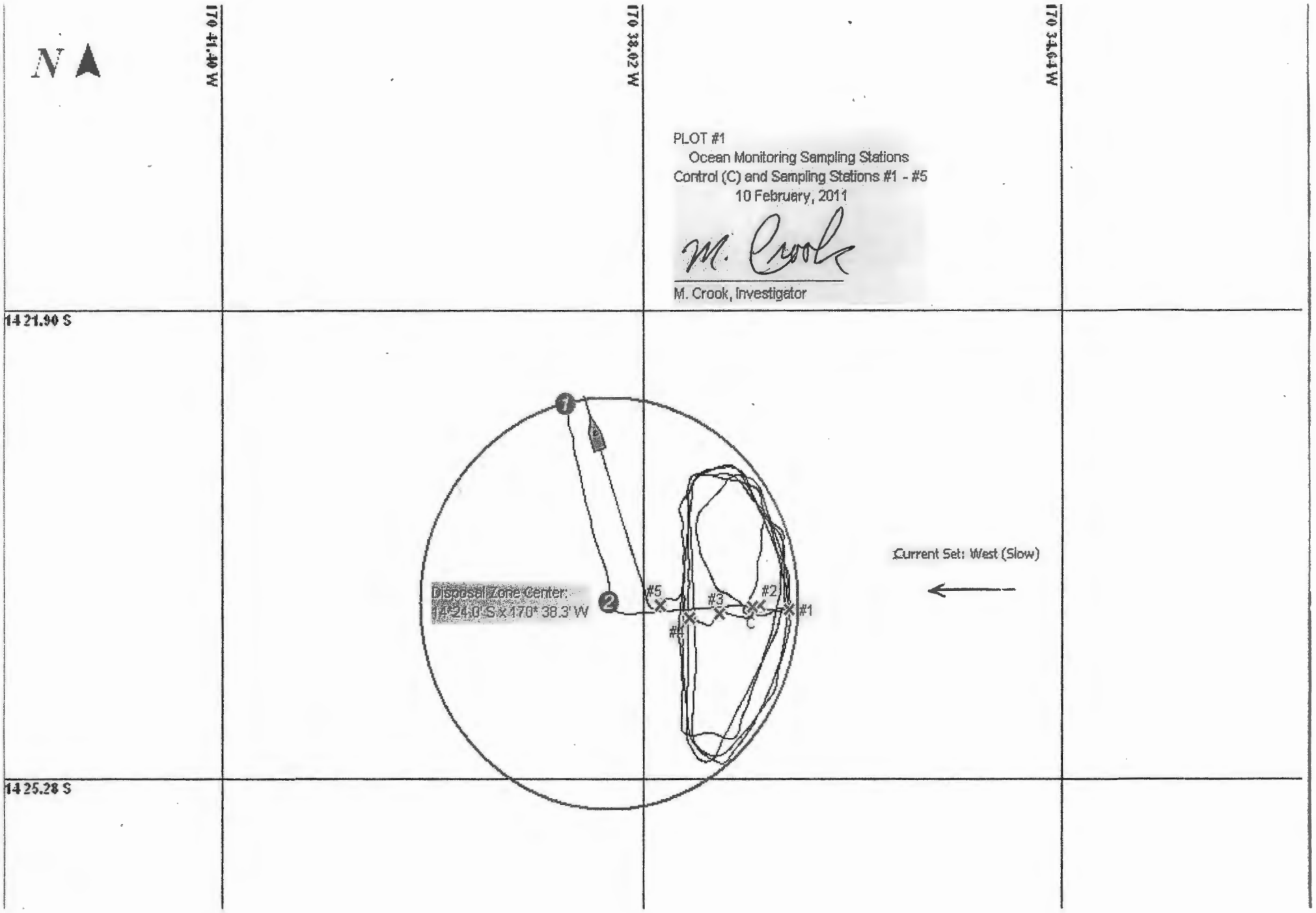
Date: 10 February, 2011	Sea Conditions: Slight w/ East southeast swells to 1.0 meters. Wind: Calm to East @ 2 -5 knots Visibility: Good 8-10+ miles Barometer: 29.59 - 29.60 - 29.54 Current Set & Drift Rate: Slow west @ average 0.25 knots Sky: Cloudy/overcast - 100%					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0725	Control	1	26.1	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	26.1	7.3		
		10	26.1	7.3		
1035	Station 1	1	27.2	7.3	Slightly Pungent	Heavy glassy surface sheen over deep, clear blue water. No floating or suspended particulate or other material.
		3	27.2	7.3		
		10	26.7	7.3		
1045	Station 2	1	27.2	7.3	Slightly Pungent	A large area of heavy glassy sheen over clear blue water. No floating or suspended particulate materials.
		3	27.2	7.3		
		10	27.2	7.3		
1055	Station 3	1	28.3	7.3	Slightly Pungent	Heavy glassy surface sheen with some light milky blue patches. No floating or suspended particulate or other material.
		3	27.8	7.3		
		10	27.8	7.3		
1105	Station 4	1	27.2	7.3	Slightly Pungent	A large area of heavy glassy sheen with abundant floating swaths of brownish scum and fine particulate materials, also light brown in color. None of this material extended sub-surface (suspended).
		3	27.2	7.3		
		10	27.2	7.3		
1115	Station 5	1	27.2	7.3	Slightly Pungent	Leading edge of the waste plume: Scattered & broken light steaks of glassy surface sheen with clear, blue, natural appearing seas further down-current to the west. No more floating or suspended materials of any description.
		3	27.2	7.3		
		10	27.2	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control-C	14° 24.04'	South	170° 37.14'	West
Station 1	14° 24.06'	South	170° 36.89'	West
Station 2	14° 24.05'	South	170° 37.09'	West
Station 3	14° 24.11'	South	170° 37.45'	West
Station 4	14° 24.13'	South	170° 37.63'	West
Station 5	14° 24.00'	South	170° 37.86'	West

PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
10 February, 2011

M. Crook, Investigator



Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

10 February, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
11 February, 2011

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Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

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		10	27.2	7.3		
1055	Station 3	1	28.3	7.3	Slightly Pungent	Heavy glassy surface sheen with some light milky blue patches. No floating or suspended particulate or other material.
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		10	27.8	7.3		
1105	Station 4	1	27.2	7.3	Slightly Pungent	A large area of heavy glassy sheen with abundant floating swaths of brownish scum and fine particulate materials, also light brown in color. None of this material extended sub-surface (suspended).
		3	27.2	7.3		
		10	27.2	7.3		
1115	Station 5	1	27.2	7.3	Slightly Pungent	Leading edge of the waste plume: Scattered & broken light steaks of glassy surface sheen with clear, blue, natural appearing seas further down-current to the west. No more floating or suspended materials of any description.
		3	27.2	7.3		
		10	27.2	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
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Station 1	14° 24.06'	South	170° 36.89'	West
Station 2	14° 24.05'	South	170° 37.09'	West
Station 3	14° 24.11'	South	170° 37.45'	West
Station 4	14° 24.13'	South	170° 37.63'	West
Station 5	14° 24.00'	South	170° 37.86'	West

N

170 41.40 W

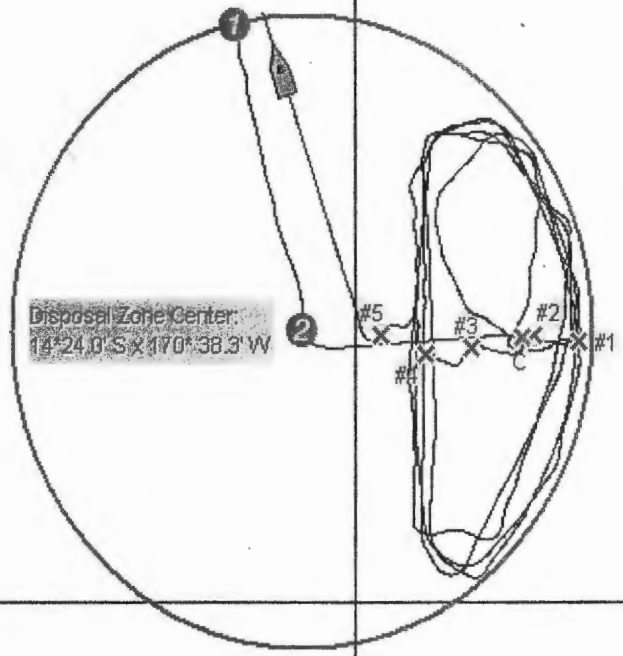
170 38.02 W

170 34.64 W

PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
10 February, 2011

M. Crook, Investigator

14 21.90 S



Current Set: West (Slow)

14 25.28 S

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON February, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	12	0	0	**12**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	2,217,000	0	0	**2,217,000**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	2,217,000	**0**

RUNNING TIME ON TRIPS: **64.4 hrs.**

DISCHARGE TIME ON TRIPS: **38.33 hrs.**

AV. GPM DISCHARGE RATE: **111 gal/min/kt**

AV. TRIP TIME: **5.36 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER : M. Crook

M. Crook

Date: 02/01/11 tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5387

Permit # OD 93-01 & OD 93-02

	Time	
1/31	1530	Begin 1st Loading SK
	2230	Finish 1st Loading SK
	0130	Begin 2nd Loading SK
2/1	0245	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	196,250	Gallons
Other	0	Gallons
Total	196,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0625	Depart Starkist		14*16.50' S	170* 41.2' W	East-5	100-RAIN	29.63			
0725	Arrive Edge of Zone	# 1	14*22.54' S	170*38.69' W	East-20	100	"	East-2.0	8.3	162
0735	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	RAIN	29.64	" "	8.4	160
0743	Begin Discharge	# 3	14*24.00' S	170*37.22' W	" "	" "	29.65	" " X	8.0	090
58		# 4	14*23.41' S	170*37.78' W	E-22	" "	29.66	" "	8.3	178
0813	Remarks:	# 5	14*24.76' S	170*37.22' W	" "	100	"		8.5	010
" 28		# 6	14*22.94' S	170*37.51' W	" "	"	"		8.4	284
" 43		# 7	14*24.65' S	170*37.71' W	East-20	"	29.67	5	8.6	171
" 58		# 8	14*23.54' S	170*36.74' W	" "	"	"		8.8	335
0913		# 9	14*23.38' S	170*37.71' W	" "	"	"		8.6	180
" 28		# 10	14*24.53' S	170*37.03' W	East-22	"	"		8.7	032
" 43		# 11	14*23.38' S	170*37.88' W	" "	"	"		8.9	184
" 58		# 12	14*24.73' S	170*37.06' W	East-20	"	"	10	9.1	013
1013		# 13	14*23.06' S	170*37.32' W	" "	"	"		9.2	278
" 28		# 14	14*24.81' S	170*37.67' W	" "	"	"		9.1	180
" 43		# 15	14*23.22' S	170*37.09' W	" "	"	"		9.4	319
" 58		# 16	14*23.37' S	170*37.10' W	" "				9.0	000
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1100	Finish Discharge	# 17	14*23.02' S	170*37.29' W	East-20	100	29.66	East-2.0	9.4	321
1102	Exiit Discharge Zone	# 18	14*22.84' S	170*37.42' W	" "	"	"	" "	9.5	327
1205	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

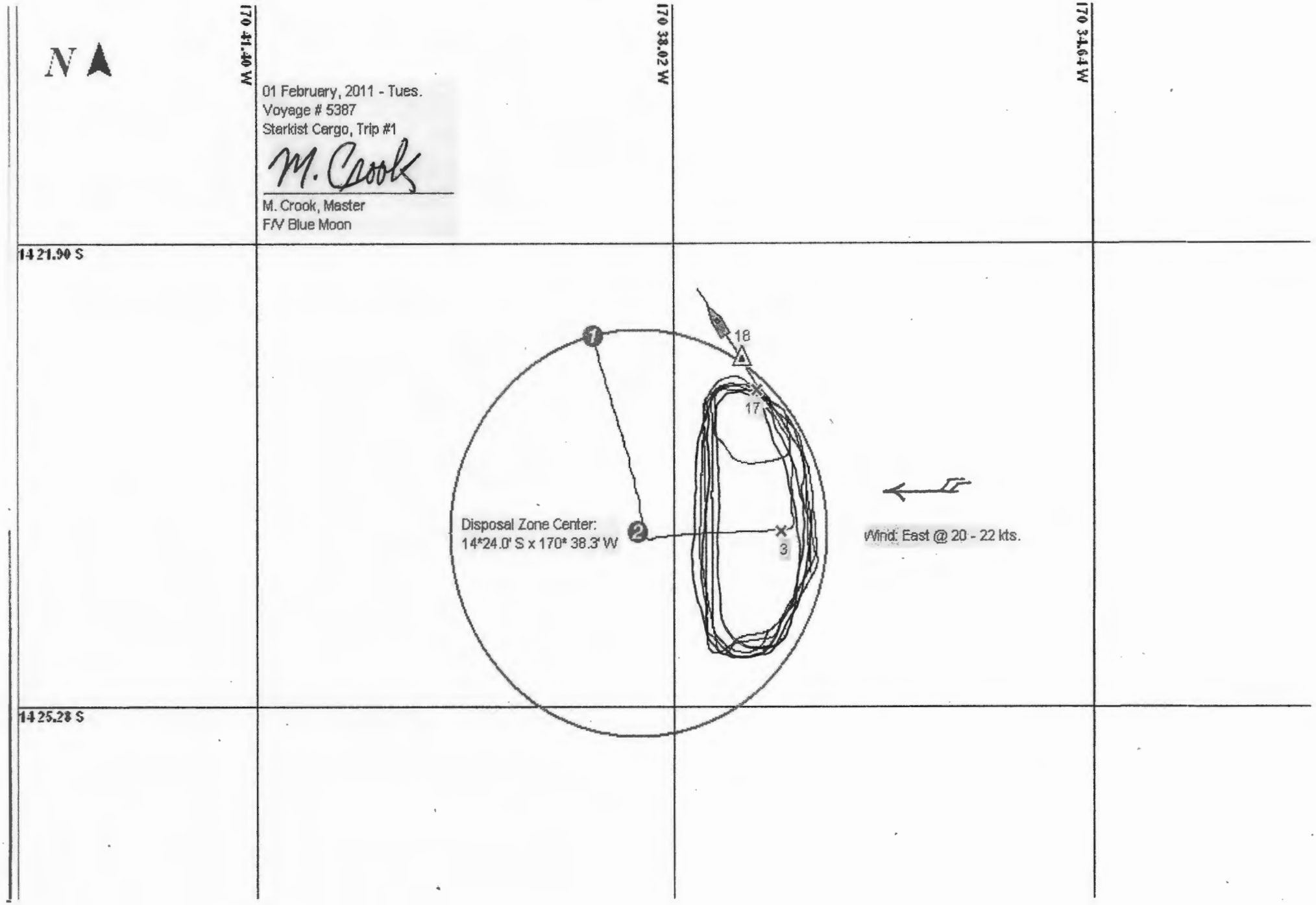
Total Discharge Time: 197 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.66 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113 Gallons/min/kt.

Unusuall Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crow


N
170 41.40 W
170 38.02 W
170 34.64 W
01 February, 2011 - Tues.
Voyage # 5387
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
14 21.90 S
14 25.28 S
1
2
18
17
3
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: East @ 20 - 22 kts.

Date: 02/03/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5388

Permit # OD 93-01 & OD 93-02

Time	
1200	Begin 1st Loading SK
1315	Finish 1st Loading SK
1530	Begin 2nd Loading SK
2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	East-5	60	29.61			
0705	Arrive Edge of Zone	# 1	14*22.57' S	170*38.67' W	East-12	50	"	East-1.5	8.6	161
0715	Arrive Zone Center	# 2	14*24.0 S	170*38.30' W	" "	"	"	" "	8.4	163
0725	Begin Discharge	# 3	14*23.98' S	170*37.19 W	" "	"	"	" " X	8.3	090
40		# 4	14*23.44' S	170*37.80' W	" "	60	"	" "	8.5	179
55	Remarks:	# 5	14*24.53' S	170*36.98' W	" "		"		8.6	002
0810	Fueling	# 6	14*22.94' S	170*37.75 W	" "		"		8.4	197
25	1135- 0	# 7	14*24.62' S	170*37.82' W	East-15		"	5	8.7	180
40		# 8	14*23.60' S	170*36.98' W	" "		"		9.0	358
55		# 9	14*24.13' S	170*37.82' W	" "		29.62		8.8	180
0910		# 10	14*24.75' S	170*37.08' W					8.9	004
25		# 11	14*23.04' S	170*37.73 W					8.8	177
40		# 12	14*25.02' S	170*37.34' W				10	8.1	023
55		# 13	14*22.96' S	170*37.38' W					9.3	309
1010		# 14	14*24.02' S	170*37.79' W		70			9.0	180
25		# 15	14*24.20' S	170*36.92' W					9.5	002
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1030	Finish Discharge	# 16	14*23.05' S	170*37.30' W	East-15	75%	29.62	East-1.5	9.8	331
1032	Exit Discharge Zone	# 17	14*22.82' S	170*37.42' W	" "	"	"	" "	9.9	333
1320	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 185 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 111.6 Gallons/min/kt.

Unusual Occurrences? None (Fueling 1135-1310)

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

N

70 41.40 W

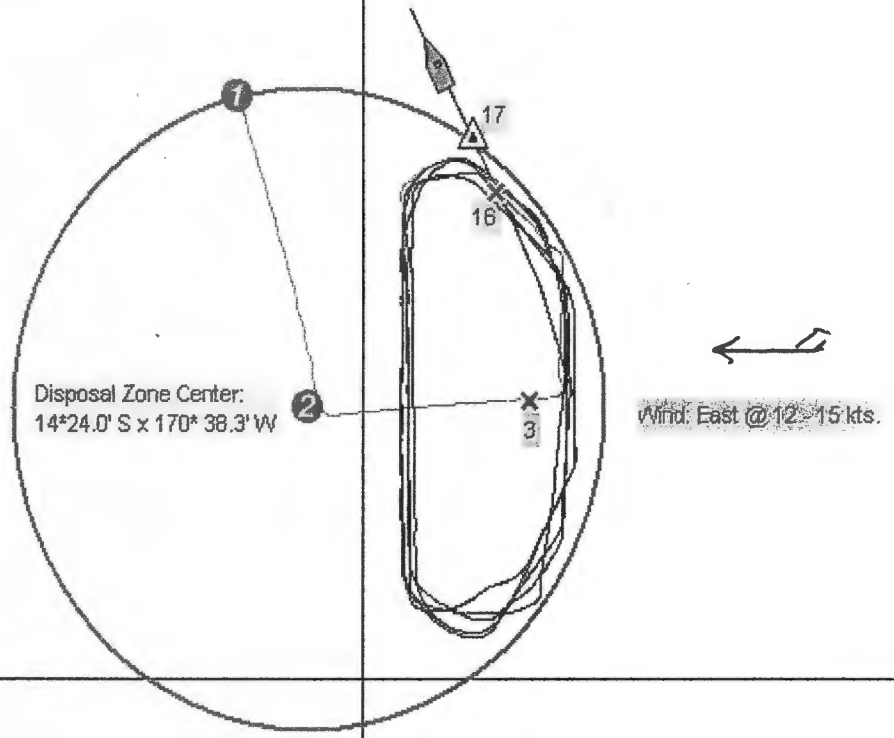
70 38.02 W

70 34.64 W

03 February, 2011 - Thurs.
Voyage # 5388
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon

14 21.90 S



14 25.28 S

Date: 02/05/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5389

Permit # OD 93-01 & OD 93-02

	Time	
2/4	1530	Begin 1st Loading SK
	2100	Finish 1st Loading SK
	0415	Begin 2nd Loading SK
2/5	0500	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	188,750	Gallons
	Other	0	Gallons
	Total	188,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100	29.62			
0705	Arrive Edge of Zone	# 1	14*22. 51' S	170*38. 68' W	"	100	29.65	mixed to 1.0	8.7	164
0715	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	"	"	29.66	" "	8.7	161
0725	Begin Discharge	# 3	14*23.95' S	170*37.24' W	East-3	"	29.67	" " X	8.4	090
" 40		# 4	14*23.70' S	170*37.73' W	" "		"		8.6	185
" 55	Remarks:	# 5	14*24.14' S	170*36.88' W	East-2		"		8.7	002
0810		# 6	14*23.08' S	170*37.47' W			"		8.5	214
" 25		# 7	14*24.77' S	170*37.70' W	Variable-5	Rain	"	5	8.7	179
" 40		# 8	14*23.16' S	170*37.29' W	SW-5	"	"		8.6	305
" 55		# 9	14*24.73' S	170*37.69' W	SE-7	"	"		8.9	181
0910		# 10	14*23.31' S	170*37.07' W	East-7	"	"		9.1	319
" 25		# 11	14*24.62' S	170*37.59' W	East-5	100	"		8.8	180
" 40		# 12	14*23.35' S	170*37.01' W	"		29.66	10	9.0	342
" 55		# 13	14*24.61' S	170*37.55' W	"		"		8.9	178
1010		# 14	14*23.54' S	170*36.95' W	"		"		9.2	001
" 25		# 15	14*24.38' S	170*37.61' W	"		29.65		9.1	177
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1035	Finish Discharge	# 16	14*23.39' S	170*37.73' W	East-5	100%	29.63	Mixed-1.0	9.6	336
1045	Exit Discharge Zone	# 17	14*22.58' S	170*38.00' W	" "	"	29.62	" "	9.6	337
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West (Slow) Discharge Pattern Ellipse

Total Discharge Time: 190 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

N

70 41.40 W

70 38.02 W

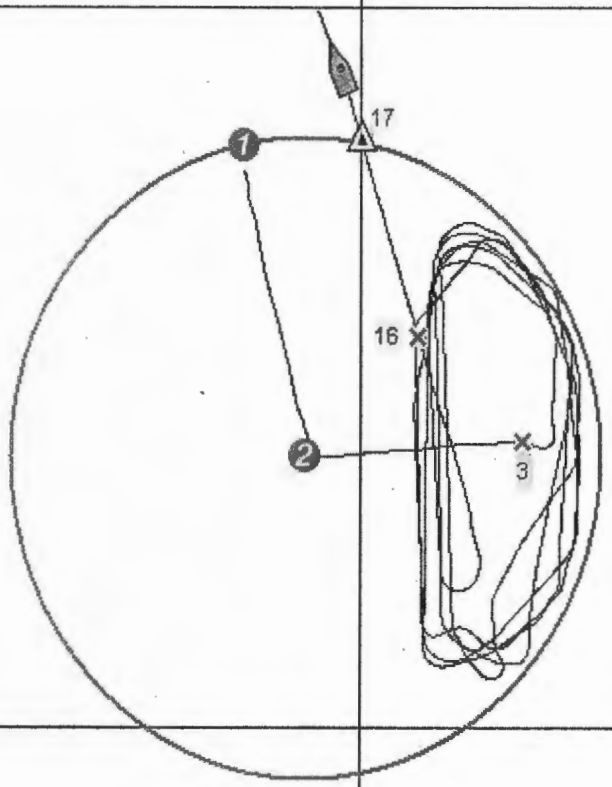
70 34.64 W

05 February, 2011 - Sat.
Voyage # 5389
Starkist Cargo, Trip #1

M. Crook

M. Crook, Master
F/V Blue Moon

14 21.90 S



Disposal Zone Center:
14°24.0' S x 170° 38.3' W

Wind: Calm to variable/east @ 5 - 7 kts.

14 25.28 S

Date: 02/08/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5390

Permit # OD 93-01 & OD 93-02

	Time	
2/6	1945	Begin 1st Loading SK
	2100	Finish 1st Loading SK
2/7	1630	Begin 2nd Loading SK
	2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	174,500	Gallons
Other	0	Gallons
Total	174,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	East-12	70	29.53			
0710	Arrive Edge of Zone	# 1	14*22.55' S	170*38.66' W	East-15	80	29.54	E/SE-2.0	8.2	161
0720	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-18	"	"	" "	8.1	165
0730	Begin Discharge	# 3	14*24.10' S	170*37.21' W	" "	"	"	" " X	7.9	090
" 45		# 4	14*23.86' S	170*37.73' W		"			8.6	180
0800	Remarks:	# 5	14*24.71' S	170*37.07' W		"			8.3	017
" 15		# 6	14*23.08 S	170*37.42 W		"			8.5	276
" 30		# 7	14*24.87' S	170*37.80' W		90		5	8.7	182
" 45		# 8	14*23.95' S	170*33.91 W	East-20	"			8.9	001
0900		# 9	14*23.81' S	170*37.83' W	" "	"			8.8	179
" 15		# 10	14*24.13' S	170*36.91' W	" "	"			8.6	358
" 30		# 11	14*23.17' S	170*37.60' W					8.9	221
" 45		# 12	14*25.00' S	170*37.47' W				10	8.7	034
1000		# 13	14*23.06' S	170*37.53' W		Rain 100	29.53		8.5	276
" 15		# 14	14*24.60' S	170*37.69' W		90			9.1	185
" 30		# 15	14*24.06' S	170*37.00 W		80	29.52		9.3	000
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1035	Finish Discharge	#16	14*23.12 S	170*37.20' W	East-20	80%	29.52	E/SE-2.0	9.2	307
1038	Exit Discharge Zone	#17	14*22.75' S	170*37.45' W	" "	"	"	" "	9.4	321
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 185 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 108 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

N

170 41.40 W

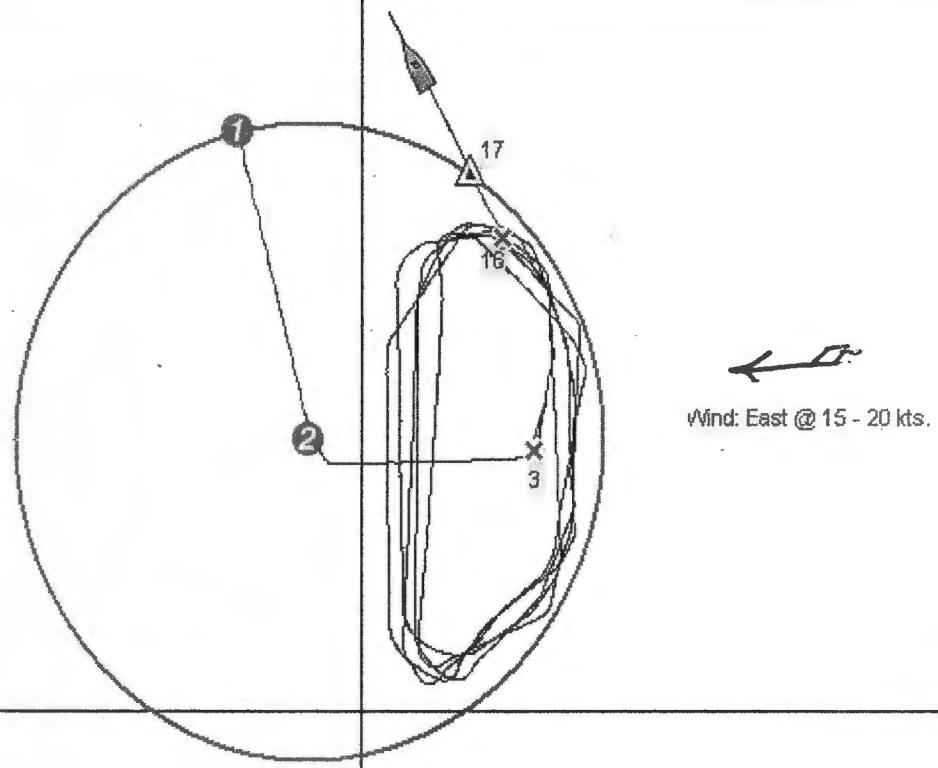
170 38.02 W

170 34.64 W

08 February, 2011 - Tues.
Voyage # 5390
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon

14 21.90 S



Disposal Zone Center:
14*24.0' S x 170* 38.3' W

14 25.28 S

Date: 02/10/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5391

Permit # OD 93-01 & OD 93-02

	Time	
2/8	1945	Begin 1st Loading SK
	2115	Finish 1st Loading SK
	1700	Begin 2nd Loading SK
2/9	2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	182,500	Gallons
	Other	0	Gallons
	Total	182,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100	29.59	"		
0702	Arrive Edge of Zone	# 1	14*22.55' S	170*38.67' W	" "	"		ESE-1	8.6	163
0712	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	29.60	" "	8.5	168
0735	Begin Discharge	# 3	14*23.91' S	170*37.13 W			"	" X	8.0	006
50		# 4	14*24.10' S	170*37.69' W			"	" "	8.6	179
0805	Remarks:	# 5	14*23.93' S	170*36.82' W					8.7	005
20	0725-Control	# 6	14*23.19' S	170*37.66' W					8.9	180
35	Monitoring	# 7	14*24.69' S	170*37.20' W				ESE-1.0	8.8	022
50	Samples	# 8	14*23.62' S	170*37.67' W					9.0	184
0905	Drawn @	# 9	14*25.06' S	170*37.32' W					8.6	046
20	14° 24.09' S x	# 10	14*23.21' S	170*37.16' W					9.2	321
35	170° 37.14' W	# 11	14*25.08' S	170*37.53' W					8.9	148
50		# 12	14*23.17' S	170*37.21' W			29.59	10	9.1	307
1005		# 13	14*24.86' S	170*37.63' W	East-2				9.3	181
20		# 14	14*23.55' S	170*36.96' W	"		29.57		9.6	336
35		# 15	14*2 S	170*3. W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1033	Finish Discharge	# 15	14*23.82' S	170*37.47' W	East-5	100%	29.56	ESE-1.0	9.4	145
1140	Exit Discharge Zone	# 16	14*22.58 S	170*38.48 W	" "	"	29.54	" "	9.7	339
1230	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West (slow) Discharge Pattern Ellipse

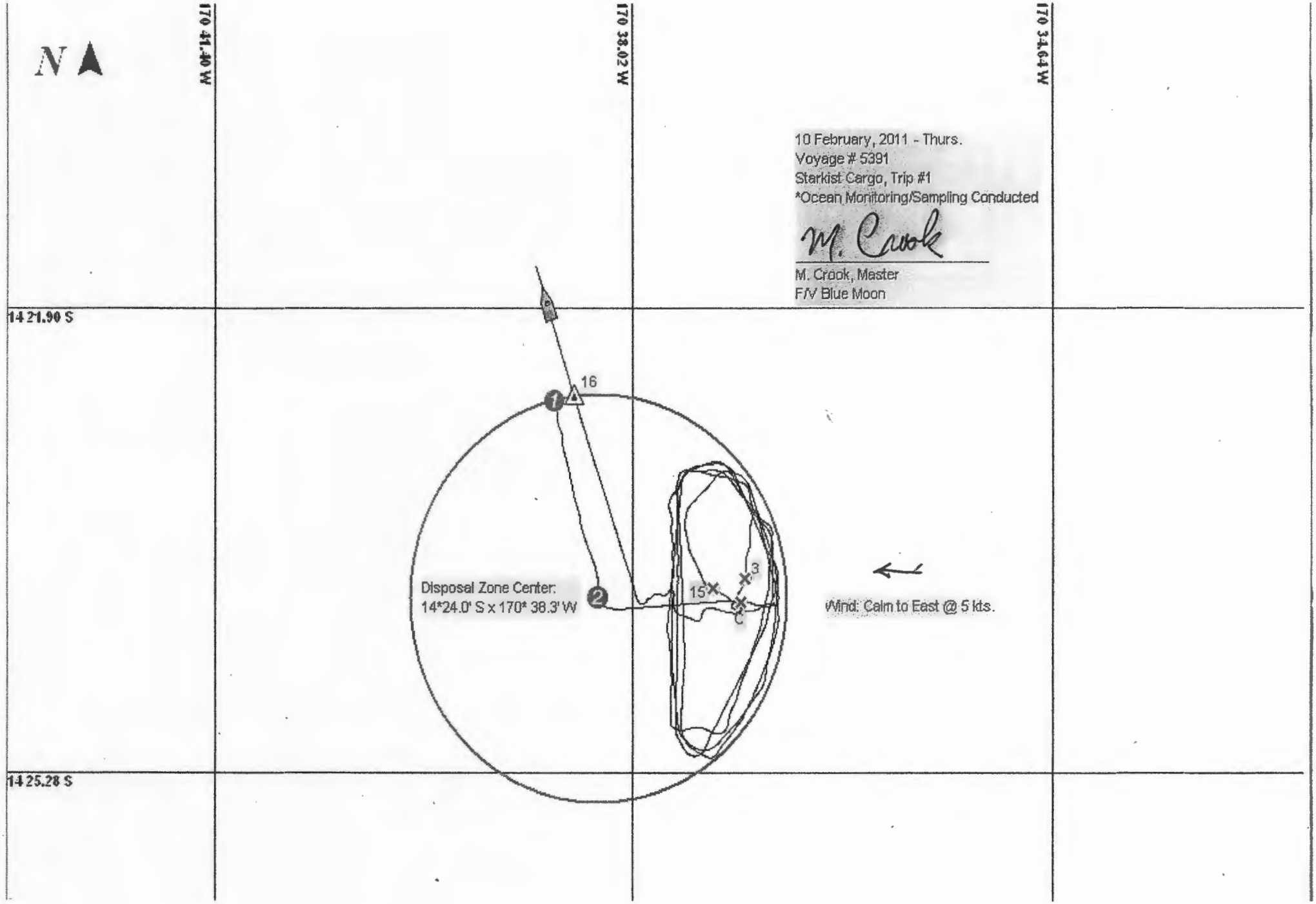
Total Discharge Time: 178 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 6.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: Discharge Rate: 115.2 Gallons/min/kt.

Unusual Occurrences? Ocean Monitoring Conducted.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
10 February, 2011 - Thurs.
Voyage # 5391
Starkist Cargo, Trip #1
*Ocean Monitoring/Sampling Conducted
M. Crook, Master
F/V Blue Moon
16
1
2
3
15
C
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: Calm to East @ 5 kts.

Date: 02/12/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5392

Permit # OD 93-01 & OD 93-02

	Time	
2/10	1745	Begin 1st Loading SK
	1900	Finish 1st Loading SK
2/11	0806	Begin 2nd Loading SK
	2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	184,250	Gallons
Other	0	Gallons
Total	184,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0920	Depart Starkist		14*16.50' S	170*41.2' W	East-7	90	29.51			
1015	Arrive Edge of Zone	#1	14*22.56' S	170*38.63 W	NE-12	"	29.52	E/SE-1.5	8.4	160
1025	Arrive Zone Center	#2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.3	166
1033	Begin Discharge	#3	14*23.61' S	170*37.28' W	" "	80	"	" " X	8.7	045
" 48		#4	14*23.43' S	170*37.89' W	" "	"	"		8.6	136
1103	Remarks:	#5	14*23.42' S	170*37.06' W	NE-15	90	"		8.6	338
" 18		#6	14*23.39' S	170*37.97' W	" "	"	"		8.4	141
" 33		#7	14*23.68' S	170*36.78' W			29.51	5	8.8	336
" 48		#8	14*23.34' S	170*38.06' W			"		8.6	135
1203		#9	14*23.82' S	170*36.93' W			29.50		8.9	334
" 18		#10	14*23.22' S	170*38.06' W					9.0	136
" 33		#11	14*23.34' S	170*37.18' W					9.3	318
" 48		#12	14*23.40' S	170*37.92' W				10	9.2	137
1303		#13	14*23.22' S	170*37.14' W					9.2	318
" 18		#14	14*23.41' S	170*37.90' W					9.0	131
" 33		#15	14*23.32' S	170*37.10' W					9.1	317
		#16	14*2 S	170*3 W						
		#17	14*2 S	170*3 W				15		
		#18	14*2 S	170*3 W						
		#19	14*2 S	170*3 W						
		#20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1338	Finish Discharge	#16	14*22.86' S	170*37.57' W	NE-15	90%	29.50	E/SE-1.5	9.2	320
1340	Exit Discharge Zone	#17	14*22.65' S	170*37.75' W	" "	"	"	" "	9.2	331
1435	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center SW End of Discharge SW Discharge Pattern Ellipse

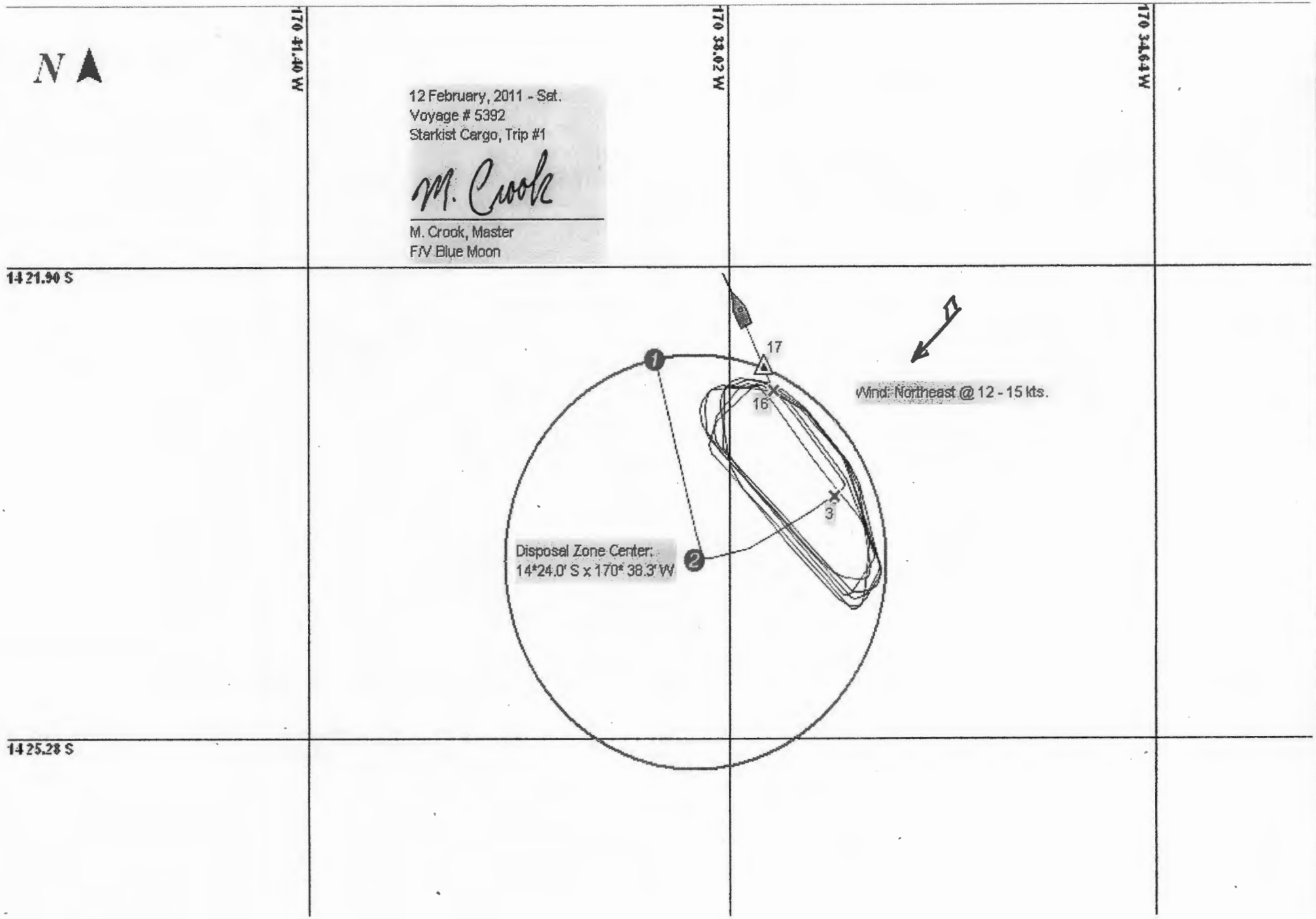
Total Discharge Time: 185 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.25 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
12 February, 2011 - Sat.
Voyage # 5392
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
1
2
Wind: Northeast @ 12 - 15 kts.
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

Date: 02/15/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5393

Permit # OD 93-01 & OD 93-02

	Time	
2/13	1130	Begin 1st Loading SK
	1300	Finish 1st Loading SK
2/14	1200	Begin 2nd Loading SK
	2035	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	192,500	Gallons
	Other	0	Gallons
	Total	192,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	NE-5	75	29.58			
0702	Arrive Edge of Zone	# 1	14*22.53' S	170*38.67' W	NE-10	80	29.59	East-1.0	8.5	164
0712	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.4	156
0720	Begin Discharge	# 3	14*23.53' S	170*37.33 W	" "	"	"	X	8.5	045
" 35		# 4	14*23.28' S	170*37.91' W			"		8.2	141
" 50	Remarks:	# 5	14*23.60' S	170*36.91' W			"		8.4	330
0805		# 6	14*23.11' S	170*38.63' W	NE-12	70	29.60		8.6	145
" 20		# 7	14*23.54' S	170*37.04' W			"	5	8.5	337
" 35		# 8	14*23.29' S	170*37.91' W			"		8.7	142
" 50		# 9	14*23.88' S	170*36.84' W			"		8.6	338
0905		# 10	14*23.19' S	170*38.0' W					8.9	146
" 20		# 11	14*23.61' S	170*36.92' W					8.7	335
" 35		# 12	14*22.72' S	170*38.03' W				10	8.3	228
" 50		# 13	14*23.78' S	170*36.94' W					8.9	331
1005		# 14	14*22.85' S	170*38.06' W					8.8	178
" 20		# 15	14*23.59' S	170*36.92' W			29.59		9.1	336
" 35		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1032	Finish Discharge	#16	14*22.71' S	170*37.77' W	NE-12	70%	29.59	East-1.0	9.2	285
1035	Exit Discharge Zone	#17	14*22.55' S	170*38.05 W					9.2	327
1125	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center SW End of Discharge SW Discharge Pattern Ellipse

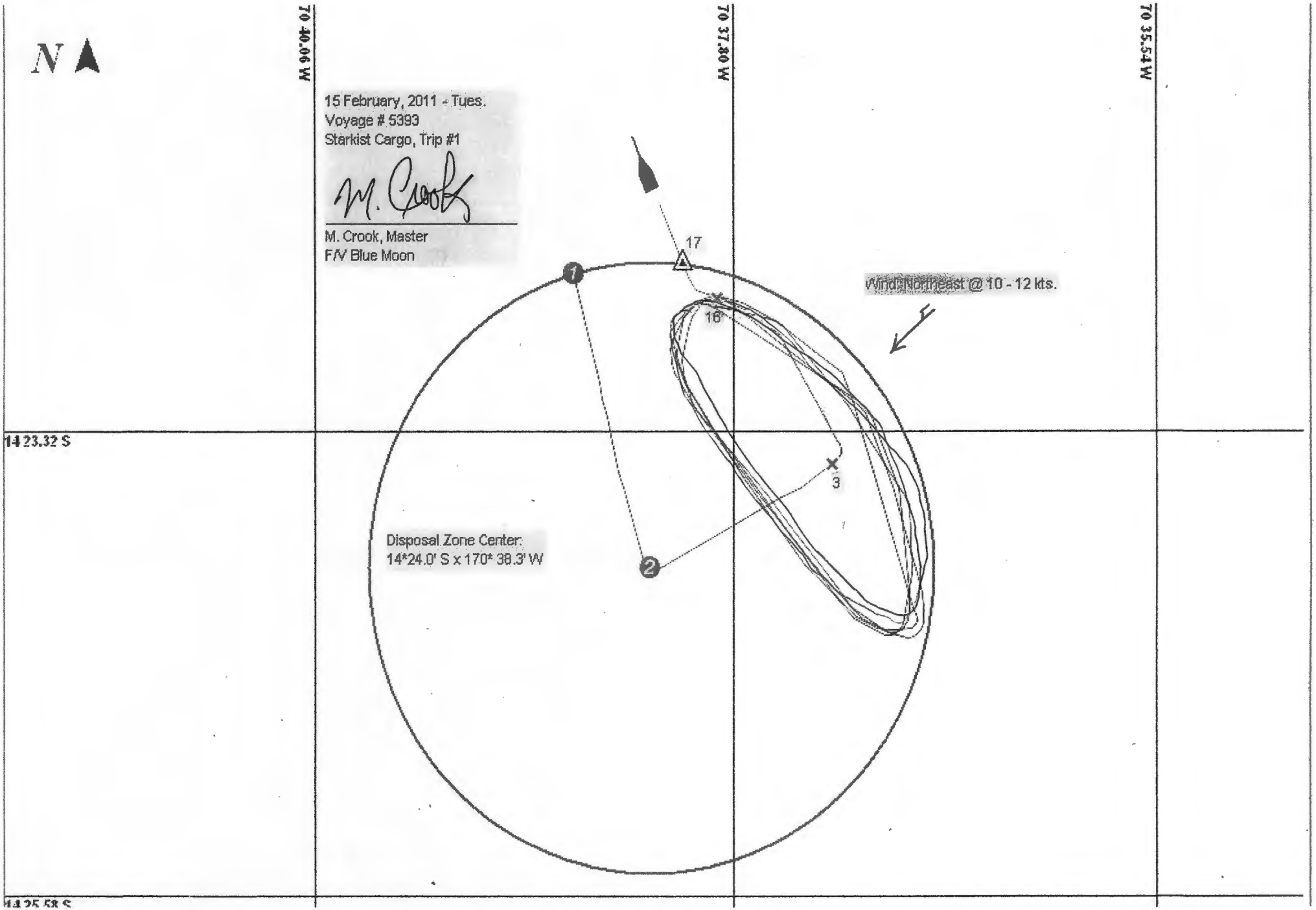
Total Discharge Time: 192 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 115.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
70 40.06 W
70 37.80 W
70 35.54 W
14 23.32 S
14 25.58 S
15 February, 2011 - Tues.
Voyage # 5393
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Wind: Northeast @ 10 - 12 kts.
17
16
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

Date: 02/17/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5394

Permit # OD 93-01 & OD 93-02

	Time	
2/16	1420	Begin 2nd Loading SK
	2100	Finish 2nd Loading SK
	0515	Begin 1st Loading SK
2/16	0545	Finish 1st Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	186,250	Gallons
	Other	0	Gallons
	Total	186,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-3	100	29.61			
0605	Arrive Edge of Zone	#1	14*22.52' S	170*38.65' W	ESE-7	"	"	E/SE-1.5	8.6	161
0613	Arrive Zone Center	#2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.3	157
0620	Begin Discharge	#3	14*23.98 S	170*37.11' W	ESE-10		"	" " X	8.5	090
" 35		#4	14*23.46' S	170*37.80' W	" "		29.62		8.4	181
" 50	Remarks:	#5	14*24.69' S	170*37.16' W	" "		"		8.7	049
0705		#6	14*23.30' S	170*37.08' W	" "		"		8.5	316
" 20		#7	14*24.73 S	170*37.71 W	" "		"	5	8.3	182
← Stop	Pumping —	#	14*2 S	170*3 W			29.63			
0750	Continue Pumping	#8	14*23.20' S	170*37.63' W	EAST-10		"		8.0	177
0805		#9	14*23.71 S	170*37.66' W	" "				8.7	184
" 20		#10	14*23.97 S	170*36.91' W	" "				8.6	004
" 35		#11	14*23.26' S	170*37.63' W				10	8.8	183
" 50		#12	14*24.99' S	170*37.45' W					8.6	047
0905		#13	14*24.24' S	170*37.64' W					8.7	181
" 20		#14	14*23.09' S	170*37.27' W					8.9	305
" 35		#15	14*24.50' S	170*37.61' W			29.64		8.8	176
" 50		#16	14*23.98' S	170*36.99' W	East-12	RAIN	"	15	9.0	000
1005		#17	14*23.49' S	170*37.74' W	East-15				8.8	181
20		#18	14*24.83' S	170*37.20 W					8.5	014
		#	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1030	Finish Discharge	#19	14*24.26' S	170*37.38 W	East-15	100%	29.64	E&SE-1.5	9.1	334
1045	Exit Discharge Zone	#20	14*22.59' S	170*38.07 W	" "	"	"	" "	9.3	330
1150	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 220 mins. Average Speed During Discharge: 8.64 kts. Total Time Run 4.66 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: _____ Discharge Rate: 98 Gallons/min/kt.

Unusual Occurrences? 0722-0750 - Stop Pumps + Engines for Engine Repair

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooke

N

170 41.40 W

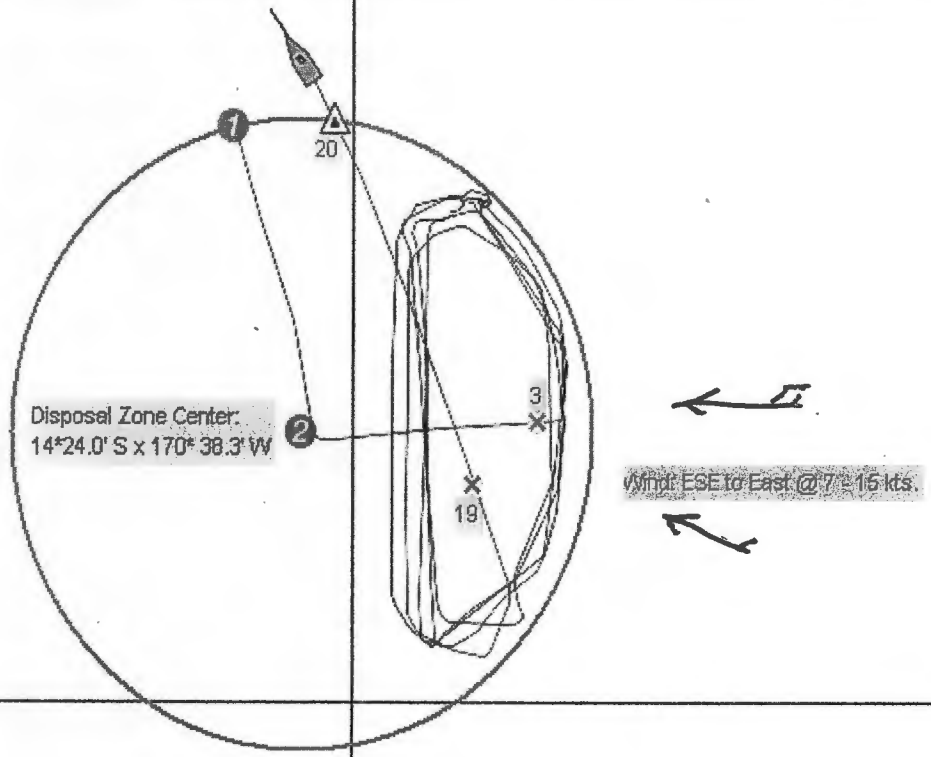
170 38.02 W

170 34.64 W

17 February, 2011 - Thurs.
Voyage # 5394
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon

14 21.90 S



14 25.28 S

Date: 02/19/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5395

Permit # OD 93-01 & OD 93-02

	Time	
2/18	1200	Begin 1st Loading SK
	1330	Finish 1st Loading SK
	1520	Begin 2nd Loading SK
↓	2120	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	194,500	Gallons
Other	0	Gallons
Total	194,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	90	29.58			
0605	Arrive Edge of Zone	# 1	14*22.51' S	170*38.70' W	East-8	"	29.59	SE-1.0	8.8	162
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-10	"	"	" "	8.3	154
0623	Begin Discharge	# 3	14*24.01' S	170*37.26' W	" "	"	"	" " X	8.5	090
" 38		# 4	14*23.47' S	170*37.82' W	" "	"	"	" "	8.7	180
" 53	Remarks:	# 5	14*24.53' S	170*37.08' W		"		" "	8.4	019
0708		# 6	14*23.15' S	170*37.82' W		"			8.6	187
" 23		# 7	14*25.14' S	170*37.55' W		80		5	8.5	086
" 38		# 8	14*23.67' S	170*36.97' W		"			8.9	357
" 53		# 9	14*24.34' S	170*37.78' W	East-12	"			9.3	179
0808		# 10	14*24.60' S	170*37.27' W	" "	70			8.8	018
" 23		# 11	14*23.21' S	170*37.71' W	" "	60		E/SE-1.5	9.2	184
" 38		# 12	14*24.97' S	170*37.40' W	" "	50		10	8.7	056
" 53		# 13	14*23.30' S	170*37.78' W		"			9.6	181
0908		# 14	14*24.85' S	170*37.22' W		"			8.9	017
" 23		# 15	14*23.12' S	170*37.39 W		60			9.1	271
" 38		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	#16	14*23.80' S	170*37.85' W	East-12	60%	29.59	E+SE-1.5	9.4	181
0945	Exit Discharge Zone	#17	14*22.54' S	170*38.64 W	" "	"	"	" "	9.5	337
1035	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

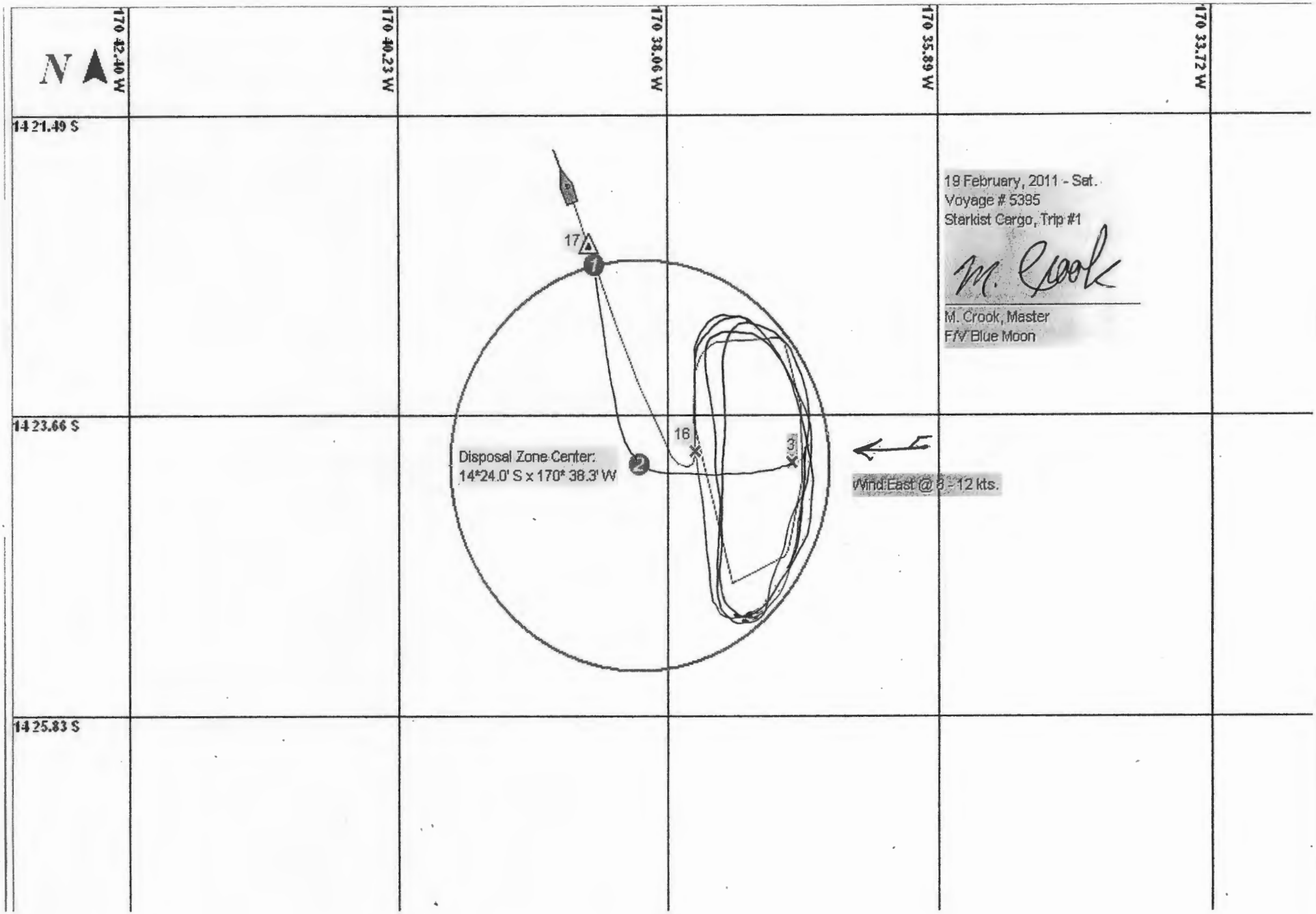
Total Discharge Time: 192 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 114 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooke


N
170 42.40 W
170 40.23 W
170 38.06 W
170 35.89 W
170 33.72 W
14 21.49 S
14 23.66 S
14 25.83 S
17
1
16
3
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind:East @ 8 - 12 kts.
19 February, 2011 - Sat.
Voyage # 5395
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon

Date: 02/22/11 Tues..

F/V Blue Moon Ocean Dumping Log

Voyage #: 5396

Permit # OD 93-01 & OD 93-02

	Time	
2/20	2230	Begin 1st Loading SK
	0030	Finish 1st Loading SK
↓	1640	Begin 2nd Loading SK
2/21	2140	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	190,000	Gallons
	Other	0	Gallons
	Total	190,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	60	29.58			
0605	Arrive Edge of Zone	# 1	14*22.57' S	170*38.69' W	East-5	75	"	East-1.0	8.7	162
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-7	"	"	" "	8.9	166
0622	Begin Discharge	# 3	14*24.10 S	170*37.24 W	" "	70	"	" " X	8.3	090
" 37		# 4	14*23.57' S	170*37.67' W	" "		"		8.8	184
" 52	Remarks:	# 5	14*24.41' S	170*37.64' W	" "		"		8.4	619
0707		# 6	14*23.19' S	170*37.63' W	East-10		29.59		8.7	183
" 22		# 7	14*25.05' S	170*37.44' W	" "			5	8.5	645
" 37		# 8	14*23.63' S	170*36.95' W	" "	"			8.6	356
" 52		# 9	14*24.36' S	170*37.70 W	" "	60			9.3	180
0807		# 10	14*24.42' S	170*36.96' W		"			8.7	009
" 22		# 11	14*23.21' S	170*37.67' W	East-12				8.6	186
" 37		# 12	14*25.00 S	170*37.37' W	" "			10	8.5	041
" 52		# 13	14*23.42' S	170*37.69' W	" "				9.5	188
0907		# 14	14*25.03' S	170*37.28' W	" "				8.8	035
" 22		# 15	14*23.24' S	170*37.07' W					9.0	330
" 37		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	# 16	14*23.66' S	170*37.73 W	East-12	60%	29.59	East-1.0	9.7	185
0945	Exit Discharge Zone	# 17	14*22.61' S	170*38.48 W	" "	"	" "	" "	9.5	338
1035	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

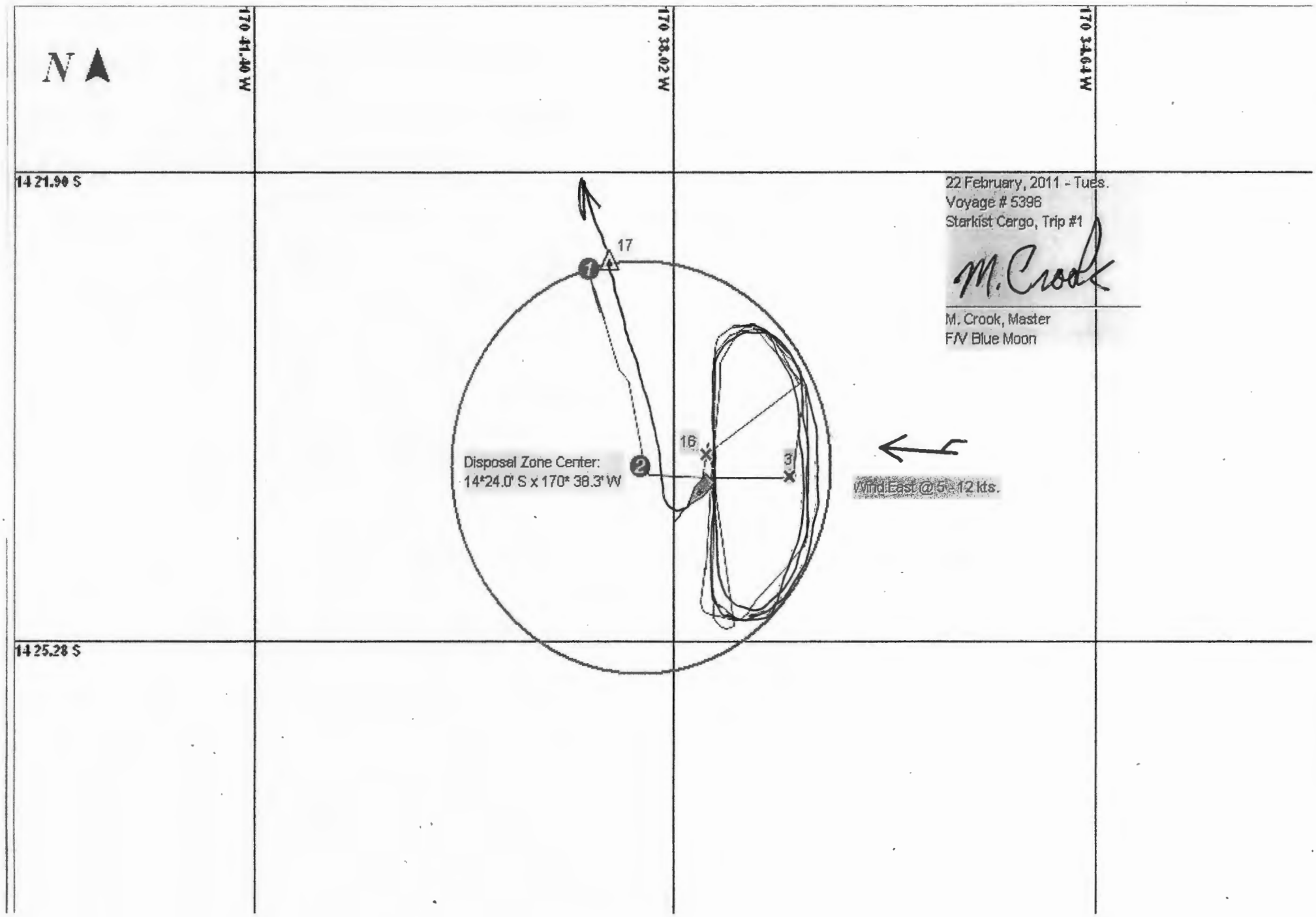
Total Discharge Time: 193 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
17
1
2
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind East @ 5-12 kts.
22 February, 2011 - Tues.
Voyage # 5396
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon

Date: 02/24/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5397

Permit # OD 93-01 & OD 93-02

Time	
1015	Begin 1st Loading SK
~~1145~~ 1115	Finish 1st Loading SK
1608	Begin 2nd Loading SK
2140	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	193,750	Gallons
Other	0	Gallons
Total	193,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	70	29.52			
0605	Arrive Edge of Zone	# 1	14*22.57' S	170*38.68' W	East-5	"	"	E/SE-1.0	8.8	164
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.7	159
0622	Begin Discharge	# 3	14*24.12' S	170*37.24 W	" "	"	"	" " X	8.4	090
" 37		# 4	14*23.62' S	170*37.79' W	East-7	75	"	" "	8.7	182
" 52	Remarks:	# 5	14*24.45' S	170*37.02' W		"			8.5	011
0707		# 6	14*23.11' S	170*37.59' W		"			8.3	262
" 22		# 7	14*25.05' S	170*37.46' W		70		5	8.6	036
" 37		# 8	14*23.61' S	170*36.69' W		"			8.8	357
" 52		# 9	14*24.73' S	170*37.80' W		"			8.6	181
0807		# 10	14*23.40' S	170*37.04' W		"			8.9	002
" 22		# 11	14*24.14' S	170*37.84' W		60			9.3	180
" 37		# 12	14*23.64' S	170*37.04' W		"		10	8.9	358
" 52		# 13	14*23.60' S	170*37.80' W		"			9.4	183
0907		# 14	14*24.42' S	170*37.05' W		"			9.2	003
" 22		# 15	14*24.27' S	170*37.93' W		"			9.8	177
" 37		# 16	14*24.51' S	170*37.15' W		"			8.9	014
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0940	Finish Discharge	# 17	14*23.81' S	170*37.32' W	East-7	60%	29.52	E/SE-1.0	9.5	331
0950	Exit Discharge Zone	# 18	14*22.63' S	170*37.83' W	" "	"	" "	" "	9.6	334
1040	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

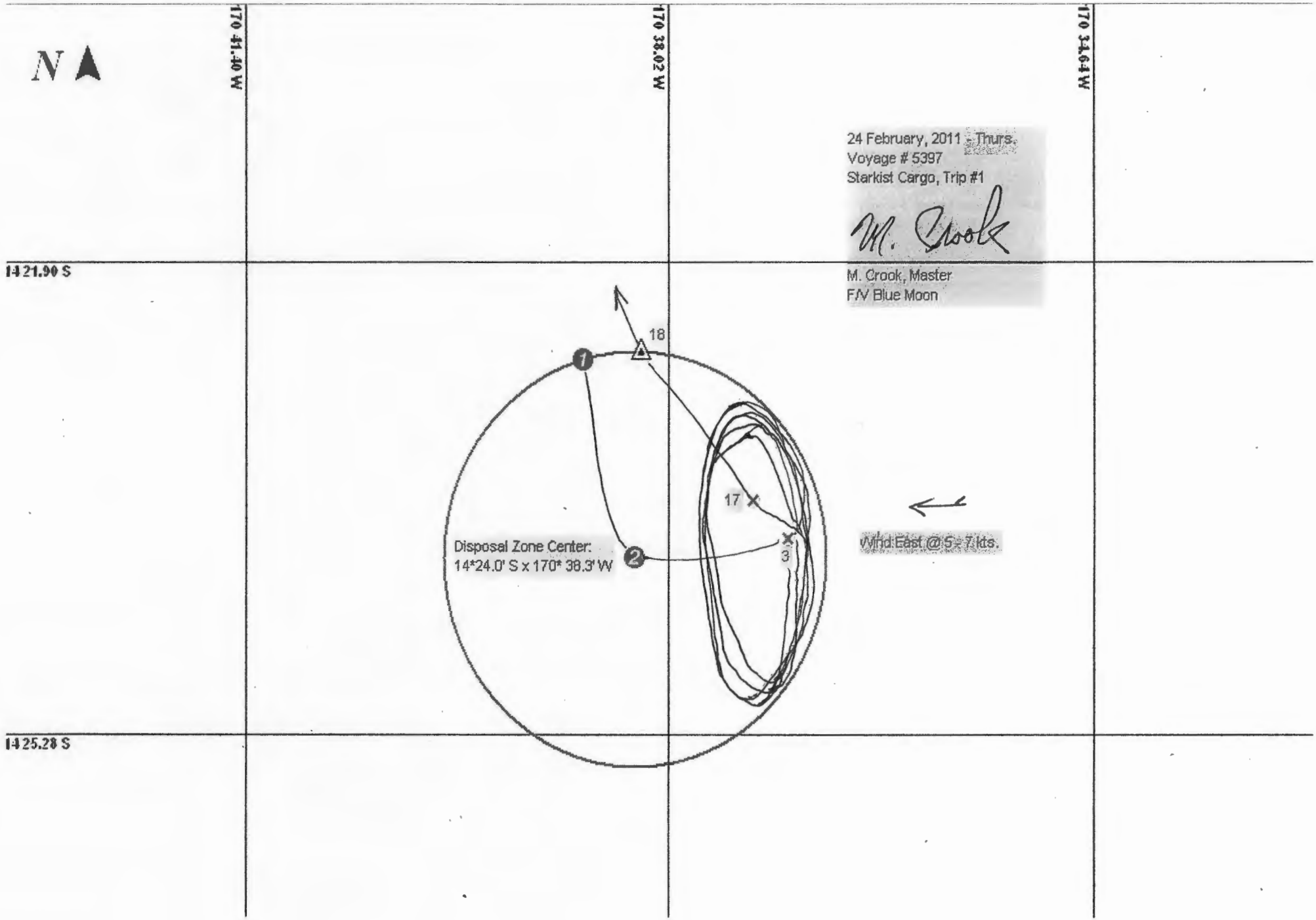
Total Discharge Time: 198 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.5 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooks


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
24 February, 2011 - Thurs.
Voyage # 5397
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
18
17
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind:East @ 5 - 7 kts.

Date: 02/26/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5398

Permit # OD 93-01 & OD 93-02

Time	
2/25 1510	Begin 1st Loading SK
2130	Finish 1st Loading SK
	Begin 2nd Loading SK
	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	181,250	Gallons
Other	0	Gallons
Total	181,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	75	29.58			
0558	Arrive Edge of Zone	# 1	14*22.54' S	170*38.70 W	East-5	80	"	E/SE-1.0	9.0	161
0608	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.8	162
0615	Begin Discharge	# 3	14*24.03' S	170*37.20' W	" "	70	"	" " X	8.6	089
" 30		# 4	14*23.87' S	170*37.70' W	" "	"	29.59		9.1	180
" 45	Remarks:	# 5	14*23.90' S	170*36.92' W	" "	"			8.7	000
0700		# 6	14*23.32' S	170*37.83' W	" "	"			9.2	178
" 15		# 7	14*24.70 S	170*37.13' W	East-7	75		5	8.8	036
" 30		# 8	14*23.24' S	170*37.85' W		"			8.8	185
" 45		# 9	14*24.74' S	170*37.13' W		"			8.7	026
0800		# 10	14*23.19' S	170*37.20' W		70			9.0	295
" 15		# 11	14*24.62' S	170*37.79' W		"			9.3	180
" 30		# 12	14*23.14' S	170*37.23' W		60	29.60	10	9.4	302
" 45		# 13	14*23.93' S	170*37.88' W	East-10	"			9.6	179
0900		# 14	14*23.77' S	170*36.99' W	" "	"			9.4	358
" 15		# 15	14*23.32' S	170*37.87' W	" "	50			9.1	177
" 30		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0920	Finish Discharge	#16	14*23.11' S	170*38.32' W	East-10	50%	29.60	E/SE-1.0	9.2	338
0925	Exit Discharge Zone	#17	14*22.68' S	170*37.73 W	" "	"	" "	" "	9.6	335
1020	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

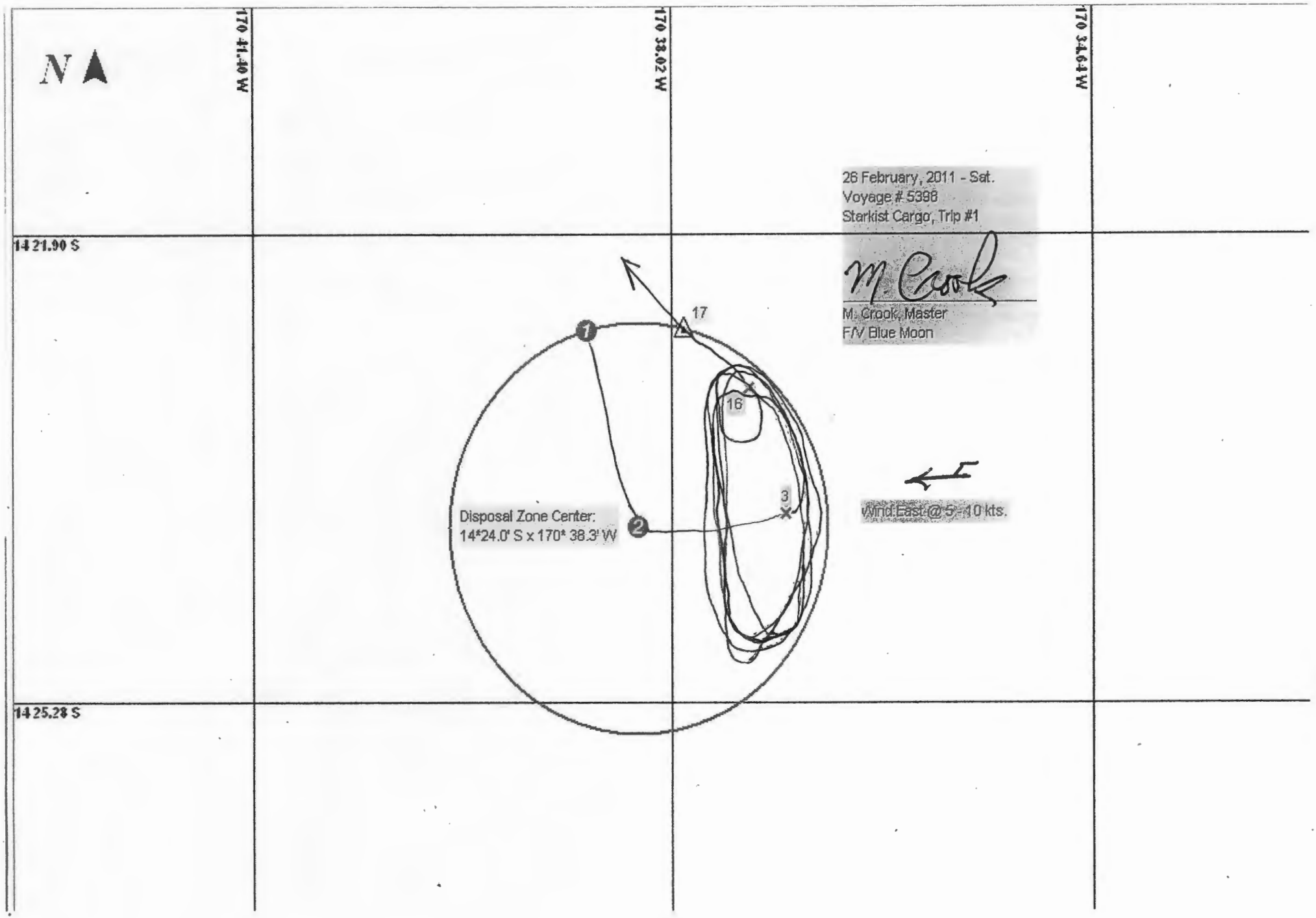
Total Discharge Time: 185 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 5.1 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 109 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
26 February, 2011 - Sat.
Voyage # 5398
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind East @ 5 - 10 kts.

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON February, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	12	0	0	**12**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	2,217,000	0	0	**2,217,000**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	2,217,000	**0**

RUNNING TIME ON TRIPS: **64.4 hrs.**

DISCHARGE TIME ON TRIPS: **38.33 hrs.**

AV. GPM DISCHARGE RATE: **111 gal/min/kt**

AV. TRIP TIME: **5.36 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER : M. Crook

M. Crook

Date: 02/01/11 tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5387

Permit # OD 93-01 & OD 93-02

	Time	
1/31	1530	Begin 1st Loading SK
	2230	Finish 1st Loading SK
	0130	Begin 2nd Loading SK
2/1	0245	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	196,250	Gallons
Other	0	Gallons
Total	196,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0625	Depart Starkist		14*16.50' S	170* 41.2' W	East-5	100-RAIN	29.63			
0725	Arrive Edge of Zone	# 1	14*22.54' S	170*38.69' W	East-20	100	"	East-2.0	8.3	162
0735	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	RAIN	29.64	" "	8.4	160
0743	Begin Discharge	# 3	14*24.00' S	170*37.22' W	" "	" "	29.65	" " X	8.0	090
58		# 4	14*23.41' S	170*37.78' W	E-22	" "	29.66	" "	8.3	178
0813	Remarks:	# 5	14*24.76' S	170*37.22' W	" "	100	"		8.5	010
" 28		# 6	14*22.94' S	170*37.51' W	" "	"	"		8.4	284
" 43		# 7	14*24.65' S	170*37.71' W	East-20	"	29.67	5	8.6	171
" 58		# 8	14*23.54' S	170*36.94' W	" "	"	"		8.8	335
0913		# 9	14*23.38' S	170*37.71' W	" "	"	"		8.6	180
" 28		# 10	14*24.53' S	170*37.03' W	East-22	"	"		8.7	032
" 43		# 11	14*23.38' S	170*37.88' W	" "	"	"		8.9	184
" 58		# 12	14*24.73' S	170*37.06' W	East-20	"	"	10	9.1	013
1013		# 13	14*23.06' S	170*37.32' W	" "	"	"		9.2	278
" 28		# 14	14*24.81' S	170*37.67' W	" "	"	"		9.1	180
" 43		# 15	14*23.22' S	170*37.09' W	" "	"	"		9.4	319
" 58		# 16	14*23.37' S	170*37.10' W	" "				9.0	000
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1100	Finish Discharge	# 17	14*23.02' S	170*37.29' W	East-20	100	29.66	East-2.0	9.4	321
1102	Exit Discharge Zone	# 18	14*22.84' S	170*37.42' W	" "	"	"	" "	9.5	327
1205	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse.

Total Discharge Time: 197 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.66 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None. Discharge Rate: 113 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

N

170 41.40 W

170 38.02 W

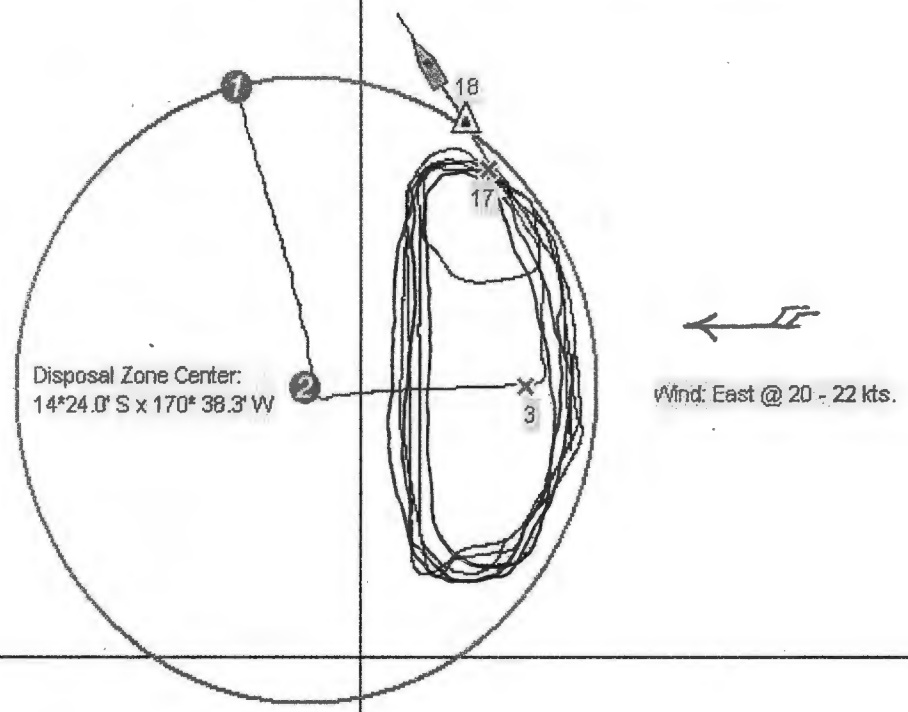
170 34.64 W

01 February, 2011 - Tues.
Voyage # 5387
Starkist Cargo, Trip #1

M. Crook

M. Crook, Master
F/V Blue Moon

14 21.90 S



14 25.28 S

Date: 02/03/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5388

Permit # OD 93-01 & OD 93-02

Time	
1200	Begin 1st Loading SK
1315	Finish 1st Loading SK
1530	Begin 2nd Loading SK
2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	East-5	60	29.61			
0705	Arrive Edge of Zone	# 1	14*22.57' S	170*38.67' W	East-12	50	"	East-1.5	8.6	161
0715	Arrive Zone Center	# 2	14*24.0 S	170*38.30' W	" "	"	"	" "	8.4	163
0725	Begin Discharge	# 3	14*23.98' S	170*37.19 W	" "	"	"	" " X	8.3	090
40		# 4	14*22.44' S	170*37.80' W	" "	60	"	" "	8.5	179
55	Remarks:	# 5	14*24.53' S	170*36.98' W	" "		"		8.6	002
0810	Fueling	# 6	14*22.94' S	170*37.75 W	" "		"		8.4	197
25	1135- 0	# 7	14*24.62' S	170*37.82' W	East-15		"	5	8.7	180
40		# 8	14*23.60' S	170*36.98' W	" "		"		9.0	358
55		# 9	14*24.13' S	170*37.82' W	" "		29.62		8.8	180
0910		# 10	14*24.75' S	170*37.08' W					8.9	004
25		# 11	14*23.04' S	170*37.73 W					8.8	177
40		# 12	14*25.02' S	170*37.34' W				10	8.1	023
55		# 13	14*22.96' S	170*37.38' W					9.3	309
1010		# 14	14*24.02' S	170*37.79' W		70			9.0	180
25		# 15	14*24.20' S	170*36.92' W					9.5	002
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1030	Finish Discharge	# 16	14*23.05' S	170*37.30' W	East-15	75%	29.62	East-1.5	9.8	331
1032	Exit Discharge Zone	# 17	14*22.82' S	170*37.42' W	" "	"	"	" "	9.9	333
1320	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 185 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 111.6 Gallons/min/kt.

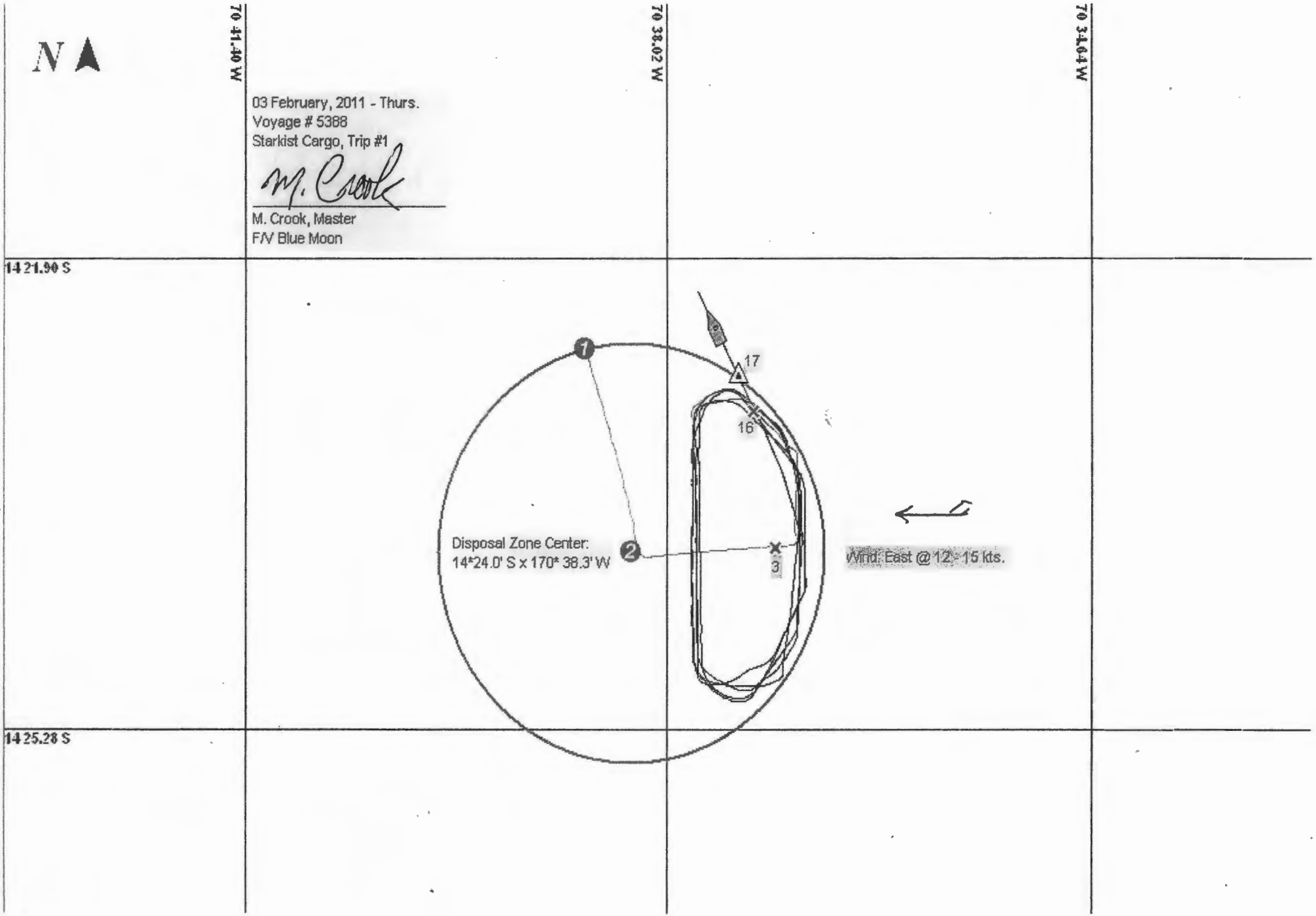
Unusual Occurrences? None (Fueling 1135-1310)

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

N

03 February, 2011 - Thurs.
Voyage # 5388
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon



Date: 02/05/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5389

Permit # OD 93-01 & OD 93-02

	Time	
2/4	1530	Begin 1st Loading SK
	2100	Finish 1st Loading SK
	0415	Begin 2nd Loading SK
2/5	0500	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	188,750	Gallons
Other	0	Gallons
Total	188,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100	29.62			
0705	Arrive Edge of Zone	# 1	14*22. 51' S	170*38. 68' W	"	100	29.65	mixed to 1.0	8.7	164
0715	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	"	"	29.66	" "	8.7	161
0725	Begin Discharge	# 3	14*23.95' S	170*37.24' W	East-3	"	29.67	" " X	8.4	090
" 40		# 4	14*23.70' S	170*37.73' W	" "		"		8.6	185
" 55	Remarks:	# 5	14*24.14' S	170*36.88 W	East-2		"		8.7	002
0810		# 6	14*23.08' S	170*37.47' W			"		8.5	214
" 25		# 7	14*24.77' S	170*37.70' W	Variable-5	Rain	"	5	8.7	179
" 40		# 8	14*23.16' S	170*37.28' W	SW-5	"	"		8.6	305
" 55		# 9	14*24.73' S	170*37.69' W	SE-7	"	"		8.9	181
0910		# 10	14*23.31' S	170*37.07' W	East-7	"	"		9.1	319
" 25		# 11	14*24.62' S	170*37.59 W	East-5	100	"		8.8	180
" 40		# 12	14*23.35' S	170*37.01' W	"		29.66	10	9.0	342
" 55		# 13	14*24.61' S	170*37.55' W	"		"		8.9	178
1010		# 14	14*23.54' S	170*36.95' W	"		"		9.2	001
" 25		# 15	14*24.38' S	170*37.61' W	"		29.65		9.1	177
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1035	Finish Discharge	# 16	14*23.39' S	170*37.73' W	East-5	100%	29.63	Mixed-1.0	9.6	336
1045	Exit Discharge Zone	# 17	14*22.58' S	170*38.00' W	" "	"	29.62	" "	9.6	337
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West (Slow) Discharge Pattern Ellipse

Total Discharge Time: 190 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

N

170 41.40 W

170 38.02 W

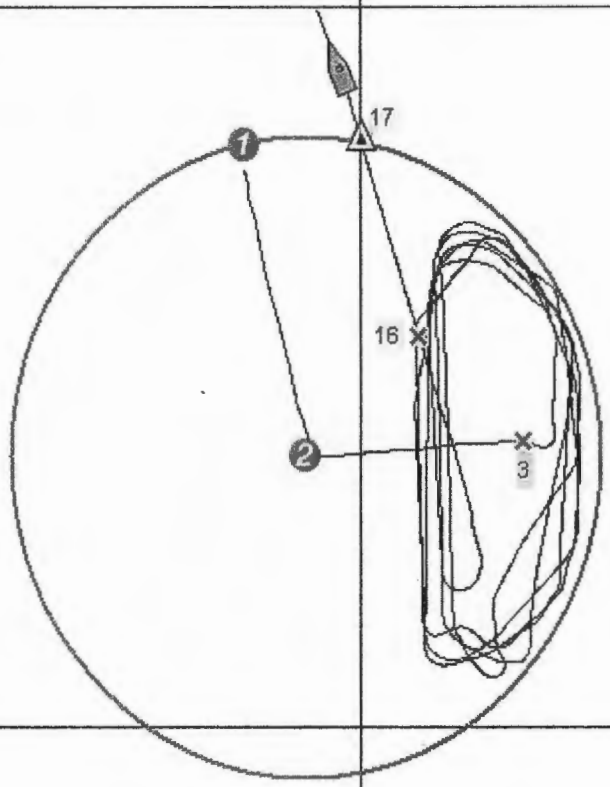
170 34.64 W

05 February, 2011 - Sat.
Voyage # 5389
Starkist Cargo, Trip #1

M. Crook

M. Crook, Master
F/V Blue Moon

14 21.90 S



Disposal Zone Center:
14°24.0' S x 170° 38.3' W

Wind: Calm to variable/east @ 5 - 7 kts.

14 25.28 S

Date: 02/08/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5390

Permit # OD 93-01 & OD 93-02

	Time	
2/6	1945	Begin 1st Loading SK
	2100	Finish 1st Loading SK
2/7	1630	Begin 2nd Loading SK
	2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	174,500	Gallons
Other	0	Gallons
Total	174,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	East-12	70	29.53			
0710	Arrive Edge of Zone	# 1	14*22.55' S	170*38.66' W	East-15	80	29.54	E/SE-2.0	8.2	161
0720	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-18	"	"	" "	8.1	165
0730	Begin Discharge	# 3	14*24.10' S	170*37.21' W	" "	"	"	" " X	7.9	090
" 45		# 4	14*23.86' S	170*37.73' W		"			8.6	180
0800	Remarks:	# 5	14*24.71' S	170*37.07' W		"			8.3	017
" 15		# 6	14*23.08 S	170*37.42 W		"			8.5	276
" 30		# 7	14*24.87' S	170*37.80' W		90		5	8.7	182
" 45		# 8	14*23.95' S	170*33.91 W	East-20	"			8.9	001
0900		# 9	14*23.81' S	170*37.83' W	" "	"			8.8	179
" 15		# 10	14*24.13' S	170*36.91' W	" "	"			8.6	358
" 30		# 11	14*23.17' S	170*37.60' W					8.9	221
" 45		# 12	14*25.00' S	170*37.47' W				10	8.7	034
1000		# 13	14*23.06' S	170*37.53' W		Rain 100	29.53		8.5	276
" 15		# 14	14*24.60' S	170*37.69' W		90			9.1	185
" 30		# 15	14*24.06' S	170*37.00 W		80	29.52		9.3	000
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1035	Finish Discharge	#16	14*23.12 S	170*37.20' W	East-20	80%	29.52	E/SE-2.0	9.2	307
1038	Exit Discharge Zone	#17	14*22.75' S	170*37.45' W	" "	"	"	" "	9.4	321
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 185 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 108 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

N

170 41.40 W

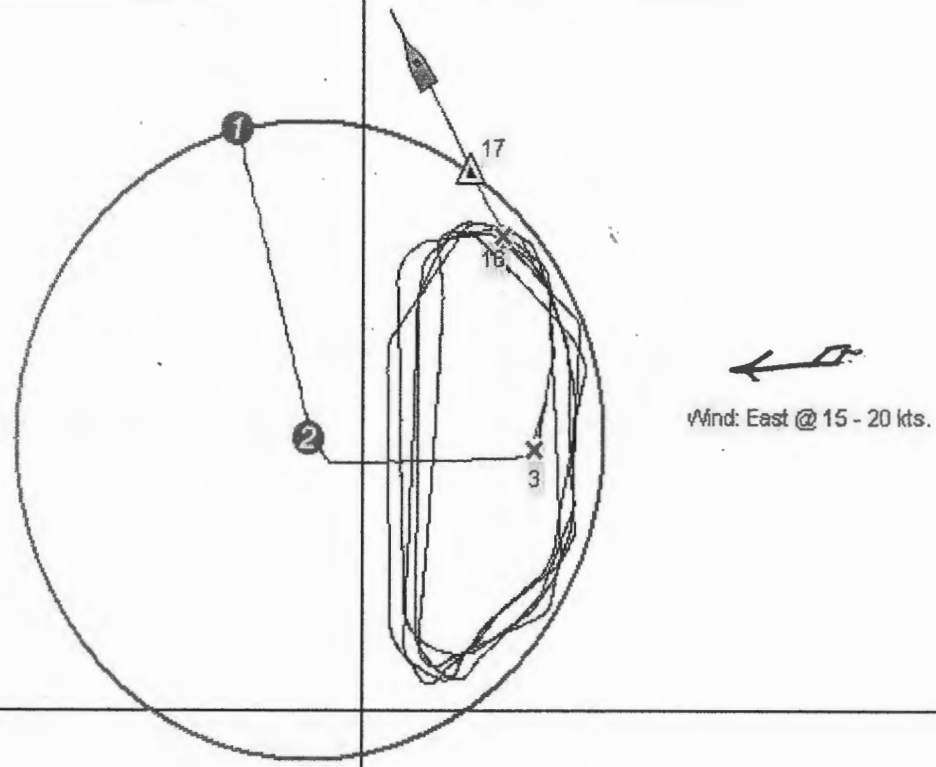
170 38.02 W

170 34.64 W

08 February, 2011 - Tues.
Voyage # 5390
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon

14 21.90 S



Disposal Zone Center:
14*24.0' S x 170* 38.3' W

14 25.28 S

Date: 02/10/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5391

Permit # OD 93-01 & OD 93-02

	Time	
2/8	1945	Begin 1st Loading SK
	2115	Finish 1st Loading SK
	1700	Begin 2nd Loading SK
2/9	2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	182,500	Gallons
Other	0	Gallons
Total	182,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100	29.59			
0702	Arrive Edge of Zone	# 1	14*22.55' S	170*38.67' W	" "	"	"	ESE-1	8.6	163
0712	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	29.60	" "	8.5	168
0735	Begin Discharge	# 3	14*23.91' S	170*37.13 W			"	" X	8.0	066
50		# 4	14*24.10' S	170*37.69' W			"	" "	8.6	179
0805	Remarks:	# 5	14*23.93' S	170*36.92' W					8.7	005
20	0725-Control	# 6	14*23.14' S	170*37.66' W					8.9	180
35	Monitoring	# 7	14*24.69' S	170*37.20' W				ESE-1.0	8.8	022
50	Samples @	# 8	14*23.62' S	170*37.67' W					9.0	184
0905	Drown @	# 9	14*25.06' S	170*37.32' W					8.6	046
20	14° 24.04' S x	# 10	14*23.21' S	170*37.16' W					9.2	321
35	170° 37.14' W	# 11	14*25.08' S	170*37.53' W					8.9	148
50		# 12	14*23.17' S	170*37.21' W			29.59	10	9.1	307
1005		# 13	14*24.86' S	170*37.63' W	East-2				9.3	181
20		# 14	14*23.55' S	170*36.96' W	"		29.57		9.6	336
35		# 15	14*2 S	170*3. W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1033	Finish Discharge	# 15	14*23.82' S	170*37.47' W	East-3	100%	29.56	ESE-1.0	9.4	145
1140	Exit Discharge Zone	# 16	14*22.58 S	170*38.48 W	" "	"	29.54	" "	9.7	339
1230	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West (slow) Discharge Pattern Ellipse

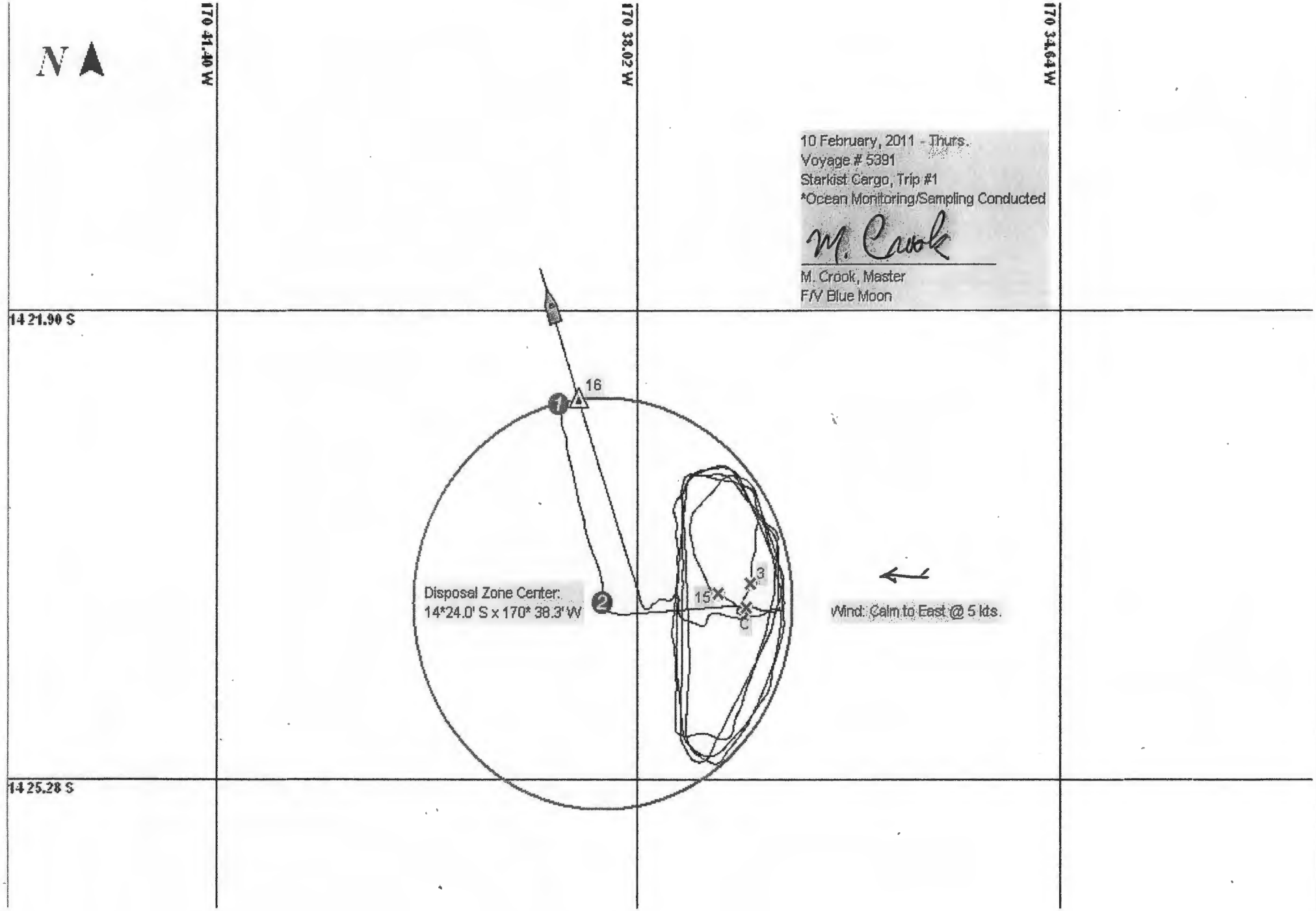
Total Discharge Time: 178 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 6.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: Discharge Rate: 115.2 Gallons/min/kt.

Unusual Occurrences? Ocean Monitoring Conducted.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Carol


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
10 February, 2011 - Thurs.
Voyage # 5391
Starkist Cargo, Trip #1
*Ocean Monitoring/Sampling Conducted
M. Crook, Master
F/V Blue Moon
16
1
2
3
15
C
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: Calm to East @ 5 kts.

Date: 02/12/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5392

Permit # OD 93-01 & OD 93-02

	Time	
2/10	1745	Begin 1st Loading SK
	1900	Finish 1st Loading SK
2/11	0800	Begin 2nd Loading SK
	2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	184,250	Gallons
Other	0	Gallons
Total	184,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0920	Depart Starkist		14*16.50' S	170* 41.2' W	East-7	90	29.51			
1015	Arrive Edge of Zone	# 1	14*22.56' S	170*38.63 W	NE-12	"	29.52	E/SE-1.5	8.4	160
1025	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.3	166
1033	Begin Discharge	# 3	14*23.61' S	170*37.29' W	" "	80	"	" " X	8.7	045
" 48		# 4	14*23.43' S	170*37.89' W	" "	"	"		8.6	136
1103	Remarks:	# 5	14*23.42' S	170*37.06' W	NE-15	90	"		8.6	338
" 18		# 6	14*23.39' S	170*37.97' W	" "	"	"		8.4	141
" 33		# 7	14*23.68' S	170*36.98' W			29.51	5	8.8	336
" 48		# 8	14*23.34' S	170*38.06' W			"		8.6	135
1203		# 9	14*23.82' S	170*36.93' W			29.50		8.9	334
" 18		# 10	14*23.22' S	170*38.06' W					9.0	136
" 33		# 11	14*23.34' S	170*37.18' W					9.3	318
" 48		# 12	14*23.40' S	170*37.92' W				10	9.2	137
1303		# 13	14*23.22' S	170*37.14' W					9.2	318
" 18		# 14	14*23.41' S	170*37.90' W					9.0	131
" 33		# 15	14*23.32' S	170*37.10' W					9.1	317
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1338	Finish Discharge	# 16	14*22.86' S	170*37.57' W	NE-15	90%	29.50	E/SE-1.5	9.2	320
1340	Exit Discharge Zone	# 17	14*22.65' S	170*37.75' W	" "	"	"	" "	9.2	331
1435	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center SW End of Discharge SW Discharge Pattern Ellipse

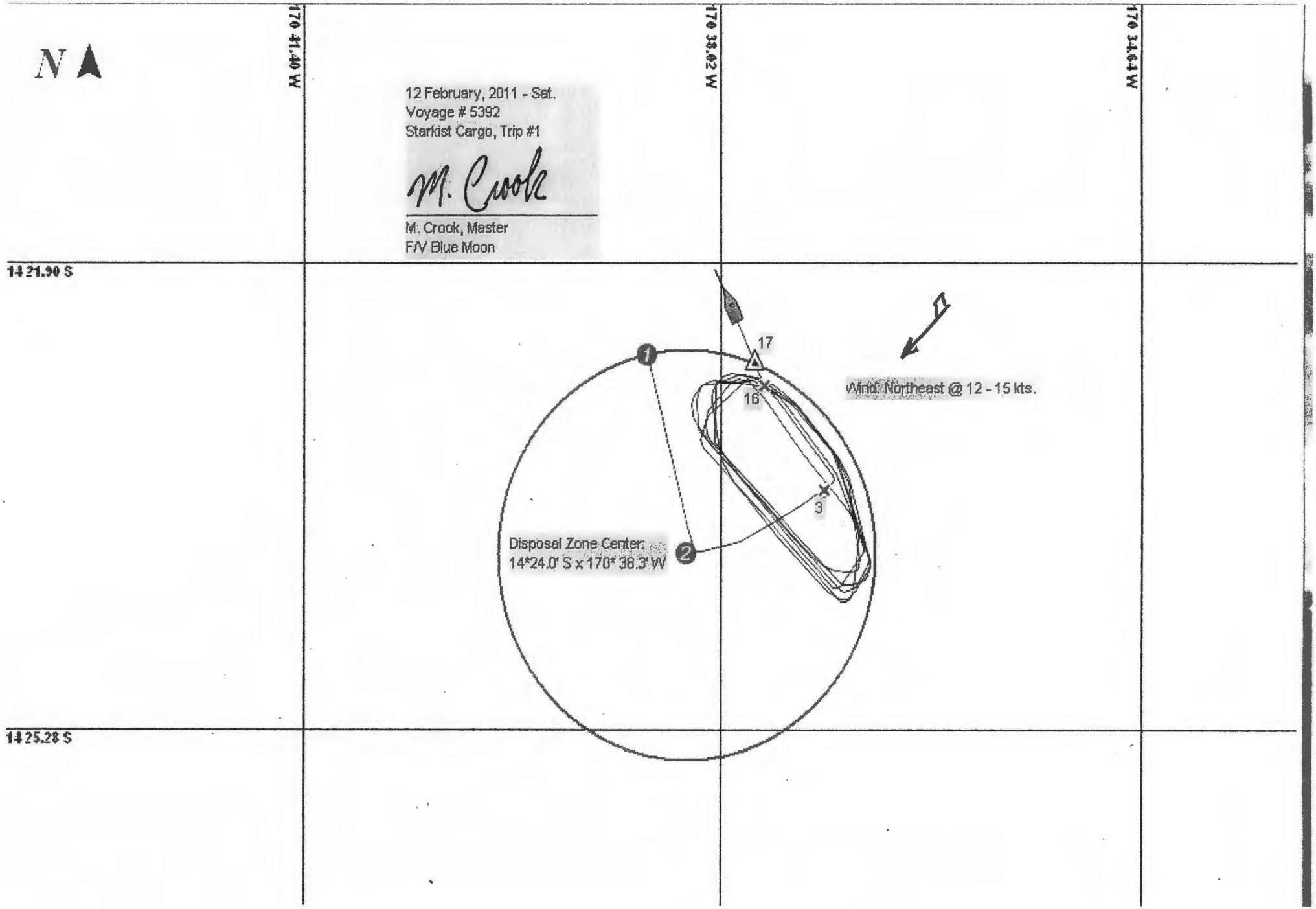
Total Discharge Time: 185 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.25 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
12 February, 2011 - Sat.
Voyage # 5392
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
1
2
Wind: Northeast @ 12 - 15 kts.
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

Date: 02/15/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5393

Permit # OD 93-01 & OD 93-02

	Time	
2/13	1130	Begin 1st Loading SK
	1300	Finish 1st Loading SK
2/14	1200	Begin 2nd Loading SK
	2035	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	192,500	Gallons
Other	0	Gallons
Total	192,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	NE-5	75	29.58			
0702	Arrive Edge of Zone	# 1	14*22. 53' S	170*38. 67' W	NE-10	80	29.59	East-1.0	8.5	164
0712	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.4	156
0720	Begin Discharge	# 3	14*23.53' S	170*37.33 W	" "	"	"	X	8.5	045
" 35		# 4	14*23.28' S	170*37.91' W			"		8.2	141
" 50	Remarks:	# 5	14*23.60' S	170*36.91' W			"		8.4	330
0805		# 6	14*23.11' S	170*38.63' W	NE-12	70	29.60		8.6	145
" 20		# 7	14*23.54' S	170*37.04' W			"	5	8.5	337
" 35		# 8	14*23.27 S	170*37.91' W			"		8.7	142
" 50		# 9	14*23.88' S	170*36.84 W			"		8.6	338
0905		# 10	14*23.19' S	170*38.00' W					8.9	146
" 20		# 11	14*23.61' S	170*36.92' W					8.7	335
" 35		# 12	14*22.72' S	170*38.03' W				10	8.3	228
" 50		# 13	14*23.78' S	170*36.94' W					8.9	331
1005		# 14	14*22.85' S	170*38.06' W					8.8	178
" 20		# 15	14*23.59 S	170*36.92' W			29.59		9.1	336
" 35		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1032	Finish Discharge	#16	14*22.71' S	170*37.77' W	NE-12	70%	29.59	East-1.0	9.2	285
1035	Exit Discharge Zone	#17	14*22.55' S	170*38.05 W					9.2	327
1125	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center SW End of Discharge SW Discharge Pattern Ellipse

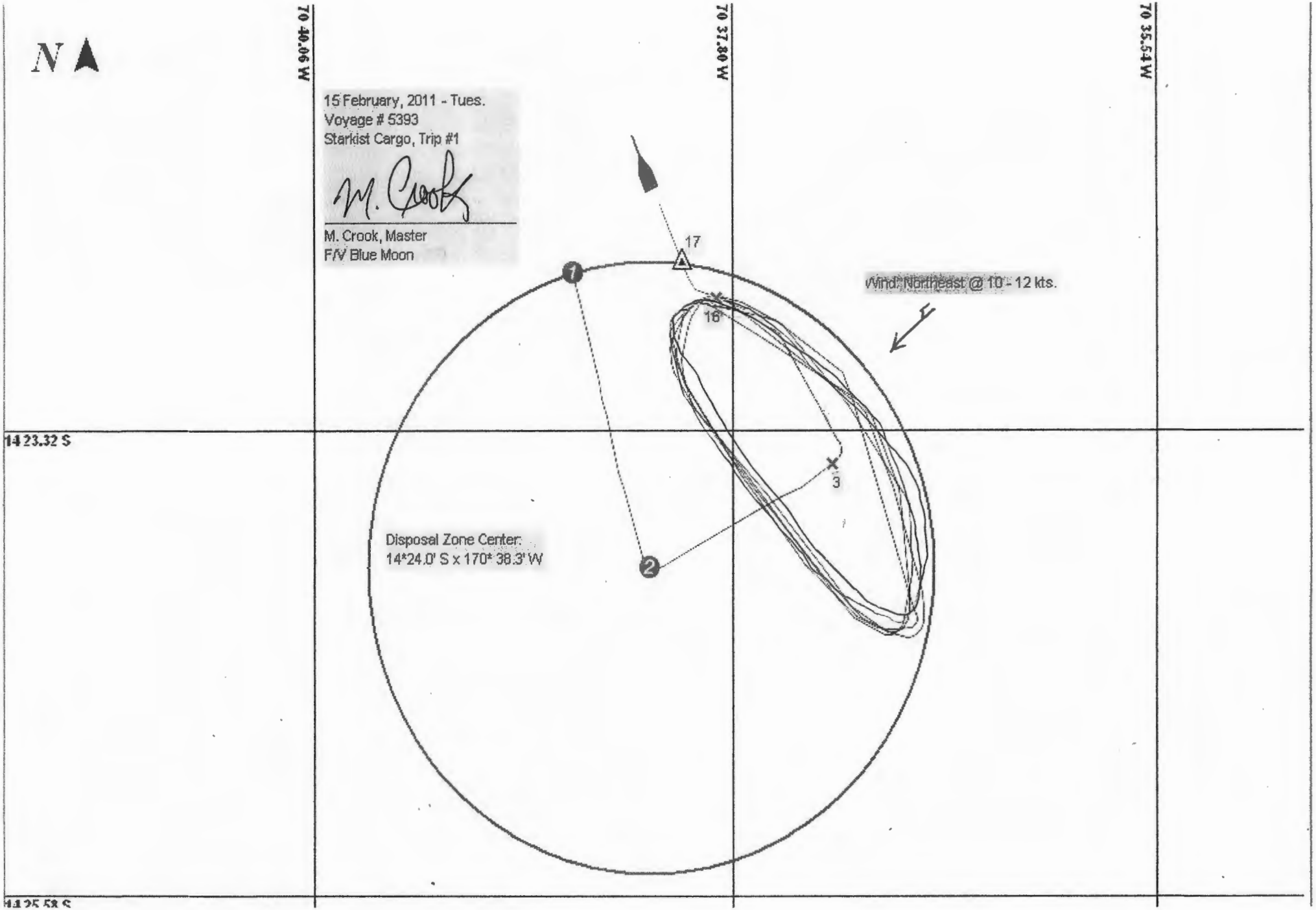
Total Discharge Time: 192 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 115.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
70 40.06 W
70 37.80 W
70 35.54 W
14 23.32 S
14 25.58 S
15 February, 2011 - Tues.
Voyage # 5393
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
1
2
Wind: Northeast @ 10 - 12 kts.
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

Date: 02/17/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5394

Permit # OD 93-01 & OD 93-02

	Time	
2/16	1420	Begin 2nd Loading SK
	2100	Finish 2nd Loading SK
2/16	0515	Begin 1st Loading SK
	0545	Finish 1st Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	186,250	Gallons
Other	0	Gallons
Total	186,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-3	100	29.61			
0605	Arrive Edge of Zone	# 1	14*22.52' S	170*38.65' W	ESE-7	"	"	E/SE-1.5	8.6	161
0613	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.3	157
0620	Begin Discharge	# 3	14*23.98 S	170*37.11' W	ESE-10		"	" " X	8.5	090
" 35		# 4	14*23.46' S	170*37.80 W	" "		29.62		8.4	181
" 50	Remarks:	# 5	14*24.69' S	170*37.16' W	" "		"		8.7	049
0705		# 6	14*23.30' S	170*37.08' W	" "		"		8.5	316
" 20		# 7	14*24.73 S	170*37.71 W	" "		"	5	8.3	182
← Stop	Pumping —	#	14*2 S	170*3 W			29.63			
0750	Continue Pumping	# 8	14*23.20' S	170*37.63' W	EAST-10		"		8.0	177
0805		# 9	14*23.71 S	170*37.66' W	" "				8.7	184
" 20		# 10	14*23.97 S	170*36.91' W	" "				8.6	004
" 35		# 11	14*23.26' S	170*37.63 W				10	8.8	183
" 50		# 12	14*24.99' S	170*37.45 W					8.6	047
0905		# 13	14*24.24' S	170*37.64' W					8.7	181
" 20		# 14	14*23.09' S	170*37.27' W					8.9	305
" 35		# 15	14*24.56' S	170*37.61' W			29.64		8.8	176
" 50		# 16	14*23.98' S	170*36.99' W	East-12	RAIN	"	15	9.0	000
1005		# 17	14*23.49' S	170*37.74' W	East-15				8.8	181
20		# 18	14*24.83' S	170*37.20 W					8.5	014
		#	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1030	Finish Discharge	# 19	14*24.26' S	170*37.38 W	East-15	100%	29.64	E&SE-1.5	9.1	334
1045	Exit Discharge Zone	# 20	14*22.59' S	170*38.07 W	" "	"	"	" "	9.3	330
1150	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 220 mins. Average Speed During Discharge: 8.64 kts. Total Time Run 4.66 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: _____ Discharge Rate: 98 Gallons/min/kt.

Unusual Occurrences? 0722-0750 - Stop Pumps & Engines for Engine Repair

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cooke

N

170 41.40 W

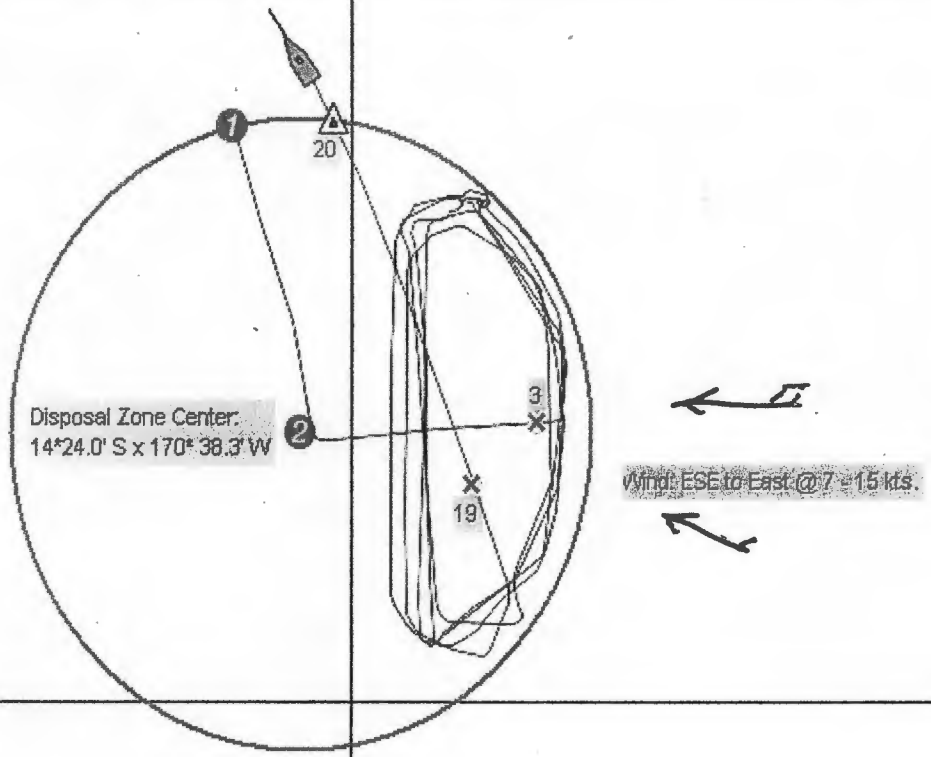
170 38.02 W

170 34.64 W

17 February, 2011 - Thurs.
Voyage # 5394
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon

14 21.90 S



14 25.28 S

Date: 02/19/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5395

Permit # OD 93-01 & OD 93-02

	Time	
2/18	1200	Begin 1st Loading SK
	1330	Finish 1st Loading SK
	1520	Begin 2nd Loading SK
	2120	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	194,500	Gallons
Other	0	Gallons
Total	194,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	90	29.58			
0605	Arrive Edge of Zone	# 1	14*22.51' S	170*38.70' W	East-8	"	29.59	SE-1.0	8.8	162
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-10	"	"	" "	8.3	154
0623	Begin Discharge	# 3	14*24.01' S	170*37.26' W	" "	"	"	" " X	8.5	090
" 38		# 4	14*23.47' S	170*37.82' W	" "	"	"	" "	8.7	180
" 53	Remarks:	# 5	14*24.53' S	170*37.08' W		"		" "	8.4	010
0708		# 6	14*23.15' S	170*37.82' W		"			8.6	187
" 23		# 7	14*25.14' S	170*37.55' W		80		5	8.5	086
" 38		# 8	14*23.67' S	170*36.97' W		"			8.9	357
" 53		# 9	14*24.34' S	170*37.78' W	East-12	"			9.3	179
0808		# 10	14*24.60' S	170*37.27' W	" "	70			8.8	018
" 23		# 11	14*23.21' S	170*37.71' W	" "	60		E/SE-1.5	9.2	184
" 38		# 12	14*24.97' S	170*37.42' W	" "	50		10	8.7	056
" 53		# 13	14*23.30' S	170*37.78' W		"			9.6	181
0908		# 14	14*24.85' S	170*37.22' W		"			8.9	017
" 23		# 15	14*23.12' S	170*37.39 W		60			9.1	271
" 38		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	#16	14*23.80' S	170*37.85' W	East-12	60%	29.59	E+SE-1.5	9.4	181
0945	Exit Discharge Zone	#17	14*22.54' S	170*38.64 W	" "	"	"	" "	9.5	337
1035	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

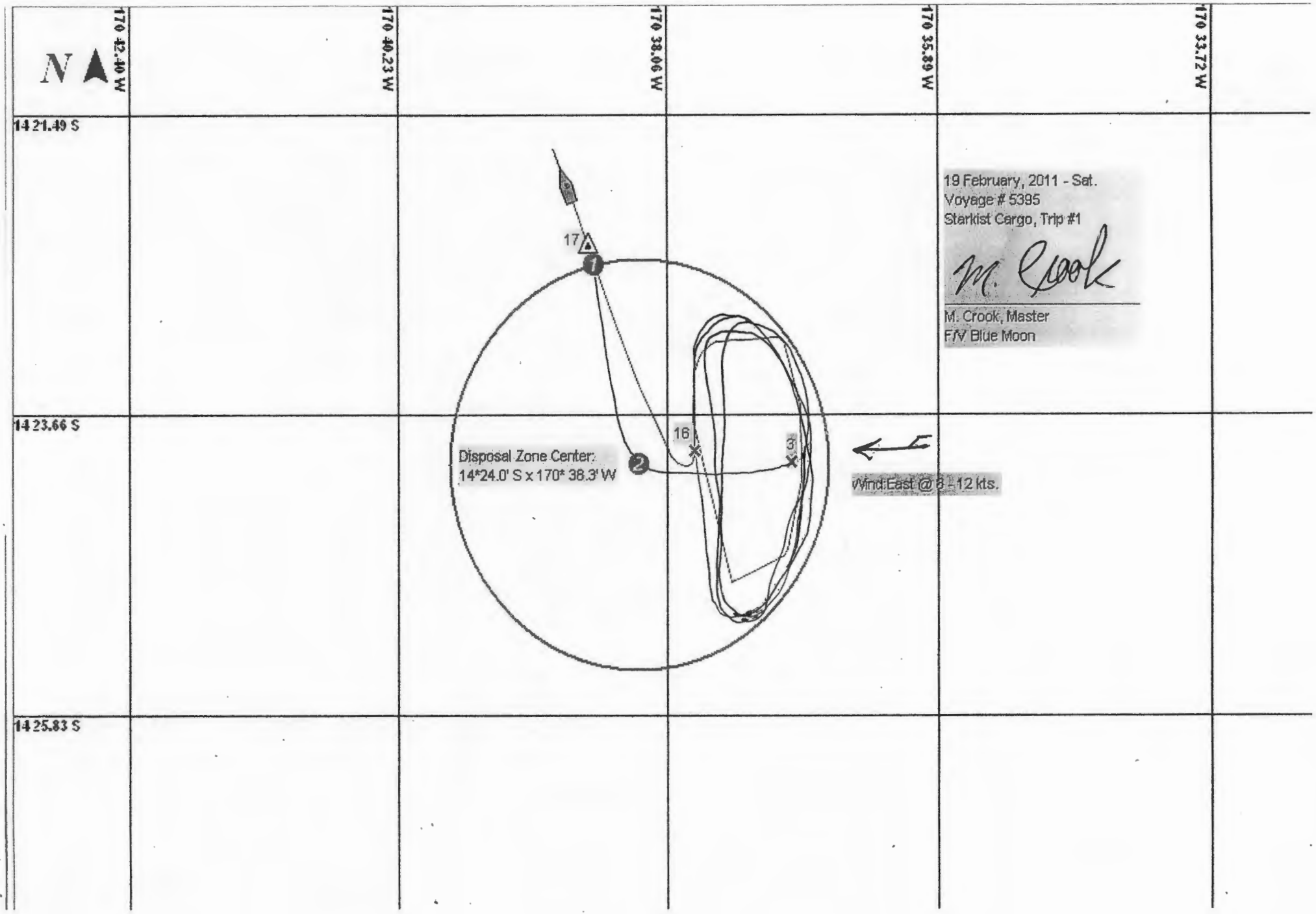
Total Discharge Time: 192 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 114 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooke


N
170 42.40 W
170 40.23 W
170 38.06 W
170 35.89 W
170 33.72 W
14 21.49 S
14 23.66 S
14 25.83 S
17
1
2
16
3
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind:East @ 8 - 12 kts.
19 February, 2011 - Sat.
Voyage # 5395
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon

Date: 02/22/11 Tues..

F/V Blue Moon Ocean Dumping Log

Voyage #: 5396

Permit # OD 93-01 & OD 93-02

	Time	
2/20	2230	Begin 1st Loading SK
	0030	Finish 1st Loading SK
	1640	Begin 2nd Loading SK
2/21	2140	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	190,000	Gallons
	Other	0	Gallons
	Total	190,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	60	29.58			
0605	Arrive Edge of Zone	# 1	14*22.57' S	170*38.69' W	East-5	75	"	East-1.0	8.7	162
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-7	"	"	" "	8.9	166
0622	Begin Discharge	# 3	14*24.10 S	170*37.24 W	" "	70	"	" " X	8.3	090
" 37		# 4	14*23.57' S	170*37.67' W	" "		"		8.8	184
" 52	Remarks:	# 5	14*24.41' S	170*37.04' W	" "		"		8.4	619
0707		# 6	14*23.19' S	170*37.63' W	East-10		29.59		8.7	183
" 22		# 7	14*25.05' S	170*37.44' W	" "			5	8.5	645
" 37		# 8	14*23.63' S	170*36.95' W	" "	"			8.6	356
" 52		# 9	14*24.36' S	170*37.70 W	" "	60			9.3	180
0807		# 10	14*24.42' S	170*36.96' W		"			8.7	609
" 22		# 11	14*23.21' S	170*37.67' W	East-12				8.6	186
" 37		# 12	14*25.00 S	170*37.37' W	" "			10	8.5	041
" 52		# 13	14*23.42' S	170*37.69' W	" "				9.5	188
0907		# 14	14*25.03' S	170*37.28' W	" "				8.8	035
" 22		# 15	14*23.24' S	170*37.07' W					9.0	330
" 37		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	# 16	14*23.66' S	170*37.73 W	East-12	60%	29.59	East-1.0	9.7	185
0945	Exit Discharge Zone	# 17	14*22.61' S	170*38.48 W	" "	"	" "	" "	9.5	338
1035	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

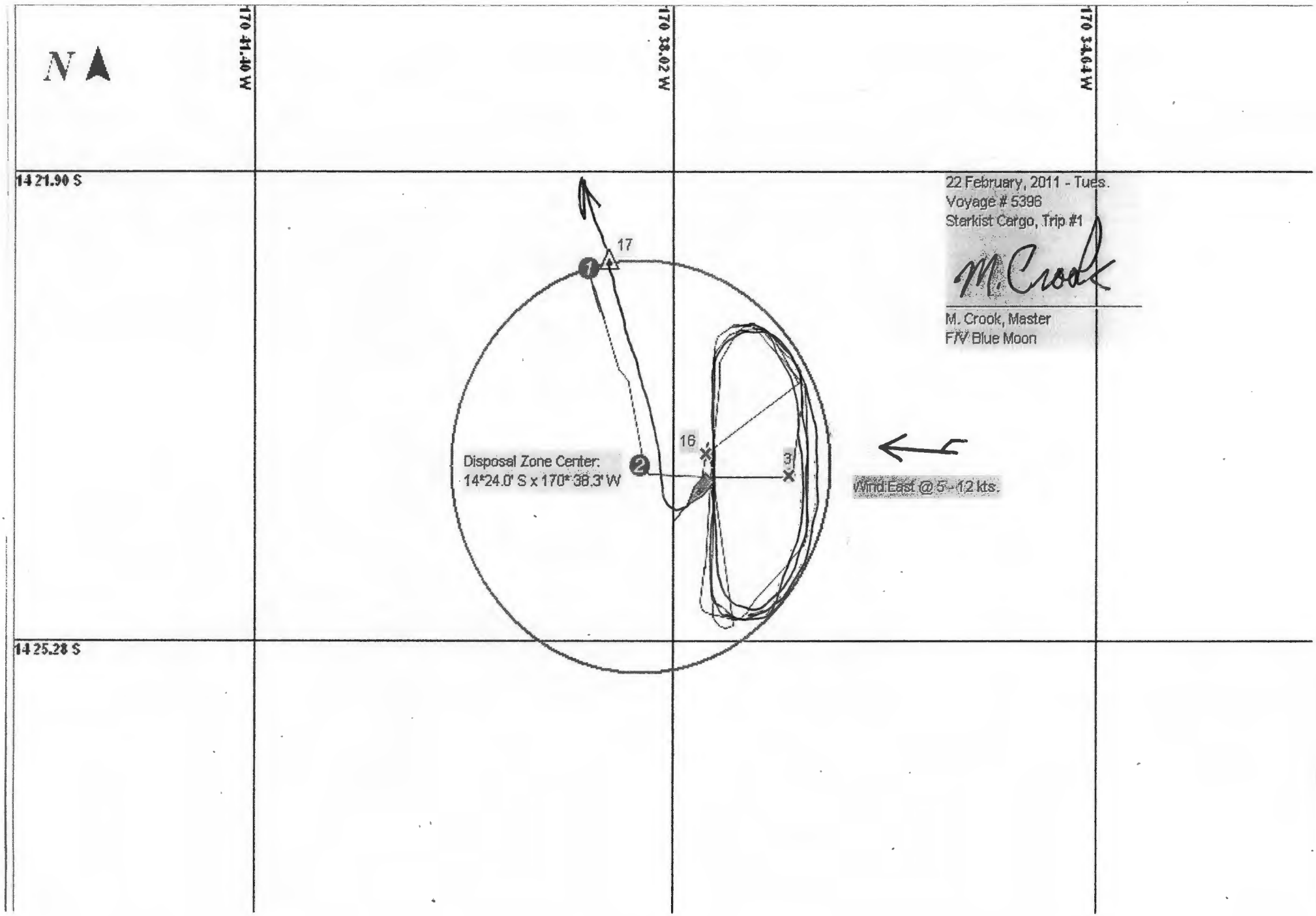
Total Discharge Time: 193 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
17
1
16
2
3
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind East @ 5 - 12 kts.
22 February, 2011 - Tues.
Voyage # 5396
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon

Date: 02/24/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5397

Permit # OD 93-01 & OD 93-02

Time	
1015	Begin 1st Loading SK
~~1145~~ 1115	Finish 1st Loading SK
1608	Begin 2nd Loading SK
2140	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	193,750	Gallons
Other	0	Gallons
Total	193,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	70	29.52			
0605	Arrive Edge of Zone	# 1	14*22.57' S	170*38.68' W	East-5	"	"	E/SE-1.0	8.8	164
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.7	154
0622	Begin Discharge	# 3	14*24.12' S	170*37.24 W	" "	"	"	" " X	8.4	090
" 37		# 4	14*23.62' S	170*37.79' W	East-7	75	"	" "	8.7	182
" 52	Remarks:	# 5	14*24.45' S	170*37.02' W		"			8.5	011
0707		# 6	14*23.11' S	170*37.59' W		"			8.3	262
" 22		# 7	14*25.05' S	170*37.46' W		70		5	8.6	036
" 37		# 8	14*23.61' S	170*36.99' W		"			8.8	357
" 52		# 9	14*24.73' S	170*37.80' W		"			8.6	181
0807		# 10	14*23.40' S	170*37.01' W		"			8.9	002
" 22		# 11	14*24.14' S	170*37.84' W		60			9.3	180
" 37		# 12	14*23.64' S	170*37.01' W		"		10	8.9	358
" 52		# 13	14*23.60' S	170*37.80' W		"			9.4	183
0907		# 14	14*24.42' S	170*37.05' W		"			9.2	003
" 22		# 15	14*24.27' S	170*37.93' W		"			9.8	177
" 37		# 16	14*24.51' S	170*37.15' W		"			8.9	014
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0940	Finish Discharge	# 17	14*23.81' S	170*37.32' W	East-7	60%	29.52	E/SE-1.0	9.5	331
0950	Exit Discharge Zone	# 18	14*22.63' S	170*37.83' W	" "	"	" "	" "	9.6	334
1040	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

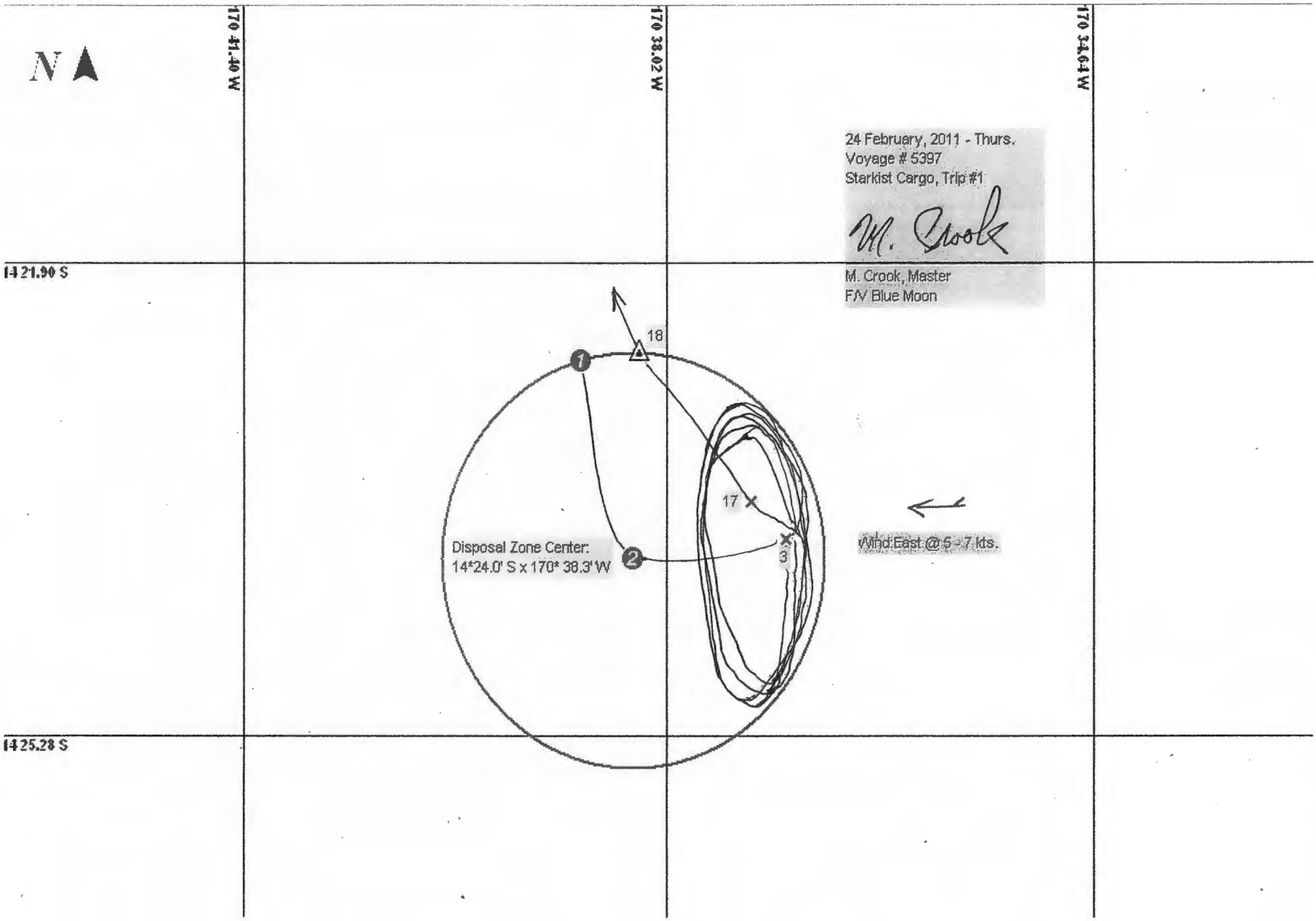
Total Discharge Time: 198 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.5 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
24 February, 2011 - Thurs.
Voyage # 5397
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
18
17
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind:East @ 5 - 7 kts.

Date: 02/26/11 Sat. F/V Blue Moon Ocean Dumping Log Voyage #: 5398

Permit # OD 93-01 & OD 93-02

	Time	
2/25	1510	Begin 1st Loading SK
	2130	Finish 1st Loading SK
		Begin 2nd Loading SK
		Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:		
SK	181,250	Gallons
Other	0	Gallons
Total	181,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	75	29.58			
0558	Arrive Edge of Zone	# 1	14*22.54' S	170*38.70 W	East-5	80	"	E/SE-1.0	9.0	161
0608	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.8	162
0615	Begin Discharge	# 3	14*24.03' S	170*37.20' W	" "	70	"	" " X	8.6	089
" 30		# 4	14*23.87' S	170*37.70' W	" "	"	29.59		9.1	180
" 45	Remarks:	# 5	14*23.90' S	170*36.32' W	" "	"			8.7	000
0700		# 6	14*23.32' S	170*37.83' W	" "	"			9.2	178
" 15		# 7	14*24.70' S	170*37.13' W	East-7	75		5	8.8	036
" 30		# 8	14*23.24' S	170*37.85' W		"			8.8	185
" 45		# 9	14*24.74' S	170*37.13' W		"			8.7	026
0800		# 10	14*23.19' S	170*37.20' W		70			9.0	295
" 15		# 11	14*24.62' S	170*37.79' W		"			9.3	180
" 30		# 12	14*23.14' S	170*37.23' W		60	29.60	10	9.4	302
" 45		# 13	14*23.93' S	170*37.88' W	East-10	"			9.6	179
0900		# 14	14*23.77' S	170*36.99' W	" "	"			9.4	358
" 15		# 15	14*23.32' S	170*37.87' W	" "	50			9.1	177
" 30		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0920	Finish Discharge	# 16	14*23.11' S	170*38.32' W	East-10	50%	29.60	E/SE-1.0	9.2	338
0925	Exit Discharge Zone	# 17	14*22.68' S	170*37.73 W	" "	"	" "	" "	9.6	335
1020	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

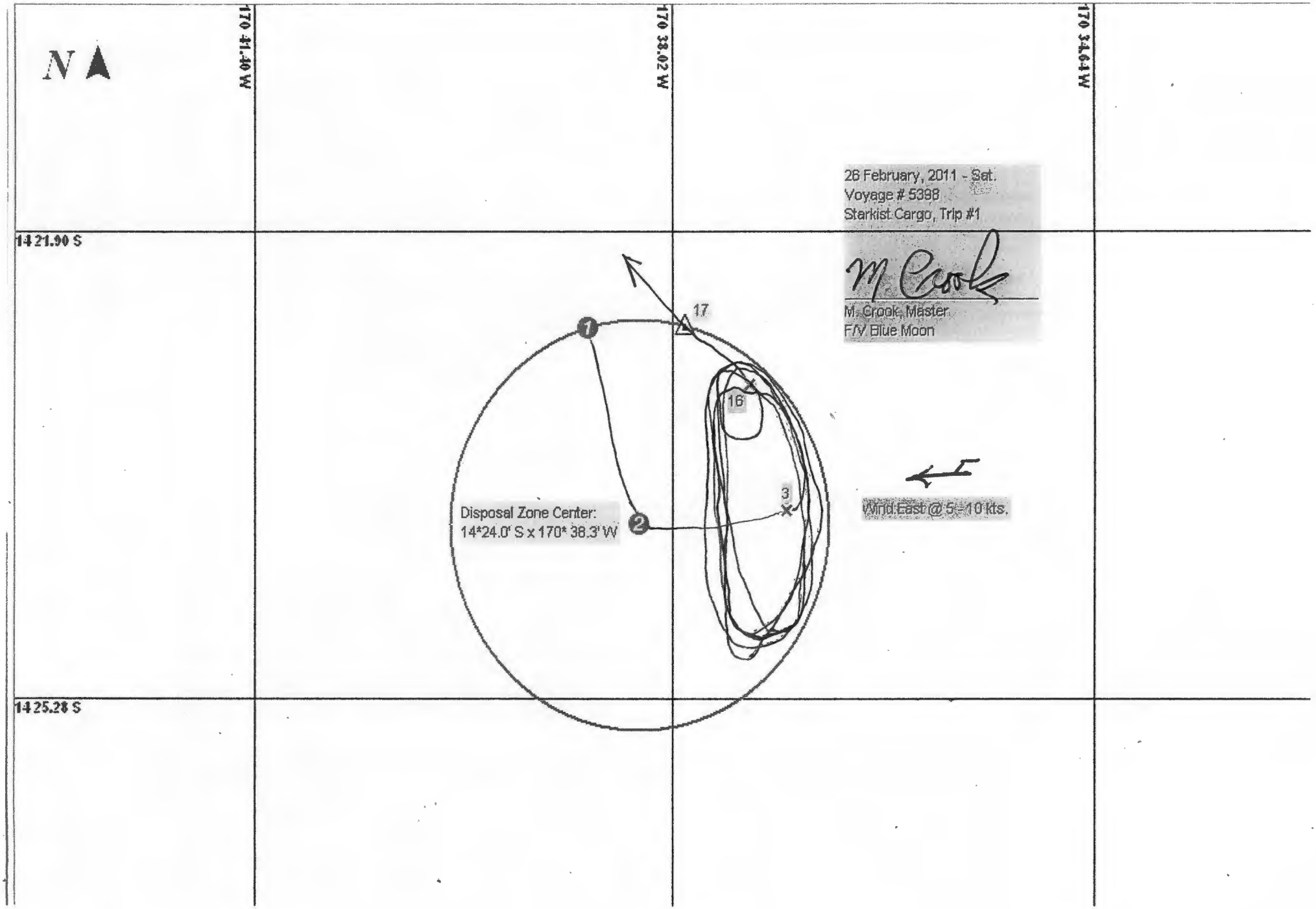
Total Discharge Time: 185 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 5.1 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 109 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
26 February, 2011 - Sat.
Voyage # 5398
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind East @ 5 - 10 kts.

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON February, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	12	0	0	**12**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	2,217,000	0	0	**2,217,000**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	2,217,000	**0**

RUNNING TIME ON TRIPS: **64.4 hrs.**

DISCHARGE TIME ON TRIPS: **38.33 hrs.**

AV. GPM DISCHARGE RATE: **111 gal/min/kt**

AV. TRIP TIME: **5.36 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER : M. Crook

M. Crook

Date: 02/01/11 tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5387

Permit # OD 93-01 & OD 93-02

	Time	
1/31	1530	Begin 1st Loading SK
	2230	Finish 1st Loading SK
	0130	Begin 2nd Loading SK
2/1	0245	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	196,250	Gallons
	Other	0	Gallons
	Total	196,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0625	Depart Starkist		14*16.50' S	170* 41.2' W	East-5	100-RAIN	29.63			
0725	Arrive Edge of Zone	# 1	14*22.54' S	170*38.69' W	East-20	100	"	East-2.0	8.3	162
0735	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	RAIN	29.64	" "	8.4	160
0743	Begin Discharge	# 3	14*24.00' S	170*37.22' W	" "	" "	29.65	" " X	8.0	090
58		# 4	14*23.41' S	170*37.78' W	E-22	" "	29.66	" "	8.3	178
0813	Remarks:	# 5	14*24.76' S	170*37.22' W	" "	100	"		8.5	010
" 28		# 6	14*22.94' S	170*37.51' W	" "	"	"		8.4	284
" 43		# 7	14*24.65' S	170*37.71' W	East-20	"	29.67	5	8.6	171
" 58		# 8	14*23.54' S	170*36.94' W	" "	"	"		8.8	335
0913		# 9	14*23.38' S	170*37.71' W	" "	"	"		8.6	180
" 28		# 10	14*24.53' S	170*37.03' W	East-22	"	"		8.7	032
" 43		# 11	14*23.38' S	170*37.88' W	" "	"	"		8.9	184
" 58		# 12	14*24.73' S	170*37.06' W	East-20	"	"	10	9.1	013
1013		# 13	14*23.06' S	170*37.32' W	" "	"	"		9.2	278
" 28		# 14	14*24.81' S	170*37.67' W	" "	"	"		9.1	180
" 43		# 15	14*23.22' S	170*37.09' W	" "	"	"		9.4	319
" 58		# 16	14*23.37' S	170*37.10' W	" "				9.0	060
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1100	Finish Discharge	# 17	14*23.02' S	170*37.29' W	East-20	100	29.66	East-2.0	9.4	321
1102	Exit Discharge Zone	# 18	14*22.84' S	170*37.42' W	" "	"	"	" "	9.5	327
1205	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 197 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.66 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113 Gallons/min/kt.

Unusuall Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crapp

N

170 41.40 W

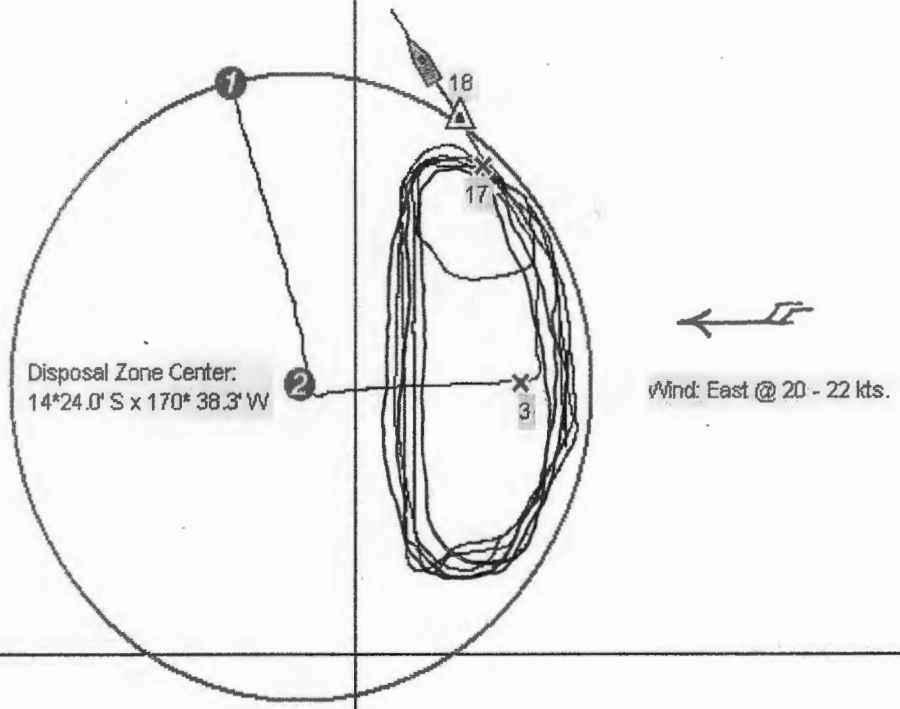
170 38.02 W

170 34.64 W

01 February, 2011 - Tues.
Voyage # 5387
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon

14 21.90 S



14 25.28 S

Date: 02/03/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5388

Permit # OD 93-01 & OD 93-02

Time	
1200	Begin 1st Loading SK
1315	Finish 1st Loading SK
1530	Begin 2nd Loading SK
2100	Finish 2nd Loading SK

2/2

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	East-5	60	29.61			
0705	Arrive Edge of Zone	# 1	14*22.57' S	170*38.67' W	East-12	50	"	East-1.5	8.6	161
0715	Arrive Zone Center	# 2	14*24.0 S	170*38.30' W	" "	"	"	" "	8.4	163
0725	Begin Discharge	# 3	14*23.98' S	170*37.19 W	" "	"	"	" " X	8.3	090
40		# 4	14*23.44' S	170*37.80 W	" "	60	"	" "	8.5	179
55	Remarks:	# 5	14*24.53' S	170*36.98' W	" "		"		8.6	002
0810	Fueling	# 6	14*23.94' S	170*37.75 W	" "		"		8.4	197
25	1135- 0	# 7	14*24.62' S	170*37.82' W	East-15		"	5	8.7	180
40		# 8	14*23.60' S	170*36.98' W	" "		"		9.0	358
55		# 9	14*24.13' S	170*37.82' W	" "		29.62		8.8	180
0910		# 10	14*24.75' S	170*37.08' W					8.9	004
25		# 11	14*23.04' S	170*37.73 W					8.8	177
40		# 12	14*25.02' S	170*37.34' W				10	8.1	023
55		# 13	14*22.96' S	170*37.38' W					9.3	309
1010		# 14	14*24.02' S	170*37.79' W		70			9.0	180
25		# 15	14*24.20' S	170*36.92' W					9.5	002
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1030	Finish Discharge	# 16	14*23.05' S	170*37.30' W	East-15	75%	29.62	East-1.5	9.8	331
1032	Exit Discharge Zone	# 17	14*22.82' S	170*37.42' W	" "	"	"	" "	9.9	333
1320	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 185 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 111.6 Gallons/min/kt.

Unusual Occurrences? None (Fueling 1135-1310)

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

N

70 41.40 W

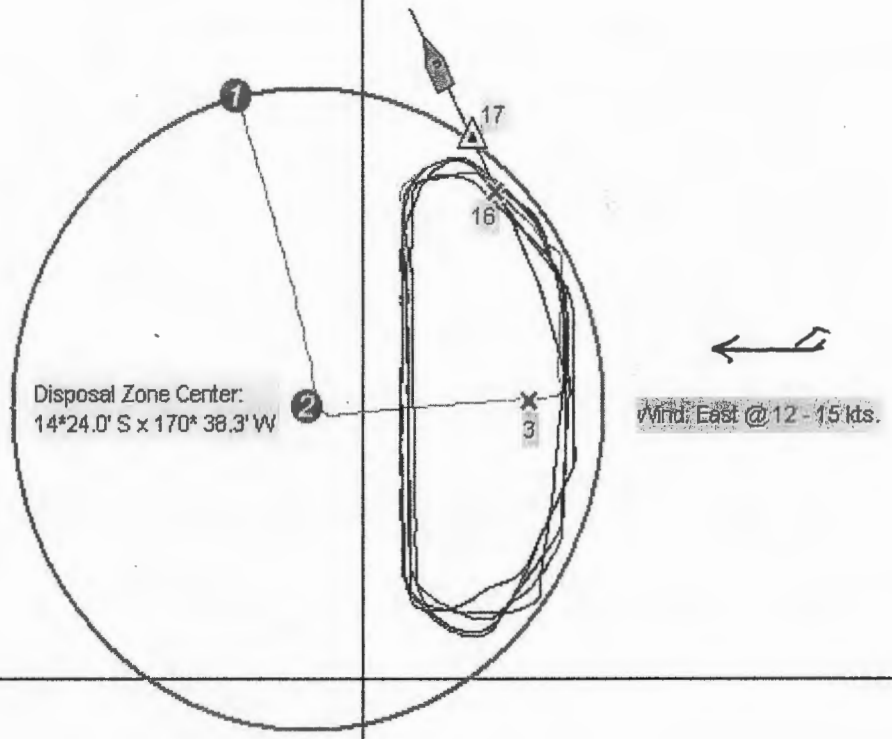
70 38.02 W

70 34.64 W

03 February, 2011 - Thurs.
Voyage # 5388
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon

14 21.90 S



14 25.28 S

Date: 02/05/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5389

Permit # OD 93-01 & OD 93-02

	Time	
2/4	1530	Begin 1st Loading SK
	2100	Finish 1st Loading SK
	0415	Begin 2nd Loading SK
2/5	0500	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	188,750	Gallons
Other	0	Gallons
Total	188,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100	29.62			
0705	Arrive Edge of Zone	# 1	14*22. 51' S	170*38. 68' W	"	100	29.65	mixed to 1.0	8.7	164
0715	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	"	"	29.66	" "	8.7	161
0725	Begin Discharge	# 3	14*23.95' S	170*37.24' W	East-3	"	29.67	" " X	8.4	090
" 40		# 4	14*23.70' S	170*37.73' W	" "		"		8.6	185
" 55	Remarks:	# 5	14*24.14' S	170*36.88 W	East-2		"		8.7	002
0810		# 6	14*23.08' S	170*37.47' W			"		8.5	214
" 25		# 7	14*24.77' S	170*37.70' W	Variable-5	Rain	"	5	8.7	179
" 40		# 8	14*23.16' S	170*37.28' W	SW-5	"	"		8.6	305
" 55		# 9	14*24.73' S	170*37.69' W	SE-7	"	"		8.9	181
0910		# 10	14*23.31' S	170*37.07' W	East-7	"	"		9.1	319
" 25		# 11	14*24.62' S	170*37.59 W	East-5	100	"		8.8	180
" 40		# 12	14*23.35' S	170*37.01' W	"		29.66	10	9.0	342
" 55		# 13	14*24.61' S	170*37.55' W	"		"		8.9	178
1010		# 14	14*23.54' S	170*36.95' W	"		"		9.2	001
" 25		# 15	14*24.38' S	170*37.61' W	"		29.65		9.1	177
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1035	Finish Discharge	# 16	14*23.39' S	170*37.73' W	East-5	100%	29.63	Mixed-1.0	9.6	336
1045	Exit Discharge Zone	# 17	14*22.58' S	170*38.00' W	" "	"	29.62	" "	9.6	337
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West (Slow) Discharge Pattern Ellipse

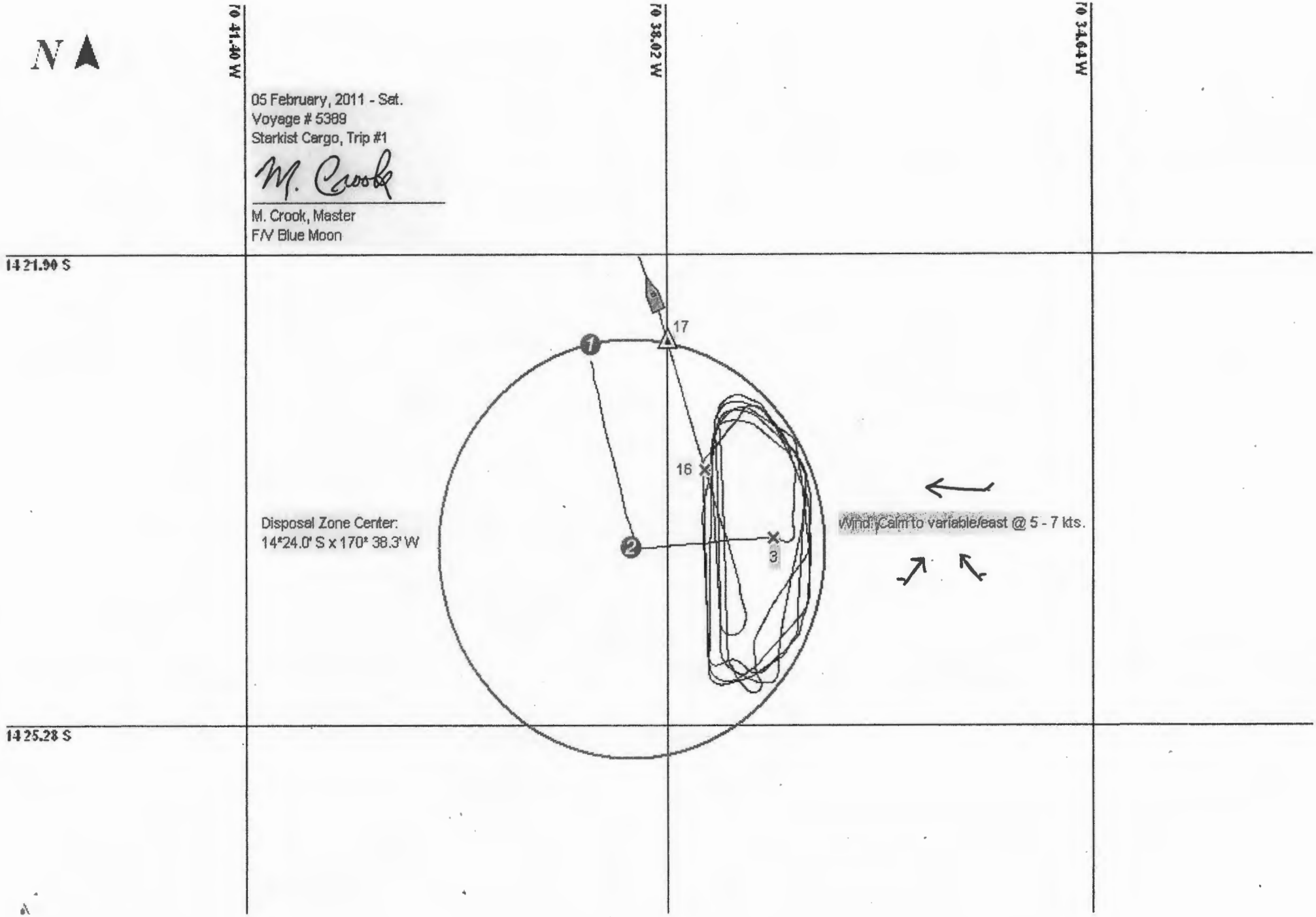
Total Discharge Time: 190 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
05 February, 2011 - Sat.
Voyage # 5389
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
14 21.90 S
14 25.28 S
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: Calm to variable/east @ 5 - 7 kts.

Date: 02/08/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5390

Permit # OD 93-01 & OD 93-02

	Time	
2/6	1945	Begin 1st Loading SK
	2100	Finish 1st Loading SK
2/7	1630	Begin 2nd Loading SK
	2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	174,500	Gallons
Other	0	Gallons
Total	174,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0615	Depart Starkist		14*16.50' S	170* 41.2' W	East-12	70	29.53			
0710	Arrive Edge of Zone	# 1	14*22.55' S	170*38.66' W	East-15	80	29.54	E/SE-2.0	8.2	161
0720	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-18	"	"	" "	8.1	165
0730	Begin Discharge	# 3	14*24.10' S	170*37.21' W	" "	"	"	" " X	7.9	090
" 45		# 4	14*23.86' S	170*37.73' W		"			8.6	180
0800	Remarks:	# 5	14*24.71' S	170*37.07' W		"			8.3	017
" 15		# 6	14*23.08 S	170*37.42 W		"			8.5	276
" 30		# 7	14*24.87' S	170*37.80' W		90		5	8.7	182
" 45		# 8	14*23.95' S	170*33.91 W	East-20	"			8.9	001
0900		# 9	14*23.81' S	170*37.83' W	" "	"			8.8	179
" 15		# 10	14*24.13' S	170*36.91' W	" "	"			8.6	358
" 30		# 11	14*23.17' S	170*37.60' W					8.9	221
" 45		# 12	14*25.00' S	170*37.47' W				10	8.7	034
1000		# 13	14*23.06' S	170*37.53' W		Rain 100	29.53		8.5	276
" 15		# 14	14*24.60' S	170*37.69' W		90			9.1	185
" 30		# 15	14*24.06' S	170*37.00 W		80	29.52		9.3	000
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1035	Finish Discharge	#16	14*23.12 S	170*37.20' W	East-20	80%	29.52	E/SE-2.0	9.2	307
1038	Exit Discharge Zone	#17	14*22.75' S	170*37.45' W	" "	"	"	" "	9.4	321
1135	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 185 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 108 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

N

170 41.40 W

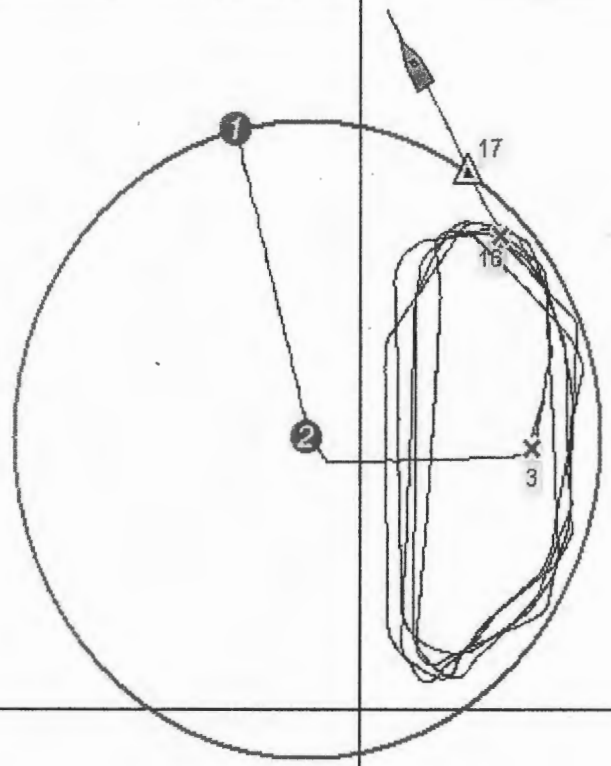
170 38.02 W

170 34.64 W

08 February, 2011 - Tues.
Voyage # 5390
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon

14 21.90 S



Disposal Zone Center:
14*24.0' S x 170* 38.3' W

Wind: East @ 15 - 20 kts.

14 25.28 S

Date: 02/10/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5391

Permit # OD 93-01 & OD 93-02

	Time	
2/8	1945	Begin 1st Loading SK
	2115	Finish 1st Loading SK
	1700	Begin 2nd Loading SK
2/9	2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	182,500	Gallons
Other	0	Gallons
Total	182,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100	29.59	"		
0702	Arrive Edge of Zone	# 1	14*22.55' S	170*38.67' W	" "	"		ESE-1	8.6	163
0712	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	29.60	" "	8.5	168
0735	Begin Discharge	# 3	14*23.91' S	170*37.13 W			"	" X	8.0	006
50		# 4	14*24.10' S	170*37.69' W			"	" "	8.6	179
0805	Remarks:	# 5	14*23.93' S	170*36.92' W					8.7	005
20	0725-Control	# 6	14*23.19' S	170*37.66' W					8.9	180
35	Monitoring	# 7	14*24.69' S	170*37.20' W				ESE-1.0	8.8	022
50	Samples @	# 8	14*23.62' S	170*37.67' W					9.0	184
0905	Drown @	# 9	14*25.06' S	170*37.32' W					8.6	046
20	14° 24.04' S x	# 10	14*23.21' S	170*37.16' W					9.2	321
35	170° 37.14' W	# 11	14*25.08' S	170*37.53' W					8.9	148
50		# 12	14*23.17' S	170*37.21' W			29.59	10	9.1	307
1005		# 13	14*24.86' S	170*37.63' W	East-2				9.3	181
20		# 14	14*23.55' S	170*36.96' W	"		29.57		9.6	336
35		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1033	Finish Discharge	# 15	14*23.82' S	170*37.47' W	East-5	100%	29.56	ESE-1.0	9.4	145
1140	Exit Discharge Zone	# 16	14*22.58 S	170*38.48 W	" "	"	29.54	" "	9.7	339
1230	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West (slow) Discharge Pattern Ellipse

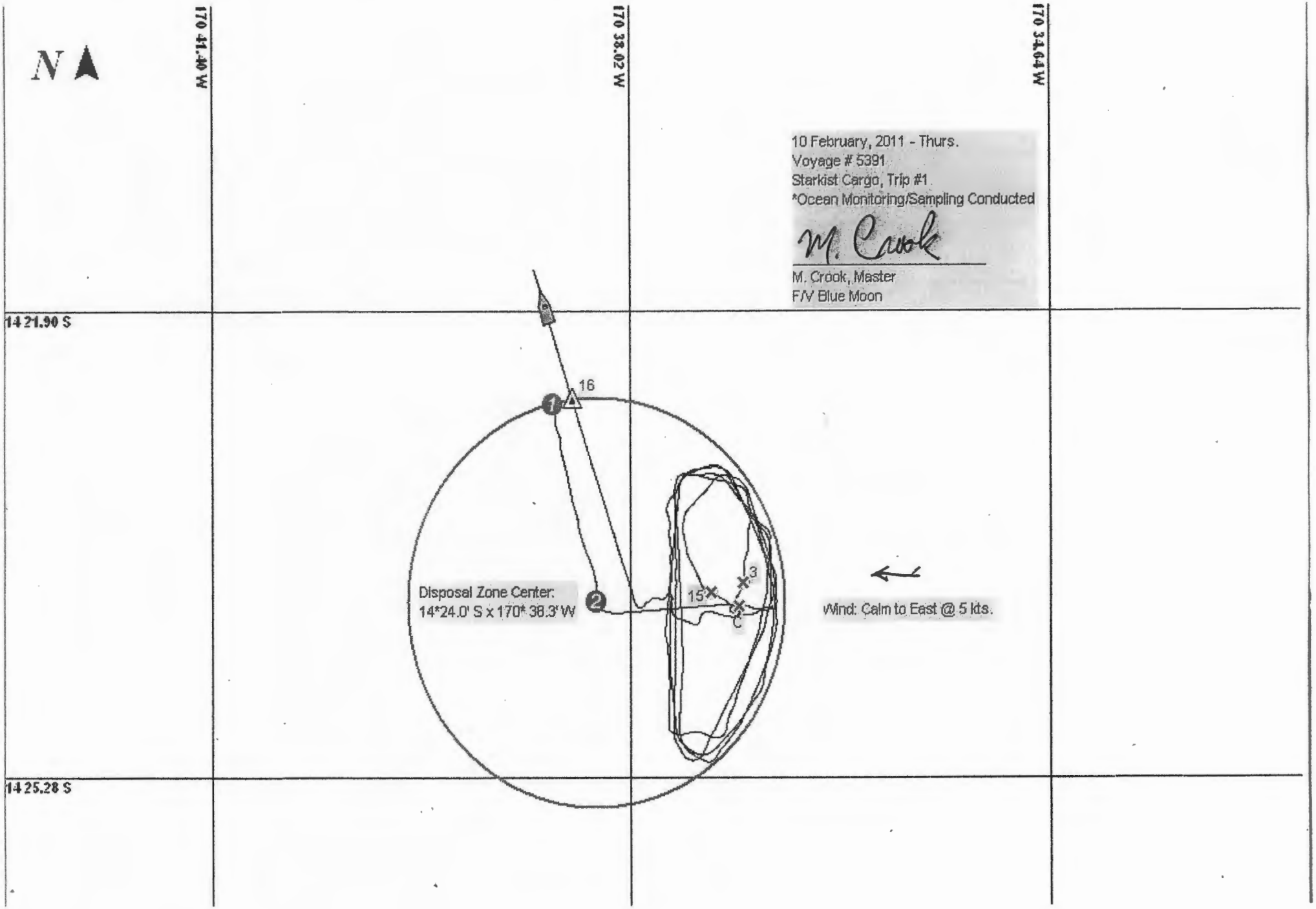
Total Discharge Time: 178 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 6.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: Discharge Rate: 115.2 Gallons/min/kt.

Unusual Occurrences? Ocean Monitoring Conducted.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
10 February, 2011 - Thurs.
Voyage # 5391
Starkist Cargo, Trip #1
*Ocean Monitoring/Sampling Conducted
M. Crook, Master
F/V Blue Moon
16
1
2
3
15
C
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: Calm to East @ 5 kts.

Date: 02/12/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5392

Permit # OD 93-01 & OD 93-02

	Time	
2/10	1745	Begin 1st Loading SK
	1900	Finish 1st Loading SK
2/11	0800	Begin 2nd Loading SK
	2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	184,250	Gallons
Other	0	Gallons
Total	184,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0920	Depart Starkist		14*16.50' S	170* 41.2' W	Foot-7	90	29.51			
1015	Arrive Edge of Zone	# 1	14*22.56' S	170*38.63 W	NE-12	"	29.52	E/SE-1.5	8.4	160
1025	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.3	166
1033	Begin Discharge	# 3	14*23.61' S	170*37.29' W	" "	80	"	" " X	8.9	045
" 48		# 4	14*23.43' S	170*37.89' W	" "	"	"		8.6	136
1103	Remarks:	# 5	14*23.42' S	170*37.06' W	NE-15	90	"		8.6	338
" 18		# 6	14*23.39' S	170*37.97' W	" "	"	"		8.4	141
" 33		# 7	14*23.68' S	170*36.98' W			29.51	5	8.8	336
" 48		# 8	14*23.34' S	170*38.06' W			"		8.6	135
1203		# 9	14*23.82' S	170*36.93' W			29.50		8.9	334
" 18		# 10	14*23.22' S	170*38.06' W					9.0	136
" 33		# 11	14*23.34' S	170*37.18' W					9.3	318
" 48		# 12	14*23.40' S	170*37.92' W				10	9.2	137
1303		# 13	14*23.22' S	170*37.14' W					9.2	318
" 18		# 14	14*23.41' S	170*37.90' W					9.0	131
" 33		# 15	14*23.32' S	170*37.10' W					9.1	317
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1338	Finish Discharge	# 16	14*22.86' S	170*37.57' W	NE-15	90%	29.50	E/SE-1.5	9.2	320
1340	Exit Discharge Zone	# 17	14*22.65' S	170*37.75' W	" "	"	"	" "	9.2	331
1435	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center SW End of Discharge SW Discharge Pattern Ellipse

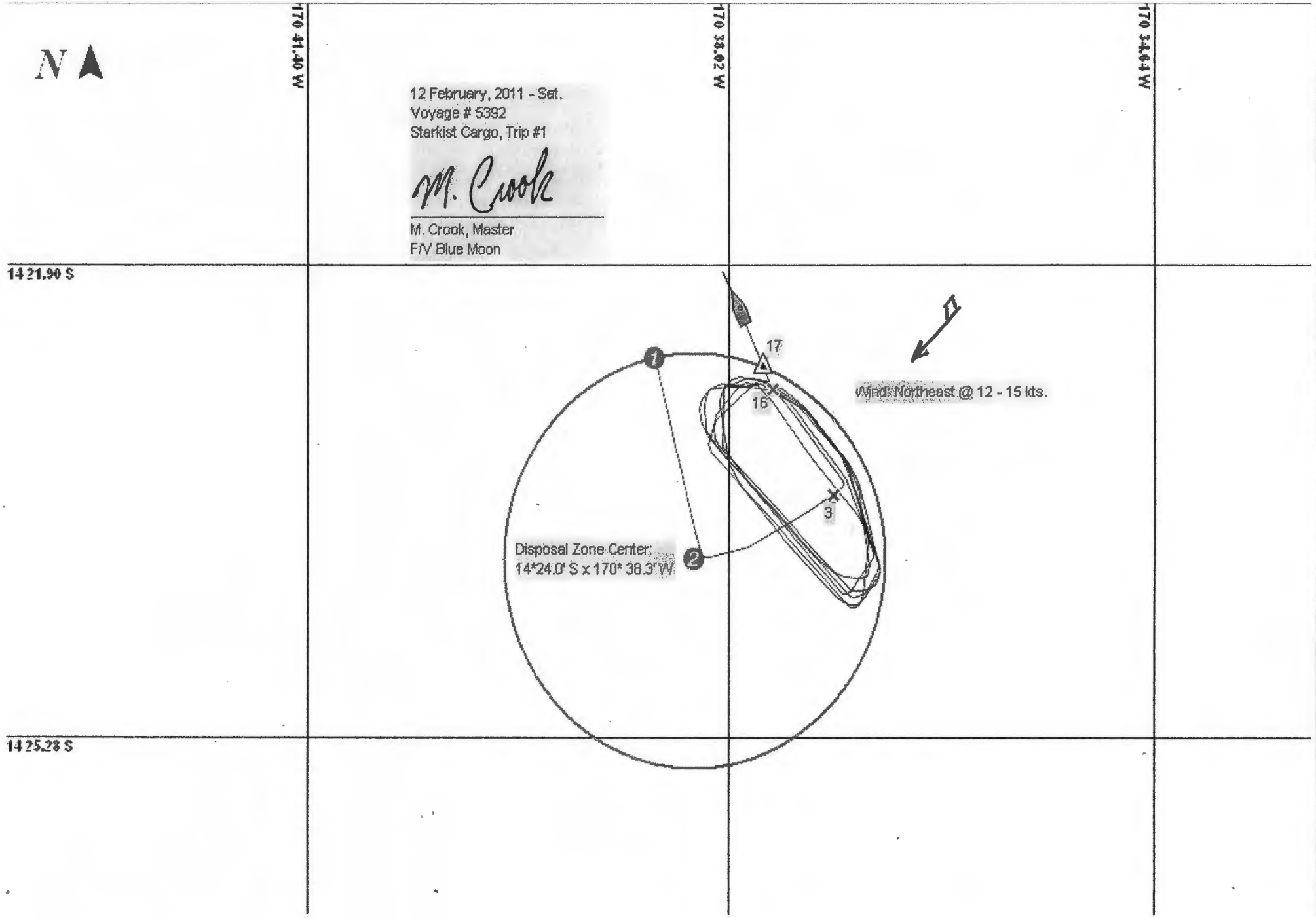
Total Discharge Time: 185 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.25 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
12 February, 2011 - Sat.
Voyage # 5392
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Wind: Northeast @ 12 - 15 kts.
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
1
2
3
16
17

Date: 02/15/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5393

Permit # OD 93-01 & OD 93-02

	Time	
2/13	1130	Begin 1st Loading SK
	1300	Finish 1st Loading SK
2/14	1200	Begin 2nd Loading SK
	2035	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	192,500	Gallons
Other	0	Gallons
Total	192,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0610	Depart Starkist		14*16.50' S	170* 41.2' W	NE-5	75	29.58			
0702	Arrive Edge of Zone	# 1	14*22. 53' S	170*38. 67' W	NE-10	80	29.59	East-1.0	8.5	169
0712	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.4	156
0720	Begin Discharge	# 3	14*23.53' S	170*37.33 W	" "	"	"	X	8.5	045
" 35		# 4	14*23.28' S	170*37.91' W			"		8.2	141
" 50	Remarks:	# 5	14*23.60' S	170*36.91' W			"		8.4	330
0805		# 6	14*23.11' S	170*38.63' W	NE-12	70	29.60		8.6	145
" 20		# 7	14*23.54' S	170*37.04' W			"	5	8.5	327
" 35		# 8	14*23.29' S	170*37.91' W			"		8.7	142
" 50		# 9	14*23.88' S	170*36.84' W			"		8.6	338
0905		# 10	14*23.19' S	170*38.00' W					8.9	146
" 20		# 11	14*23.61' S	170*36.92' W					8.7	335
" 35		# 12	14*22.72' S	170*38.03' W				10	8.3	228
" 50		# 13	14*23.78' S	170*36.94' W					8.9	331
1005		# 14	14*22.85' S	170*38.06' W					8.8	178
" 20		# 15	14*23.59' S	170*36.92' W			29.59		9.1	336
" 35		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1032	Finish Discharge	#16	14*22.71' S	170*37.77' W	NE-12	70%	29.59	East-1.0	9.2	285
1035	Exit Discharge Zone	#17	14*22.55' S	170*38.05 W					9.2	327
1125	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center SW End of Discharge SW Discharge Pattern Ellipse

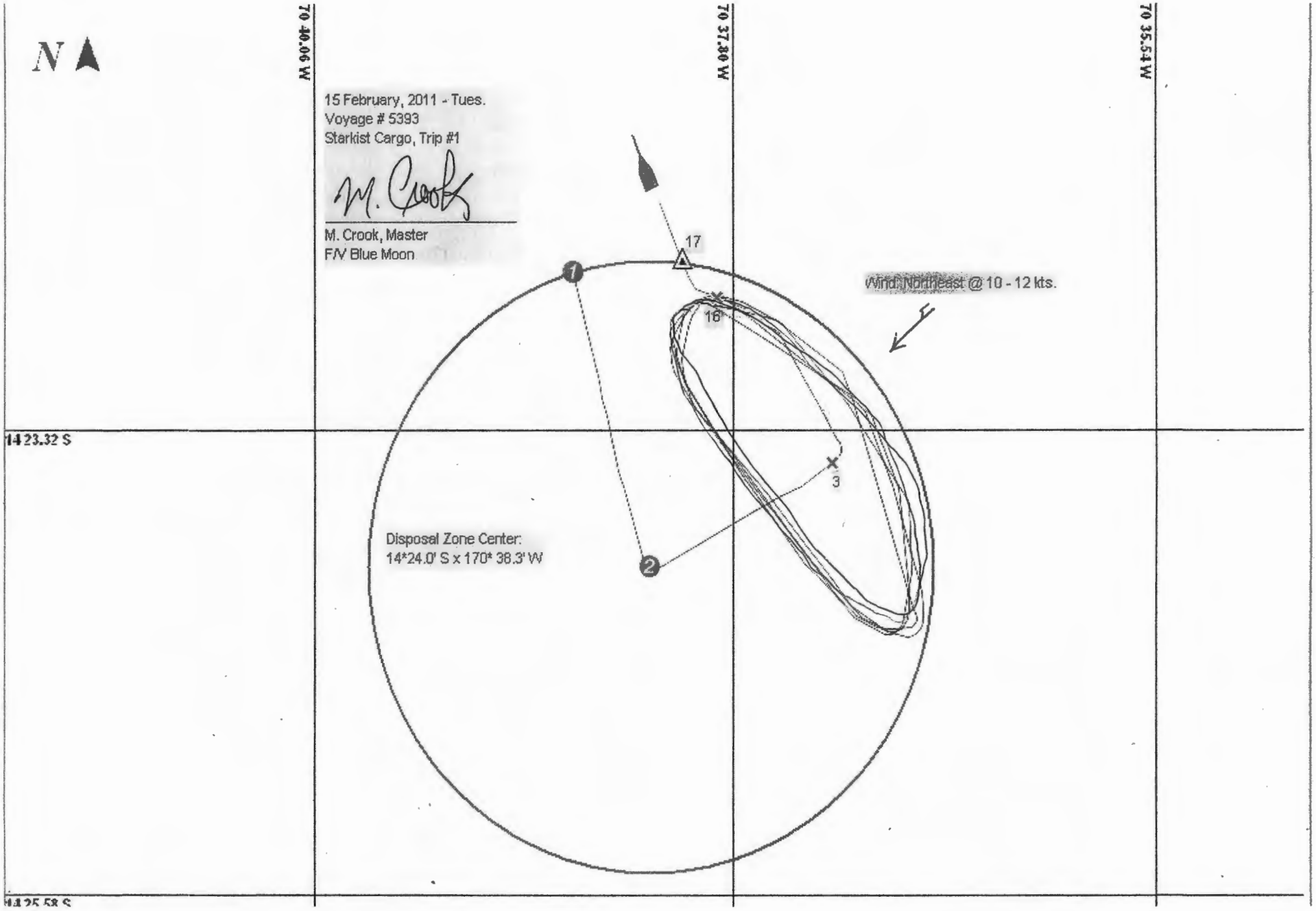
Total Discharge Time: 192 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 115.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
70 40.06 W
70 37.30 W
70 35.54 W
14 23.32 S
14 25.58 S
15 February, 2011 - Tues.
Voyage # 5393
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Wind: Northeast @ 10 - 12 kts.
17
16
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

Date: 02/17/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5394

Permit # OD 93-01 & OD 93-02

	Time	
2/16	1420	Begin 2nd Loading SK
	2100	Finish 2nd Loading SK
2/16	0515	Begin 1st Loading SK
	0545	Finish 1st Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	186,250	Gallons
	Other	0	Gallons
	Total	186,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170*41.2' W	East-3	100	29.61			
0605	Arrive Edge of Zone	# 1	14*22.52' S	170*38.65' W	ESE-7	"	"	E/SE-1.5	8.6	161
0613	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.3	157
0620	Begin Discharge	# 3	14*23.98 S	170*37.11' W	ESE-10		"	" " X	8.5	090
" 35		# 4	14*23.46' S	170*37.80' W	" "		29.62		8.4	181
" 50	Remarks:	# 5	14*24.69' S	170*37.16' W	" "		"		8.7	049
0705		# 6	14*23.30' S	170*37.08' W	" "		"		8.5	316
" 20		# 7	14*24.73 S	170*37.71 W	" "		"	5	8.3	182
← Stop	Pumping —	#	14*2 S	170*3 W			29.63			
0750	Continue Pumping	# 8	14*23.20' S	170*37.68' W	EAST-10		"		8.0	177
0805		# 9	14*23.71 S	170*37.66' W	" "				8.7	184
" 20		# 10	14*23.97 S	170*36.91' W	" "				8.6	004
" 35		# 11	14*23.26' S	170*37.63' W				10	8.8	183
" 50		# 12	14*24.91' S	170*37.45' W					8.6	047
0905		# 13	14*24.24' S	170*37.64' W					8.7	181
" 20		# 14	14*23.09' S	170*37.27' W					8.9	305
" 35		# 15	14*24.56' S	170*37.61' W			29.64		8.8	176
" 50		# 16	14*23.98' S	170*36.99' W	East-12	RAIN	"	15	9.0	000
1005		# 17	14*23.49' S	170*37.74' W	East-15				8.8	181
20		# 18	14*24.83' S	170*37.20 W					8.5	014
		#	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
1030	Finish Discharge	# 19	14*24.26' S	170*37.38 W	East-15	100%	29.64	E&SE-1.5	9.1	334
1045	Exit Discharge Zone	# 20	14*22.59' S	170*38.07 W	" "	"	"	" "	9.3	330
1150	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 220 mins. Average Speed During Discharge: 8.64 kts. Total Time Run 4.66 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: Discharge Rate: 98 Gallons/min/kt.

Unusual Occurrences? 0722-0750 - Stop Pumps + Engines for Engine Repair

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

N

170 41.40 W

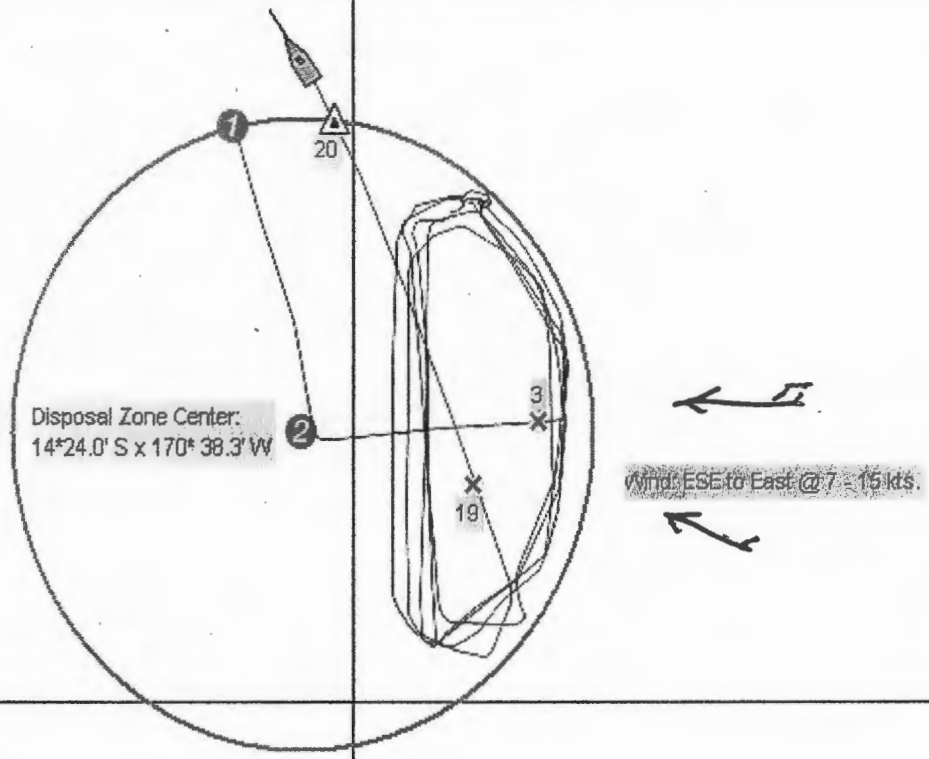
170 38.02 W

170 34.64 W

17 February, 2011 - Thurs.
Voyage # 5394
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon

14 21.90 S



14 25.28 S

Date: 02/19/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5395

Permit # OD 93-01 & OD 93-02

	Time	
2/18	1200	Begin 1st Loading SK
	1330	Finish 1st Loading SK
	1520	Begin 2nd Loading SK
↓	2120	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	194,500	Gallons
Other	0	Gallons
Total	194,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	90	29.58			
0605	Arrive Edge of Zone	# 1	14*22.51' S	170*38.70' W	East-8	"	29.59	SE-1.0	8.8	162
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-10	"	"	" "	8.3	154
0623	Begin Discharge	# 3	14*24.01' S	170*37.26' W	" "	"	"	" " X	8.5	090
" 38		# 4	14*23.47' S	170*37.82' W	" "	"	"	" "	8.7	180
" 53	Remarks:	# 5	14*24.53' S	170*37.08' W		"		" "	8.4	010
0708		# 6	14*23.15' S	170*37.82' W		"			8.6	187
" 23		# 7	14*25.14' S	170*37.55' W		80		5	8.5	086
" 38		# 8	14*23.67' S	170*36.97' W		"			8.9	357
" 53		# 9	14*24.34' S	170*37.78' W	East-12	"			9.3	179
0808		# 10	14*24.60' S	170*37.27' W	" "	70			8.8	018
" 23		# 11	14*23.21' S	170*37.71' W	" "	60		E/SE-1.5	9.2	184
" 38		# 12	14*24.97' S	170*37.40' W	" "	50		10	8.7	056
" 53		# 13	14*23.30' S	170*37.78' W		"			9.6	181
0908		# 14	14*24.85' S	170*37.22' W		"			8.9	017
" 23		# 15	14*23.12' S	170*37.39 W		60			9.1	271
" 38		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	#16	14*23.80' S	170*37.85' W	East-12	60%	29.59	E+SE-1.5	9.4	181
0945	Exit Discharge Zone	#17	14*22.54' S	170*38.64 W	" "	"	"	" "	9.5	337
1035	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

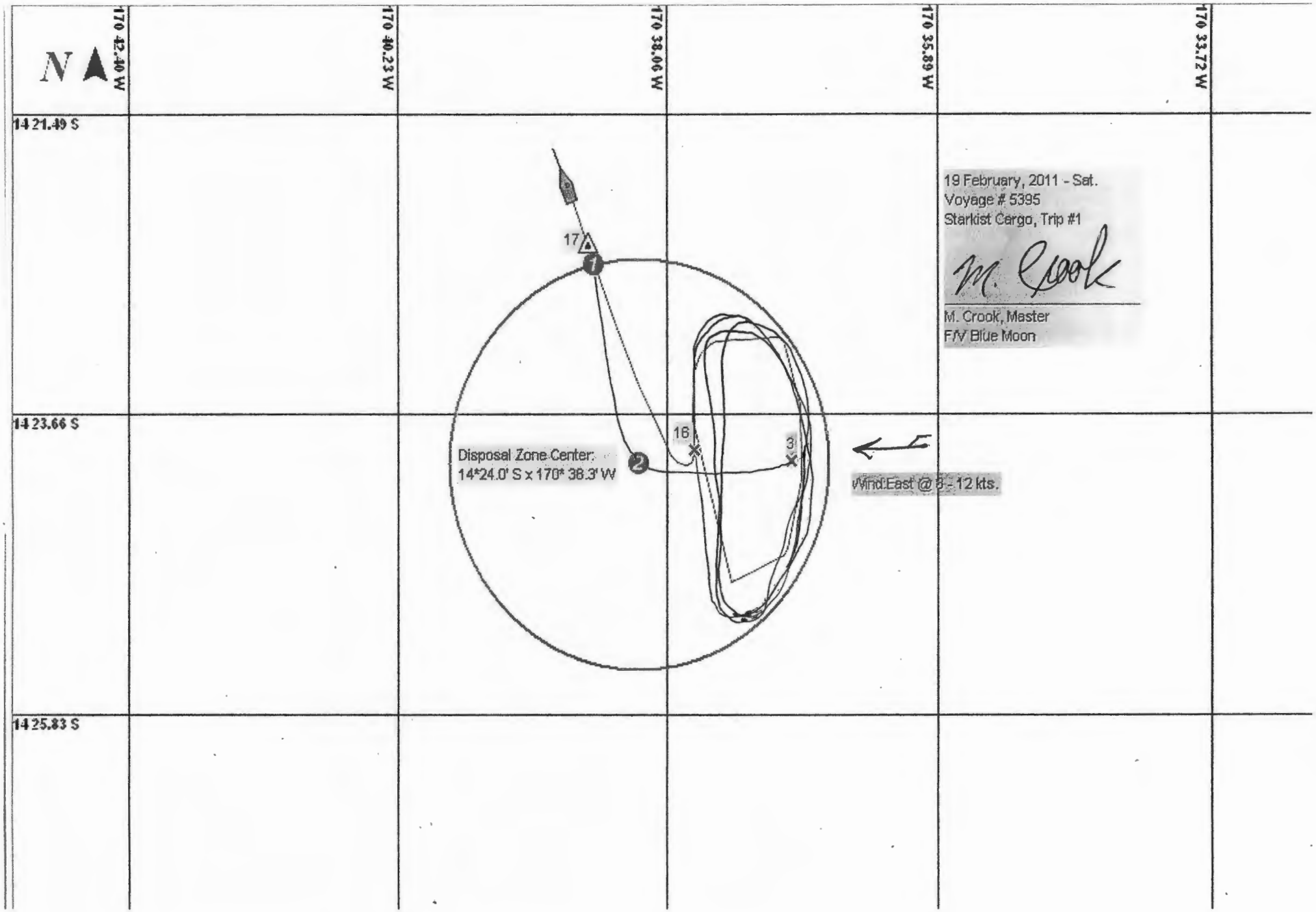
Total Discharge Time: 192 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 114 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooke


N
170 42.40 W
170 40.23 W
170 38.06 W
170 35.89 W
170 33.72 W
14 21.49 S
14 23.66 S
14 25.83 S
17
1
2
16
3
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind:East @ 8 - 12 kts.
19 February, 2011 - Sat.
Voyage # 5395
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon

Date: 02/22/11 Tues..

F/V Blue Moon Ocean Dumping Log

Voyage #: 5396

Permit # OD 93-01 & OD 93-02

	Time	
2/20	2230	Begin 1st Loading SK
	0030	Finish 1st Loading SK
↓	1640	Begin 2nd Loading SK
2/21	2140	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	190,000	Gallons
	Other	0	Gallons
	Total	190,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	60	29.58			
0605	Arrive Edge of Zone	# 1	14*22.57' S	170*38.69' W	East-5	75	"	East-1.0	8.7	162
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-7	"	"	" "	8.9	166
0622	Begin Discharge	# 3	14*24.10 S	170*37.24 W	" "	70	"	" " X	8.3	090
" 37		# 4	14*23.57' S	170*37.67' W	" "		"		8.8	184
" 52	Remarks:	# 5	14*24.41' S	170*37.64' W	" "		"		8.4	019
0707		# 6	14*23.19' S	170*37.63' W	East-10		29.59		8.7	183
" 22		# 7	14*25.05' S	170*37.44' W	" "			5	8.5	045
" 37		# 8	14*23.63' S	170*36.95' W	" "	"			8.6	356
" 52		# 9	14*24.36' S	170*37.70 W	" "	60			9.3	180
0807		# 10	14*24.42' S	170*36.96' W		"			8.7	009
" 22		# 11	14*23.21' S	170*37.67' W	East-12				8.6	186
" 37		# 12	14*25.00 S	170*37.37' W	" "			10	8.5	041
" 52		# 13	14*23.42' S	170*37.69' W	" "				9.3	188
0907		# 14	14*25.03' S	170*37.28' W	" "				8.8	035
" 22		# 15	14*23.24' S	170*37.07' W					9.0	330
" 37		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	# 16	14*23.66' S	170*37.73 W	East-12	60%	29.59	East-1.0	9.7	185
0945	Exit Discharge Zone	# 17	14*22.61' S	170*38.48 W	" "	"	" "	" "	9.5	338
1035	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

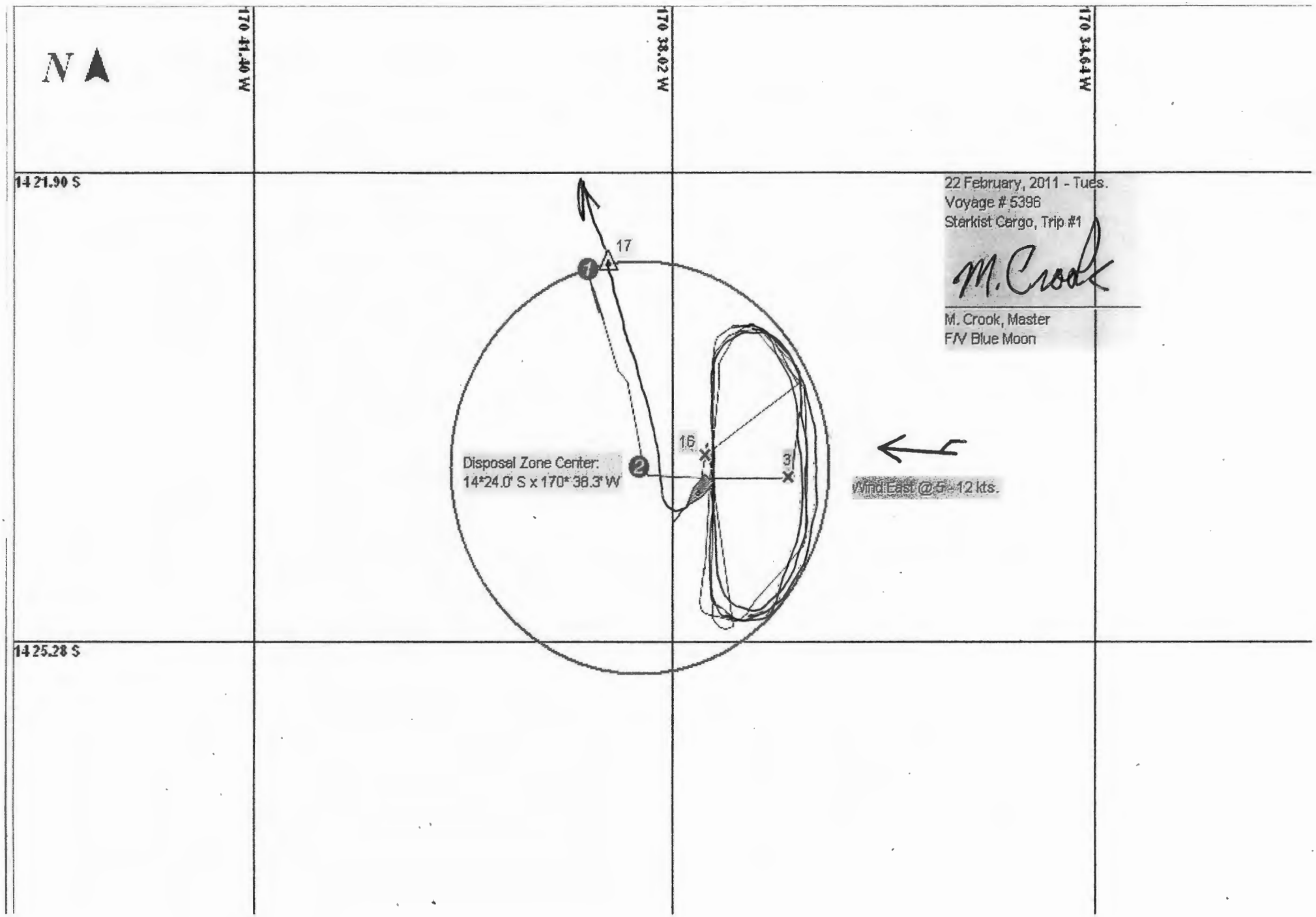
Total Discharge Time: 193 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooke


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
17
1
16
3
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind East @ 5 - 12 kts.
22 February, 2011 - Tues.
Voyage # 5396
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon

Date: 02/24/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5397

Permit # OD 93-01 & OD 93-02

Time	
1015	Begin 1st Loading SK
~~1145~~ 1115	Finish 1st Loading SK
1608	Begin 2nd Loading SK
2140	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	193,750	Gallons
Other	0	Gallons
Total	193,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	70	29.52			
0605	Arrive Edge of Zone	# 1	14*22.57' S	170*38.68' W	East-5	"	"	E/SE-1.0	8.8	164
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.7	159
0622	Begin Discharge	# 3	14*24.12' S	170*37.24 W	" "	"	"	" " X	8.4	090
" 37		# 4	14*23.62' S	170*37.79' W	East-7	75	"	" "	8.7	182
" 52	Remarks:	# 5	14*24.45' S	170*37.02' W		"			8.5	011
0707		# 6	14*23.11' S	170*37.59' W		"			8.3	252
" 22		# 7	14*25.05' S	170*37.46' W		70		5	8.6	036
" 37		# 8	14*23.61' S	170*36.99' W		"			8.8	357
" 52		# 9	14*24.73' S	170*37.80' W		"			8.6	181
0807		# 10	14*23.40' S	170*37.01' W		"			8.9	002
" 22		# 11	14*24.14' S	170*37.84' W		60			9.3	180
" 37		# 12	14*23.64' S	170*37.04' W		"		10	8.9	358
" 52		# 13	14*23.60' S	170*37.80' W		"			9.4	183
0907		# 14	14*24.42' S	170*37.05' W		"			9.2	003
" 22		# 15	14*24.27' S	170*37.93' W		"			9.8	177
" 37		# 16	14*24.51' S	170*37.15' W		"			8.9	014
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0940	Finish Discharge	# 17	14*23.81' S	170*37.32' W	East-7	60%	29.52	E/SE-1.0	9.5	331
0950	Exit Discharge Zone	# 18	14*22.63' S	170*37.83' W	" "	"	" "	" "	9.6	334
1040	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

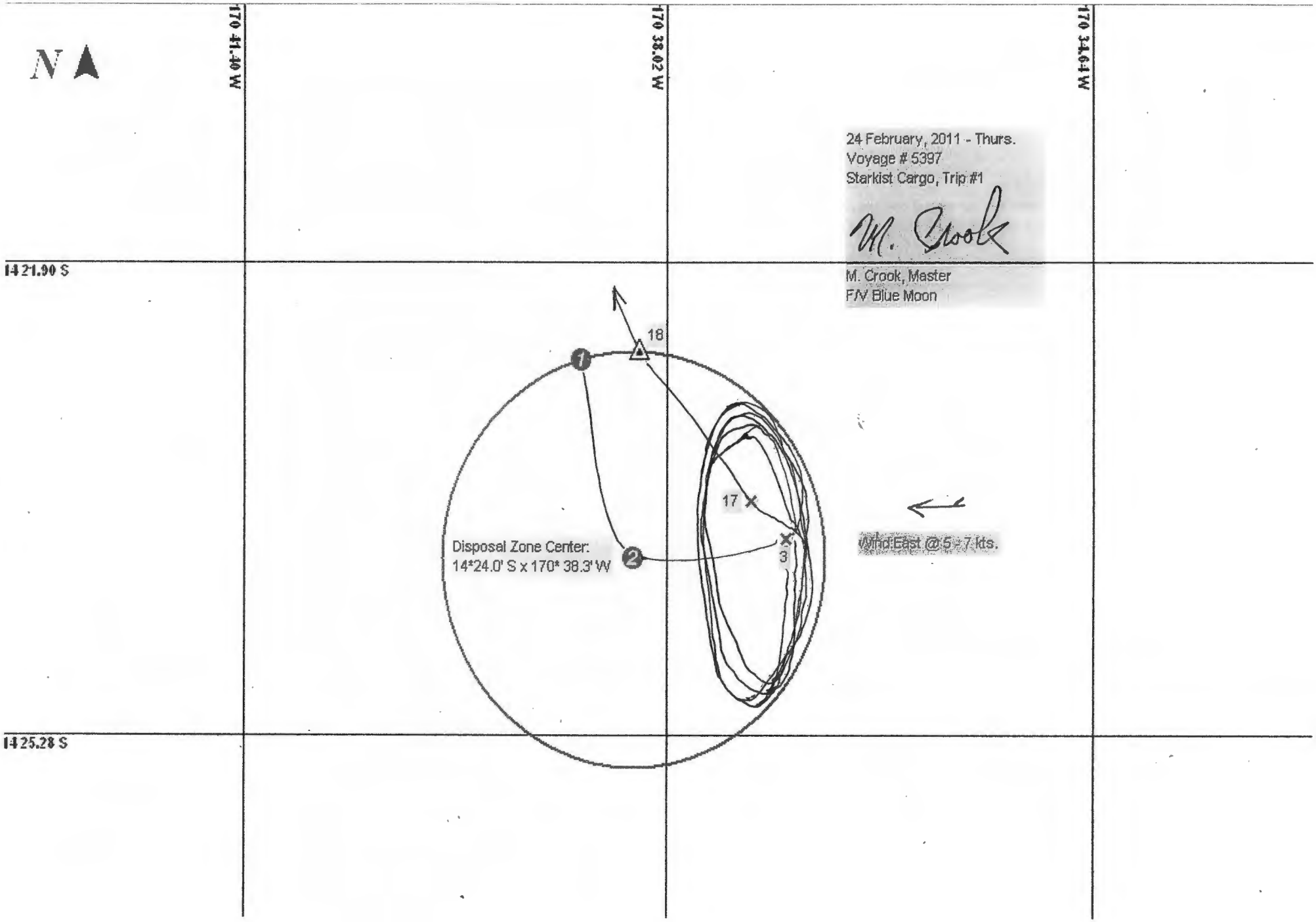
Total Discharge Time: 198 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.5 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
24 February, 2011 - Thurs.
Voyage # 5397
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
18
17
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind East @ 5 - 7 kts.

Date: 02/26/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5398

Permit # OD 93-01 & OD 93-02

Time		
2/25 1510	Begin 1st Loading SK	
2130	Finish 1st Loading SK	
	Begin 2nd Loading SK	
	Finish 2nd Loading SK	

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	181,250	Gallons
Other	0	Gallons
Total	181,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	75	29.58			
0558	Arrive Edge of Zone	# 1	14*22.54' S	170*38.70 W	East-5	80	"	E/SE - 1.0	9.0	161
0608	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.8	162
0615	Begin Discharge	# 3	14*24.03' S	170*37.20' W	" "	70	"	" " X	8.6	089
" 30		# 4	14*23.87' S	170*37.70' W	" "	"	29.59		9.1	180
" 45	Remarks:	# 5	14*23.90' S	170*36.82' W	" "	"			8.7	000
0700		# 6	14*23.32' S	170*37.83' W	" "	"			9.2	178
" 15		# 7	14*24.70 S	170*37.13' W	East-7	75		5	8.5	036
" 30		# 8	14*23.24' S	170*37.85' W		"			8.8	185
" 45		# 9	14*24.74' S	170*37.13' W		"			8.7	026
0800		# 10	14*23.19' S	170*37.20' W		70			9.0	295
" 15		# 11	14*24.62' S	170*37.79' W		"			9.3	180
" 30		# 12	14*23.14' S	170*37.23' W		60	29.60	10	9.4	302
" 45		# 13	14*23.93' S	170*37.88' W	East-10	"			9.6	179
0900		# 14	14*23.77' S	170*36.99' W	" "	"			9.4	358
" 15		# 15	14*23.32' S	170*37.87' W	" "	50			9.1	177
" 30		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0920	Finish Discharge	#16	14*23.11' S	170*38.32' W	East-10	50%	29.60	E/SE-1.0	9.2	338
0925	Exit Discharge Zone	#17	14*22.68' S	170*37.73 W	" "	"	" "	" "	9.6	335
1020	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

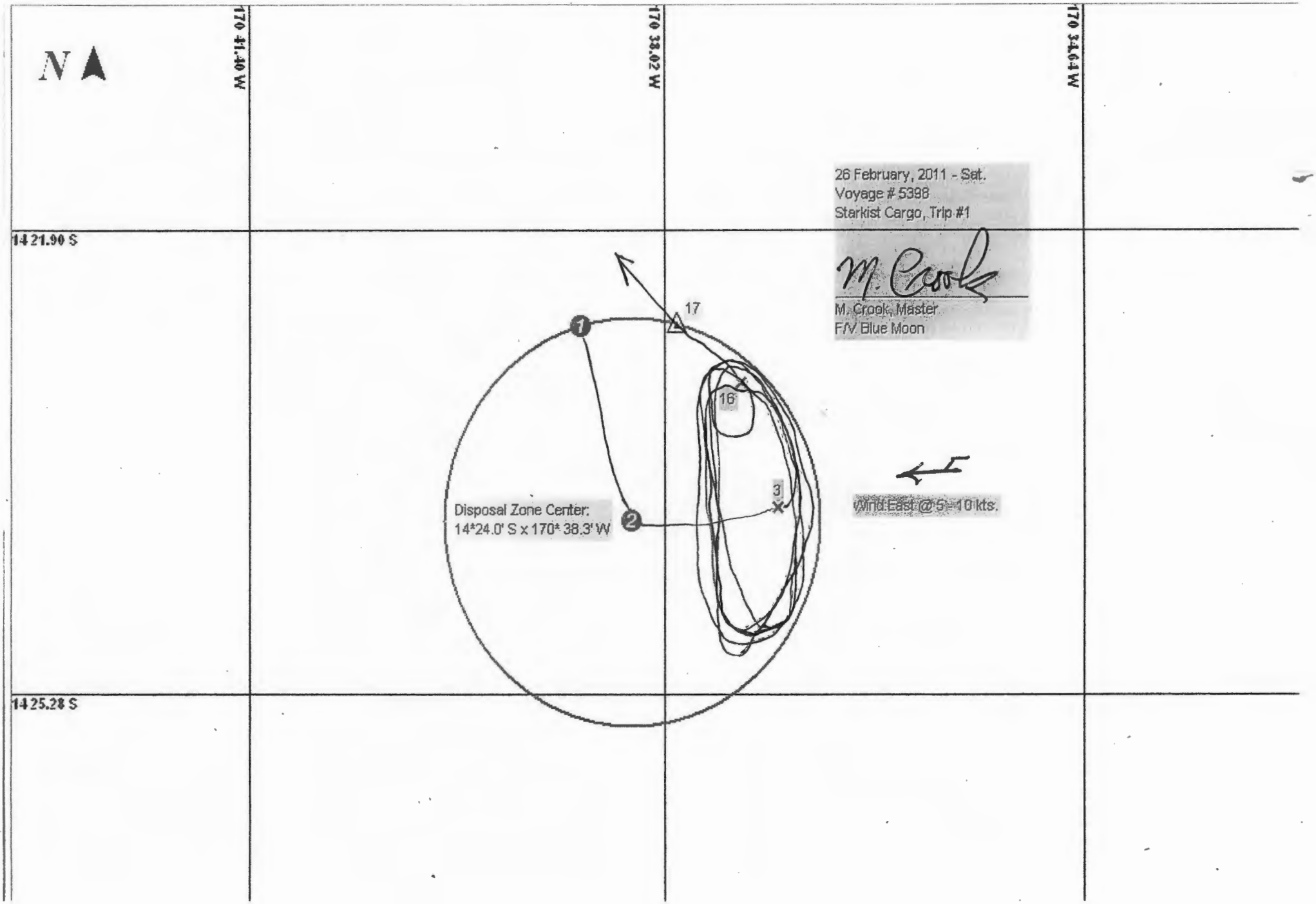
Total Discharge Time: 185 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 5.1 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 109 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
26 February, 2011 - Sat.
Voyage # 5398
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind East @ 5-10 kts.

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

10 March, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
14 March, 2011

Introduction

On March 10, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0510: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0600: The *Blue Moon* entered the dumpzone circle @ 14*22.5' S x 170*38.7' W.

0610: The *Blue Moon* arrived at the dump-zone center, where observed east winds and slight east southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0620: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with east/SE swells to 1.0 meters and east winds at 10 knots (kts.) with the barometer reading 29.62. Current set and drift, of the ship, were to the west at 1.1 knots. No floating materials or sea life were observed here.

0630: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.2 miles long (see Plot 1) until 0945 hrs.

0955: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east wind had increased to 15 kts. with partly cloudy skies. The waste plume was not visibly present here and was only apparent further down-current to the west some distance, (approximately 0.5 miles) away. The current/wind drift of the ship was GPS determined to be westerly @ 1.6 knots. No sea life or floating materials were observed.

1005: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed similar coloration qualities as those at Station #1, with only clear natural blue appearing seawater and no visible indication of the waste plume. The average drift rate of the ship with current and wind was GPS determined here to be westerly (W) at a rate of 1.9 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1015: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed a large area with heavy surface sheen over clear sub-surface waters. Sea & wind conditions remained the same as with the previous sample stations and the drift rate of the ship between Stations #3 & 4 was 1.8 knots, again, to the west.

1025: Station Four monitoring. This area showed more of the heavy surface sheen over clear blue subsurface water, pretty much the same color qualities as with Station #3. The westerly current/drift rate of the ship was again noted here to be at 1.8 knots. No floating scum or suspended particulate materials were observed at any of these sample stations.

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Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: March 10, 2011	Sea Conditions: Slight w/ East southeast swells to 1.0 meters. Wind: East @ 10 - 15 knots Visibility: Good 8-10+ miles Barometer: 29.61 - 29.67 Current Set & Drift Rate: West @ average 1.75 knots Sky: Cloudy/Partly cloudy, 70 - 80%					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0620	Control	1	27.8	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	27.8	7.3		
		10	27.8	7.3		
0955	Station 1	1	27.8	7.3	None	Same as Control Station.
		3	27.8	7.3		
		10	27.8	7.3		
1005	Station 2	1	27.8	7.3	None	Again, same as Control and Station #1.
		3	27.8	7.3		
		10	27.8	7.3		
1015	Station 3	1	28.3	7.3	Slightly Pungent	Broad area of heavy glassy surface sheen over deep, clear blue. No floating or suspended particulate or other material.
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SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control-C	14° 24.08'	South	170° 37.15'	West
Station 1	14° 23.99'	South	170° 37.01'	West
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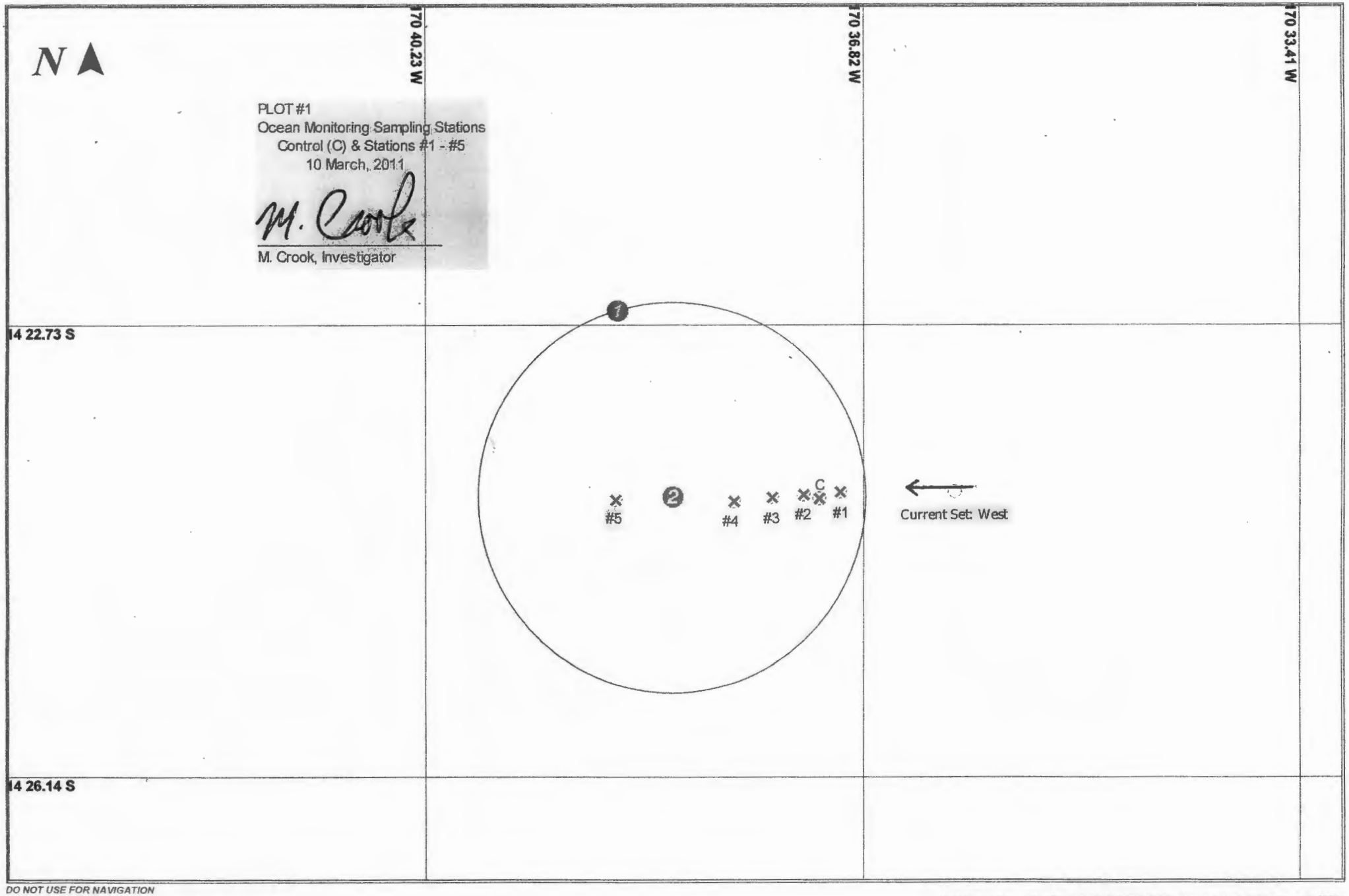

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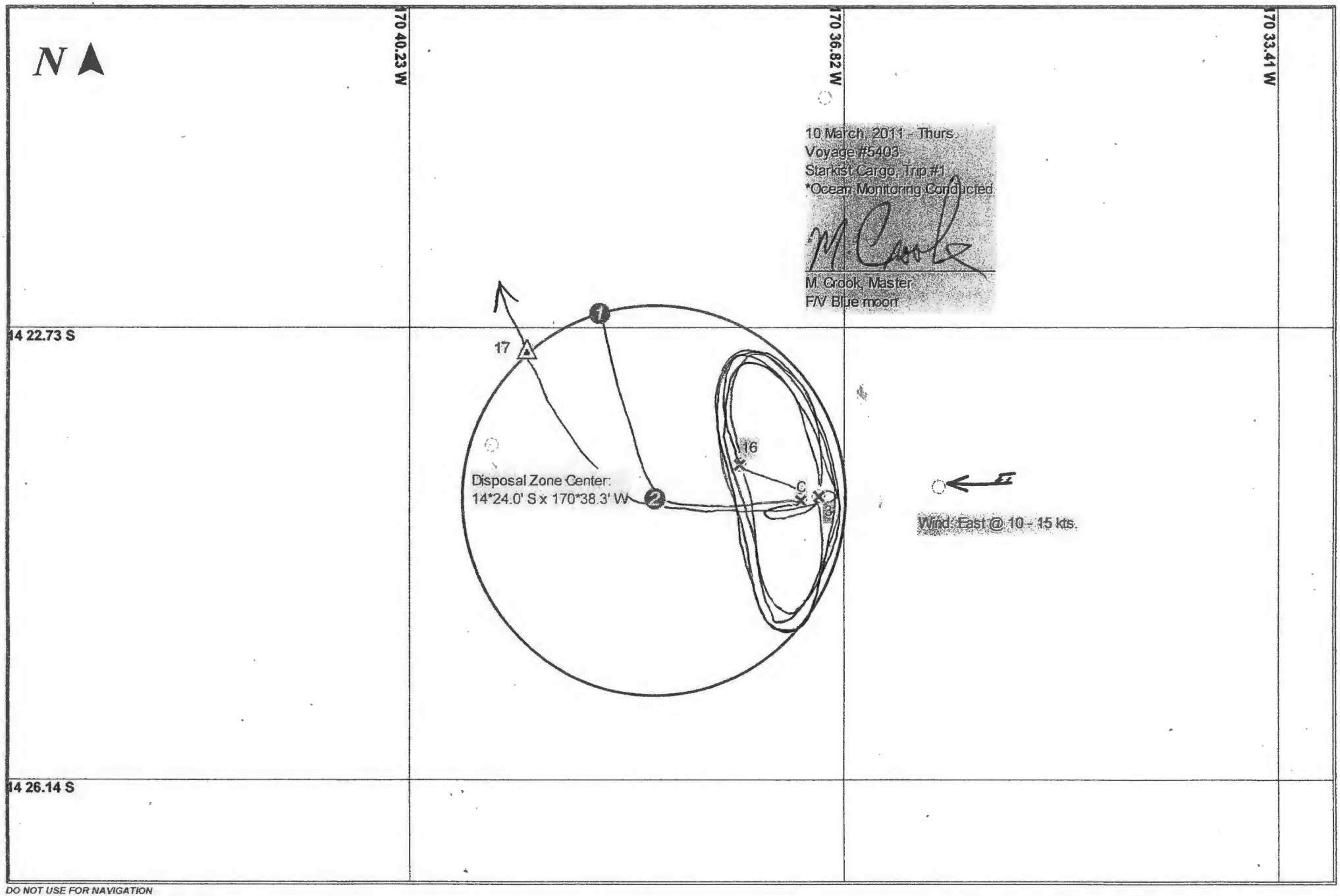

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Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

10 March, 2011

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Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
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STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
14 March, 2011

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Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

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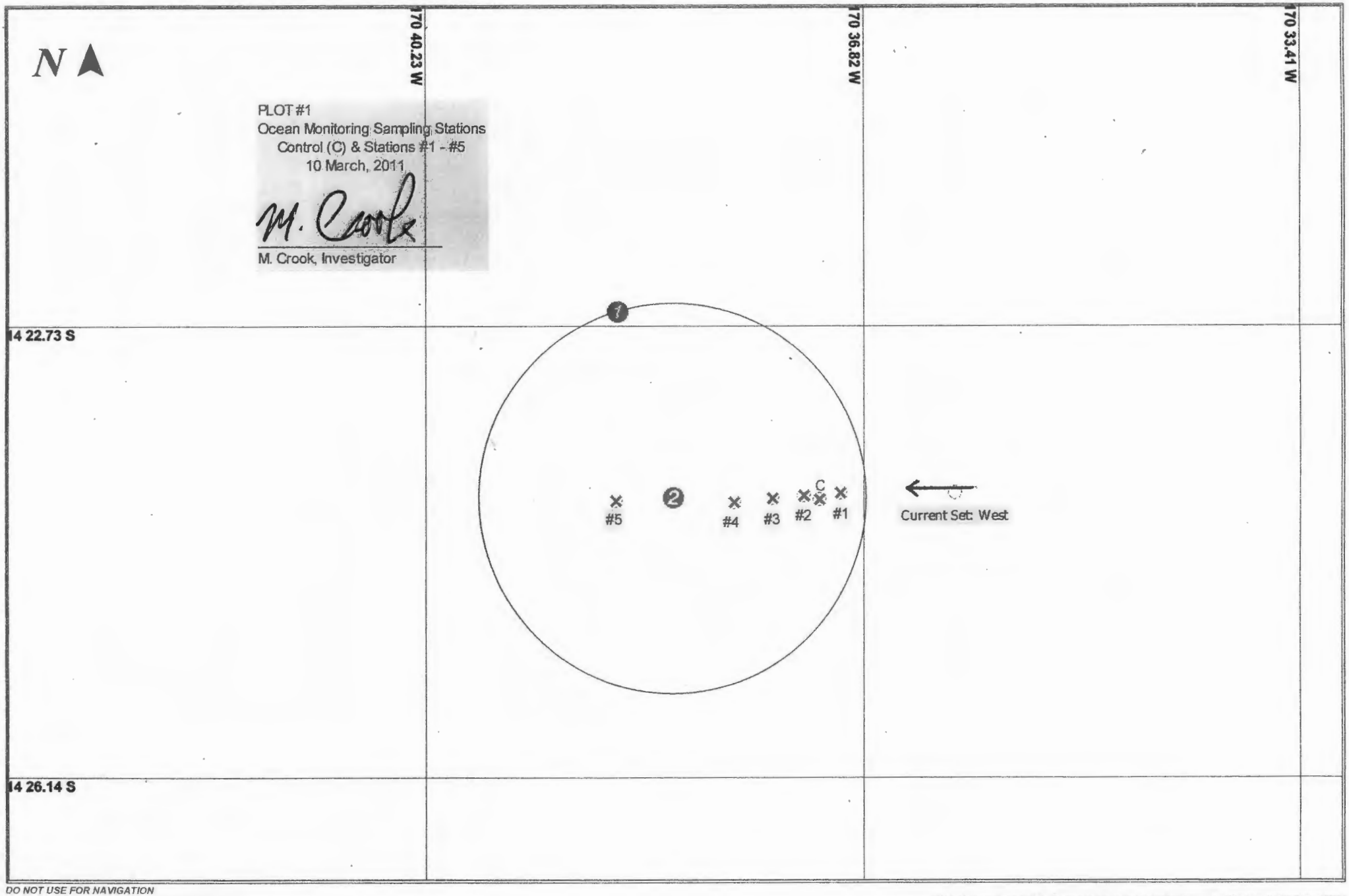

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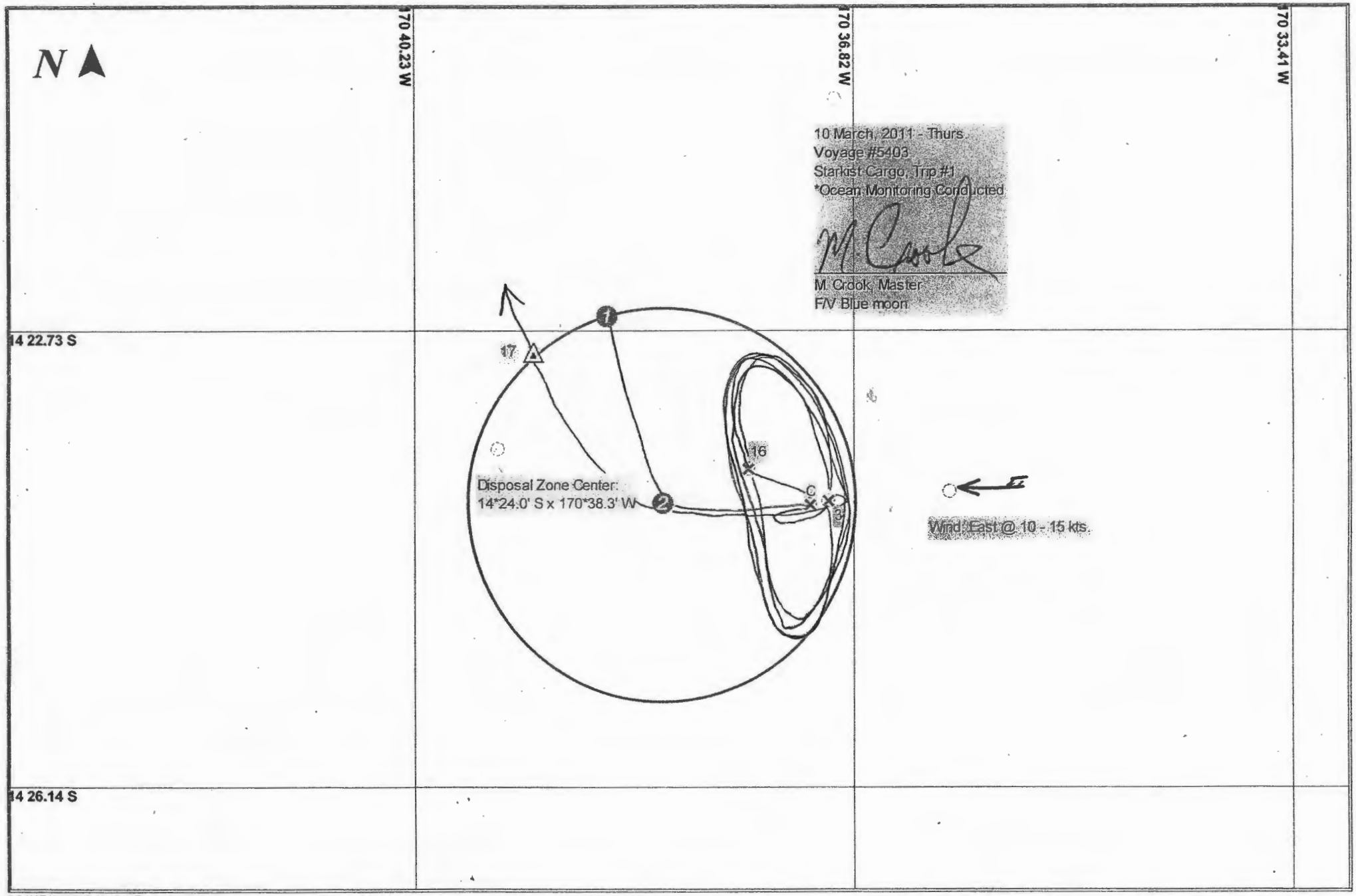

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Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

10 March, 2011

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Mike Crook
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Pago Pago, AS 96799
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Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

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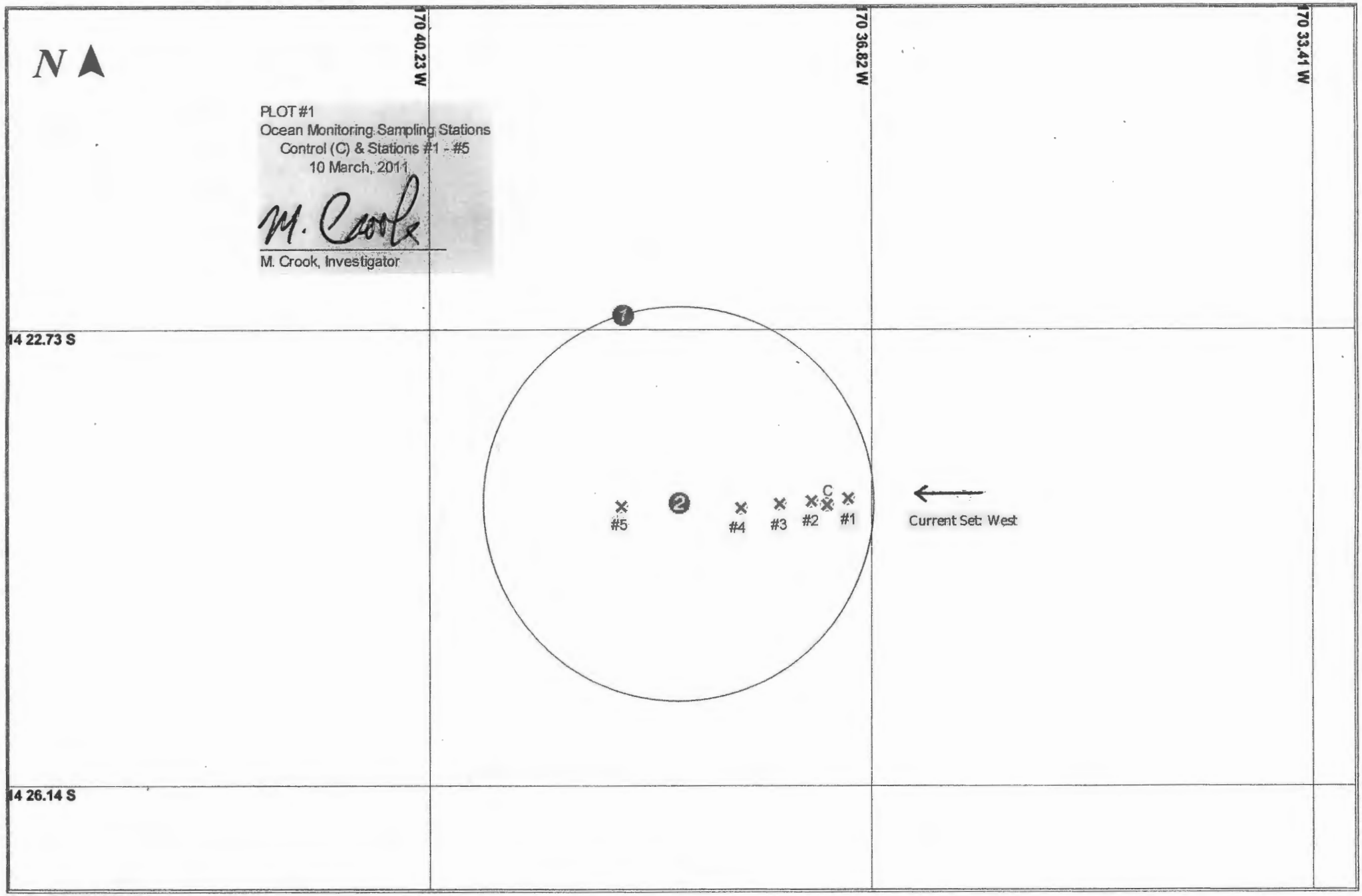

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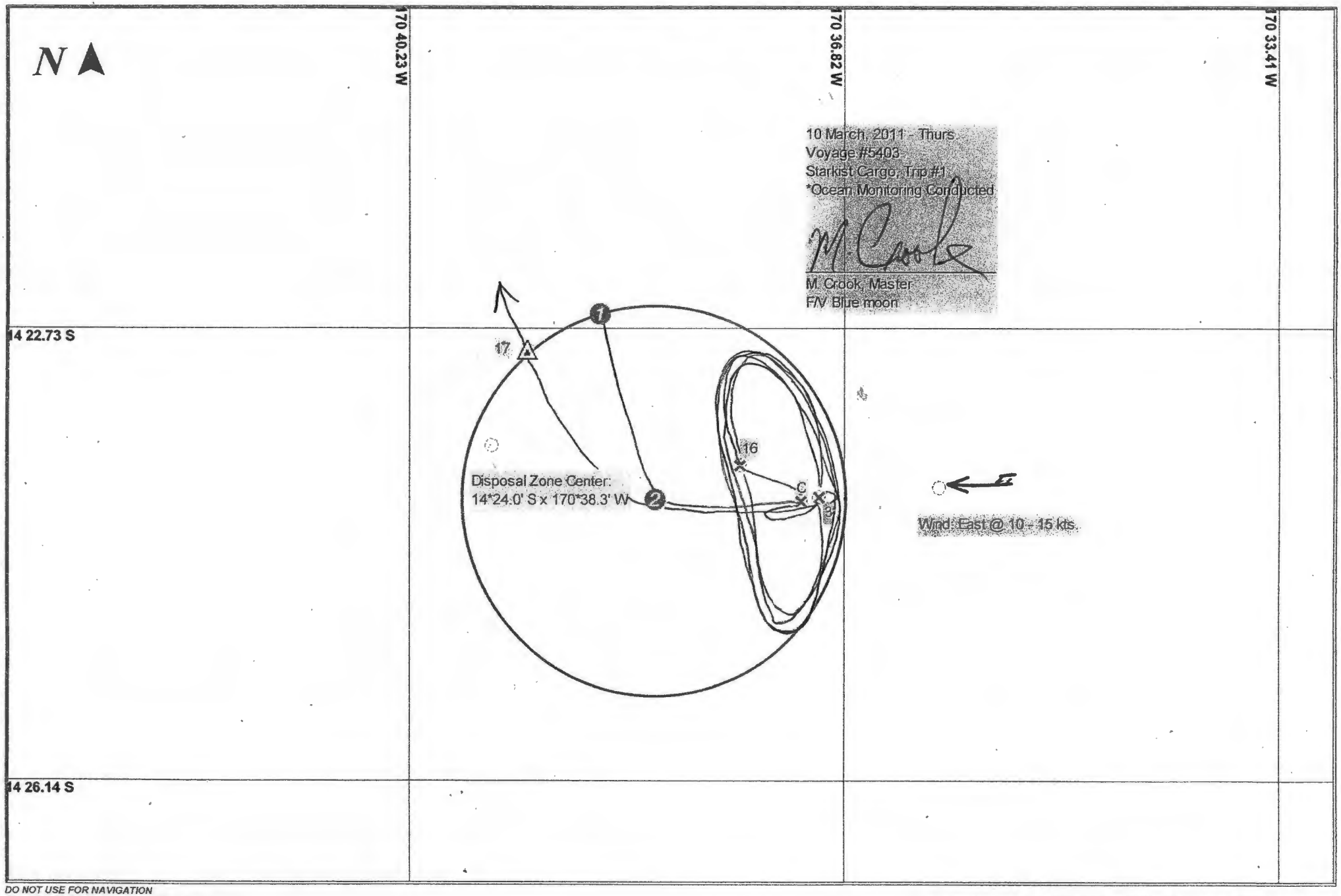

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OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON March, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	14	0	0	**14**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	2,538,000	0	0	**2,538,000**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	2,538,000	**0**

RUNNING TIME ON TRIPS: **77.0 hrs.**

DISCHARGE TIME ON TRIPS: **44.96 hrs.**

AV. GPM DISCHARGE RATE: **106.1 gal/min/kt**

AV. TRIP TIME: **5.5 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER: Mike Crook

M. Crook

Date: 03/01/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5399

Permit # OD 93-01 & OD 93-02

	Time	
2/28	1530	Begin 1st Loading SK
	2190	Finish 1st Loading SK
3/1	000	Begin 2nd Loading SK
	0100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	185,000	Gallons
Other	0	Gallons
Total	185,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	20	29.53			
0603	Arrive Edge of Zone	# 1	14*22. 50' S	170*38.68' W	East-5	25	"	SE-1.5	8.9	163
0613	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	30	"	" "	8.7	160
0620	Begin Discharge	# 3	14*24.03' S	170*37.24' W	East-7	40	29.54	S+SE-1.5	8.5	090
" 35		# 4	14*23.48' S	170*37.89' W					8.7	178
" 50	Remarks:	# 5	14*24.70' S	170*37.10' W					8.3	022
0705		# 6	14*23.24' S	170*37.11' W					8.8	324
" 20		# 7	14*24.70' S	170*37.81' W				5	9.1	180
" 35		# 8	14*24.04' S	170*36.85 W					8.9	000
" 50		# 9	14*23.27' S	170*37.86' W		50			9.1	182
0805		# 10	14*24.84' S	170*37.14' W	East-10	"	29.55		8.8	037
" 20		# 11	14*23.32' S	170*37.81' W		"	"		9.0	183
" 35		# 12	14*25.14' S	170*37.34' W		"	"	10	8.5	082
" 50		# 13	14*23.21' S	170*37.23' W		"	29.56		9.7	300
0905		# 14	14*24.50' S	170*37.84' W	East-12		"		9.5	182
" 20		# 15	14*23.81' S	170*37.62 W	" "		"		9.4	358
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0930	Finish Discharge	#16	14*22.96' S	170*37.64 W	East-12	50%	29.56	S+SE-1.5	9.2	271
0934	Exit Discharge Zone	#17	14*22.59' S	170*38.09' W	" "	"	"	" "	9.6	328
1025	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

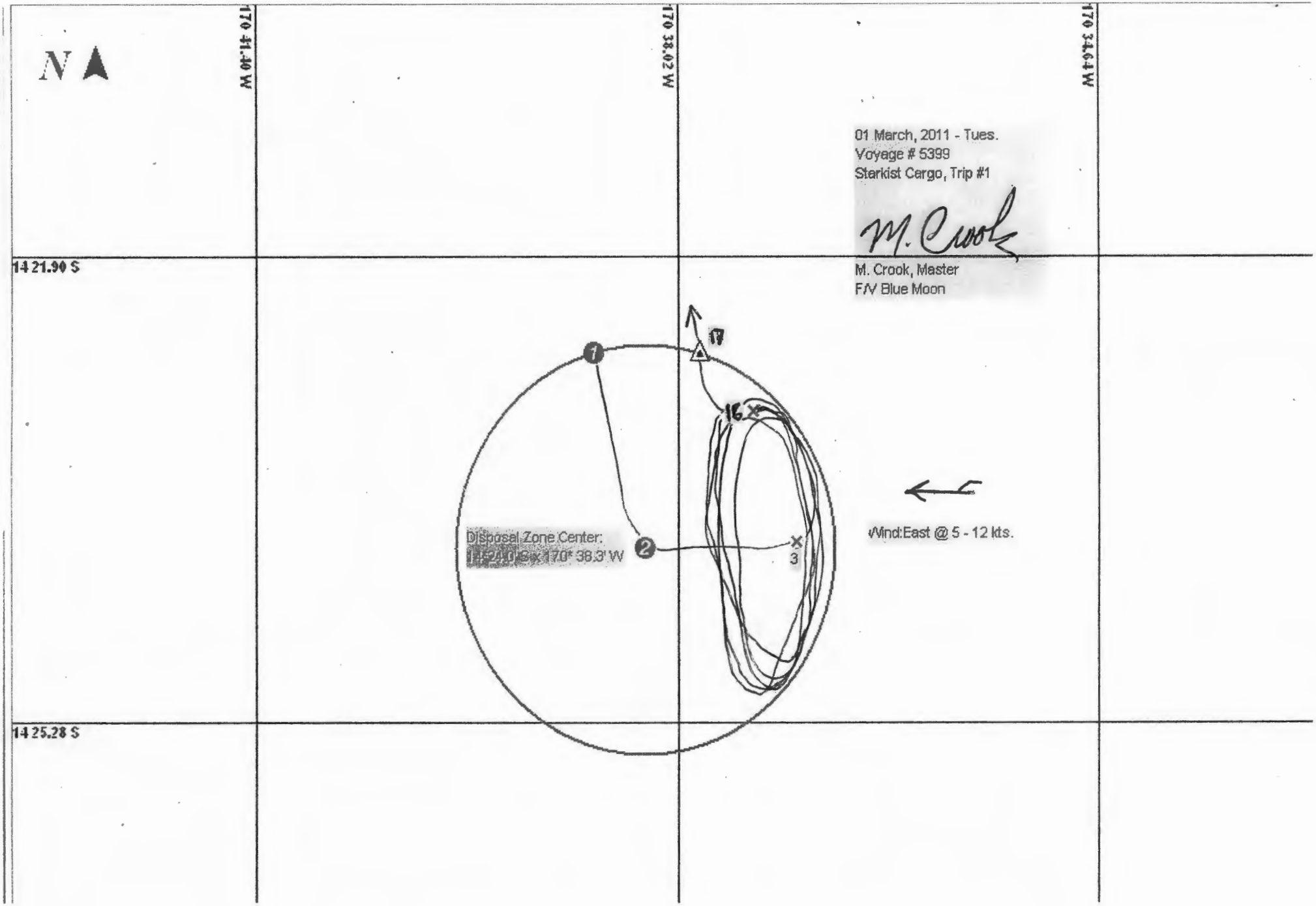
Total Discharge Time: 190 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 108 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
01 March, 2011 - Tues.
Voyage # 5399
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14° 24.0' S x 170° 38.3' W
1
2
3
16
17
Wind:East @ 5 - 12 kts.

Date: 03/03/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5400

Permit # OD 93-01 & OD 93-02

	Time	
3/2	1430	Begin 1st Loading SK
	2145	Finish 1st Loading SK
3/3	0000	Begin 2nd Loading SK
	0100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	191,250	Gallons
Other	0	Gallons
Total	191,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	70	29.58			
0605	Arrive Edge of Zone	# 1	14*22.52' S	170*38.69' W	East-2	80	29.59	East-1.0	8.9	161
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	90	"	" "	8.6	162
0623	Begin Discharge	# 3	14*24.00 S	170*37.20 W	East-3	"	"	" " X	8.4	090
" 38		# 4	14*23.56' S	170*37.71' W	East-5	"			8.9	185
" 53	Remarks:	# 5	14*24.67' S	170*37.07' W	" "	80			8.5	024
0708		# 6	14*23.27' S	170*37.73' W	" "	"			8.9	188
" 23		# 7	14*24.81' S	170*37.15' W	East-7	"		5	8.6	004
" 38		# 8	14*23.09' S	170*37.37' W	" "	"			8.5	267
" 53		# 9	14*25.01' S	170*37.43' W	" "	70			8.7	064
0808		# 10	14*23.25' S	170*37.16' W	East-10	80			9.0	308
" 23		# 11	14*24.78' S	170*37.74 W	" "	"			8.8	181
" 38		# 12	14*23.05' S	170*37.32' W	" "	90		10	8.7	272
" 53		# 13	14*24.92' S	170*37.46' W	" "	100-Rain			8.9	006
0908		# 14	14*23.85' S	170*37.02 W	East-12	" "	29.60		9.3	359
" 23		# 15	14*24.31' S	170*37.72' W	" "	" "	"		9.6	178
" 38		# 16	14*23.73' S	170*37.03' W	East-10	" "	"		9.3	093
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0943	Finish Discharge	#17	14*23.11' S	170*37.66' W	East-7	100-Rain	29.61	East-1.0	9.4	272
0948	Exit Discharge Zone	#18	14*22.59' S	170*37.88 W	East-5	" "	"	" "	9.5	331
1040	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

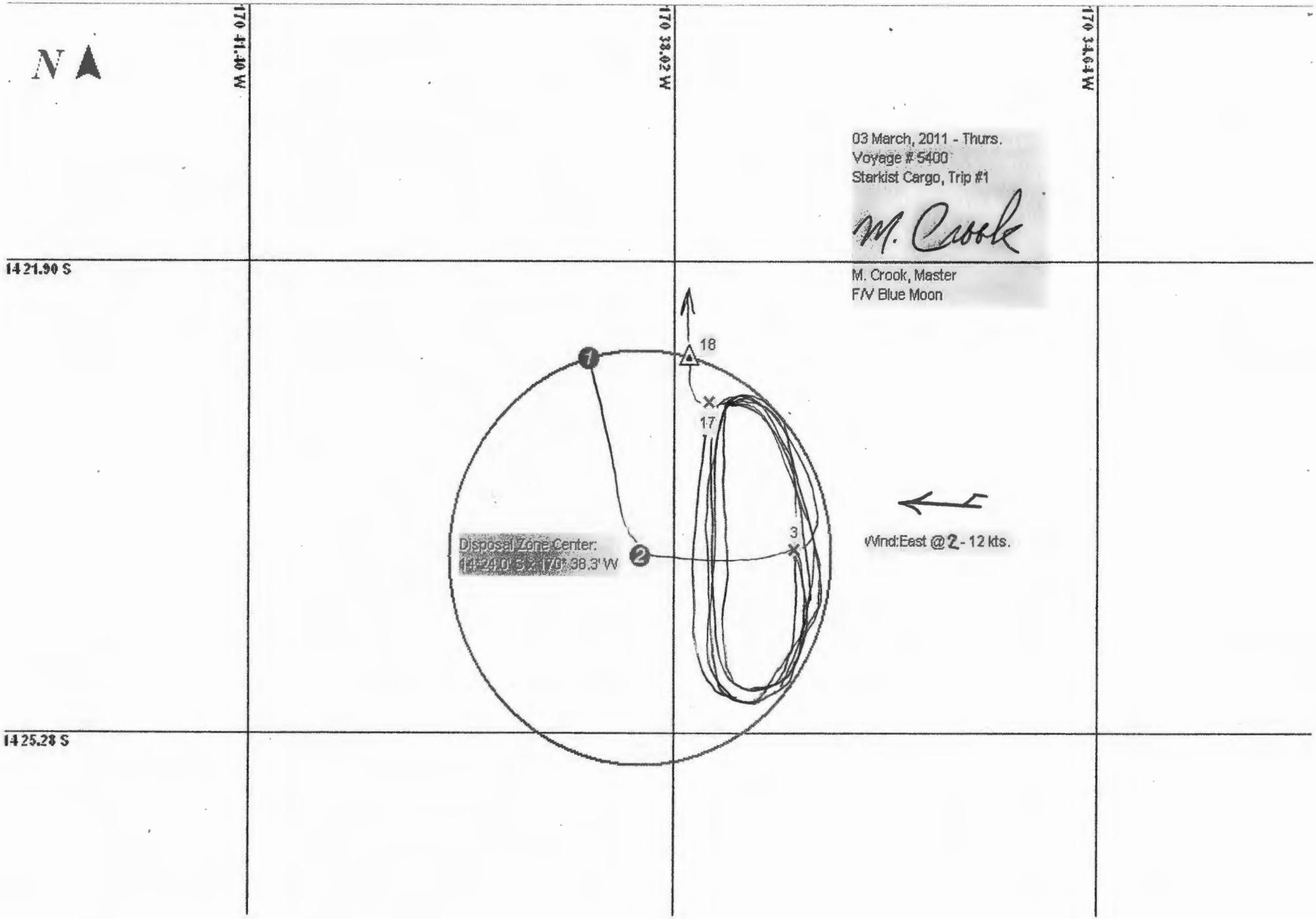
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 107.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
03 March, 2011 - Thurs.
Voyage # 5400
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
18
17
3
1
2
Disposal Zone Center:
14°24.0' S x 170°38.3' W
Wind:East @ 2 - 12 kts.

F/V Blue Moon Ocean Dumping Log

Date: 03/05/11 Sat. Voyage #: 5401

Permit # OD 93-01 & OD 93-02

Trip # 1 - X
Trip # 2

Volume Loaded: SK 196,250 Gallons; Other 0 Gallons; Total 196,250 Gallons

Time	
0950	Begin 1st Loading SK
1115	Finish 1st Loading SK
1430	Begin 2nd Loading SK
2130	Finish 2nd Loading SK

3/4 ↓

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	25%	29.58			
0600	Arrive Edge of Zone	# 1	14*22.51' S	170*38.70 W	" "	"	"	East-1.0	8.6	162
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	30	"	" "	8.7	166
0618	Begin Discharge	# 3	14*23.99' S	170*37.21' W	" "	"	29.59	" " X	8.9	070
" 33		# 4	14*23.68' S	170*37.58' W	" "				8.8	179
" 48	Remarks:	# 5	14*24.55' S	170*36.95' W	" "				8.5	021
0703		# 6	14*22.96' S	170*37.61' W	East-3				8.3	181
" 18		# 7	14*24.87' S	170*37.65' W	East-5			5	8.7	099
" 33		# 8	14*23.45' S	170*36.97' W	" "				8.8	336
48		# 9	14*24.53' S	170*37.77' W	" "				9.2	180
0803		# 10	14*24.38' S	170*36.96' W					8.8	091
" 18		# 11	14*23.76' S	170*37.84' W					9.3	179
" 33		# 12	14*24.01' S	170*36.88' W				10	9.2	002
" 48		# 13	14*23.72' S	170*37.84' W					9.4	178
0903		# 14	14*24.48' S	170*37.01' W	East-7		29.60		9.3	001
" 18		# 15	14*22.67' S	170*37.53' W			"		9.0	272
33		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0933	Finish Discharge	# 16	14*22.96' S	170*37.63' W	East-7	30%	29.60	East-1.0	9.6	332
0937	Exit Discharge Zone	# 17	14*22.56' S	170*37.95' W	" "	"	29.60	"	9.6	331
1035	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center W/2kt End of Discharge Stationary Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 5.33 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

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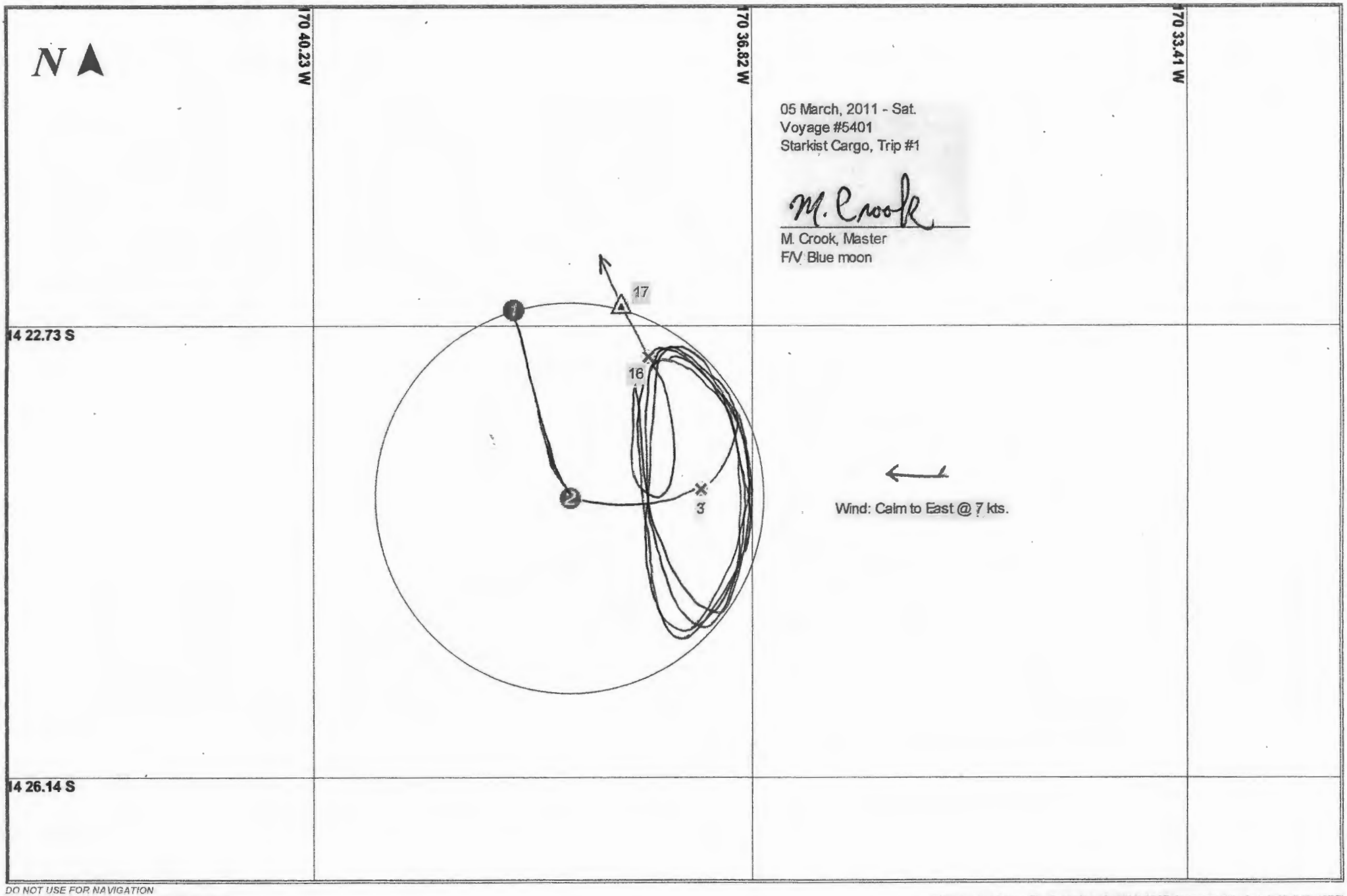

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Date: 03/08/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5402

Permit # OD 93-01 & OD 93-02

Time		
1130	Begin 1st Loading SK	3/7
1245	Finish 1st Loading SK	
1430	Begin 2nd Loading SK	
2100	Finish 2nd Loading SK	

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	70	29.60			
0558	Arrive Edge of Zone	# 1	14*22.52 S	170*38.69' W	"	"	"	SE-1.5	8.8	162
0607	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	"	75	"	"	8.5	163
0615	Begin Discharge	# 3	14*24.06' S	170*39.36' W	West-2	"	"	" " X	8.7	278
" 30		# 4	14*24.28' S	170*38.66' W	" "	"	"		8.8	358
" 45	Remarks:	# 5	14*23.79' S	170*39.45' W	" "	"	"		8.7	191
0700		# 6	14*25.27' S	170*38.76' W	calm	"	"		8.3	074
" 15		# 7	14*23.13' S	170*38.65' W	" "	"	"	5	8.5	272
" 30		# 8	14*24.45' S	170*39.47' W	"	70	"		8.6	172
" 45		# 9	14*24.33' S	170*38.62' W	"	"	"		9.0	357
0800		# 10	14*23.62 S	170*39.59 W	East-3	"	"		9.2	181
" 15		# 11	14*25.00 S	170*39.13' W	" "	"	"		8.7	046
" 30		# 12	14*24.23' S	170*37.16' W	East-5	60	"	10	8.9	090
" 45		# 13	14*23.10 S	170*37.86' W	" "	"	"		9.4	184
0900		# 14	14*25.24' S	170*37.60' W	" "	"	29.61		8.9	061
" 15		# 15	14*22.94' S	170*37.86' W	" "	"	"		9.1	182
" 30		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0930	Finish Discharge	#16	14*22.96' S	170*37.94' W	East-5	60%	29.61	SE-1.5	9.3	338
0935	Exit Discharge Zone	#17	14*22.54' S	170*38.08' W	" "	"	"	" "	9.5	341
1030	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center East (slow) End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.86 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 106 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

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3/8/2011
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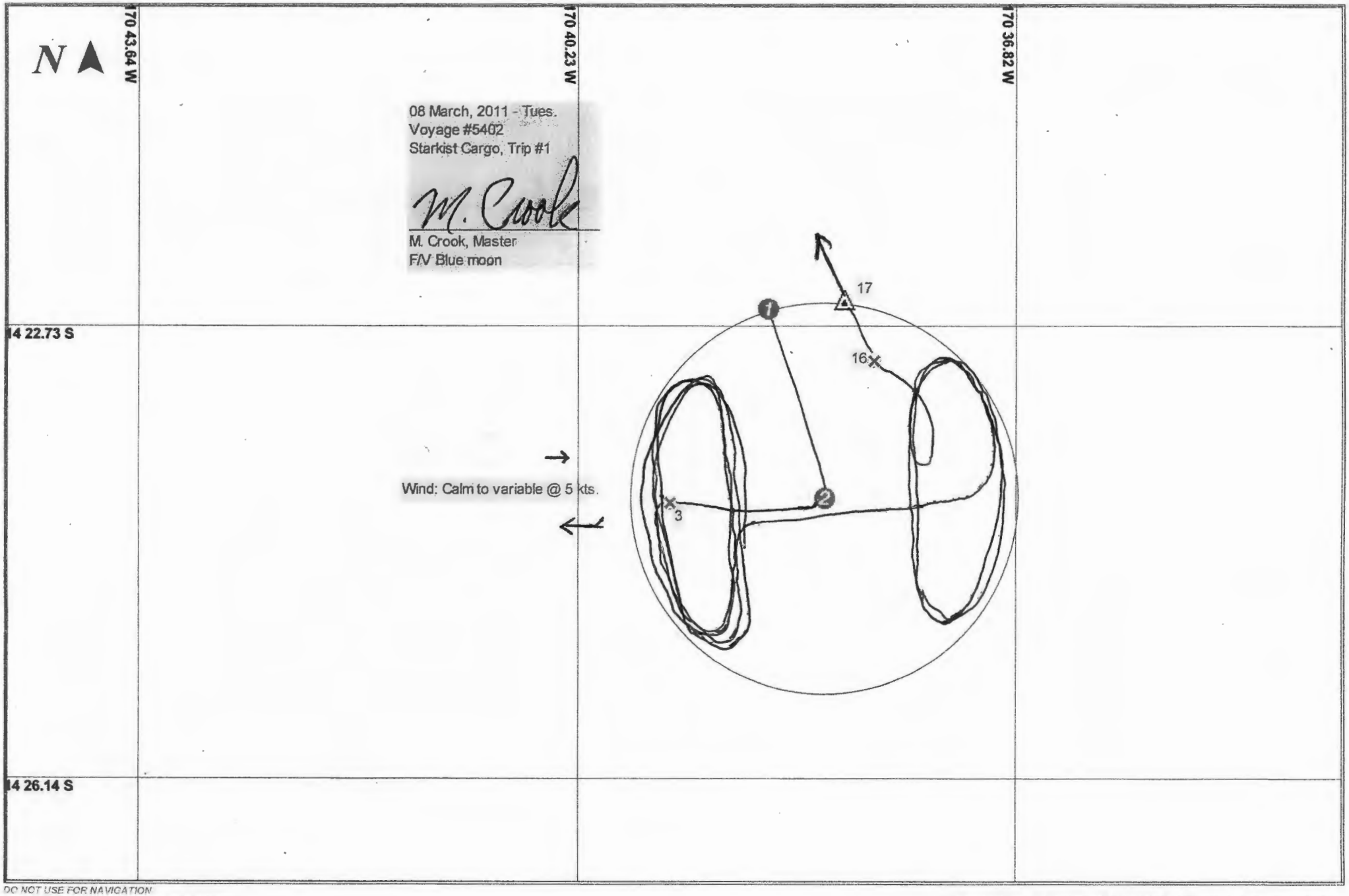

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Date: 03/10/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5403

Permit # OD 93-01 & OD 93-02

	Time	
3/9	1145	Begin 1st Loading SK
	2130	Finish 1st Loading SK
3/10	0230	Begin 2nd Loading SK
	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	195,750	Gallons
Other	0	Gallons
Total	195,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	75	29.61			
0600	Arrive Edge of Zone	# 1	14*22.53' S	170*38.72' W	East-10	"	29.62	SE-1.0	8.6	164
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	" "	" "	8.4	160
0630	Begin Discharge	# 3	14*24.13' S	170*37.10' W	" "	"	29.64	X	7.7	045
" 45		# 4	14*23.66' S	170*37.74' W	" "	80	"		8.7	180
0700	Remarks:	# 5	14*24.79' S	170*37.09' W	" "		"		8.4	026
" 15	Control Sample	# 6	14*22.98' S	170*37.57' W	East-12		"		8.8	210
" 30	drawn at:	# 7	14*24.78' S	170*37.83' W			"	5	8.8	181
" 45	0620 hrs.	# 8	14*23.86' S	170*36.96' W		70	"		8.7	001
0800	Position:	# 9	14*24.07' S	170*37.88' W		"	"		9.1	182
" 15	14°24.08'S	# 10	14*24.65' S	170*37.00 W		"	"		8.8	000
" 30	170° 37.15' W	# 11	14*23.20' S	170*37.73' W	East-15	60	"		8.7	179
" 45		# 12	14*25.05' S	170*37.46' W	" "	"	"	10	8.6	040
0900		# 13	14*23.18' S	170*37.14' W	" "	"	"		9.5	310
" 15		# 14	14*24.69' S	170*37.92' W			"		9.6	178
" 30		# 15	14*24.05' S	170*37.04' W			29.65		9.1	358
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W	East-15	60%	29.65	SE-1.0	9.5	183
0945	Finish Discharge	#16	14*23.67' S	170*37.67 W	" "	"	"	" "	↓	↓
1048	Exit Discharge Zone	#17	14*23.01' S	170*39.34' W	East-15	"	29.67	" "	9.3	345
1145	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 6.6 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112.8 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cole

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3/10/2011
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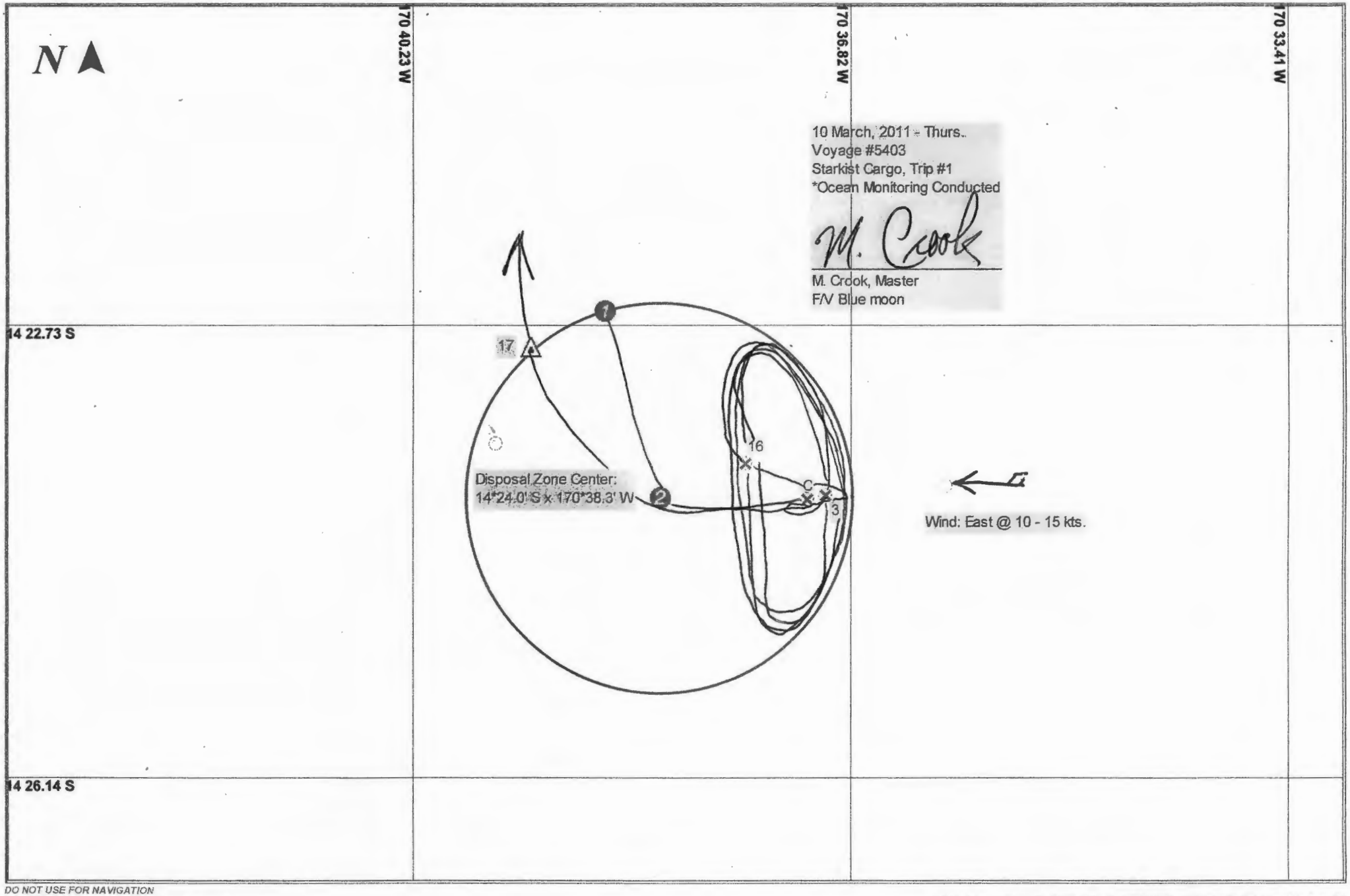

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Date: 03/12/11 Sat. F/V Blue Moon Ocean Dumping Log Voyage #: 5404

Permit # OD 93-01 & OD 93-02

	Time	
3/11	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
3/12	0200	Begin 2nd Loading SK
	0415	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:		
SK	131,250	Gallons
Other	0	Gallons
Total	131,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-12	60	29.62			
0600	Arrive Edge of Zone	# 1	14*22. 51' S	170*38. 69 W	" "	"	"	East-1.5	8.7	161
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.5	163
0620	Begin Discharge	# 3	14*23.93' S	170*37.19 W	" "	70	"	" " X	7.9	090
35		# 4	14*23.58' S	170*37.81' W	" "	80	"		8.8	184
50	Remarks:	# 5	14*2 4.91' S	170*37.37 W	" "	70			8.2	036
0705		# 6	14*2 3.08' S	170*37.16' W	East-15	"			9.1	301
20		# 7	14*2 4.46' S	170*37.00' W	" "	60		5	8.8	176
35		# 8	14*2 4.01' S	170*36.94' W	" "	"			8.6	003
50		# 9	14*2 3.89' S	170*37.93' W	East-18	"			9.0	180
0805		# 10	14*2 4.81' S	170*37.19' W	"	"			8.7	035
20		# 11	14*2 3.38 S	170*37.87 W	" "	"			9.3	181
35		# 12	14*2 4.91' S	170*37.55 W	East-20	"		10	8.5	054
50		# 13	14*2 3.00 S	170*37.11' W	" "	"			9.4	340
0905		# 14	14*2 3.89 S	170*37.83' W					9.5	182
20		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0910	Finish Discharge	#15	14*24.54 S	170*37.99 W	East-20	60 %	29.62	East-1.5	9.6	181
0920	Exit Discharge Zone	#16	14*22.57' S	170*38.71 W	" "	"	"	" "	9.6	337
1010	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 170 mins. Average Speed During Discharge: 8.87 kts. Total Time Run 5.0 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 87 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Poole

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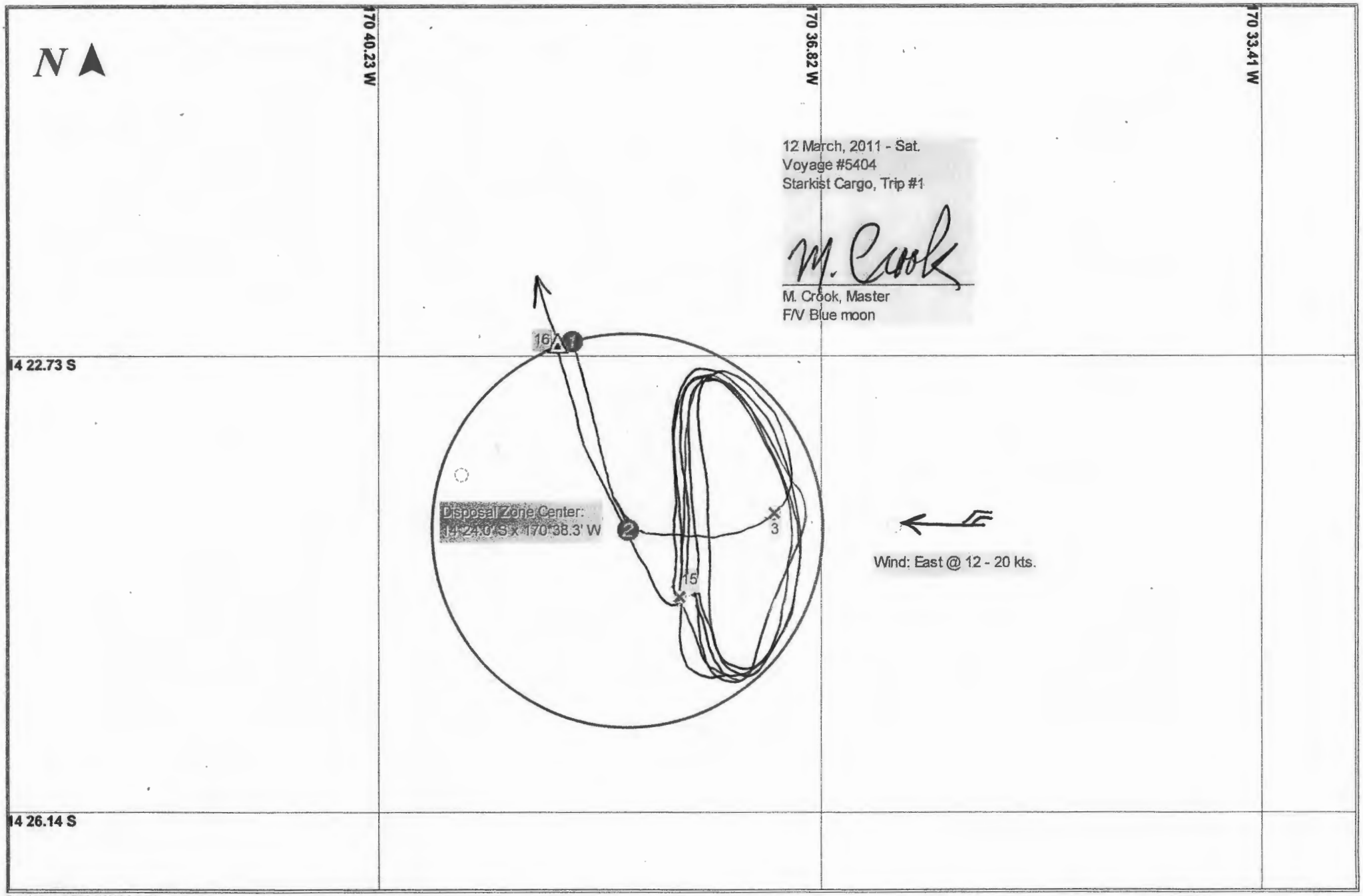

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Date: 03/15/11 Tues. — F/V Blue Moon Ocean Dumping Log — Voyage #: 5405

Permit # OD 93-01 & OD 93-02

	Time	
3/14	1630	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0100	Begin 2nd Loading SK
3/15	0220	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:			
	SK	184,500	Gallons
	Other	0	Gallons
	Total	184,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East - 10	60	29.61			
0605	Arrive Edge of Zone	# 1	14*22.52' S	170*38.69' W	East - 10	"	29.62	East - 1.5	8.5	161
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.6	163
0625	Begin Discharge	# 3	14*24.02' S	170*37.23 W	East - 12	65	29.63	" " X	8.0	090
" 40		# 4	14*23.66' S	170*37.75' W	" "	"	"	" "	8.5	179
" 55	Remarks:	# 5	14*24.37 S	170*36.87' W	" "		"		8.3	006
0710		# 6	14*23.02 S	170*37.83 W	" "		"		8.4	181
" 25		# 7	14*24.65' S	170*37.44' W	" "		"	5	7.9	062
" 40		# 8	14*23.17' S	170*37.78' W	East - 15		29.64		8.7	194
" 55		# 9	14*25.04' S	170*37.49' W	" "	60			8.4	071
0810		# 10	14*23.64' S	170*36.94 W	" "	"			8.6	353
" 25		# 11	14*23.92' S	170*37.77' W	" "	50			8.8	183
" 40		# 12	14*24.10' S	170*37.05' W	" "	"	29.65	10	8.7	017
" 55		# 13	14*23.59' S	170*37.75' W		"			9.1	181
0910		# 14	14*24.61' S	170*37.05' W		"			8.9	006
" 25		# 15	14*22.92' S	170*37.65' W		"	29.66		9.2	218
" 40		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	#16	14*22.98' S	170*37.74' W	East - 15	50%	29.66	East - 1.5	9.0	329
0940	Exit Discharge Zone	#17	14*22.53' S	170*38.20' W					9.4	332
1030	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center East End of Discharge East Discharge Pattern Ellipse

Total Discharge Time: 190 mins. Average Speed During Discharge: 8.6 kts. Total Time Run 5.33 hr.

Navigational Plot made: yes Presence of Plume? NO

Time and position of any floating material: None Discharge Rate: 113 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

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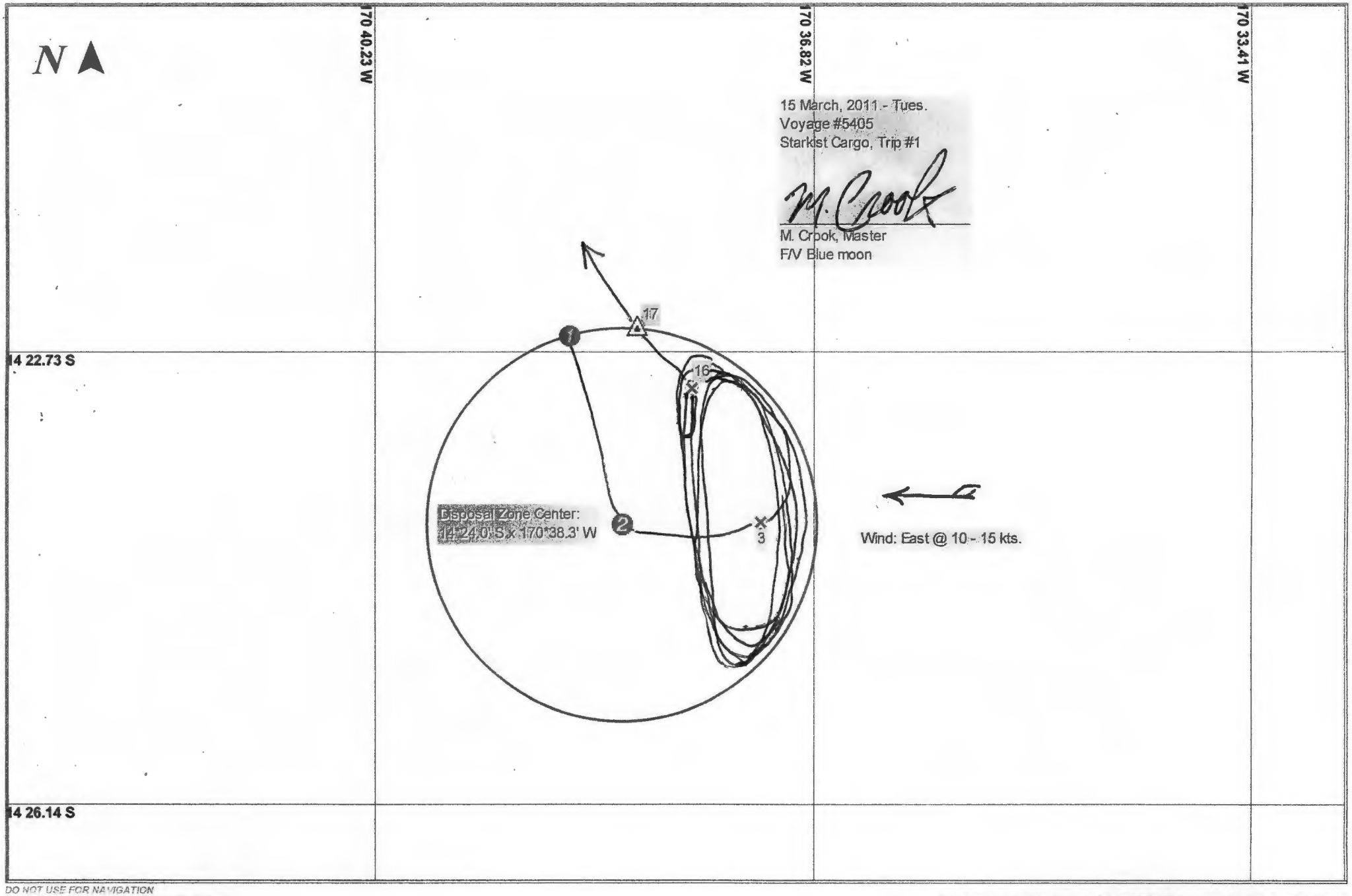

DO NOT USE FOR NAVIGATION
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Date: 03/17/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5406

Permit # OD 93-01 & OD 93-02

	Time	
3/16	1600	Begin 1st Loading SK
	2145	Finish 1st Loading SK
3/17	0100	Begin 2nd Loading SK
	0215	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	197,000	Gallons
Other	0	Gallons
Total	197,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-12	75	29.58			
0605	Arrive Edge of Zone	# 1	14*22.52' S	170*38.67' W	" "	85	29.59	E/SE-1.5	8.6	162
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	90-RAIN	"	" "	8.4	163
0625	Begin Discharge	# 3	14*24.00' S	170*37.16' W	" "	85	"	X	8.0	090
" 40		# 4	14*23.67' S	170*37.74' W	" "	75	"		8.5	180
" 55	Remarks:	# 5	14*24.84' S	170*37.22' W	East-15	70	"		8.0	047
0710		# 6	14*23.13' S	170*37.18 W		"			8.7	350
" 25		# 7	14*24.50' S	170*37.99' W		"		5	8.5	180
" 40		# 8	14*23.84' S	170*37.05' W		"			8.7	356
" 55		# 9	14*24.07' S	170*37.81' W		"			8.9	183
0810		# 10	14*24.36' S	170*36.95' W		65			8.7	002
" 25		# 11	14*23.25' S	170*37.70' W		"			8.8	181
" 40		# 12	14*24.77' S	170*37.16' W		"		10	8.6	027
" 55		# 13	14*23.26' S	170*37.75' W		60	29.60		9.0	184
0910		# 14	14*24.86' S	170*37.58' W		"	"		8.5	056
" 25		# 15	14*23.37' S	170*37.00 W		"	29.61		9.6	311
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0940	Finish Discharge	#16	14*24.34' S	170*37.77 W	East-15	60%	29.61	E/SE-1.5	9.3	182
0953	Exit Discharge Zone	#17	14*22.51' S	170*38.18 W	" "	"	"	" "	9.5	338
1045	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 116 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Creed

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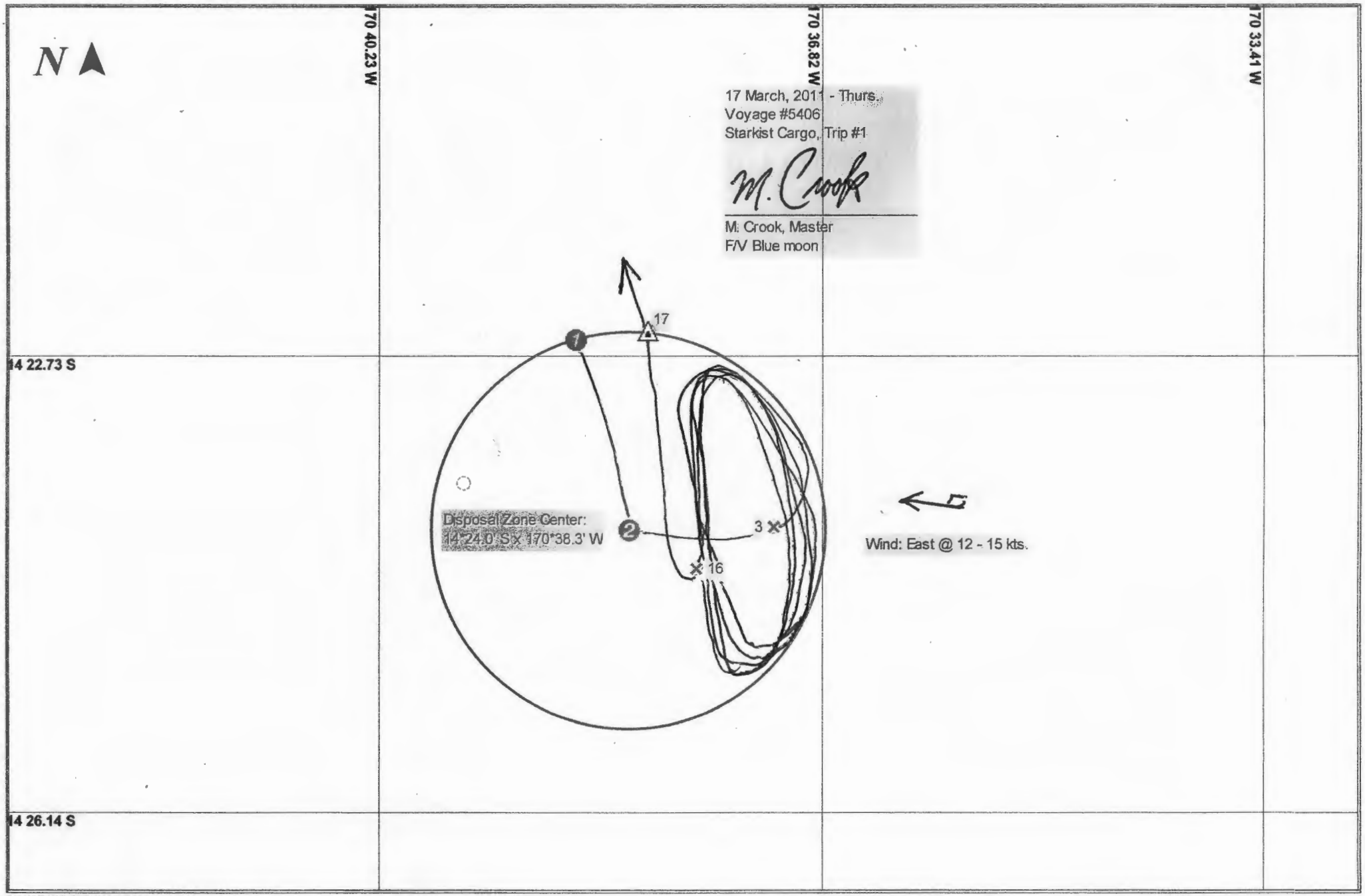

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Date: 03/19/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5407

Permit # OD 93-01 & OD 93-02

Time		
3/18 1430	Begin 1st Loading SK	
2120	Finish 1st Loading SK	Trip # 1 - X
/	Begin 2nd Loading SK	Trip # 2
/	Finish 2nd Loading SK	

Volume Loaded:

SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
0510	Depart Starkist		14*16.50' S	170* 41.2' W	E-3	20%	29.54	Metric	kts	True*
0603	Arrive Edge of Zone	# 1	14*22.55' S	170*38.76 W	SE-7	"	29.56	SE-1.0	8.7	163
0613	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	SE-7	"	"	" "	8.7	165
0620	Begin Discharge	# 3	14*24.68' S	170*37.49' W	" "	15	"	" " X	8.4	135
" 35		# 4	14*24.30' S	170*37.45' W	" "		"		9.2	232
" 50	Remarks:	# 5	14*24.84' S	170*37.14' W	" "		"		8.3	039
0705		# 6	14*24.40' S	170*37.63' W		10	29.57		9.2	223
" 20		# 7	14*24.68' S	170*36.97' W		"		5	8.7	008
" 35		# 8	14*25.11' S	170*38.08' W		"			8.5	201
" 50		# 9	14*24.04' S	170*36.83' W		15			8.9	006
0805		# 10	14*24.95' S	170*38.13' W					9.1	184
" 20		# 11	14*23.96 S	170*37.20' W	SE-10		29.58		9.0	279
" 35		# 12	14*25.30' S	170*37.53' W	" "			10	8.7	045
" 50		# 13	14*23.88' S	170*37.29' W	SE-7				9.2	224
0905		# 14	14*25.14' S	170*37.31' W	" "	20			9.1	021
" 20		# 15	14*24.73' S	170*37.89' W		25	29.59		8.9	226
" 35		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	#16	14*24.51' S	170*36.97' W	SE-7	30%	29.59	SE-1.0	9.2	024
0950	Exit Discharge Zone	#17	14*22.66' S	170*37.84' W	" "	"	"	" "	9.6	331
1045	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center NW End of Discharge WNW Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 106 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

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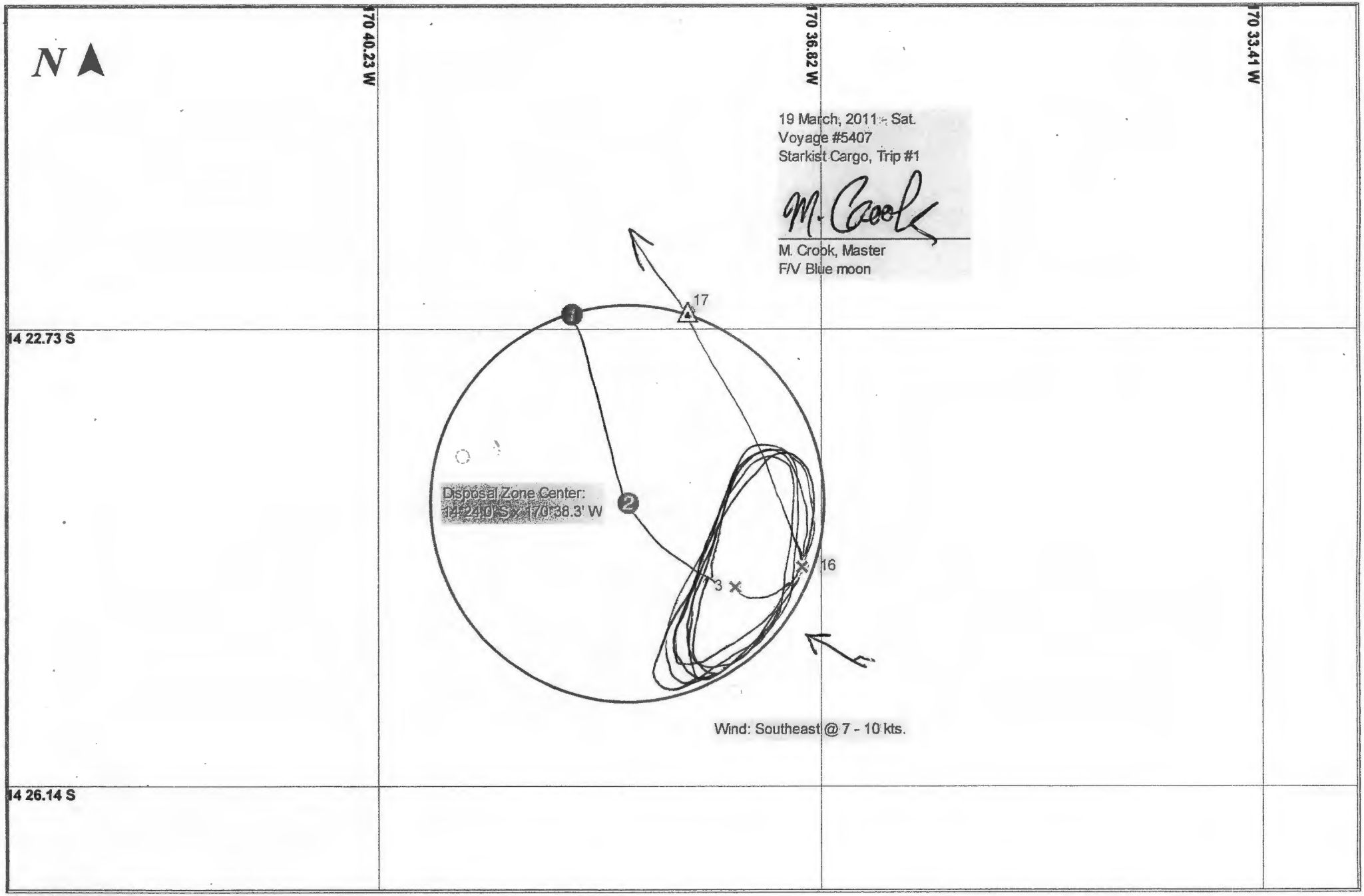

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Date: 03/22/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5408

Permit # OD 93-01 & OD 93-02

	Time	
3/20	1510	Begin 1st Loading SK
	2015	Finish 1st Loading SK
1/21	1930	Begin 2nd Loading SK
	2115	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	168,750	Gallons
	Other	0	Gallons
	Total	168,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	VAR-5	100	29.52			
0602	Arrive Edge of Zone	# 1	14*22.51' S	170*38.70' W	NE-5	"	"	SE 1.5	8.7	165
0612	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-7	"			8.5	159
0620	Begin Discharge	# 3	14*24.03' S	170*37.23 W	" "	"		X	8.3	090
" 35		# 4	14*23.71' S	170*37.66' W		"			8.6	181
" 50	Remarks:	# 5	14*26.28' S	170*36.91' W		"			8.4	000
0705		# 6	14*23.11' S	170*37.64' W		"	29.53		8.4	194
" 20		# 7	14*24.86' S	170*37.25 W	East-12		"	" " 5	8.2	031
" 35		# 8	14*23.13' S	170*37.27 W	" "		29.54	" "	9.0	290
" 50		# 9	14*24.94' S	170*37.21' W	East-15		"		8.5	042
0805		# 10	14*23.75' S	170*36.87 W			"		8.8	351
" 20		# 11	14*24.44' S	170*37.66' W			"		8.9	178
" 35		# 12	14*24.15' S	170*37.00 W			29.55	10	8.8	006
" 50		# 13	14*23.44' S	170*37.87 W			"		8.7	182
0905		# 14	14*24.53' S	170*36.96 W			"		9.0	018
" 20		# 15	14*23.00' S	170*37.54' W			"		8.5	197
35		# 16	14*25.02' S	170*37.28 W			29.56		8.7	086
50		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0950	Finish Discharge	#17	14*23.13' S	170*37.35' W	East-15	100%	29.56	SE-1.5	9.4	254
1000	Exit Discharge Zone	#18	14*22.58' S	170*38.00 W	" "	"	29.55	" "	9.3	329
1050	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 210 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.66 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 92.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

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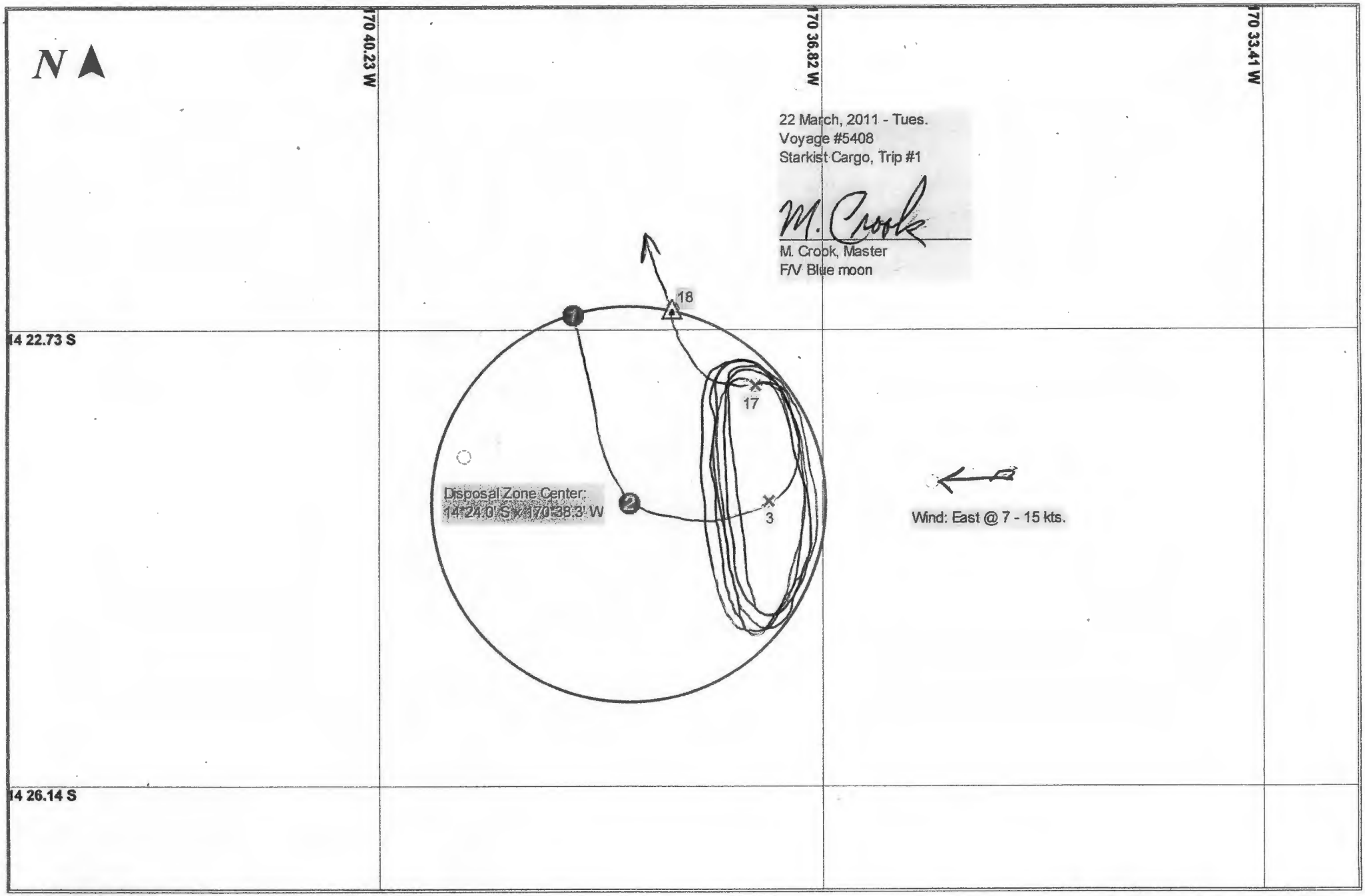

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Date: 03/24/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5409

Permit # OD 93-01 & OD 93-02

	Time	
3/23	1000	Begin 1st Loading SK
	1230	Finish 1st Loading SK
	1520	Begin 2nd Loading SK
↓	2015	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	191,250	Gallons
Other	0	Gallons
Total	191,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0520	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	75	29.52			
0613	Arrive Edge of Zone	# 1	14*22. 51' S	170*38. 67 W	East-7	"	29.53	E/SE-1.5	8.8	162
0622	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "		"	" "	8.9	164
0630	Begin Discharge	# 3	14*2 3.93' S	170*3 7.23 W	" "		"	" " X	8.4	090
" 45		# 4	14*2 3.74' S	170*3 7.56' W	" "	80	29.54		8.7	180
0700	Remarks:	# 5	14*2 4.65' S	170*3 7.08' W	" "	Rain-75	"		8.3	011
" 15		# 6	14*2 2.99' S	170*3 7.49' W		75	"		8.8	237
" 30		# 7	14*2 4.71' S	170*3 7.62' W		"	"	5	9.1	178
" 45		# 8	14*2 3.32' S	170*3 7.01' W		70	"		8.7	304
0800		# 9	14*2 4.10' S	170*3 7.67 W	East-10	75			9.2	180
" 15		# 10	14*2 4.08' S	170*3 6.92' W		"			9.0	002
" 30		# 11	14*2 3.60' S	170*3 7.73' W		70			9.3	181
" 45		# 12	14*2 4.49' S	170*3 6.98' W		60		10	9.2	001
0900		# 13	14*2 3.15' S	170*3 7.63' W					9.1	179
" 15		# 14	14*2 5.05' S	170*3 7.43' W					8.8	032
" 30		# 15	14*2 3.09' S	170*3 7.20' W					9.0	293
" 45		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0945	Finish Discharge	#16	14*23.83' S	170*37.59' W	East-10	50%	29.54	E&SE-1.5	9.4	347
0953	Exit Discharge Zone	#17	14*22.69' S	170*37.77' W	" "	"	"	" "	9.5	344
1050	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center (W)est End of Discharge West Discharge Pattern Ellipse

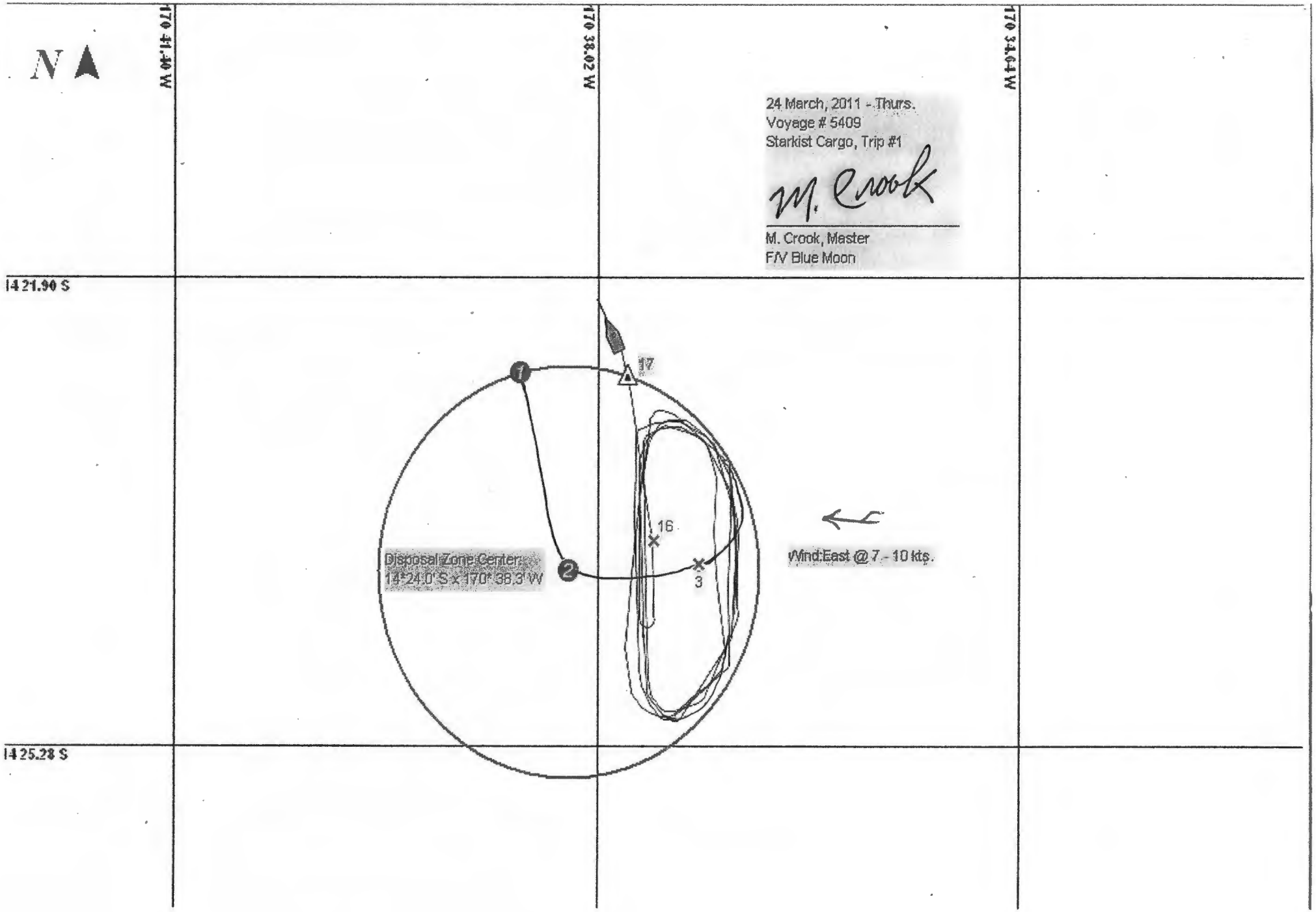
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
24 March, 2011 - Thurs.
Voyage # 5409
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
1
2
3
16
17
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind:East @ 7 - 10 kts.

Date: 03/26/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5410

Permit # OD 93-01 & OD 93-02

	Time	
3/25	1610	Begin 1st Loading SK
	2140	Finish 1st Loading SK
	0030	Begin 2nd Loading SK
3/26	0150	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	168,750	Gallons
Other	0	Gallons
Total	168,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	80	29.57			
0602	Arrive Edge of Zone	# 1	14*22.55' S	170*38.66' W	East-5	75	29.58	E+SE-1.0	8.9	161
0612	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	80	"	" "	8.8	158
0620	Begin Discharge	# 3	14*23.95' S	170*37.23' W	East-7	85	29.59	" " X	8.5	180
" 35		# 4	14*23.69' S	170*37.75' W	" "	80			8.4	183
" 50	Remarks:	# 5	14*24.10' S	170*36.88' W	" "	75			9.0	358
0705		# 6	14*23.31' S	170*37.85' W	" "	70			8.6	182
" 20		# 7	14*24.84' S	170*37.14' W	East-10	60		5	8.8	027
" 35		# 8	14*23.13 S	170*37.12' W	" "	"			8.5	315
" 50		# 9	14*24.81' S	170*37.64' W	" "				9.0	180
0805		# 10	14*23.73' S	170*36.94' W	" "				9.2	354
" 20		# 11	14*24.30' S	170*37.69' W	" "				9.1	178
" 35		# 12	14*23.23' S	170*37.19' W				10	8.7	311
" 50		# 13	14*24.34' S	170*37.76 W		50			9.6	002
0905		# 14	14*23.82' S	170*36.94' W		"			9.3	307
" 20		# 15	14*24.36' S	170*37.69 W					9.2	179
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0930	Finish Discharge	# 16	14*23.48' S	170*37.66 W	East-10	50%	29.59	E+SE-1.0	9.5	341
0935	Exit Discharge Zone	17	14*22.62' S	170*37.99' W	" "	"	"	" "	9.5	329
1030	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

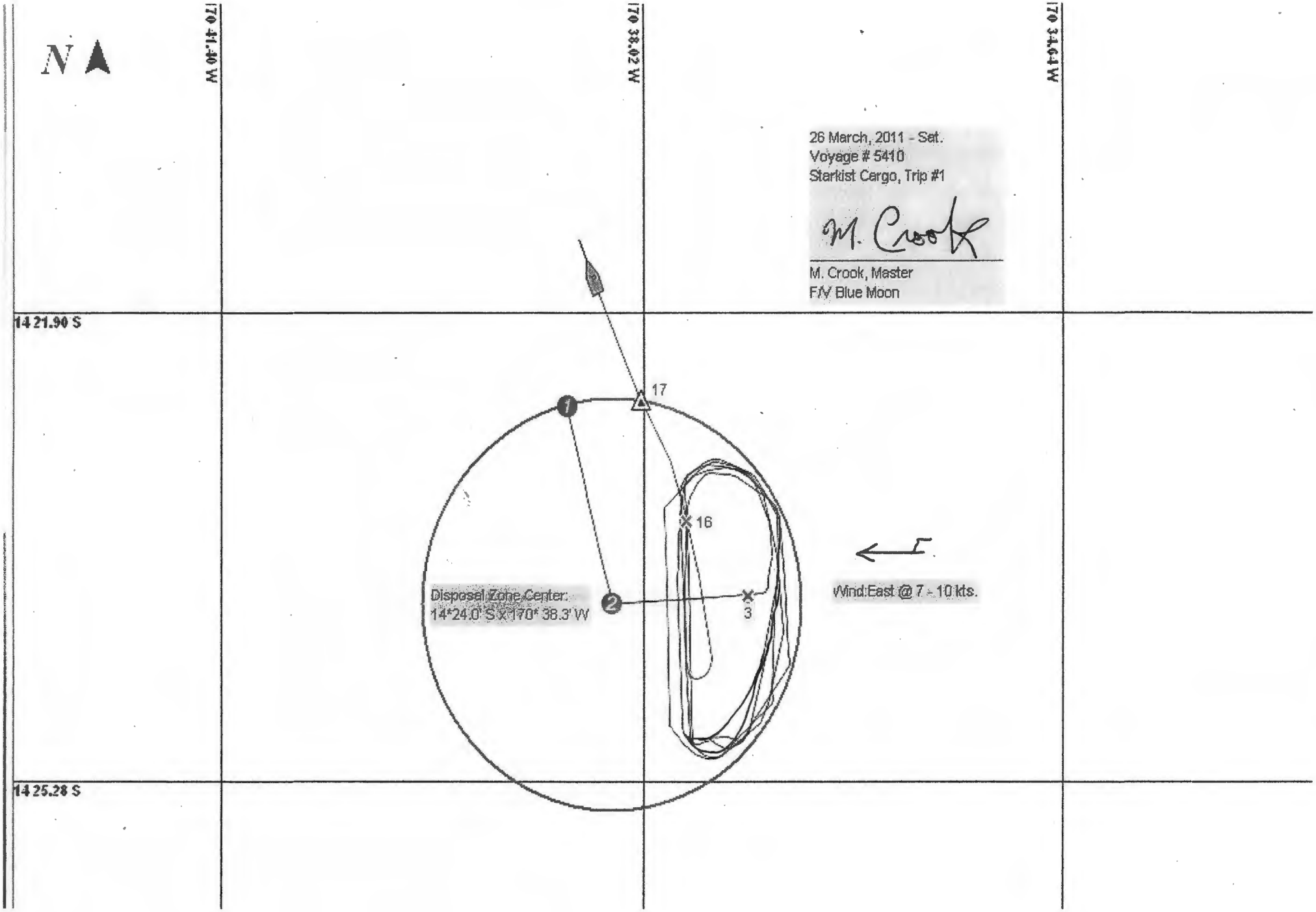
Total Discharge Time: 190 mins. Average Speed During Discharge: 8.96 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 99 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cooper


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
26 March, 2011 - Set.
Voyage # 5410
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind:East @ 7 - 10 kts.

Date: 03/29/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5411

Permit # OD 93-01 & OD 93-02

	Time	
3/28	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
3/29	0000	Begin 2nd Loading SK
	0200	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-10	70	29.59			
0602	Arrive Edge of Zone	# 1	14*22.51' S	170*38.68 W	" "	80	29.60	E/SE-1.5	8.7	161
0612	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-12	90	"	" "	8.4	163
0620	Begin Discharge	# 3	14*23.94 S	170*37.21 W	East-15	95-Rain	"	" " X	8.3	090
" 35		# 4	14*23.77' S	170*37.29' W		90	"		8.7	183
" 50	Remarks:	# 5	14*24.43' S	170*37.03' W		"	"		8.6	002
0705		# 6	14*22.94' S	170*37.36' W		80			8.4	251
" 20		# 7	14*24.75' S	170*37.34' W		"		5	8.2	054
" 35		# 8	14*23.14' S	170*37.69' W		70			8.5	216
" 50		# 9	14*25.00' S	170*37.56' W		60			8.9	128
0805		# 10	14*23.31' S	170*37.02' W		"			9.1	352
" 20		# 11	14*24.34' S	170*37.81' W		50			9.1	179
" 35		# 12	14*24.09' S	170*36.91' W		40		10	9.0	000
" 50		# 13	14*23.91' S	170*37.79' W		25	29.61		9.4	180
0905		# 14	14*24.59' S	170*37.00' W	East-12		"		9.1	358
" 20		# 15	14*23.31' S	170*37.78' W	" "		"		9.2	181
" 35		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0925	Finish Discharge	#16	14*22.99' S	170*37.71' W	East-12	25%	29.61	E+SE-1.5	9.4	337
0930	Exit Discharge Zone	#17	14*22.54' S	170*37.88' W					9.5	334
1025	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

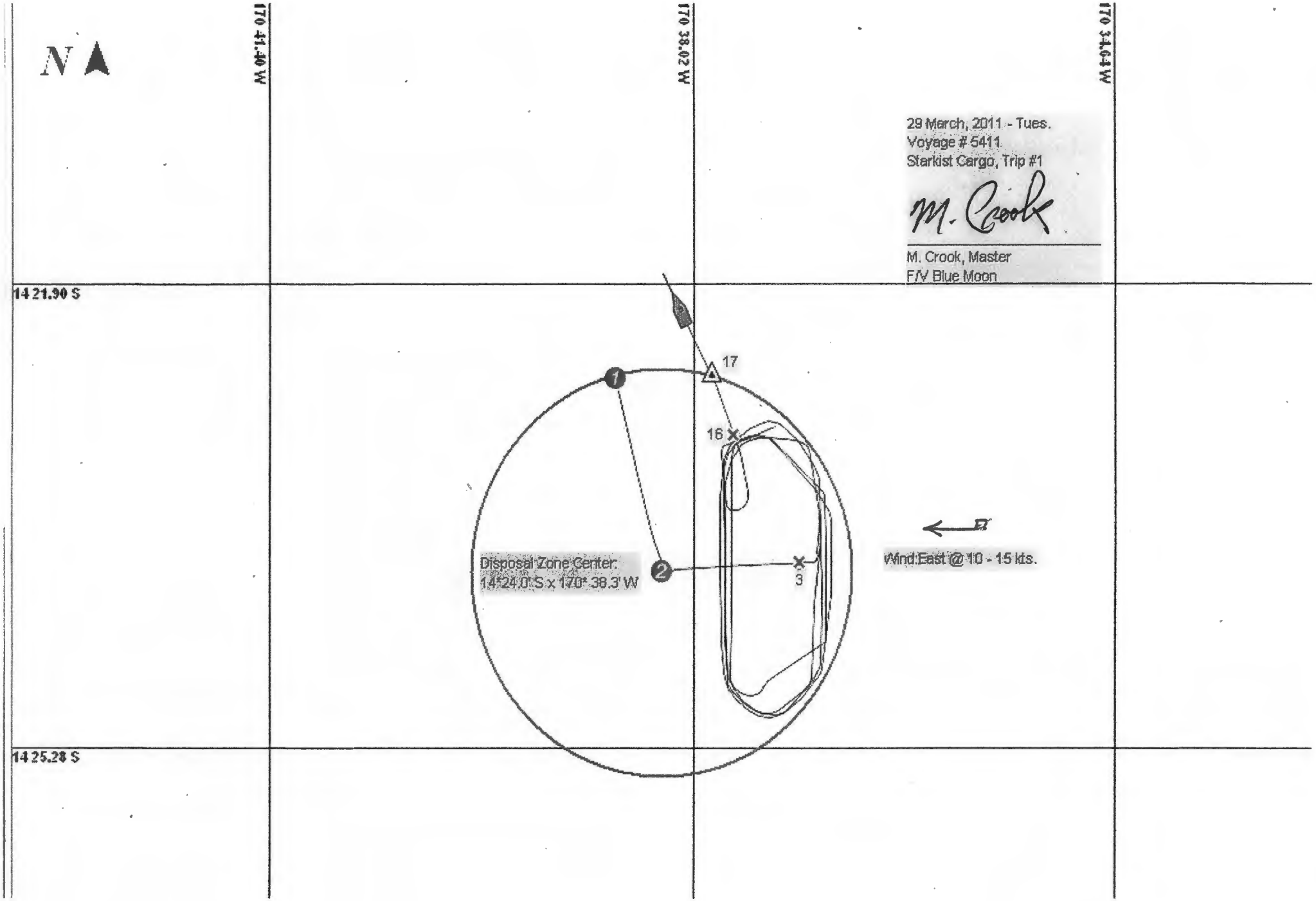
Total Discharge Time: 185 mins. Average Speed During Discharge: 8.85 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? NO

Time and position of any floating material: None Discharge Rate: 112.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooke


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
29 March, 2011 - Tues.
Voyage # 5411
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
1
2
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind:East @ 10 - 15 kts.

Date: 03/31/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5412

Permit # OD 93-01 & OD 93-02

	Time	
3/30	1700	Begin 1st Loading SK
	2150	Finish 1st Loading SK
3/31	0000	Begin 2nd Loading SK
	0215	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	177,000	Gallons
	Other	0	Gallons
	Total	177,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East - 3	80%	29.59			
0600	Arrive Edge of Zone	# 1	14*22.50' S	170*38.62' W	East - 10	90	"	SE - 2.0	8.7	163
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.5	160
0618	Begin Discharge	# 3	14*24.01 S	170*37.24 W	" "	"	"	" " X	8.3	090
" 33		# 4	14*23.56' S	170*37.67' W	" "	85	"	" "	8.7	178
" 48	Remarks:	# 5	14*24.52' S	170*36.98' W	" "		29.60		8.4	011
0703		# 6	14*22.83' S	170*37.55' W	" "		"		8.9	282
" 18		# 7	14*24.86' S	170*37.65' W	" "			5	8.7	181
" 33		# 8	14*23.47' S	170*37.00' W	" "				8.8	324
48		# 9	14*23.98' S	170*37.72' W	East - 12	90			9.0	179
0803		# 10	14*24.47' S	170*37.02' W	" "				8.8	005
" 18		# 11	14*23.32' S	170*37.69' W					8.7	215
" 33		# 12	14*24.76' S	170*37.82' W	East - 15	95 - RAIN	29.61	10	9.1	177
" 48		# 13	14*23.49' S	170*36.98' W	" "	95	29.63		9.3	350
0903		# 14	14*24.56' S	170*37.83' W			29.64		9.1	181
" 18		# 15	14*23.95' S	170*36.91' W			"		9.3	000
" 33		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0931	Finish Discharge	#16	14*23.10' S	170*37.75' W	East 15	95%	29.65	SE - 2.0	9.1	216
0937	Exit Discharge Zone	#17	14*22.61 S	170*38.31' W	" "	"	29.66	" "	9.4	337
1205	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

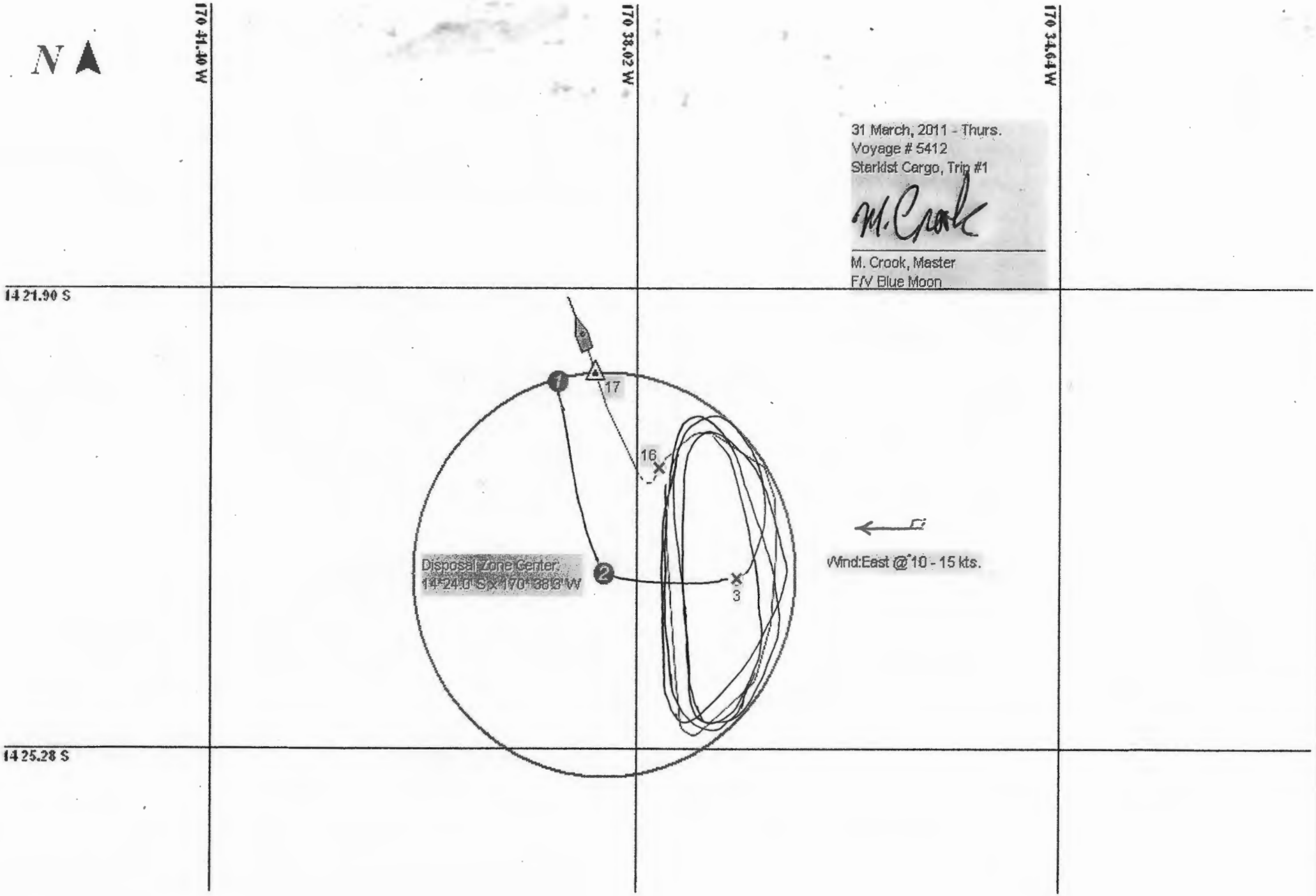
Total Discharge Time: 193 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 6.9 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material None Discharge Rate: 103 Gallons/min/kt.

Unusual Occurrences? None (Fueling 10:30- hrs.)

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
31 March, 2011 - Thurs.
Voyage # 5412
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170°38.0' W
Wind:East @ 10 - 15 kts.

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON March, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	**TOTAL:**
	14	0	0	**14**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	**TOTAL:**
	2,538,000	0	0	**2,538,000**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	2,538,000	**0**

RUNNING TIME ON TRIPS:	**77.0 hrs.**
DISCHARGE TIME ON TRIPS:	**44.96 hrs.**
AV. GPM DISCHARGE RATE:	**106.1 gal/min/kt**
AV. TRIP TIME:	**5.5 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER : Mike Crook

M. Crook

Date: 03/01/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5399

Permit # OD 93-01 & OD 93-02

	Time	
2/28	1530	Begin 1st Loading SK
	2190	Finish 1st Loading SK
	000	Begin 2nd Loading SK
3/1	0100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	185,000	Gallons
	Other	0	Gallons
	Total	185,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	20	29.53			
0603	Arrive Edge of Zone	# 1	14*22.50' S	170*38.68' W	East-5	25	"	SE-1.5	8.9	163
0613	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	30	"	" "	8.7	160
0620	Begin Discharge	# 3	14*24.03' S	170*37.24' W	East-7	40	29.54	S+SE-1.5	8.5	090
" 35		# 4	14*23.48' S	170*37.89' W					8.7	178
" 50	Remarks:	# 5	14*24.70' S	170*37.10' W					8.3	022
0705		# 6	14*23.24' S	170*37.11' W					8.8	324
" 20		# 7	14*24.70' S	170*37.81' W				5	9.1	180
" 35		# 8	14*24.04' S	170*36.85 W					8.9	000
" 50		# 9	14*23.27' S	170*37.86' W		50			9.1	182
0805		# 10	14*24.84' S	170*37.14' W	East-10	"	29.55		8.8	037
" 20		# 11	14*23.32' S	170*37.81' W		"	"		9.0	183
" 35		# 12	14*25.14' S	170*37.34' W		"	"	10	8.5	082
" 50		# 13	14*23.21' S	170*37.23' W		"	29.56		9.7	300
0905		# 14	14*24.50' S	170*37.84' W	East-12		"		9.5	182
" 20		# 15	14*23.81' S	170*37.62 W	" "		"		9.4	358
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0930	Finish Discharge	#16	14*22.96' S	170*37.64 W	East-12	50%	29.56	S+SE-1.5	9.2	271
0934	Exit Discharge Zone	#17	14*22.59' S	170*38.09' W	" "	"	"	" "	9.6	328
1025	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

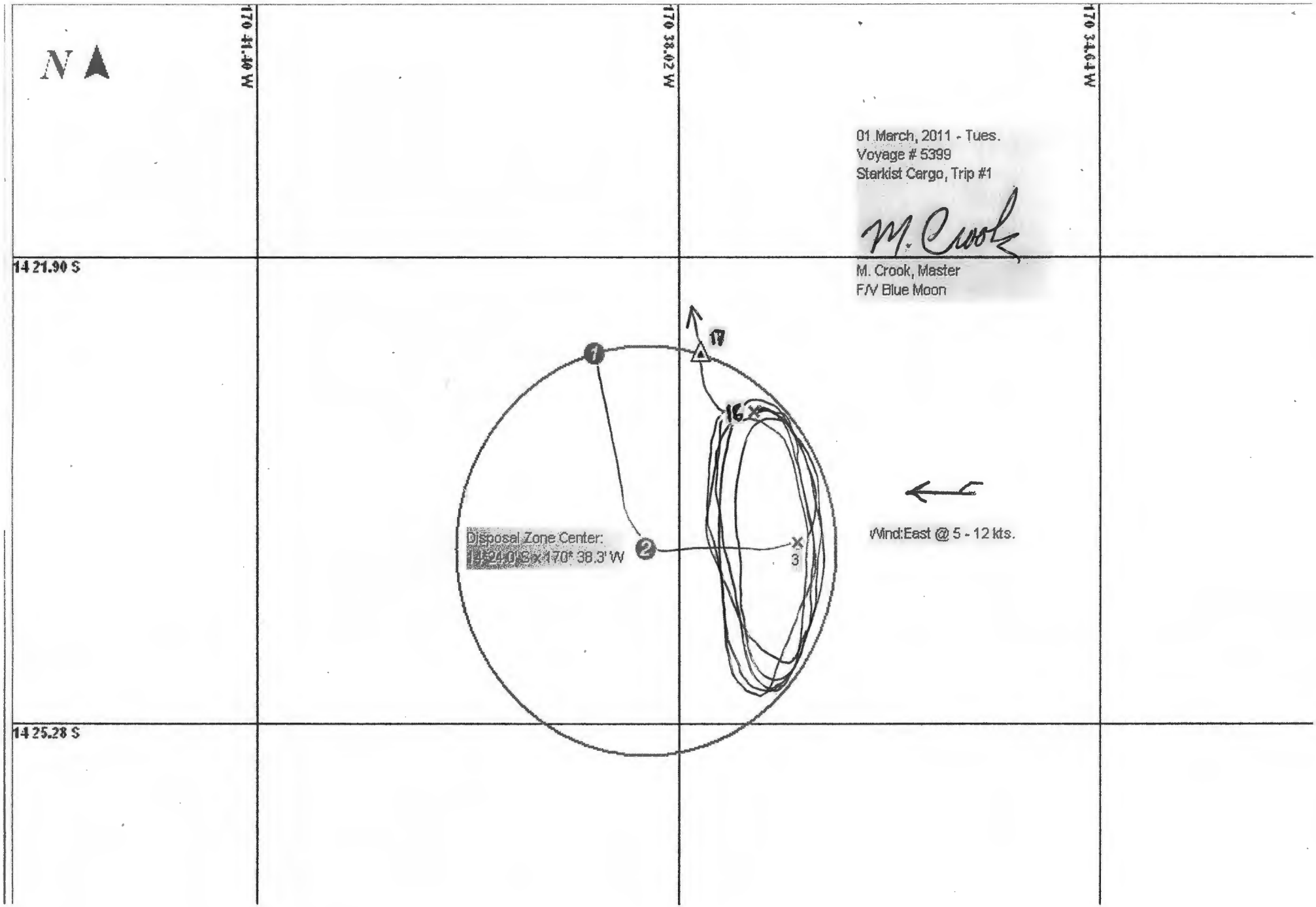
Total Discharge Time: 190 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 108 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
01 March, 2011 - Tues.
Voyage # 5399
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
1
2
3
16
17
Wind:East @ 5 - 12 kts.

Date: 03/03/11 Thurs. F/V Blue Moon Ocean Dumping Log Voyage #: 5400

Permit # OD 93-01 & OD 93-02

	Time	
3/2	1430	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0000	Begin 2nd Loading SK
3/3	0100	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:			
SK	191,250	Gallons
Other	0	Gallons
Total	191,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	70	29.58			
0605	Arrive Edge of Zone	# 1	14*22.52' S	170*38.69' W	East-2	80	29.59	East-1.0	8.9	161
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	90	"	" "	8.6	162
0623	Begin Discharge	# 3	14*24.00 S	170*37.20 W	East-3	"	"	" " X	8.4	090
" 38		# 4	14*23.56' S	170*37.71' W	East-5	"			8.9	185
" 53	Remarks:	# 5	14*24.67' S	170*37.07' W	" "	80			8.5	024
0708		# 6	14*23.27' S	170*37.73' W	" "	"			8.9	188
" 23		# 7	14*24.81' S	170*37.15' W	East-7	"		5	8.6	004
" 38		# 8	14*23.09' S	170*37.37' W	" "	"			8.5	267
" 53		# 9	14*25.01' S	170*37.43' W	" "	70			8.7	064
0808		# 10	14*23.25' S	170*37.16' W	East-10	80			9.0	308
" 23		# 11	14*24.78' S	170*37.74 W	" "	"			8.8	181
" 38		# 12	14*23.05' S	170*37.32' W	" "	90		10	8.7	272
" 53		# 13	14*24.92' S	170*37.46' W	" "	100-Rain			8.9	006
0908		# 14	14*23.85' S	170*37.02 W	East-12	" "	29.60		9.3	359
" 23		# 15	14*24.31' S	170*37.72' W	" "	" "	"		9.6	178
" 38		# 16	14*23.73' S	170*37.03' W	East-10	" "	"		9.3	093
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0943	Finish Discharge	#17	14*23.11' S	170*37.66' W	East-7	100-Rain	29.61	East-1.0	9.4	272
0948	Exit Discharge Zone	#18	14*22.59' S	170*37.88 W	East-5	" "	"	" "	9.5	331
1040	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

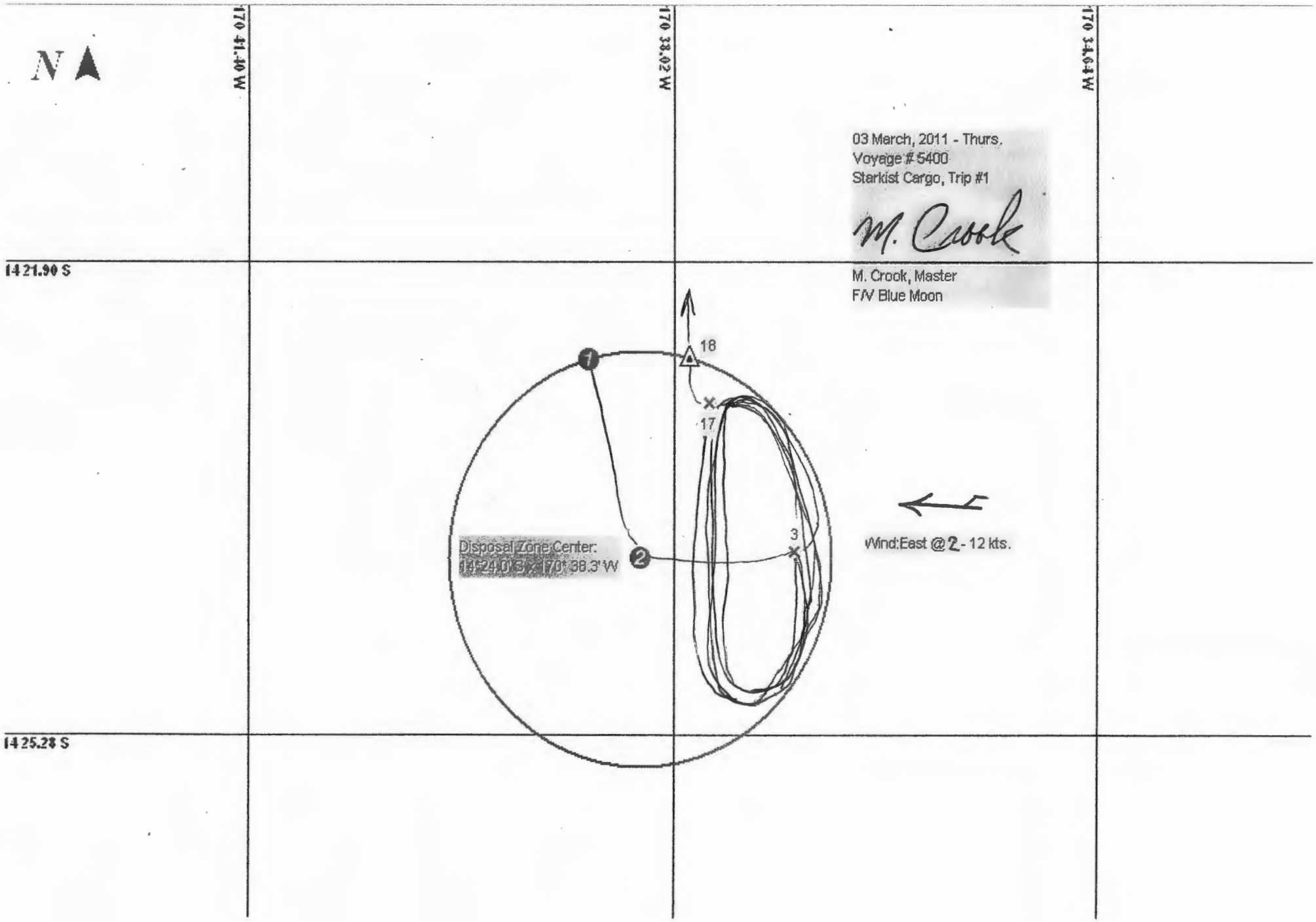
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 107.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 33.02 W
170 34.64 W
14 21.90 S
14 25.28 S
03 March, 2011 - Thurs.
Voyage # 5400
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
18
17
3
1
2
Disposal Zone Center:
14°24.0'S - 170° 38.3'W
Wind:East @ 2 - 12 kts.

Date: 03/05/11 Sat. F/V Blue Moon Ocean Dumping Log Voyage #: 5401

Permit # OD 93-01 & OD 93-02

Time		
0950	Begin 1st Loading SK	
1115	Finish 1st Loading SK	
1930	Begin 2nd Loading SK	
2130	Finish 2nd Loading SK	

3/4 ↓

Trip # 1 - X
Trip # 2

Volume Loaded: SK 196,250 Gallons; Other 0 Gallons; Total 196,250 Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	25%	29.58			
0600	Arrive Edge of Zone	# 1	14*22.51' S	170*38.70 W	" "	"	"	East-1.0	8.6	162
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	30	"	" "	8.7	166
0618	Begin Discharge	# 3	14*23.99' S	170*37.21' W	" "	"	29.59	" " X	8.9	070
" 33		# 4	14*23.68' S	170*37.58' W	" "				8.8	179
" 48	Remarks:	# 5	14*24.55' S	170*36.75' W	" "				8.5	021
0703		# 6	14*22.96' S	170*37.61' W	East-3				8.3	181
" 18		# 7	14*24.87' S	170*37.65' W	East-5			5	8.7	099
" 33		# 8	14*23.45' S	170*36.97' W	" "				8.8	336
48		# 9	14*24.53' S	170*37.77' W	" "				9.2	180
0803		# 10	14*24.38' S	170*36.96' W					8.8	091
" 18		# 11	14*23.76' S	170*37.84' W					9.3	179
" 33		# 12	14*24.01' S	170*36.88' W				10	9.2	002
" 48		# 13	14*23.72' S	170*37.84' W					9.4	178
0903		# 14	14*24.48' S	170*37.01' W	East-7		29.60		9.3	001
" 18		# 15	14*22.67' S	170*37.53' W			"		9.0	272
33		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0933	Finish Discharge	# 16	14*22.96' S	170*37.63' W	East-7	30%	29.60	East-1.0	9.6	332
0937	Exit Discharge Zone	# 17	14*22.56' S	170*37.95' W	" "	"	29.60	"	9.6	331
1035	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge Stationary Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 5.33 hr.

Navigational Plot made: yes Presence of Plume? No

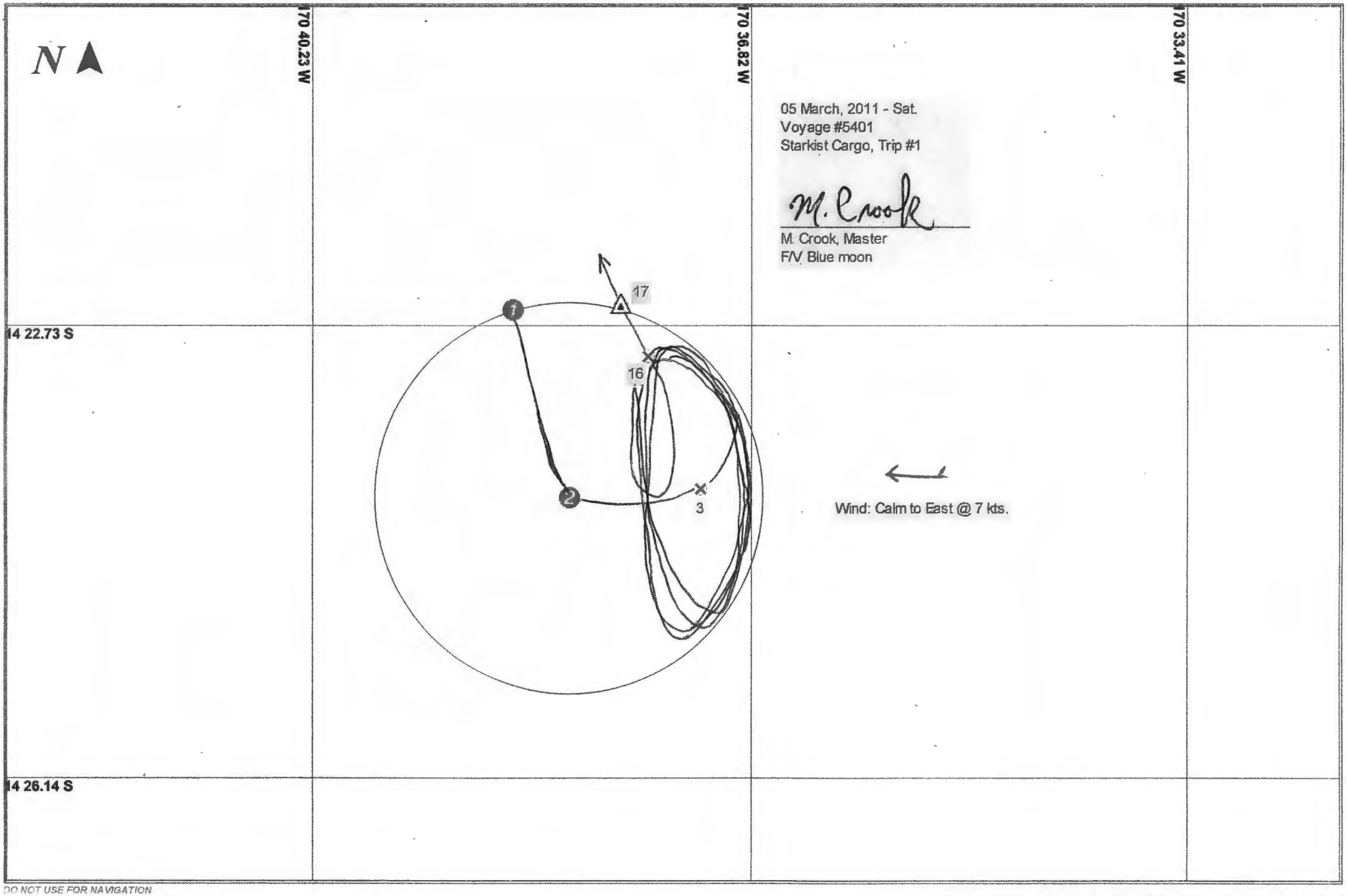
Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

NOBELTEC
Visual Navigation Suite 9.3.2240

191,000



DO NOT USE FOR NAVIGATION
SOME NAVIGATION AIDS MAY NOT BE SHOWN

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Date: 03/08/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5402

Permit # OD 93-01 & OD 93-02

Time		
1130	Begin 1st Loading SK	
1245	Finish 1st Loading SK	
1430	Begin 2nd Loading SK	
2100	Finish 2nd Loading SK	

3/7

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	70	29.60			
0558	Arrive Edge of Zone	# 1	14*22.52 S	170*38.69' W	"	"	"	SE-1.5	8.8	162
0607	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	"	75	"	"	8.5	163
0615	Begin Discharge	# 3	14*24.06' S	170*39.36' W	West-2	"	"	" " X	8.7	270
" 30		# 4	14*24.28' S	170*38.66' W	" "	"	"		8.8	358
" 45	Remarks:	# 5	14*23.79' S	170*39.45' W	" "	"	"		8.7	171
0700		# 6	14*25.27' S	170*38.76' W	calm	"	"		8.3	274
" 15		# 7	14*23.13' S	170*38.65' W	" "	"	"	5	8.5	272
" 30		# 8	14*24.45' S	170*39.47' W	"	70	"		8.6	172
" 45		# 9	14*24.33' S	170*38.62' W	"	"	"		9.0	357
0800		# 10	14*23.62 S	170*39.59 W	East-3	"	"		9.2	171
" 15		# 11	14*25.00 S	170*39.13' W	" "	"	"		8.7	046
" 30		# 12	14*24.23' S	170*37.16' W	East-5	60	"	10	8.9	090
" 45		# 13	14*23.10 S	170*37.86' W	" "	"	"		9.4	184
0900		# 14	14*25.24' S	170*37.60' W	" "	"	29.61		8.9	061
" 15		# 15	14*22.94' S	170*37.86' W	" "	"	"		9.1	182
" 30		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0930	Finish Discharge	#16	14*22.96' S	170*37.94' W	East-5	60%	29.61	SE-1.5	9.3	338
0935	Exit Discharge Zone	#17	14*22.54' S	170*38.08' W	" "	"	"	" "	9.5	341
1030	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center East (slow) End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.86 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 106 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

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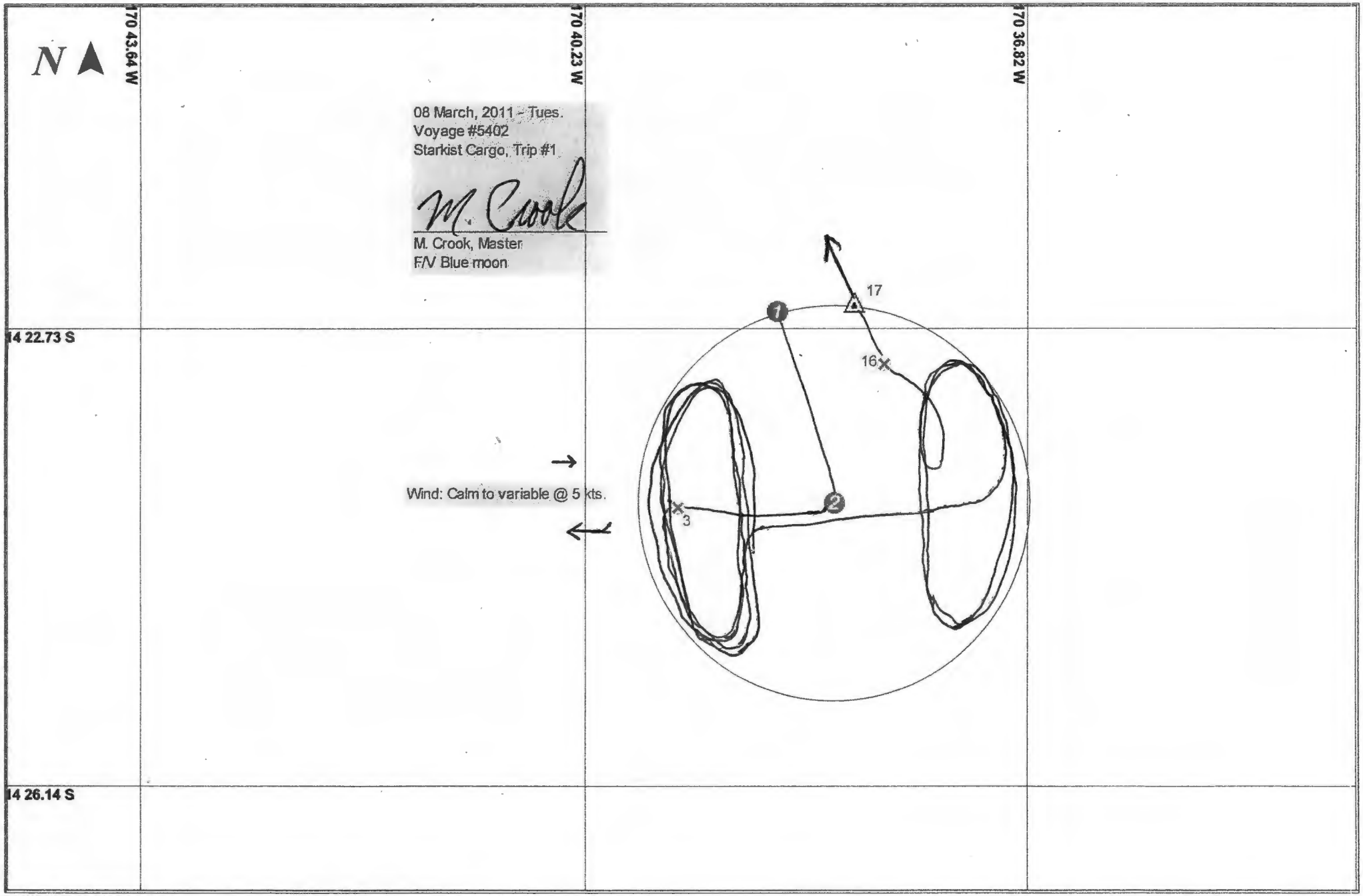

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Date: 03/10/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5403

Permit # OD 93-01 & OD 93-02

	Time	
3/9	1145	Begin 1st Loading SK
	2130	Finish 1st Loading SK
3/10	0230	Begin 2nd Loading SK
	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	195,750	Gallons
	Other	0	Gallons
	Total	195,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	75	29.61			
0600	Arrive Edge of Zone	# 1	14*22.53' S	170*38.72' W	East-10	"	29.62	SE-1.0	8.6	164
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	" "	" "	8.4	160
0630	Begin Discharge	# 3	14*24.13' S	170*37.10' W	" "	"	29.64	X	7.7	095
" 45		# 4	14*23.66' S	170*37.74' W	" "	80	"		8.7	180
0700	Remarks:	# 5	14*24.79' S	170*37.09' W	" "		"		8.4	026
" 15	Control Sample	# 6	14*22.98' S	170*37.57' W	East-12		"		8.8	210
" 30	drawn at:	# 7	14*24.78' S	170*37.83' W			"	5	8.8	181
" 45	0620 hrs.	# 8	14*23.86' S	170*36.96' W		70	"		8.7	001
0800	Position:	# 9	14*24.07' S	170*37.88' W		"	"		9.1	182
" 15	14°24.08' S	# 10	14*24.65' S	170*37.00 W		"	"		8.8	000
" 30	170° 37.15' W	# 11	14*23.20' S	170*37.73' W	East-15	60	"		8.9	179
" 45		# 12	14*25.05' S	170*37.46' W	" "	"	"	10	8.6	046
0900		# 13	14*23.18' S	170*37.14' W	" "	"	"		9.5	310
" 15		# 14	14*24.69' S	170*37.92' W			"		9.6	178
" 30		# 15	14*24.05' S	170*37.04' W			29.65		9.1	358
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W	East-15	60%	29.65	SE-1.0	9.5	183
0945	Finish Discharge	#16	14*23.67' S	170*37.67 W	" "	"	"	" "	↓	↓
1048	Exit Discharge Zone	#17	14*23.01' S	170*39.34' W	East-15	"	29.67	" "	9.3	345
1145	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 6.6 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112.8 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cole

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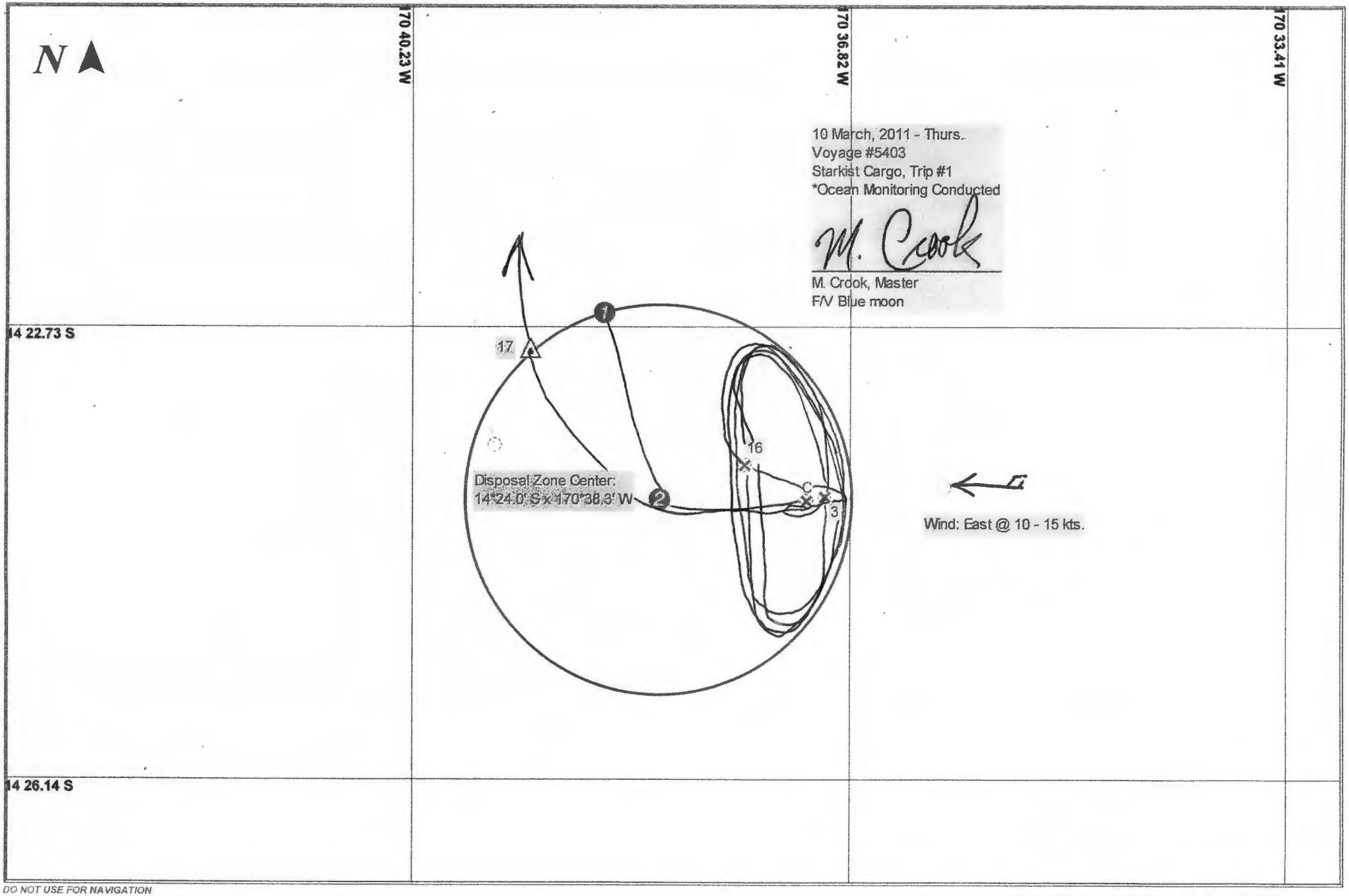

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Date: 03/12/11 Sat. F/V Blue Moon Ocean Dumping Log Voyage #: 5404

Permit # OD 93-01 & OD 93-02

	Time	
3/11	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
3/12	0200	Begin 2nd Loading SK
	0415	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:		
SK	131,250	Gallons
Other	0	Gallons
Total	131,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-12	60	29.62			
0600	Arrive Edge of Zone	# 1	14*22. 51' S	170*38. 69 W	" "	"	"	East-1.5	8.7	161
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.5	163
0620	Begin Discharge	# 3	14*23.93 S	170*37.19 W	" "	70	"	" " X	7.9	090
35		# 4	14*23.58' S	170*37.81' W	" "	80	"		8.8	184
50	Remarks:	# 5	14*2 4.91' S	170*37.37 W	" "	70			8.2	036
0705		# 6	14*2 3.08' S	170*37.16' W	East-15	"			9.1	301
20		# 7	14*2 4.46' S	170*37.00' W	" "	60		5	8.8	176
35		# 8	14*2 4.01' S	170*36.94' W	" "	"			8.6	003
50		# 9	14*2 3.89' S	170*37.73' W	East-18	"			9.0	180
0825		# 10	14*2 4.81' S	170*37.19' W	"	"			8.7	035
20		# 11	14*2 3.38 S	170*37.87 W	" "	"			9.3	181
35		# 12	14*2 4.91' S	170*37.56 W	East-20	"		10	8.5	054
50		# 13	14*2 3.00 S	170*37.11' W	" "	"			9.4	340
0905		# 14	14*2 3.89 S	170*37.83' W					9.5	182
20		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0910	Finish Discharge	#15	14*24.54 S	170*37.99 W	East-20	60 %	29.62	East-1.5	9.6	181
0920	Exit Discharge Zone	#16	14*22.57' S	170*38.71 W	" "	"	"	" "	9.6	337
1010	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 170 mins. Average Speed During Discharge: 8.87 kts. Total Time Run 5.0 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 87 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cooke

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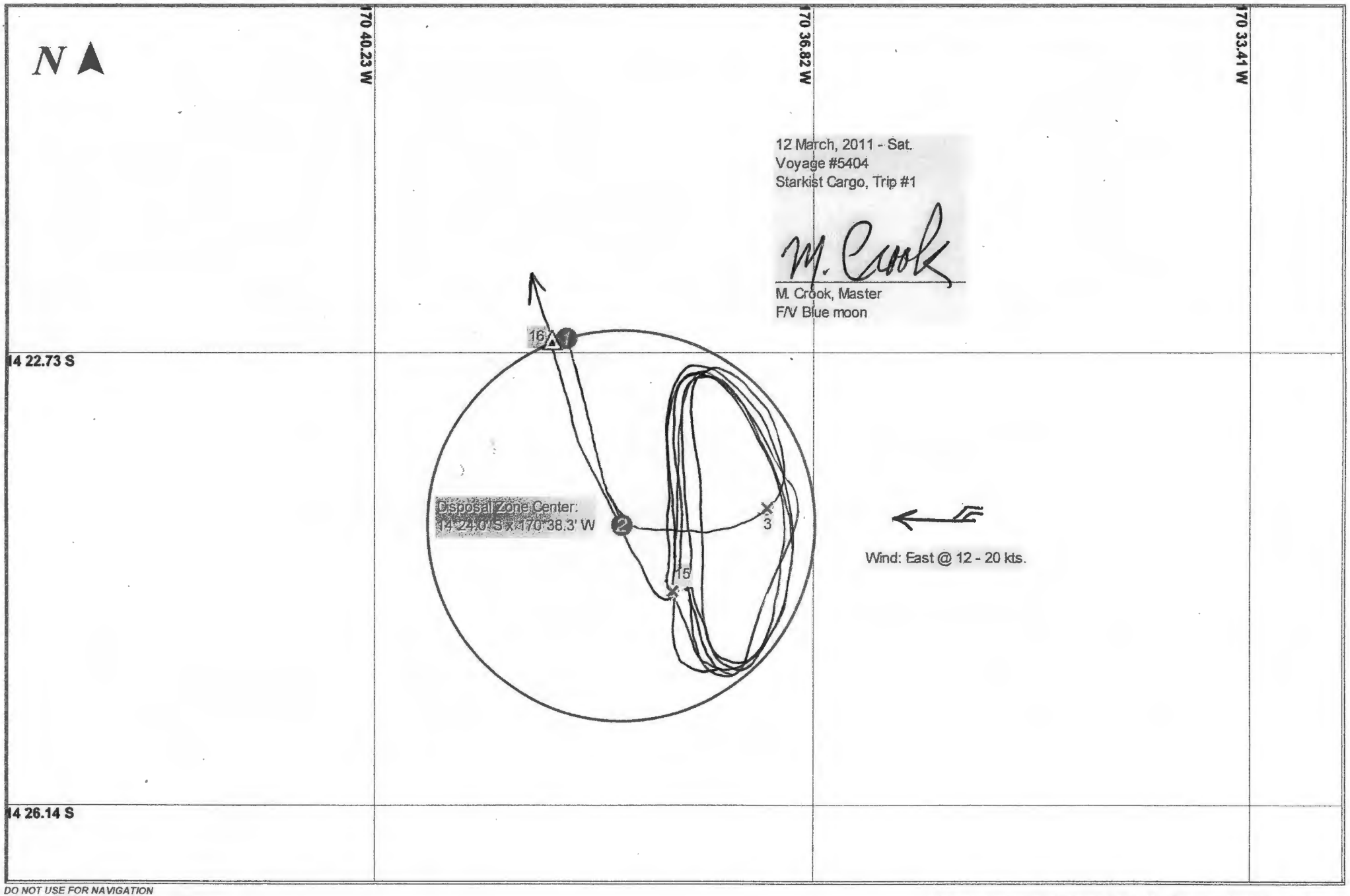

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Date: 03/15/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5405

Permit # OD 93-01 & OD 93-02

	Time	
3/14	1630	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0100	Begin 2nd Loading SK
3/15	0220	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	184,500	Gallons
Other	0	Gallons
Total	184,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East - 10	60	29.61			
0605	Arrive Edge of Zone	# 1	14*22.52' S	170*38.69' W	East - 10	"	29.62	East - 1.5	8.5	161
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.6	163
0625	Begin Discharge	# 3	14*24.02' S	170*37.23 W	East - 12	65	29.63	" " X	8.0	090
" 40		# 4	14*23.66' S	170*37.75' W	" "	"	"	" "	8.5	179
" 55	Remarks:	# 5	14*24.37 S	170*36.87' W	" "		"		8.3	006
0710		# 6	14*23.02 S	170*37.83 W	" "		"		8.4	181
" 25		# 7	14*24.65' S	170*37.44' W	" "		"	5	7.9	062
" 40		# 8	14*23.17' S	170*37.78' W	East - 15		29.64		8.7	194
" 55		# 9	14*25.04' S	170*37.49' W	" "	60			8.4	071
0810		# 10	14*23.64' S	170*36.74 W	" "	"			8.6	353
" 25		# 11	14*23.92' S	170*37.77' W	" "	50			8.8	183
" 40		# 12	14*24.10' S	170*37.05' W	" "	"	29.65	10	8.7	017
" 55		# 13	14*23.59' S	170*37.75' W		"			9.1	181
0910		# 14	14*24.61' S	170*37.05' W		"			8.9	006
" 25		# 15	14*22.92' S	170*37.65' W		"	29.66		9.2	218
" 40		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	#16	14*22.98' S	170*37.74' W	East - 15	50%	29.66	East - 1.5	9.0	329
0940	Exit Discharge Zone	#17	14*22.53' S	170*38.20' W					9.4	332
1030	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center East End of Discharge East Discharge Pattern Ellipse

Total Discharge Time: 190 mins. Average Speed During Discharge: 8.6 kts. Total Time Run 5.33 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

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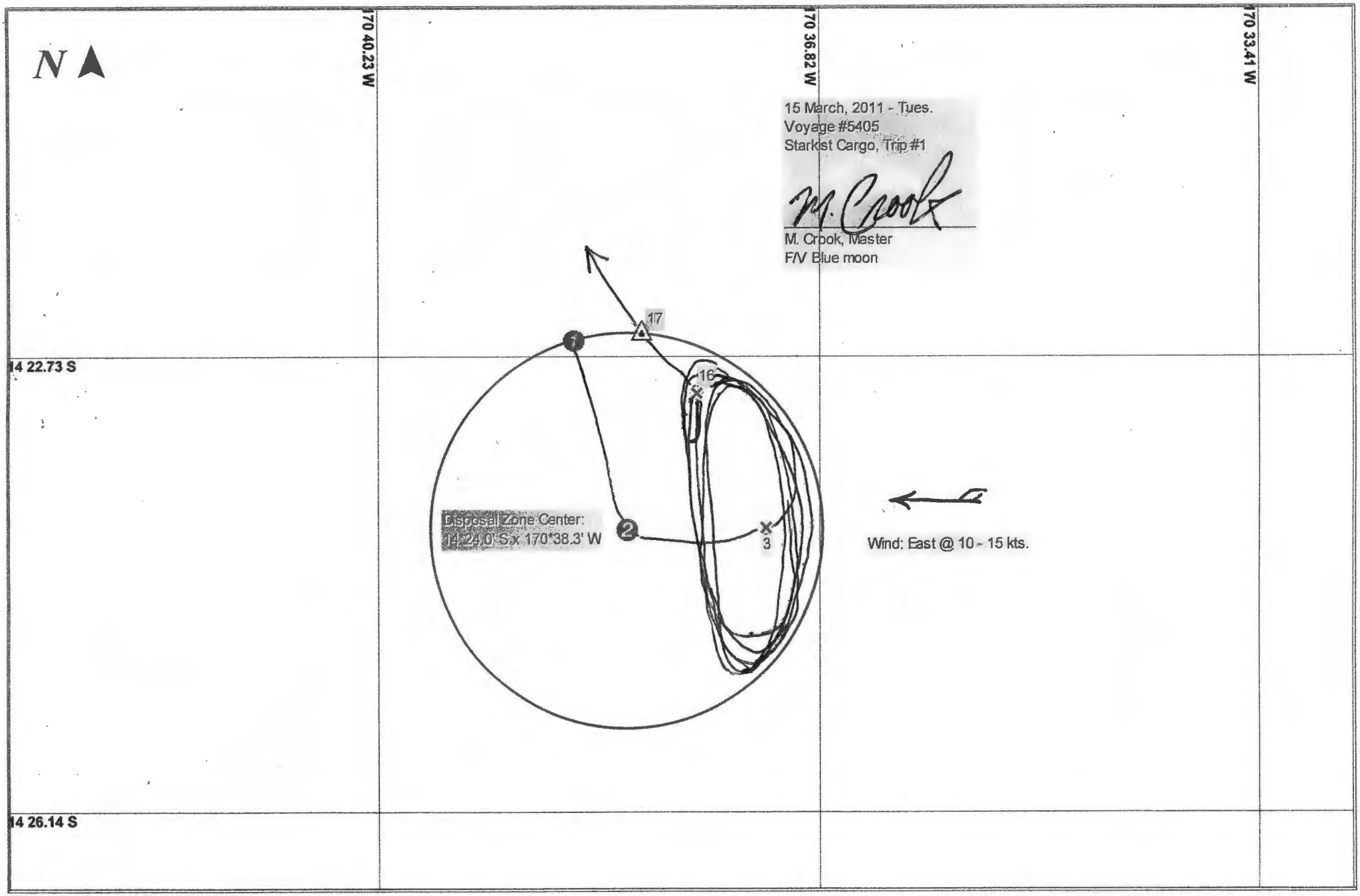

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F/V Blue Moon Ocean Dumping Log

Date: 03/17/11 Thurs. Voyage #: 5406

Permit # OD 93-01 & OD 93-02

	Time	
3/16	1600	Begin 1st Loading SK
	2145	Finish 1st Loading SK
3/17	0100	Begin 2nd Loading SK
	0215	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	197,000	Gallons
Other	0	Gallons
Total	197,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-12	75	29.58			
0605	Arrive Edge of Zone	# 1	14*22.52' S	170*38.67' W	" "	85	29.59	E/SE-1.5	8.6	162
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	90-RAIN	"	" "	8.4	163
0625	Begin Discharge	# 3	14*24.00' S	170*37.16' W	" "	85	"	X	8.0	090
" 40		# 4	14*23.67' S	170*37.74' W	" "	75	"		8.5	180
" 55	Remarks:	# 5	14*24.84' S	170*37.22' W	East-15	70	"		8.0	047
0710		# 6	14*23.13' S	170*37.18 W		"			8.7	350
" 25		# 7	14*24.50' S	170*37.77' W		"		5	8.5	180
" 40		# 8	14*23.84' S	170*37.05' W		"			8.7	356
" 55		# 9	14*24.07' S	170*37.81' W		"			8.7	183
0810		# 10	14*27.36' S	170*36.95' W		65			8.7	002
" 25		# 11	14*23.25' S	170*37.70' W		"			8.8	181
" 40		# 12	14*24.77' S	170*37.16' W		"		10	8.6	027
" 55		# 13	14*23.26' S	170*37.75' W		60	29.60		9.0	184
0910		# 14	14*24.86' S	170*37.58' W		"	"		8.5	056
" 25		# 15	14*23.37' S	170*37.00 W		"	29.61		9.6	311
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0940	Finish Discharge	#16	14*24.34' S	170*37.77 W	East-15	60%	29.61	E/SE-1.5	9.3	182
0953	Exit Discharge Zone	#17	14*22.51' S	170*38.18 W	" "	"	"	" "	9.5	338
1045	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 116 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Creed

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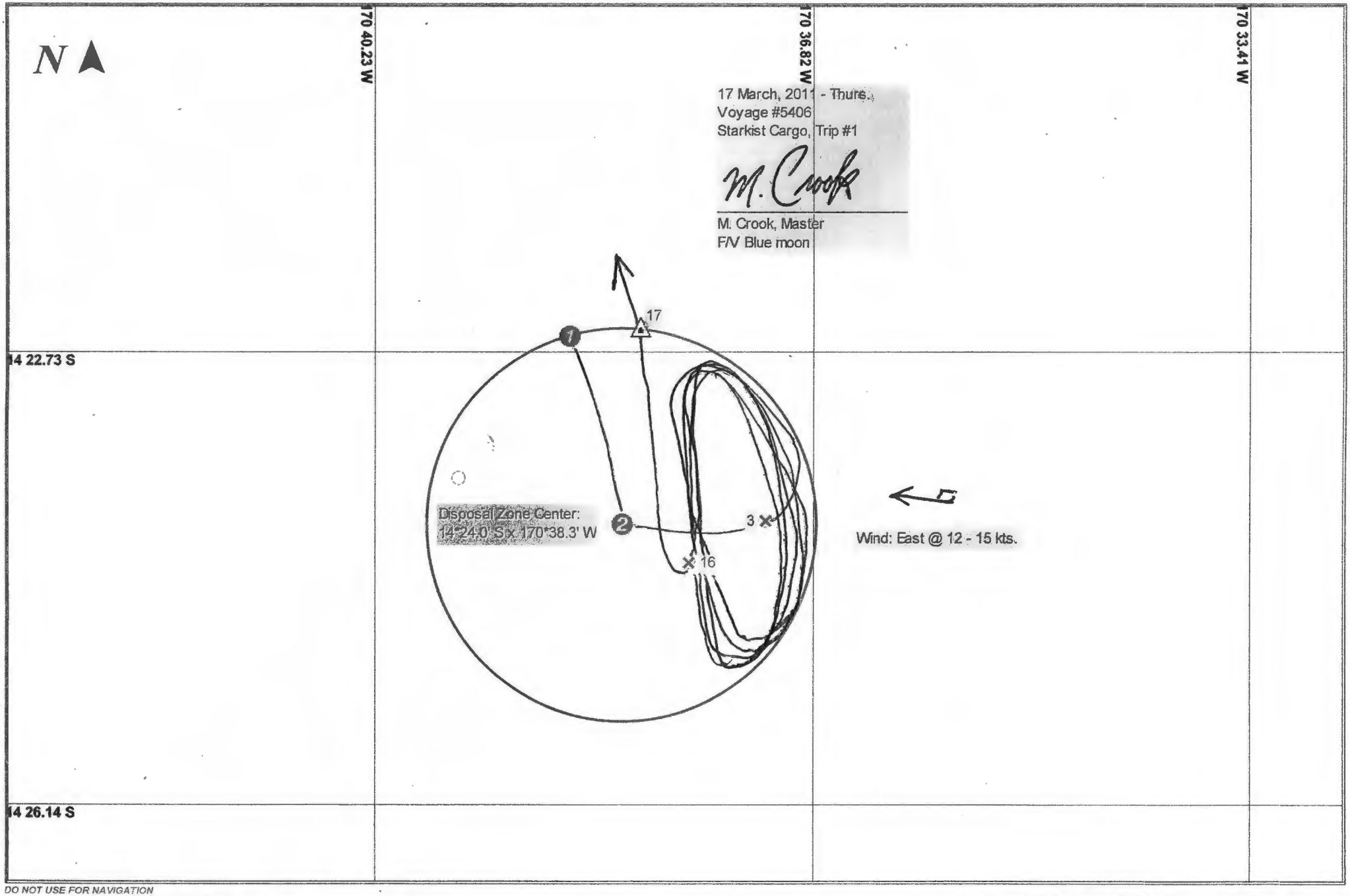

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Date: 03/19/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5407

Permit # OD 93-01 & OD 93-02

	Time	
3/18	1430	Begin 1st Loading SK
	2120	Finish 1st Loading SK
		Begin 2nd Loading SK
	/	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
0510	Depart Starkist		14*16.50' S	170* 41.2' W	E-3	20%	29.54	Metric	kts	True*
0603	Arrive Edge of Zone	# 1	14*22.55' S	170*38.76 W	SE-7	"	29.56	SE-1.0	8.7	163
0613	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	SE-7	"	"	" "	8.7	165
0620	Begin Discharge	# 3	14*24.68' S	170*37.49' W	" "	15	"	" " X	8.4	135
" 35		# 4	14*24.30' S	170*37.5' W	" "		"		9.2	232
" 50	Remarks:	# 5	14*24.84' S	170*37.14' W	" "		"		8.3	039
0705		# 6	14*24.40' S	170*37.63' W		10	29.57		9.2	223
" 20		# 7	14*24.68' S	170*36.77' W		"		5	8.7	008
" 35		# 8	14*25.11' S	170*38.08' W		"			8.5	201
" 50		# 9	14*24.04' S	170*36.83' W		15			8.9	006
0805		# 10	14*24.95' S	170*38.13' W					9.1	184
" 20		# 11	14*23.96 S	170*37.20' W	SE-10		29.58		9.0	279
" 35		# 12	14*25.30' S	170*37.53' W	" "			10	8.7	045
" 50		# 13	14*23.88' S	170*37.29' W	SE-7				9.2	224
0905		# 14	14*25.14' S	170*37.31' W	" "	20			9.1	021
" 20		# 15	14*24.73' S	170*37.89' W		25	29.59		8.9	226
" 35		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	#16	14*24.51' S	170*36.97' W	SE-7	30%	29.59	SE-1.0	9.2	024
0950	Exit Discharge Zone	#17	14*22.66' S	170*37.84' W	" "	"	"	" "	9.6	331
1045	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center NW End of Discharge WNW Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 106 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cowle

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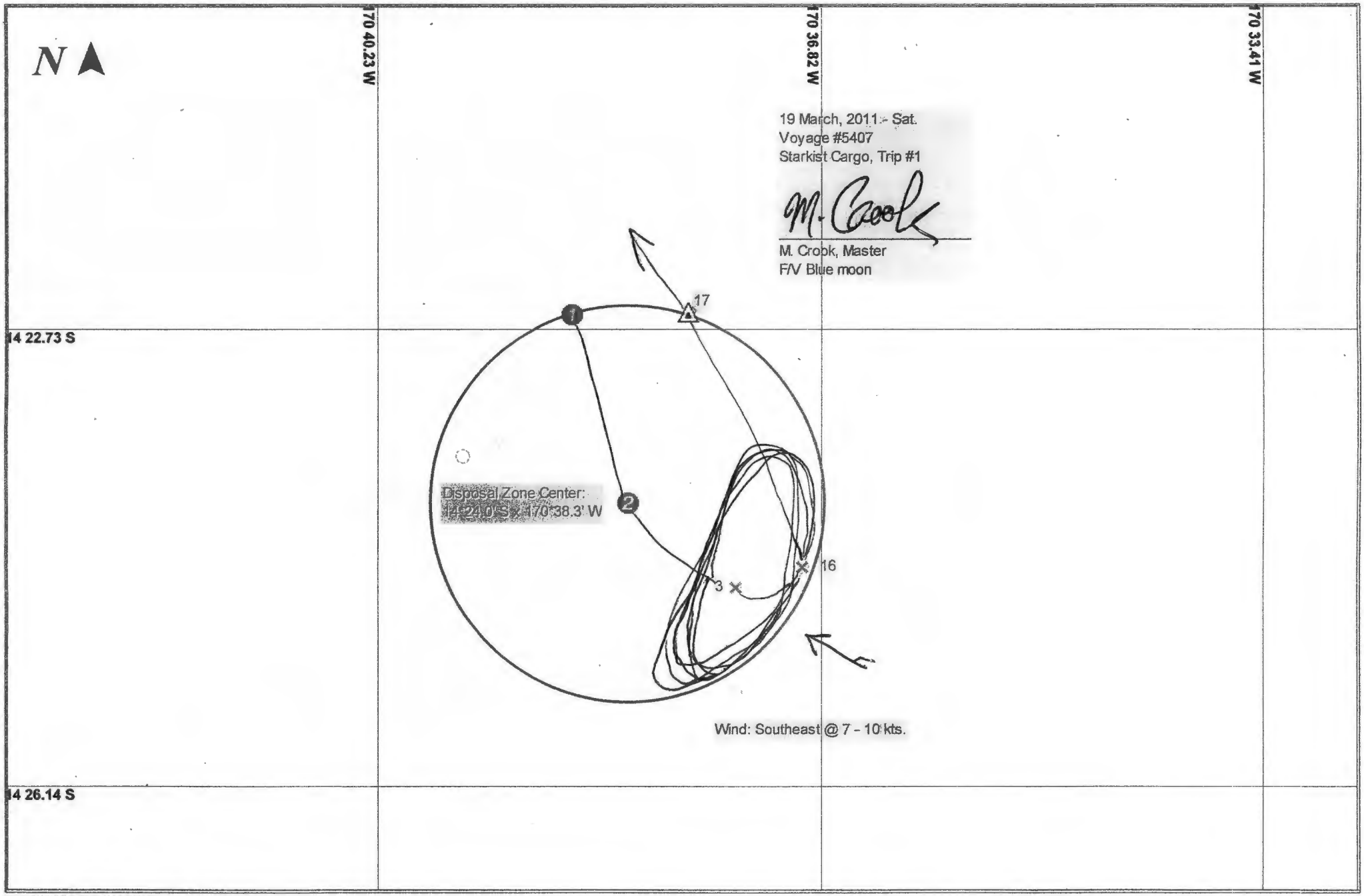

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Date: 03/22/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5408

Permit # OD 93-01 & OD 93-02

	Time	
3/20	1510	Begin 1st Loading SK
	2015	Finish 1st Loading SK
3/21	1930	Begin 2nd Loading SK
	2115	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	168,750	Gallons
Other	0	Gallons
Total	168,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	VAR-5	100	29.52			
0602	Arrive Edge of Zone	# 1	14*22.51' S	170*38.70' W	NE-5	"	"	SE 1.5	8.7	165
0612	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-7	"			8.5	159
0620	Begin Discharge	# 3	14*24.03' S	170*37.23 W	" "	"		X	8.3	090
" 35		# 4	14*23.71' S	170*37.66' W		"			8.6	181
" 50	Remarks:	# 5	14*24.28' S	170*36.91' W		"			8.4	000
0705		# 6	14*23.11' S	170*37.64' W		"	29.53		8.4	199
" 20		# 7	14*24.86' S	170*37.25 W	East-12		"	" " 5	8.2	031
" 35		# 8	14*23.13' S	170*37.37 W	" "		29.54	" "	9.0	290
" 50		# 9	14*24.94' S	170*37.21' W	East-15		"		8.5	042
0805		# 10	14*23.75' S	170*36.87 W			"		8.8	351
" 20		# 11	14*24.44' S	170*37.66' W			"		8.9	178
" 35		# 12	14*24.15' S	170*37.0 W			29.55	10	8.8	006
" 50		# 13	14*23.44' S	170*37.87 W			"		8.7	182
0905		# 14	14*24.53' S	170*36.96 W			"		9.0	018
" 20		# 15	14*23.00' S	170*37.54' W			"		8.5	197
35		# 16	14*25.02' S	170*37.28 W			29.56		8.7	086
50		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0950	Finish Discharge	#17	14*23.13' S	170*37.35' W	East-15	100%	29.56	SE-1.5	9.4	254
1000	Exit Discharge Zone	#18	14*22.58' S	170*38.00 W	" "	"	29.55	" "	9.3	329
1050	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 210 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.66 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 92.4 Gallons/min/kt.

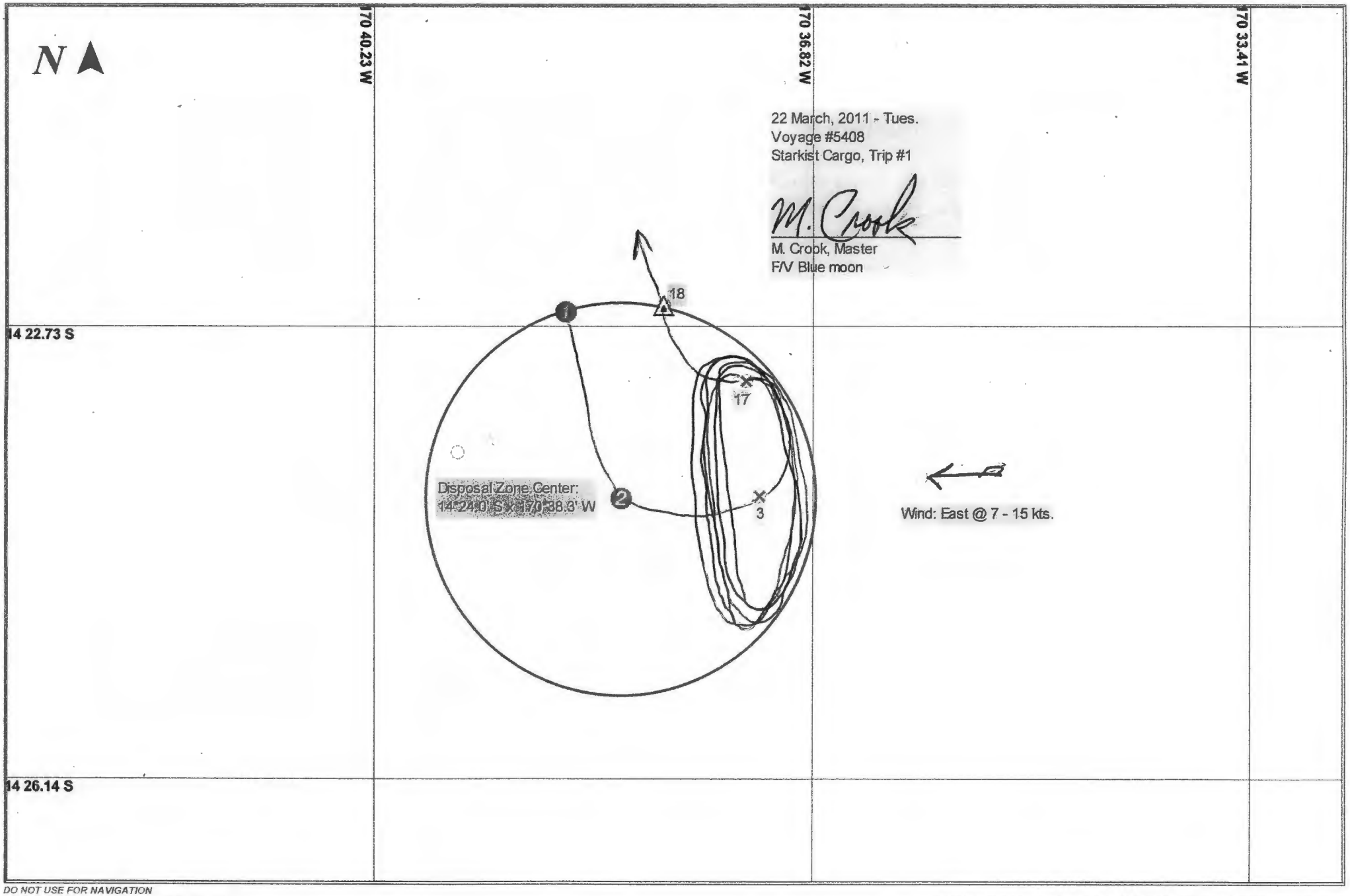
Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooks

NOBELTEC
Visual Navigation Suite 9.3.2240

3/22/2011
Page 1

191,000



DO NOT USE FOR NAVIGATION
SOME NAVIGATION AIDS MAY NOT BE SHOWN

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Date: 03/24/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5409

Permit # OD 93-01 & OD 93-02

	Time	
3/23	1000	Begin 1st Loading SK
	1230	Finish 1st Loading SK
	1520	Begin 2nd Loading SK
↓	2015	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	191,250	Gallons
Other	0	Gallons
Total	191,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0520	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	75	29.52			
0615	Arrive Edge of Zone	# 1	14*22. 51' S	170*38. 67 W	East-7	"	29.53	E/SE-1.5	8.8	162
0622	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "		"	" "	8.9	164
0630	Begin Discharge	# 3	14*23.93 S	170*37.23 W	" "		"	" " X	8.4	090
" 45		# 4	14*23.74' S	170*37.56' W	" "	80	29.54		8.7	180
0700	Remarks:	# 5	14*24.65' S	170*37.08' W	" "	Rain-75	"		8.3	011
" 15		# 6	14*22.99' S	170*37.49' W		75	"		8.8	237
" 30		# 7	14*24.71' S	170*37.62' W		"	"	5	9.1	178
" 45		# 8	14*23.32' S	170*37.01' W		70	"		8.7	304
0800		# 9	14*24.10' S	170*37.67 W	East-10	75			9.2	180
" 15		# 10	14*24.08' S	170*36.92' W		"			9.0	002
" 30		# 11	14*23.60' S	170*37.73' W		70			9.3	181
" 45		# 12	14*24.49' S	170*36.98' W		60		10	9.2	001
0900		# 13	14*23.15' S	170*37.63' W					9.1	179
" 15		# 14	14*25.05' S	170*37.43' W					8.8	032
" 30		# 15	14*23.09' S	170*37.20' W					9.0	293
" 45		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0945	Finish Discharge	#16	14*23.83' S	170*37.59' W	East-10	50%	29.54	E&SE-1.5	9.4	347
0953	Exit Discharge Zone	#17	14*22.69' S	170*37.77' W	" "	"	"	" "	9.5	344
1050	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center (W)est End of Discharge West Discharge Pattern Ellipse

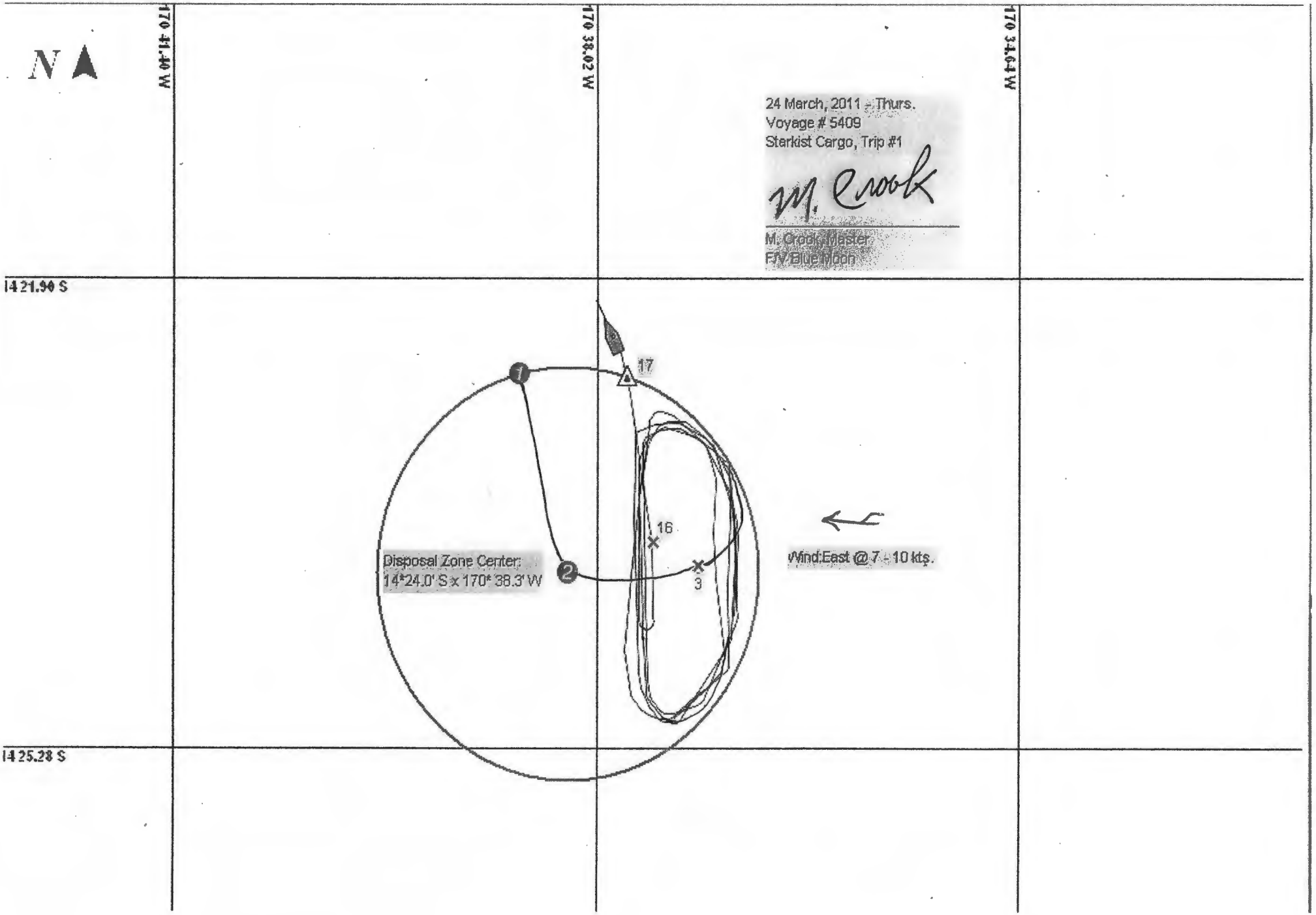
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
24 March, 2011 - Thurs.
Voyage # 5409
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind:East @ 7 - 10 kts.

Date: 03/26/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5410

Permit # OD 93-01 & OD 93-02

	Time	
	1610	Begin 1st Loading SK
3/25	2140	Finish 1st Loading SK
	0030	Begin 2nd Loading SK
3/26	0150	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	168,750	Gallons
Other	0	Gallons
Total	168,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	80	29.57	Metric	kts	True*
0602	Arrive Edge of Zone	# 1	14*22.55' S	170*38.66' W	East-5	75	29.58	E+SE-1.0	8.9	161
0612	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	80	"	" "	8.8	158
0620	Begin Discharge	# 3	14*23.95' S	170*37.23' W	East-7	85	29.59	" " X	8.5	180
" 35		# 4	14*23.69' S	170*37.75' W	" "	80			8.4	183
" 50	Remarks:	# 5	14*24.10' S	170*36.88' W	" "	75			9.0	358
0705		# 6	14*23.31' S	170*37.85' W	" "	70			8.6	182
" 20		# 7	14*24.84' S	170*37.14' W	East-10	60		5	8.8	027
" 35		# 8	14*23.13 S	170*37.12' W	" "	"			8.5	315
" 50		# 9	14*24.81' S	170*37.64' W	" "				9.0	180
0805		# 10	14*23.73' S	170*36.94' W	" "				9.2	354
" 20		# 11	14*24.30' S	170*37.69' W	" "				9.1	178
" 35		# 12	14*23.23' S	170*37.19' W				10	8.7	311
" 50		# 13	14*24.34' S	170*37.76 W		50			9.6	002
0905		# 14	14*23.82' S	170*36.94' W		"			9.3	307
" 20		# 15	14*24.36' S	170*37.69 W					9.2	179
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0930	Finish Discharge	# 16	14*23.48' S	170*37.66 W	East-10	50%	29.59	E+SE-1.0	9.5	341
0935	Exit Discharge Zone	17	14*22.62' S	170*37.99' W	" "	"	"	" "	9.5	329
1030	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

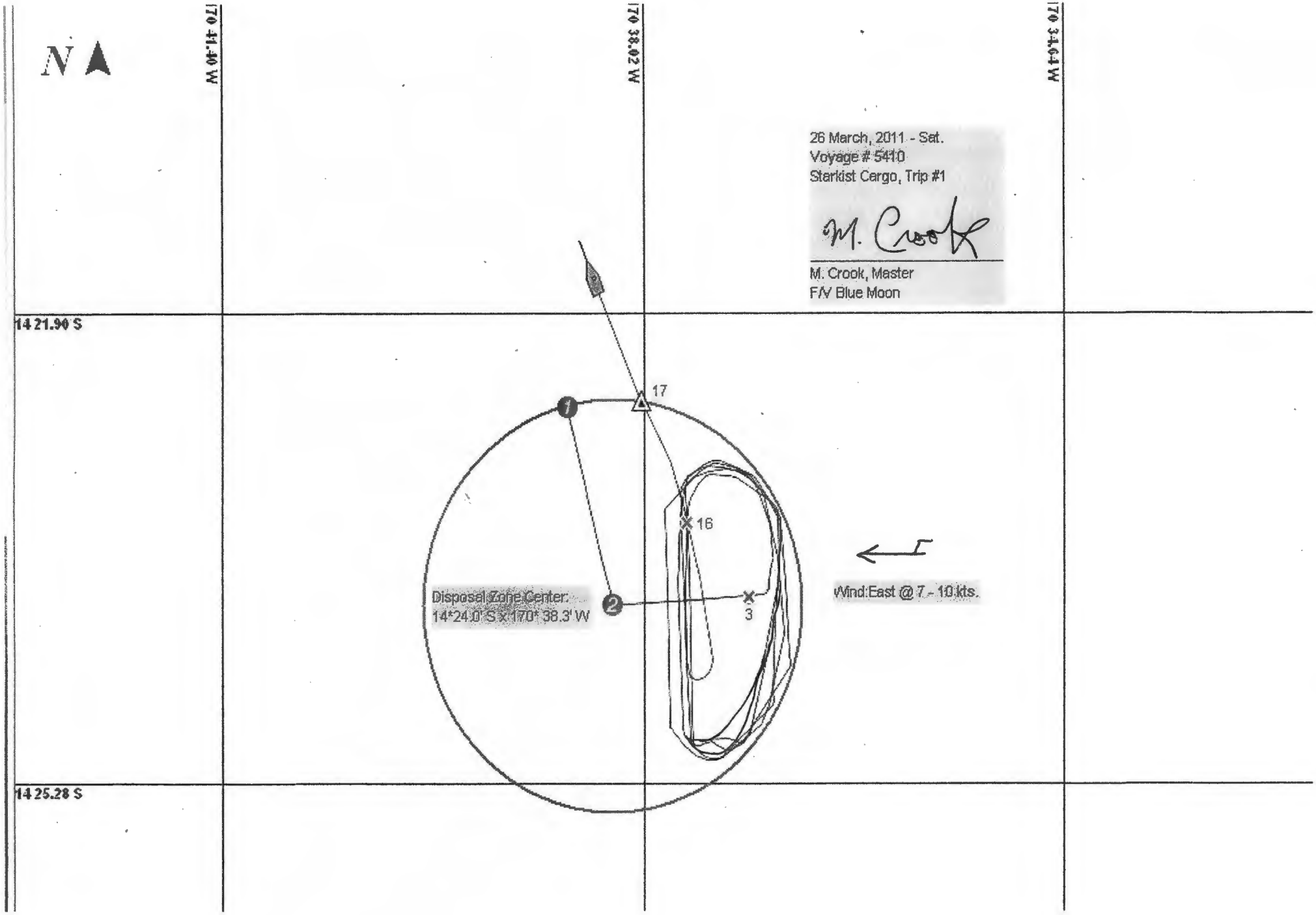
Total Discharge Time: 190 mins. Average Speed During Discharge: 8.96 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 99 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
26 March, 2011 - Sat.
Voyage # 5410
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind:East @ 7 - 10 kts.

Date: 03/29/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5411

Permit # OD 93-01 & OD 93-02

	Time	
3/28	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
3/29	0000	Begin 2nd Loading SK
	0200	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-10	70	29.59			
0602	Arrive Edge of Zone	# 1	14*22.51' S	170*38.68 W	" "	80	29.60	E/SE-1.5	8.7	161
0612	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-12	90	"	" "	8.4	163
0620	Begin Discharge	# 3	14*23.94 S	170*37.21 W	East-15	95-Rain	"	" " X	8.3	090
" 35		# 4	14*23.77' S	170*37.29' W		90	"		8.7	183
" 50	Remarks:	# 5	14*24.43' S	170*37.03' W		"	"		8.6	002
0705		# 6	14*22.94' S	170*37.36' W		80			8.4	251
" 20		# 7	14*24.75' S	170*37.34' W		"		5	8.2	054
" 35		# 8	14*23.14' S	170*37.69' W		70			8.5	216
" 50		# 9	14*25.00' S	170*37.56' W		60			8.9	128
0805		# 10	14*23.31' S	170*37.02' W		"			9.1	352
" 20		# 11	14*24.34' S	170*37.81' W		50			9.1	179
" 35		# 12	14*24.09' S	170*36.91' W		40		10	9.0	000
" 50		# 13	14*23.91' S	170*37.79' W		25	29.61		9.4	180
0905		# 14	14*24.59' S	170*37.00' W	East-12		"		9.1	358
" 20		# 15	14*23.31' S	170*37.78' W	" "		"		9.2	181
" 35		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0925	Finish Discharge	#16	14*22.99' S	170*37.71' W	East-12	25%	29.61	E+SE-1.5	9.4	337
0930	Exit Discharge Zone	# 17	14*22.54' S	170*37.88' W					9.5	334
1025	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

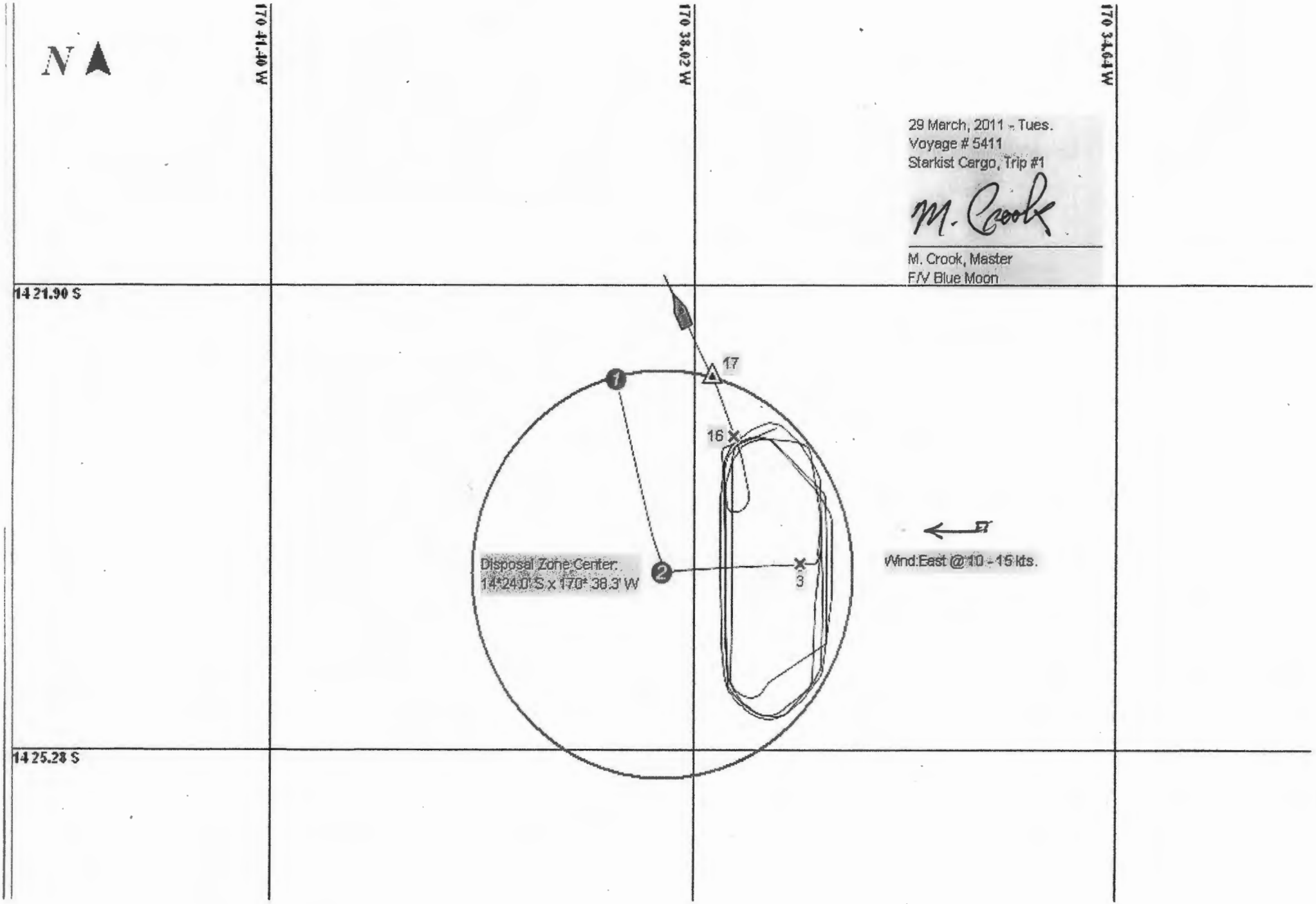
Total Discharge Time: 185 mins. Average Speed During Discharge: 8.85 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? NO

Time and position of any floating material: None Discharge Rate: 112.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooke


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
29 March, 2011 - Tues.
Voyage # 5411
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
1
2
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind:East @ 10 - 15 kts.

Date: 03/31/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5412

Permit # OD 93-01 & OD 93-02

	Time	
3/30	1700	Begin 1st Loading SK
	2150	Finish 1st Loading SK
3/31	0000	Begin 2nd Loading SK
	0215	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	177,000	Gallons
	Other	0	Gallons
	Total	177,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-3	80%	29.59			
0600	Arrive Edge of Zone	# 1	14*22.50' S	170*38.62' W	East-10	90	"	SE-2.0	8.7	163
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.5	160
0618	Begin Discharge	# 3	14*24.01 S	170*37.24 W	" "	"	"	" " X	8.3	090
" 33		# 4	14*23.56' S	170*37.67' W	" "	85	"	" "	8.7	178
" 48	Remarks:	# 5	14*24.52' S	170*36.98' W	" "		29.60		8.4	011
0703		# 6	14*22.83' S	170*37.55' W	" "		"		8.9	282
" 18		# 7	14*24.86' S	170*37.65' W	" "			5	8.7	181
" 33		# 8	14*23.47' S	170*37.00' W	" "				8.8	324
48		# 9	14*23.98' S	170*37.72' W	East-12	90			9.0	179
0803		# 10	14*24.47' S	170*37.02' W	" "				8.8	005
" 18		# 11	14*23.32' S	170*37.69' W					8.7	215
" 33		# 12	14*24.76' S	170*37.82' W	East-15	95-RAIN	29.61	10	9.1	177
" 48		# 13	14*23.49' S	170*36.98' W	" "	95	29.63		9.3	350
0903		# 14	14*24.56' S	170*37.83' W			29.64		9.1	181
" 18		# 15	14*23.95' S	170*36.91' W			"		9.3	000
" 33		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0931	Finish Discharge	#16	14*23.10' S	170*37.75' W	East 15	95%	29.65	SE-2.0	9.1	216
0937	Exit Discharge Zone	#17	14*22.61 S	170*38.31' W	" "	"	29.66	" "	9.4	337
1205	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

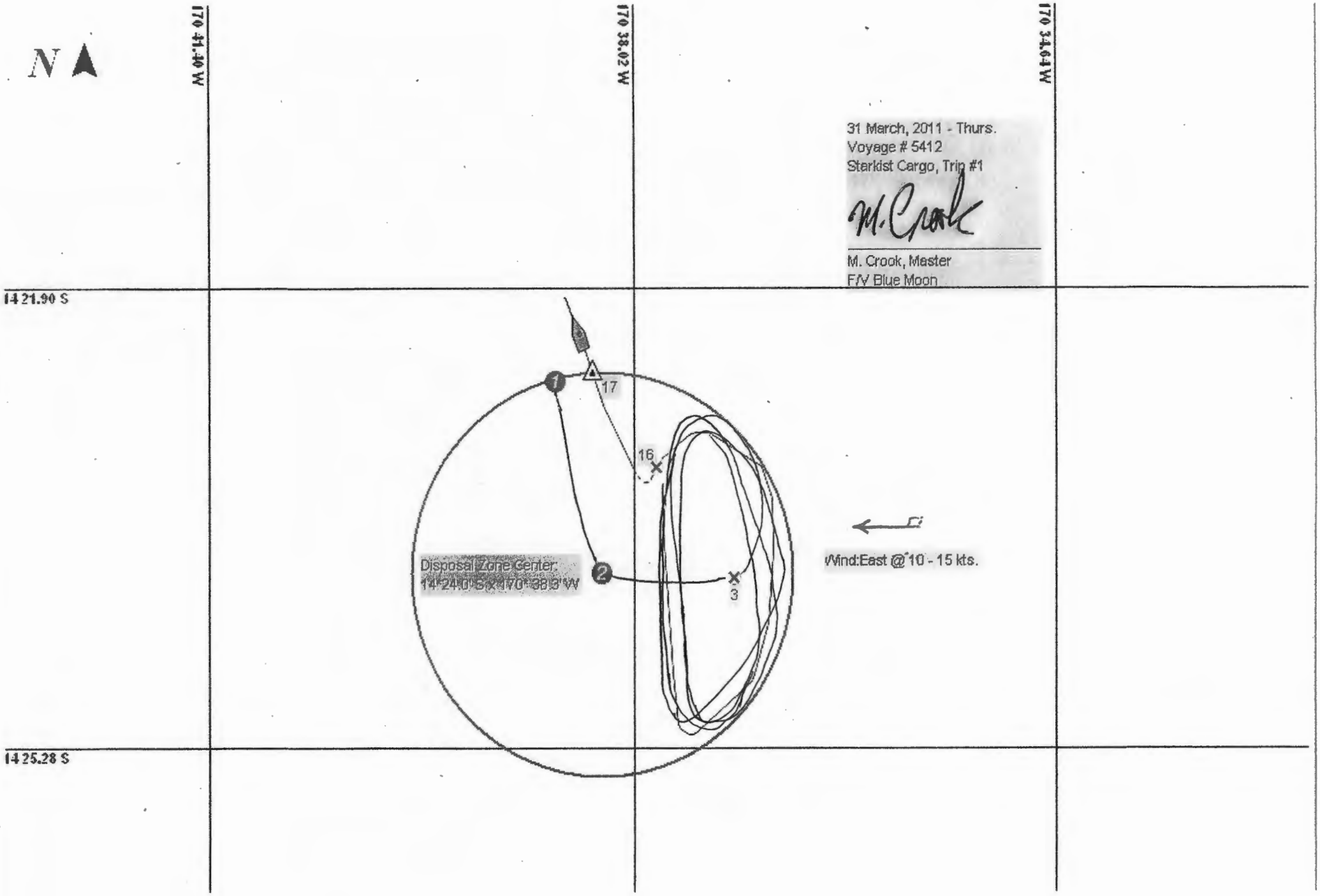
Total Discharge Time: 193 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 6.9 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material None Discharge Rate: 103 Gallons/min/kt.

Unusual Occurrences? None (Fueling 10:30- hrs.)

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
31 March, 2011 - Thurs.
Voyage # 5412
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170°38.5' W
Wind:East @ 10 - 15 kts.

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON March, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	14	0	0	**14**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	2,538,000	0	0	**2,538,000**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	2,538,000	**0**

RUNNING TIME ON TRIPS: **77.0 hrs.**

DISCHARGE TIME ON TRIPS: **44.96 hrs.**

AV. GPM DISCHARGE RATE: **106.1 gal/min/kt**

AV. TRIP TIME: **5.5 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER : Mike Crook

M. Crook

Date: 03/01/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5399

Permit # OD 93-01 & OD 93-02

	Time	
2/28	1530	Begin 1st Loading SK
	2190	Finish 1st Loading SK
3/1	000	Begin 2nd Loading SK
	0100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	185,000	Gallons
	Other	0	Gallons
	Total	185,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	20	29.53			
0603	Arrive Edge of Zone	# 1	14*22. 50' S	170*38.68' W	East-5	25	"	SE-1.5	8.9	163
0613	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	30	"	" "	8.7	160
0620	Begin Discharge	# 3	14*24.03' S	170*37.24' W	East-7	40	29.54	S+SE-1.5	8.5	090
" 35		# 4	14*23.48' S	170*37.89' W					8.7	178
" 50	Remarks:	# 5	14*24.70' S	170*37.10' W					8.3	022
0705		# 6	14*23.24' S	170*37.11' W					8.8	324
" 20		# 7	14*24.70' S	170*37.81' W				5	9.1	180
" 35		# 8	14*24.04' S	170*36.85 W					8.9	000
" 50		# 9	14*23.27' S	170*37.86' W		50			9.1	182
0805		# 10	14*24.84' S	170*37.14' W	East-10	"	29.55		8.8	037
" 20		# 11	14*23.32' S	170*37.81' W		"	"		9.0	183
" 35		# 12	14*25.14' S	170*37.34' W		"	"	10	8.5	082
" 50		# 13	14*23.21' S	170*37.23' W		"	29.56		9.7	300
0905		# 14	14*24.50' S	170*37.84' W	East-12		"		9.5	182
" 20		# 15	14*23.81' S	170*37.62 W	" "		"		9.4	358
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0930	Finish Discharge	#16	14*22.96' S	170*37.64 W	East-12	50%	29.56	S+SE-1.5	9.2	271
0934	Exit Discharge Zone	#17	14*22.59' S	170*38.09' W	" "	"	"	" "	9.6	328
1025	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

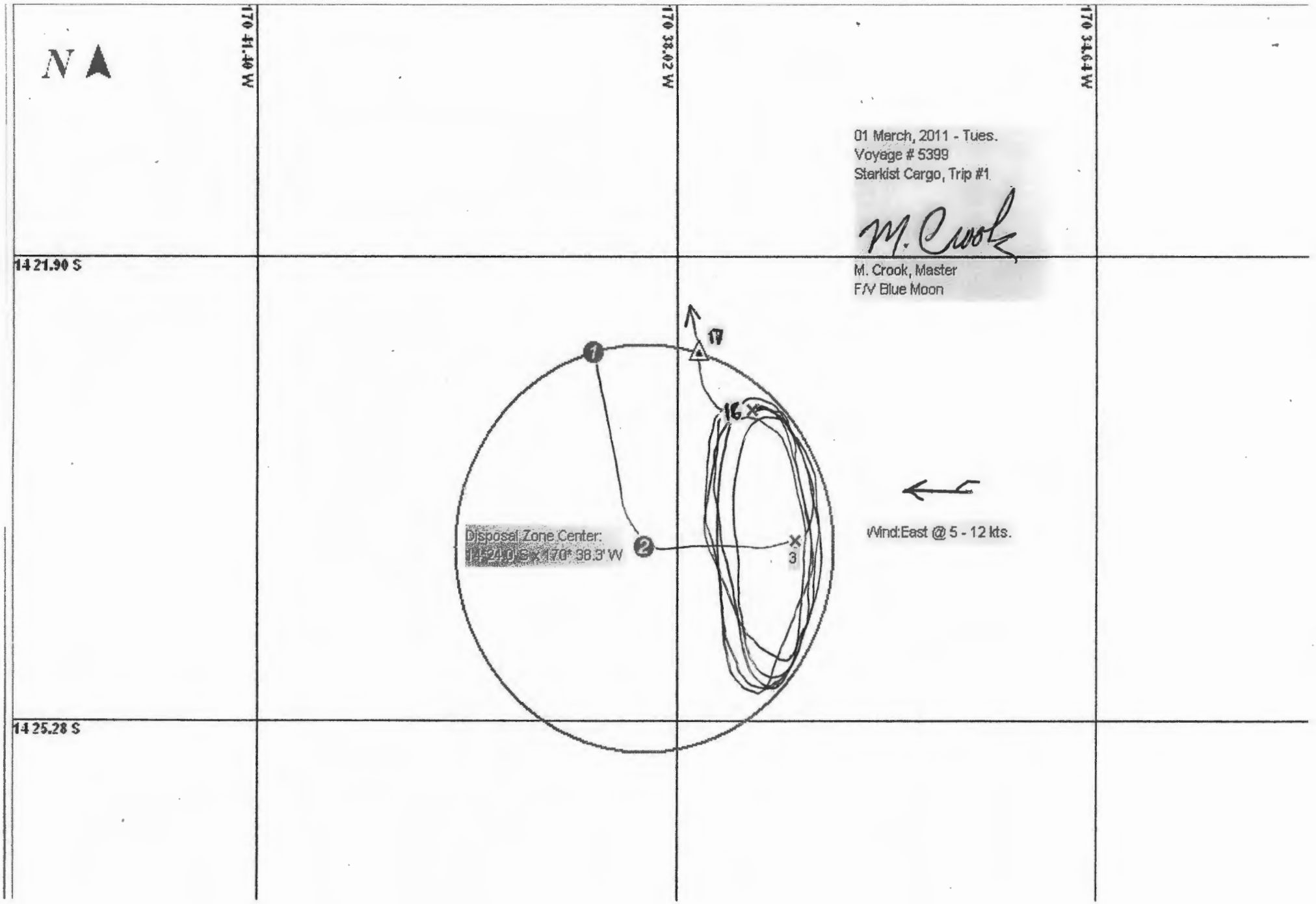
Total Discharge Time: 190 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 108 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
01 March, 2011 - Tues.
Voyage # 5399
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14 24.0' S x 170° 38.3' W
1
2
3
16
17
Wind:East @ 5 - 12 kts.

Date: 03/03/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5400

Permit # OD 93-01 & OD 93-02

	Time	
3/2	1430	Begin 1st Loading SK
	2145	Finish 1st Loading SK
3/3	0000	Begin 2nd Loading SK
	0100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	191,250	Gallons
	Other	0	Gallons
	Total	191,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	70	29.58			
0605	Arrive Edge of Zone	# 1	14*22.52' S	170*38.69' W	East-2	80	29.59	East-1.0	8.9	161
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	90	"	" "	8.6	162
0623	Begin Discharge	# 3	14*24.00 S	170*37.20' W	East-3	"	"	" " X	8.4	090
" 38		# 4	14*23.56' S	170*37.71' W	East-5	"			8.9	185
" 53	Remarks:	# 5	14*24.67' S	170*37.07' W	" "	80			8.5	024
0708		# 6	14*23.27' S	170*37.73' W	" "	"			8.9	188
" 23		# 7	14*24.81' S	170*37.15' W	East-7	"		5	8.6	004
" 38		# 8	14*23.09' S	170*37.37' W	" "	"			8.5	267
" 53		# 9	14*25.01' S	170*37.43' W	" "	70			8.7	064
0808		# 10	14*23.25' S	170*37.16' W	East-10	80			9.0	308
" 23		# 11	14*24.78' S	170*37.74 W	" "	"			8.8	181
" 38		# 12	14*23.05' S	170*37.32' W	" "	90		10	8.7	272
" 53		# 13	14*24.92' S	170*37.46' W	" "	100-Rain			8.9	006
0908		# 14	14*23.85' S	170*37.02 W	East-12	" "	29.60		9.3	359
" 23		# 15	14*24.31' S	170*37.72' W	" "	" "	"		9.6	178
" 38		# 16	14*23.73' S	170*37.03' W	East-10	" "	"		9.3	093
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0943	Finish Discharge	#17	14*23.11' S	170*37.66' W	East-7	100-Rain	29.61	East-1.0	9.4	272
0948	Exit Discharge Zone	#18	14*22.59 S	170*37.88 W	East-5	" "	"	" "	9.5	331
1040	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center (W)est End of Discharge (W)est Discharge Pattern Ellipse

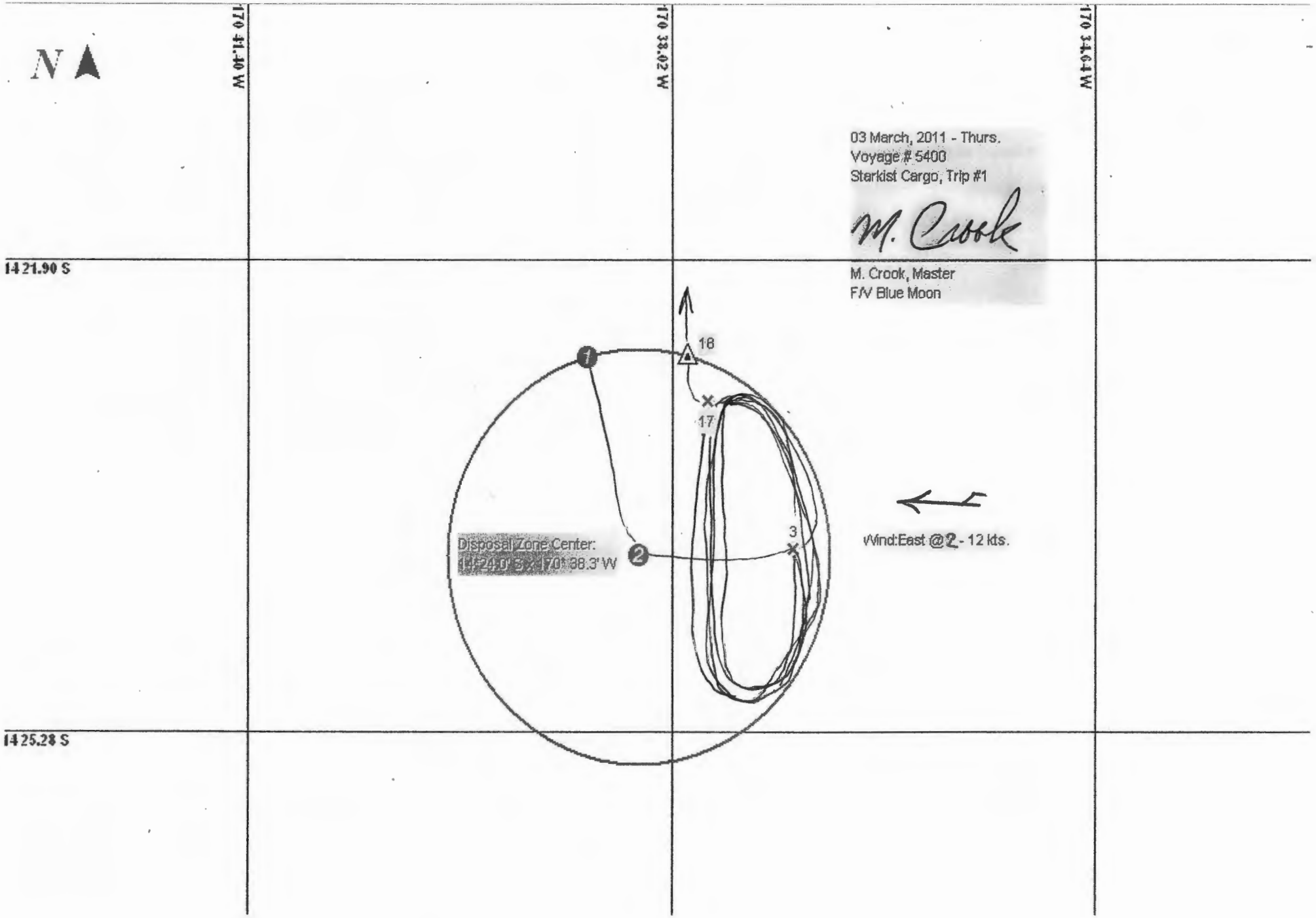
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 107.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
03 March, 2011 - Thurs.
Voyage # 5400
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
1
2
3
16
17
Disposal Zone Center:
14°24.0' S x 170°38.3' W
Wind:East @2 - 12 kts.

Date: 03/05/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5401

Permit # OD 93-01 & OD 93-02

Time		
0950	Begin 1st Loading SK	
1115	Finish 1st Loading SK	
1930	Begin 2nd Loading SK	
2130	Finish 2nd Loading SK	

3/4

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	196,250	Gallons
Other	0	Gallons
Total	196,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0515	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	25%	29.58			
0600	Arrive Edge of Zone	# 1	14*22.51' S	170*38.70 W	" "	"	"	East-1.0	8.6	162
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	30	"	" "	8.7	166
0618	Begin Discharge	# 3	14*23.99' S	170*37.21' W	" "	"	29.59	" " X	8.7	070
" 33		# 4	14*23.68' S	170*37.58' W	" "				8.8	179
" 48	Remarks:	# 5	14*24.55' S	170*36.75' W	" "				8.5	021
0703		# 6	14*22.96' S	170*37.61' W	East-3				8.3	181
" 18		# 7	14*24.87' S	170*37.65' W	East-5			5	8.7	099
" 33		# 8	14*23.45' S	170*36.97 W	" "				8.8	336
48		# 9	14*24.53' S	170*37.77' W	" "				9.2	180
0803		# 10	14*24.38' S	170*36.96' W					8.8	096
" 18		# 11	14*23.76' S	170*37.84' W					9.3	179
" 33		# 12	14*24.01' S	170*36.88' W				10	9.2	002
" 48		# 13	14*23.72' S	170*37.84' W					9.4	178
0903		# 14	14*24.48' S	170*37.01' W	East-7		29.60		9.3	001
" 18		# 15	14*22.67' S	170*37.53' W			"		9.0	272
33		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0933	Finish Discharge	# 16	14*22.96' S	170*37.63' W	East-7	30%	29.60	East-1.0	9.6	332
0937	Exit Discharge Zone	# 17	14*22.56' S	170*37.95' W	" "	"	29.60	"	9.6	331
1035	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge Stationary Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 5.33 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

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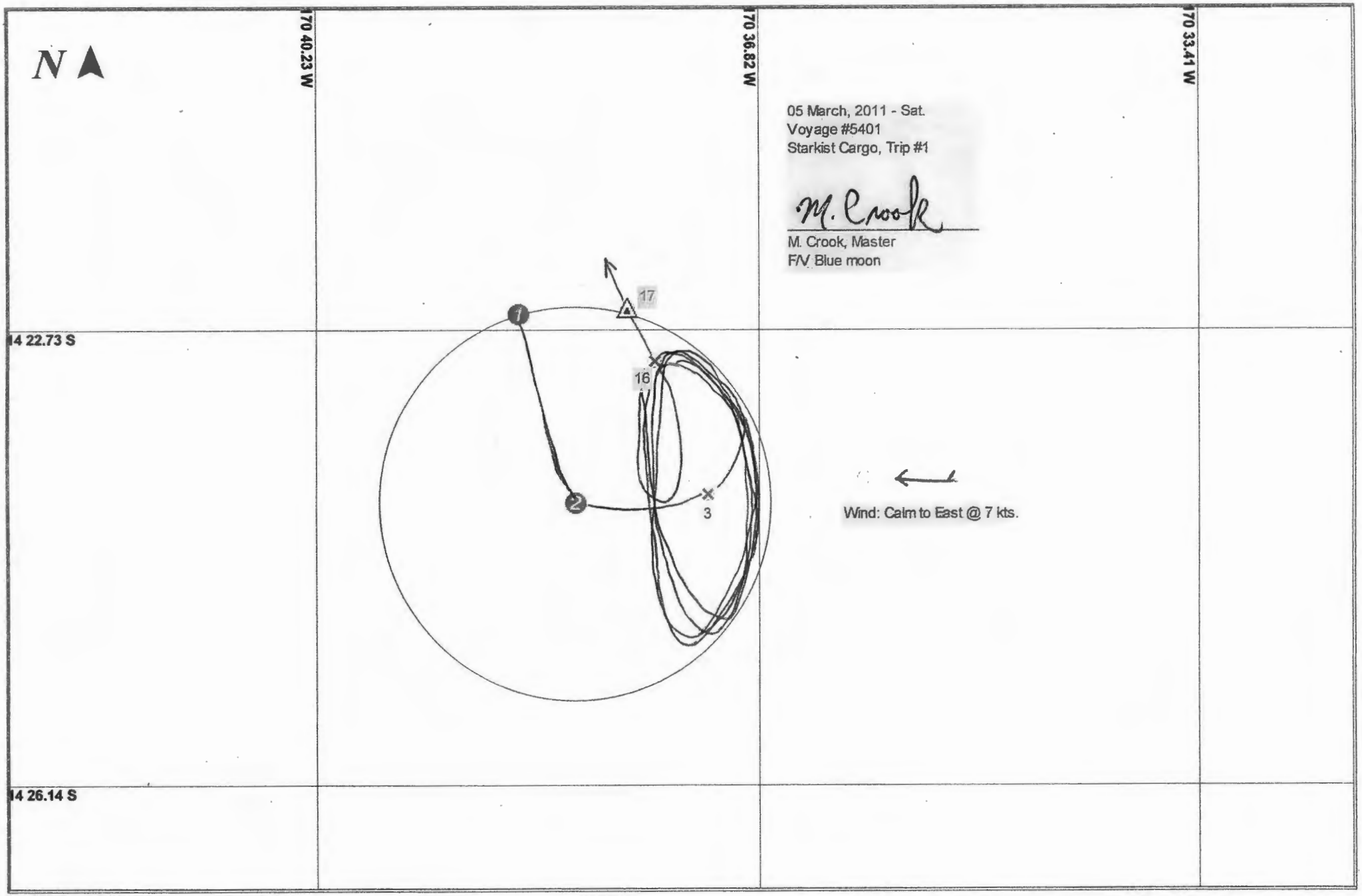

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Date: 03/08/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5402

Permit # OD 93-01 & OD 93-02

	Time	
3/7	1130	Begin 1st Loading SK
	1245	Finish 1st Loading SK
	1430	Begin 2nd Loading SK
	2100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	70	29.60			
0558	Arrive Edge of Zone	# 1	14*22.52 S	170*38.69' W	"	"	"	SE-1.5	8.8	162
0607	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	"	75	"	"	8.5	163
0615	Begin Discharge	# 3	14*24.06' S	170*39.36' W	West-2	"	"	" " X	8.7	270
" 30		# 4	14*24.28' S	170*38.66' W	" "	"	"		8.8	358
" 45	Remarks:	# 5	14*23.79' S	170*39.45' W	" "	"	"		8.7	191
0700		# 6	14*25.27' S	170*38.16' W	calm	"	"		8.3	074
" 15		# 7	14*23.13' S	170*38.65' W	" "	"	"	5	8.5	272
" 30		# 8	14*24.45' S	170*39.47' W	"	70	"		8.6	172
" 45		# 9	14*24.33' S	170*38.62' W	"	"	"		9.0	357
0800		# 10	14*23.62 S	170*39.59 W	East-3	"	"		9.2	191
" 15		# 11	14*25.00 S	170*39.13' W	" "	"	"		8.7	046
" 30		# 12	14*24.23' S	170*37.16' W	East-5	60	"	10	8.9	090
" 45		# 13	14*23.10 S	170*37.86' W	" "	"	"		9.4	184
0900		# 14	14*25.24' S	170*37.60' W	" "	"	29.61		8.9	061
" 15		# 15	14*22.94' S	170*37.86' W	" "	"	"		9.1	182
" 30		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0930	Finish Discharge	#16	14*22.96' S	170*37.94' W	East-5	60%	29.61	SE-1.5	9.3	338
0935	Exit Discharge Zone	#17	14*22.54' S	170*38.08' W	" "	"	"	" "	9.5	341
1030	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center East (slow) End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.86 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 106 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

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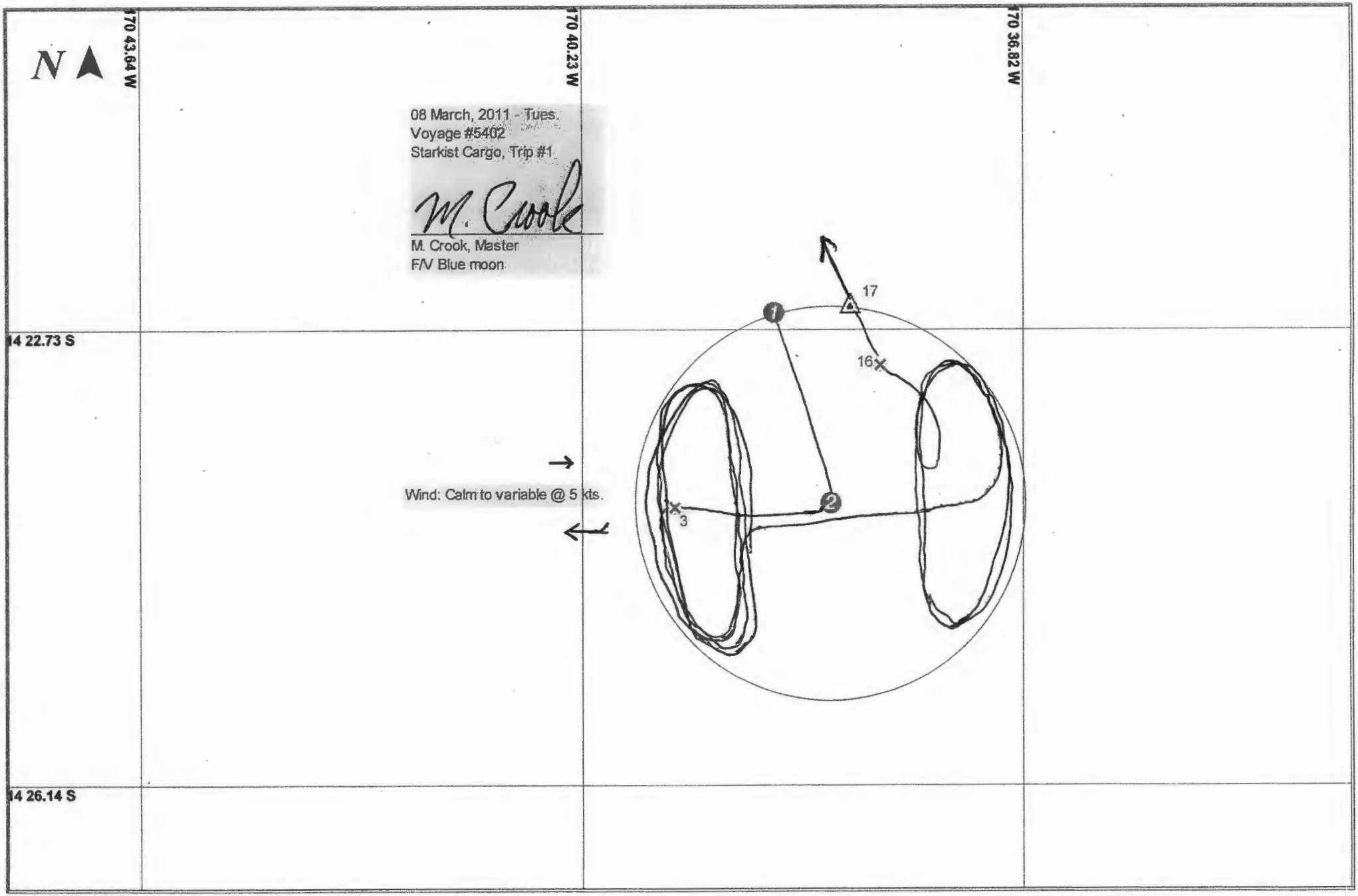

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Date: 03/10/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5403

Permit # OD 93-01 & OD 93-02

	Time	
3/9	1145	Begin 1st Loading SK
	2130	Finish 1st Loading SK
3/10	0230	Begin 2nd Loading SK
	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	195,750	Gallons
	Other	0	Gallons
	Total	195,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	75	29.61			
0600	Arrive Edge of Zone	# 1	14*22.53' S	170*38.72' W	East-10	"	29.62	SE-1.0	8.6	164
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	" "	" "	8.4	160
0630	Begin Discharge	# 3	14*24.13' S	170*37.10' W	" "	"	29.64	X	7.7	045
" 45		# 4	14*23.66' S	170*37.74' W	" "	80	"		8.7	180
0700	Remarks:	# 5	14*24.79' S	170*37.09' W	" "		"		8.4	026
" 15	Control Samples	# 6	14*22.98' S	170*37.57' W	East-12		"		8.8	210
" 30	drawn at:	# 7	14*24.78' S	170*37.83' W			"	5	8.8	181
" 45	0620hrs.	# 8	14*23.86' S	170*36.96' W		70	"		8.7	001
0800	Position:	# 9	14*24.07' S	170*37.88' W		"	"		9.1	182
" 15	14°24.08'S	# 10	14*24.65' S	170*37.00 W		"	"		8.8	000
" 30	170°37.15' W	# 11	14*23.20' S	170*37.73' W	East-15	60	"		8.9	179
" 45		# 12	14*25.05' S	170*37.46' W	" "	"	"	10	8.6	040
0900		# 13	14*23.18' S	170*37.14' W	" "	"	"		9.5	310
" 15		# 14	14*24.69' S	170*37.92' W			"		9.6	178
" 30		# 15	14*24.05' S	170*37.04' W			29.65		9.1	358
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W	East-15	60%	29.65	SE-1.0	9.5	183
0945	Finish Discharge	#16	14*23.67' S	170*37.67 W	" "	"	"	" "	↓	↓
1048	Exit Discharge Zone	#17	14*23.01' S	170*39.34' W	East-15	"	29.67	" "	9.3	345
1145	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 6.6 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112.8 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cole

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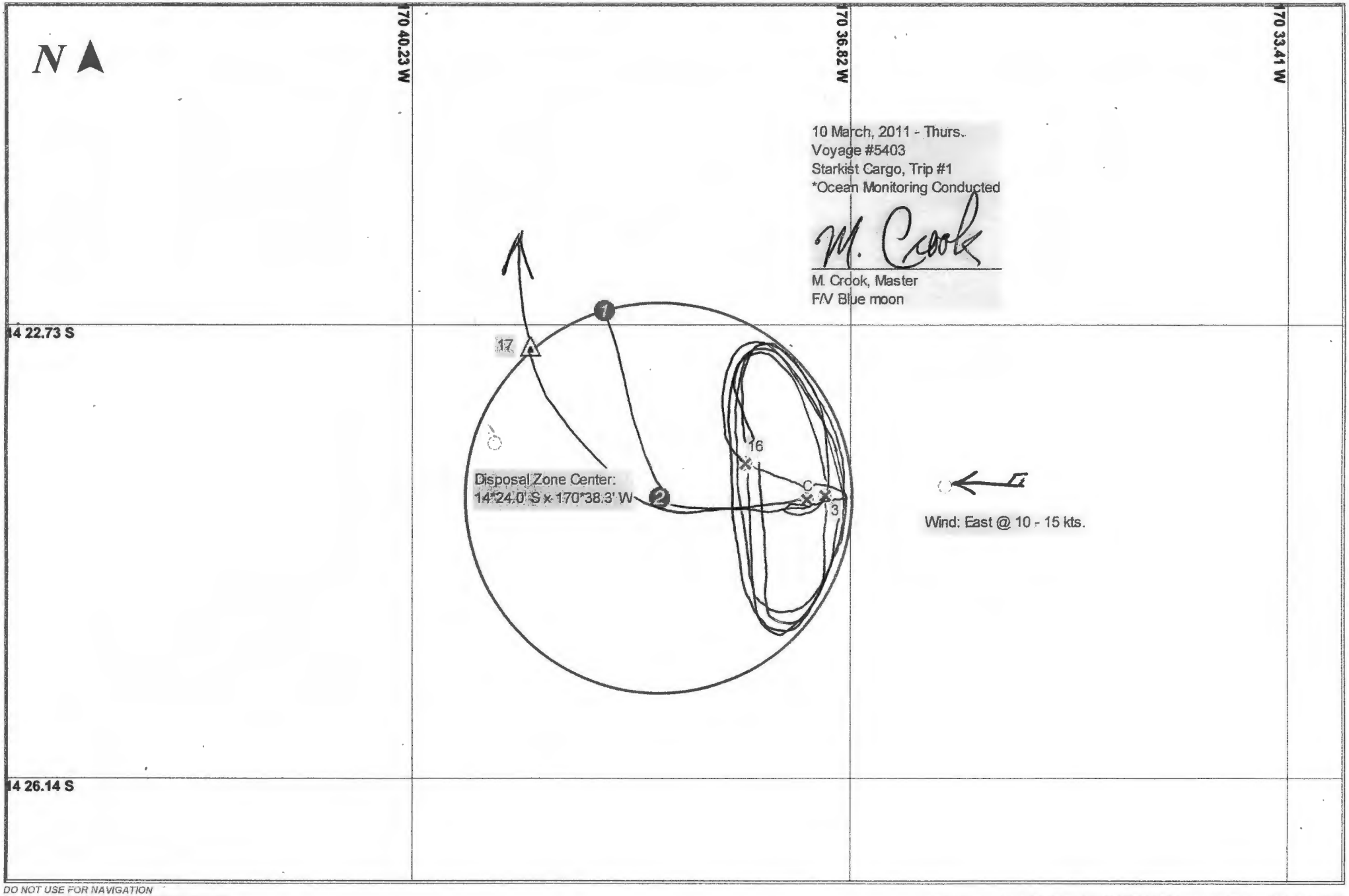

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Date: 03/12/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5404

Permit # OD 93-01 & OD 93-02

	Time	
3/11	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
3/12	0200	Begin 2nd Loading SK
	0415	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	131,250	Gallons
Other	0	Gallons
Total	131,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-12	60	29.62			
0600	Arrive Edge of Zone	# 1	14*22. 51' S	170*38. 69 W	" "	"	"	East-1.5	8.7	161
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.5	163
0620	Begin Discharge	# 3	14*23.93' S	170*37.19 W	" "	70	"	" " X	7.9	090
35		# 4	14*23.58' S	170*37.81' W	" "	80	"		8.8	184
50	Remarks:	# 5	14*24.91' S	170*37.37 W	" "	70			8.2	036
0705		# 6	14*23.08' S	170*37.16' W	East-15	"			9.1	301
20		# 7	14*24.46' S	170*37.00' W	" "	60		5	8.8	176
35		# 8	14*24.01' S	170*36.94' W	" "	"			8.6	003
50		# 9	14*23.89' S	170*37.93' W	East-18	"			9.0	180
0805		# 10	14*24.81' S	170*37.19' W	"	"			8.7	035
20		# 11	14*23.38 S	170*37.87' W	" "	"			9.3	181
35		# 12	14*24.91' S	170*37.55' W	East-20	"		10	8.5	054
50		# 13	14*23.00 S	170*37.11' W	" "	"			9.4	340
0905		# 14	14*23.89 S	170*37.83' W					9.5	182
20		# 15	14*2 S	170*3 W						
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0910	Finish Discharge	#15	14*24.54 S	170*37.99 W	East-20	60 %	29.62	East-1.5	9.6	181
0920	Exit Discharge Zone	#16	14*22.57' S	170*38.71 W	" "	"	"	" "	9.6	337
1010	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 170 mins. Average Speed During Discharge: 8.87 kts. Total Time Run 5.0 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 87 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooks

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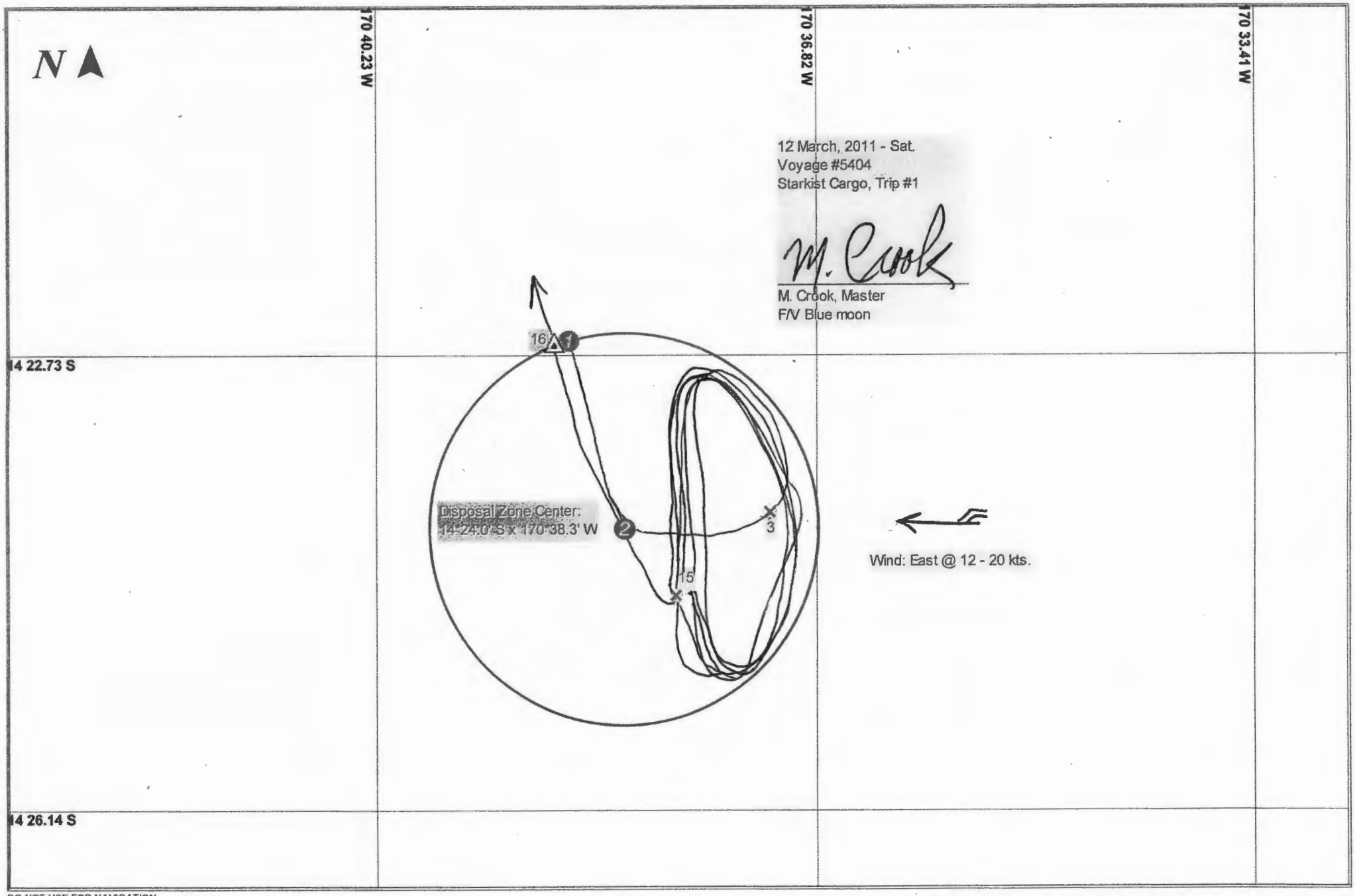

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Date: 03/15/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5405

Permit # OD 93-01 & OD 93-02

	Time	
3/14	1630	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0100	Begin 2nd Loading SK
3/15	0220	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	184,500	Gallons
	Other	0	Gallons
	Total	184,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East - 10	60	29.61			
0605	Arrive Edge of Zone	# 1	14*22.52' S	170*38.69' W	East - 10	"	29.62	East - 1.5	8.5	161
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.6	163
0625	Begin Discharge	# 3	14*24.02' S	170*37.23' W	East - 12	65	29.63	" " X	8.0	090
" 40		# 4	14*23.66' S	170*37.75' W	" "	"	"	" "	8.5	179
" 55	Remarks:	# 5	14*24.37 S	170*36.87' W	" "		"		8.3	006
0710		# 6	14*23.02 S	170*37.83' W	" "		"		8.4	181
" 25		# 7	14*24.65' S	170*37.44' W	" "		"	5	7.9	062
" 40		# 8	14*23.17' S	170*37.78' W	East - 15		29.64		8.7	194
" 55		# 9	14*25.04' S	170*37.49' W	" "	60			8.4	071
0810		# 10	14*23.64' S	170*36.74' W	" "	"			8.6	353
" 25		# 11	14*23.92' S	170*37.77' W	" "	50			8.8	183
" 40		# 12	14*24.10' S	170*37.05' W	" "	"	29.65	10	8.7	017
" 55		# 13	14*23.59' S	170*37.75' W		"			9.1	181
0910		# 14	14*24.61' S	170*37.05' W		"			8.9	006
" 25		# 15	14*22.92' S	170*37.65' W		"	29.66		9.2	218
" 40		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	#16	14*22.98' S	170*37.74' W	East - 15	50%	29.66	East - 1.5	9.0	329
0940	Exit Discharge Zone	#17	14*22.53' S	170*38.20' W					9.4	332
1030	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center East End of Discharge East Discharge Pattern Ellipse

Total Discharge Time: 190 mins. Average Speed During Discharge: 8.6 kts. Total Time Run 5.33 hr.

Navigational Plot made: yes Presence of Plume? NO

Time and position of any floating material: None Discharge Rate: 113 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

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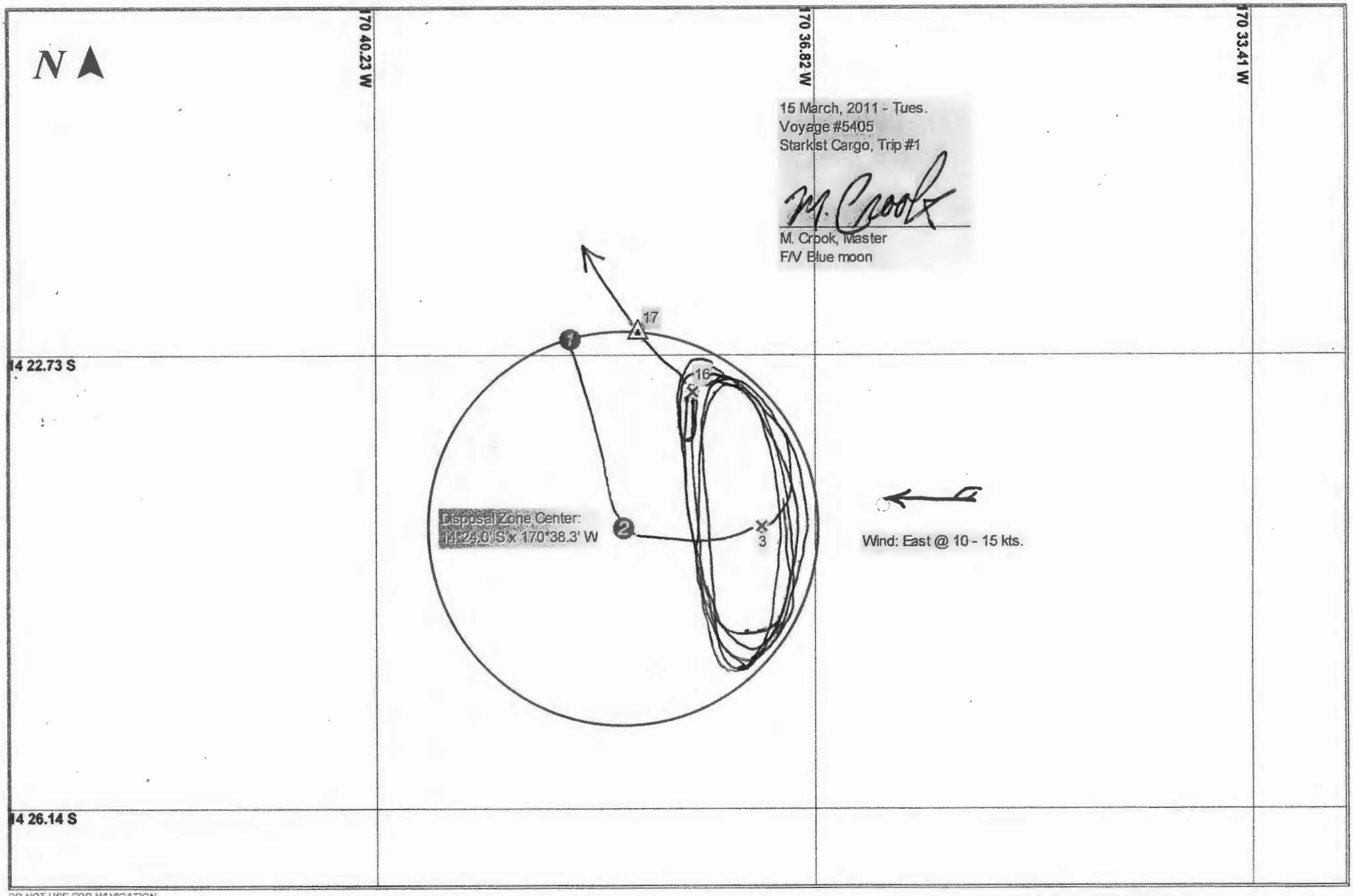

DO NOT USE FOR NAVIGATION
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Date: 03/17/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5406

Permit # OD 93-01 & OD 93-02

	Time	
3/16	1600	Begin 1st Loading SK
	2145	Finish 1st Loading SK
3/17	0100	Begin 2nd Loading SK
	0215	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	197,000	Gallons
Other	0	Gallons
Total	197,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-12	75	29.58			
0605	Arrive Edge of Zone	# 1	14*22.52' S	170*38.67' W	" "	85	29.59	E/SE-1.5	8.6	162
0615	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	90-RAIN	"	" "	8.4	163
0625	Begin Discharge	# 3	14*24.00' S	170*37.16' W	" "	85	"	X	8.0	090
" 40		# 4	14*23.67' S	170*37.74' W	" "	75	"		8.5	180
" 55	Remarks:	# 5	14*24.84' S	170*37.22' W	East-15	70	"		8.0	047
0710		# 6	14*23.13' S	170*37.18 W		"			8.7	350
" 25		# 7	14*24.50' S	170*37.77' W		"		5	8.5	180
" 40		# 8	14*23.84' S	170*37.05' W		"			8.7	356
" 55		# 9	14*24.07' S	170*37.81' W		"			8.7	183
0810		# 10	14*24.36' S	170*36.95' W		65			8.7	002
" 25		# 11	14*23.25' S	170*37.70' W		"			8.8	181
" 40		# 12	14*24.77' S	170*37.16' W		"		10	8.6	027
" 55		# 13	14*23.26' S	170*37.75' W		60	29.60		9.0	184
0910		# 14	14*24.86' S	170*37.58' W		"	"		8.5	056
" 25		# 15	14*23.37' S	170*37.00 W		"	29.61		9.6	311
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0940	Finish Discharge	#16	14*24.34' S	170*37.77 W	East-15	60%	29.61	E/SE-1.5	9.3	182
0953	Exit Discharge Zone	#17	14*22.51' S	170*38.18 W	" "	"	"	" "	9.5	338
1045	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 116 Gallons/min/kt.

Unusual Occurrences? None.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Creed

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3/17/2011
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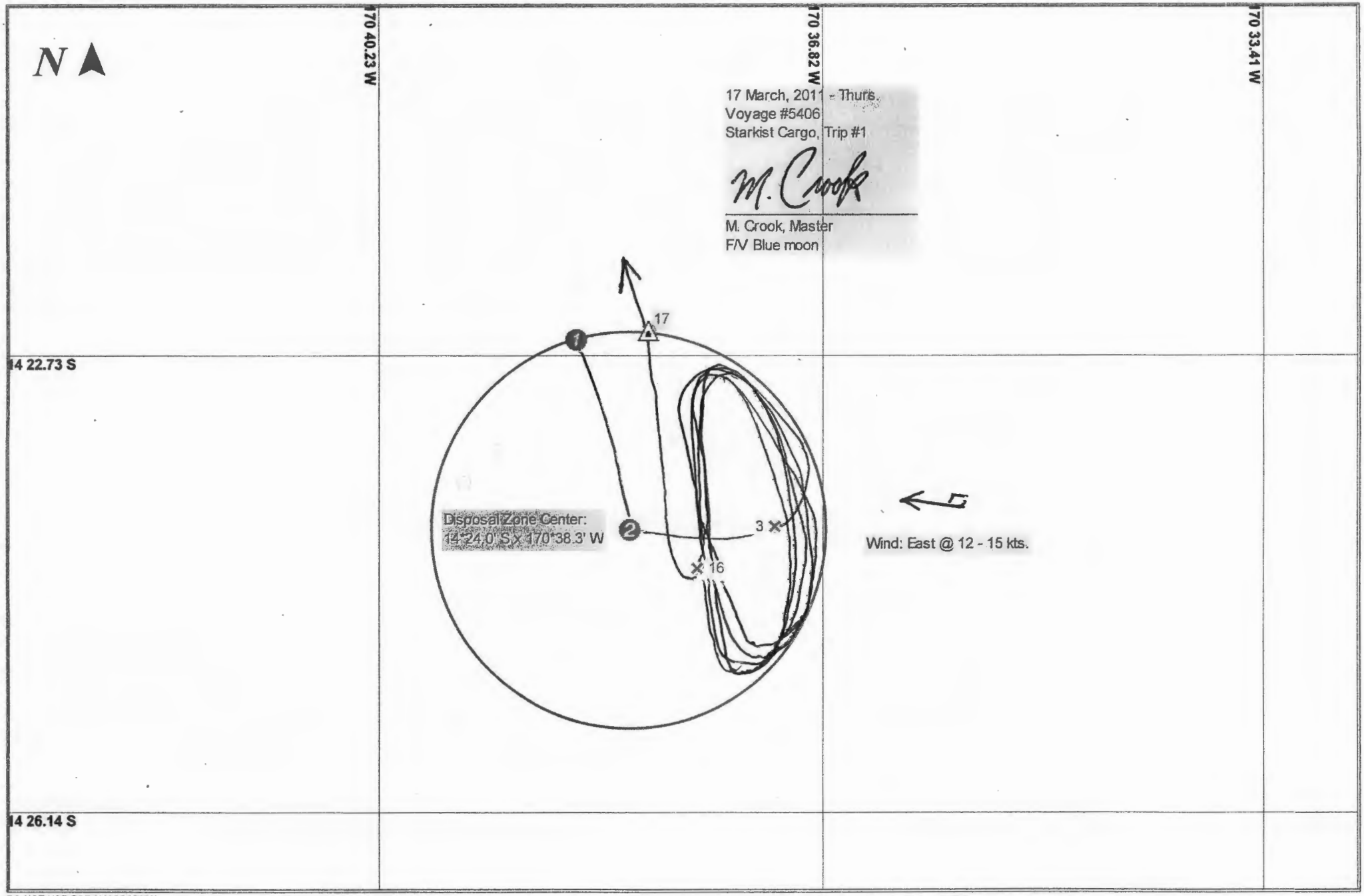

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F/V Blue Moon Ocean Dumping Log

Date: 03/19/11 Sat.

Voyage #: 5407

Permit # OD 93-01 & OD 93-02

	Time	
3/18	1430	Begin 1st Loading SK
	2120	Finish 1st Loading SK
		Begin 2nd Loading SK
	/	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	E-3	20%	29.54			
0603	Arrive Edge of Zone	# 1	14*22.55' S	170*38.76 W	SE-7	"	29.56	SE-1.0	8.7	163
0613	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	SE-7	"	"	" "	8.7	165
0620	Begin Discharge	# 3	14*24.68' S	170*37.49' W	" "	15	"	" " X	8.4	135
" 35		# 4	14*24.30' S	170*37.45' W	" "		"		9.2	232
" 50	Remarks:	# 5	14*24.84' S	170*37.14' W	" "		"		8.3	039
0705		# 6	14*24.40' S	170*37.63' W		10	29.57		9.2	223
" 20		# 7	14*24.68' S	170*36.97' W		"		5	8.7	008
" 35		# 8	14*25.11' S	170*38.08' W		"			8.5	201
" 50		# 9	14*24.04' S	170*36.83' W		15			8.9	006
0805		# 10	14*24.95' S	170*38.13' W					9.1	189
" 20		# 11	14*23.96 S	170*37.20' W	SE-10		29.58		9.0	279
" 35		# 12	14*25.30' S	170*37.53' W	" "			10	8.7	045
" 50		# 13	14*23.83' S	170*37.29' W	SE-7				9.2	224
0905		# 14	14*25.14' S	170*37.31' W	" "	20			9.1	021
" 20		# 15	14*24.73' S	170*37.89' W		25	29.59		8.9	326
" 35		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0935	Finish Discharge	#16	14*24.51' S	170*36.97' W	SE-7	30%	29.59	SE-1.0	9.2	024
0950	Exit Discharge Zone	#17	14*22.66' S	170*37.84' W	" "	"	"	" "	9.6	331
1045	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center NW End of Discharge WNW Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 106 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Clark

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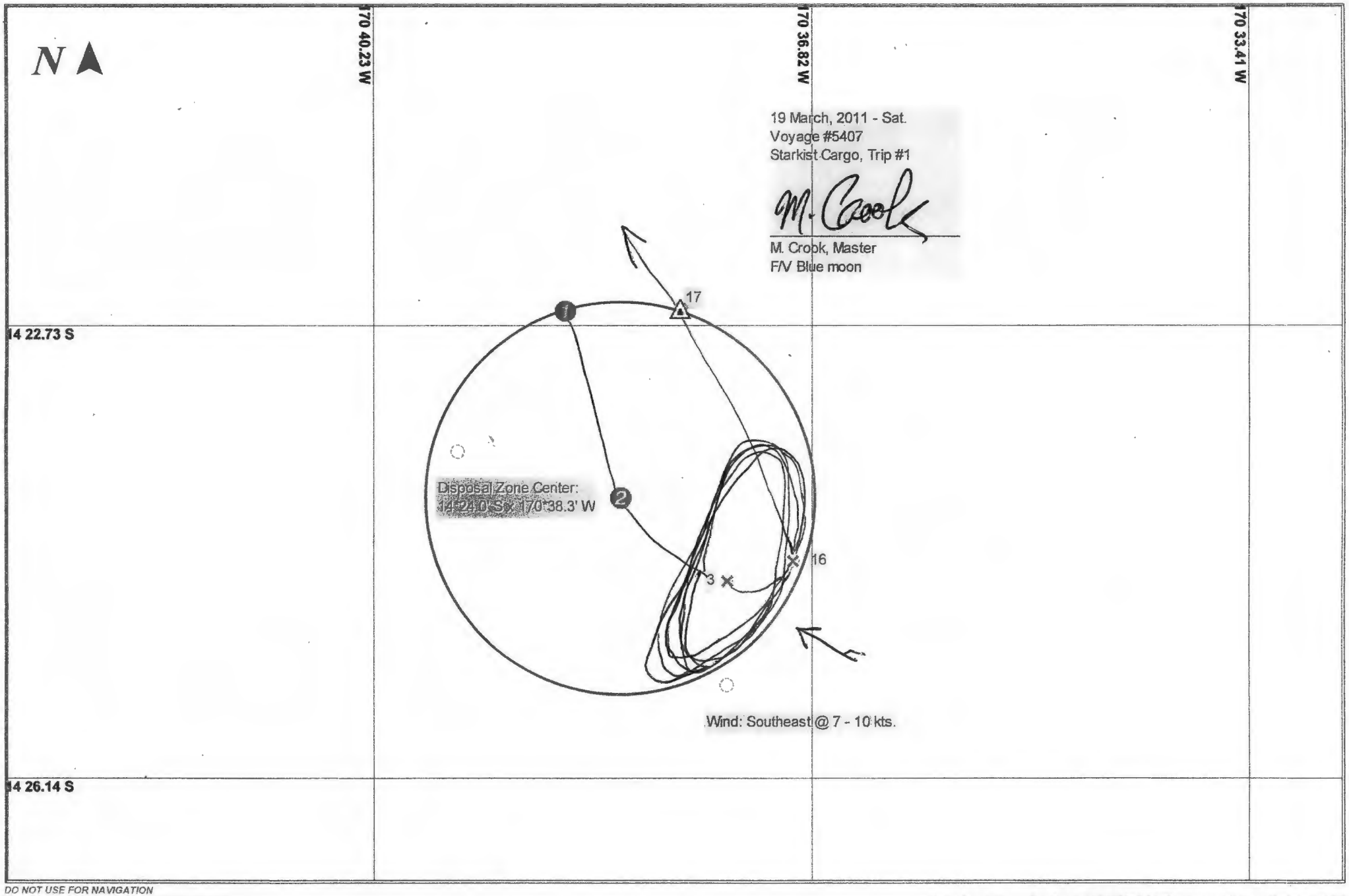

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Date: 03/22/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5408

Permit # OD 93-01 & OD 93-02

	Time	
3/20	1510	Begin 1st Loading SK
	2015	Finish 1st Loading SK
3/21	1930	Begin 2nd Loading SK
	2115	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	168,750	Gallons
Other	0	Gallons
Total	168,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	VAR-5	100	29.52			
0602	Arrive Edge of Zone	# 1	14*22.51' S	170*38.70' W	NE-5	"	"	SE 1.5	8.7	165
0612	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-7	"			8.5	159
0620	Begin Discharge	# 3	14*24.03' S	170*37.23 W	" "	"		X	8.3	090
" 35		# 4	14*23.71' S	170*37.66' W		"			8.6	181
" 50	Remarks:	# 5	14*24.28' S	170*36.91' W		"			8.4	000
0705		# 6	14*23.11' S	170*37.64' W		"	29.53		8.4	194
" 20		# 7	14*24.86' S	170*37.25 W	East 12		"	" " 5	8.2	031
" 35		# 8	14*23.13' S	170*37.27 W	" "		29.54	" "	9.0	290
" 50		# 9	14*24.94' S	170*37.21' W	East-15		"		8.5	042
0805		# 10	14*23.75' S	170*36.87 W			"		8.8	351
" 20		# 11	14*24.44' S	170*37.66' W			"		8.9	178
" 35		# 12	14*24.15' S	170*37.03' W			29.55	10	8.8	006
" 50		# 13	14*23.44' S	170*37.87 W			"		8.7	182
0905		# 14	14*24.53' S	170*36.96 W			"		9.0	018
" 20		# 15	14*23.00' S	170*37.54' W			"		8.5	197
35		# 16	14*25.02' S	170*37.28 W			29.56		8.7	086
50		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0950	Finish Discharge	#17	14*23.13' S	170*37.35' W	East-15	100%	29.56	SE-1.5	9.4	254
1000	Exit Discharge Zone	#18	14*22.58' S	170*38.00 W	" "	"	29.55	" "	9.3	329
1050	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 210 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.66 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 92.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooks

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Visual Navigation Suite 9.3.2240

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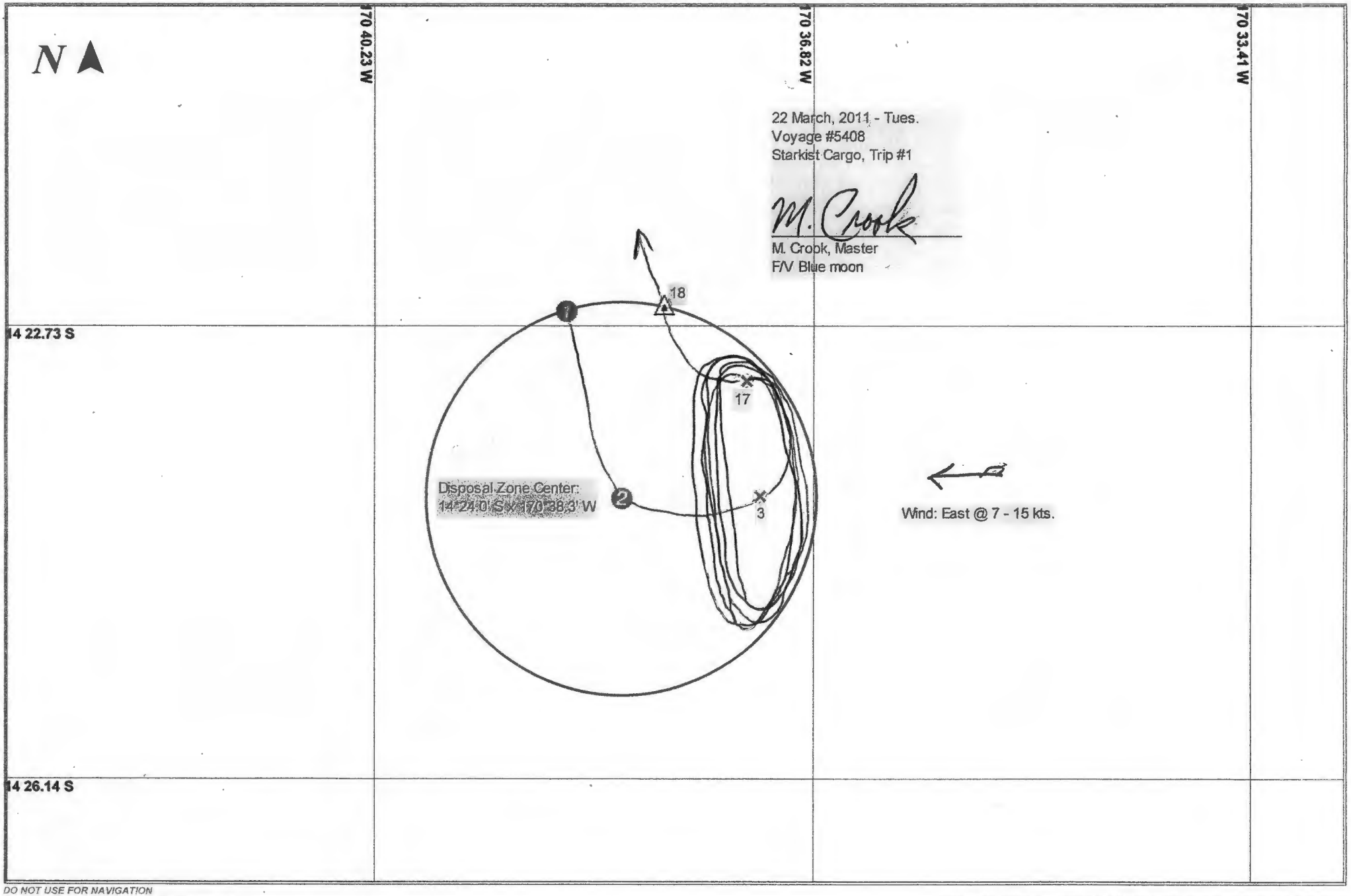

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Date: 03/24/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5409

Permit # OD 93-01 & OD 93-02

Time		
3/23 1000	Begin 1st Loading SK	
1230	Finish 1st Loading SK	
1520	Begin 2nd Loading SK	
2015	Finish 2nd Loading SK	

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	191,250	Gallons
Other	0	Gallons
Total	191,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0520	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	75	29.52			
0613	Arrive Edge of Zone	# 1	14*22. 51' S	170*38. 67 W	East-7	"	29.53	E/SE-1.5	8.8	162
0622	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "		"	" "	8.9	164
0630	Begin Discharge	# 3	14*2 3.93 S	170*3 7.23 W	" "		"	" " X	8.4	090
" 45		# 4	14*2 3.74' S	170*3 7.56' W	" "	80	29.54		8.7	180
0700	Remarks:	# 5	14*2 4.65' S	170*3 7.08' W	" "	Rain-75	"		8.3	011
" 15		# 6	14*2 2.99' S	170*3 7.49' W		75	"		8.8	237
" 30		# 7	14*2 4.71' S	170*3 7.62' W		"	"	5	9.1	178
" 45		# 8	14*2 3.32' S	170*3 7.01' W		70	"		8.7	304
0800		# 9	14*2 4.10' S	170*3 7.67 W	East-10	75			9.2	180
" 15		# 10	14*2 4.08' S	170*3 6.92' W		"			9.0	002
" 30		# 11	14*2 3.60' S	170*3 7.73' W		70			9.3	181
" 45		# 12	14*2 4.49' S	170*3 6.98' W		60		10	9.2	001
0900		# 13	14*2 3.15' S	170*3 7.63' W					9.1	179
" 15		# 14	14*2 5.05' S	170*3 7.43' W					8.8	032
" 30		# 15	14*2 3.09' S	170*3 7.20' W					9.0	293
" 45		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0945	Finish Discharge	#16	14*23.83' S	170*37.59' W	East-10	50%	29.54	E&SE-1.5	9.4	347
0953	Exit Discharge Zone	#17	14*22.69' S	170*3 7.77' W	" "	"	"	" "	9.5	344
1050	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center (W)est End of Discharge West Discharge Pattern Ellipse

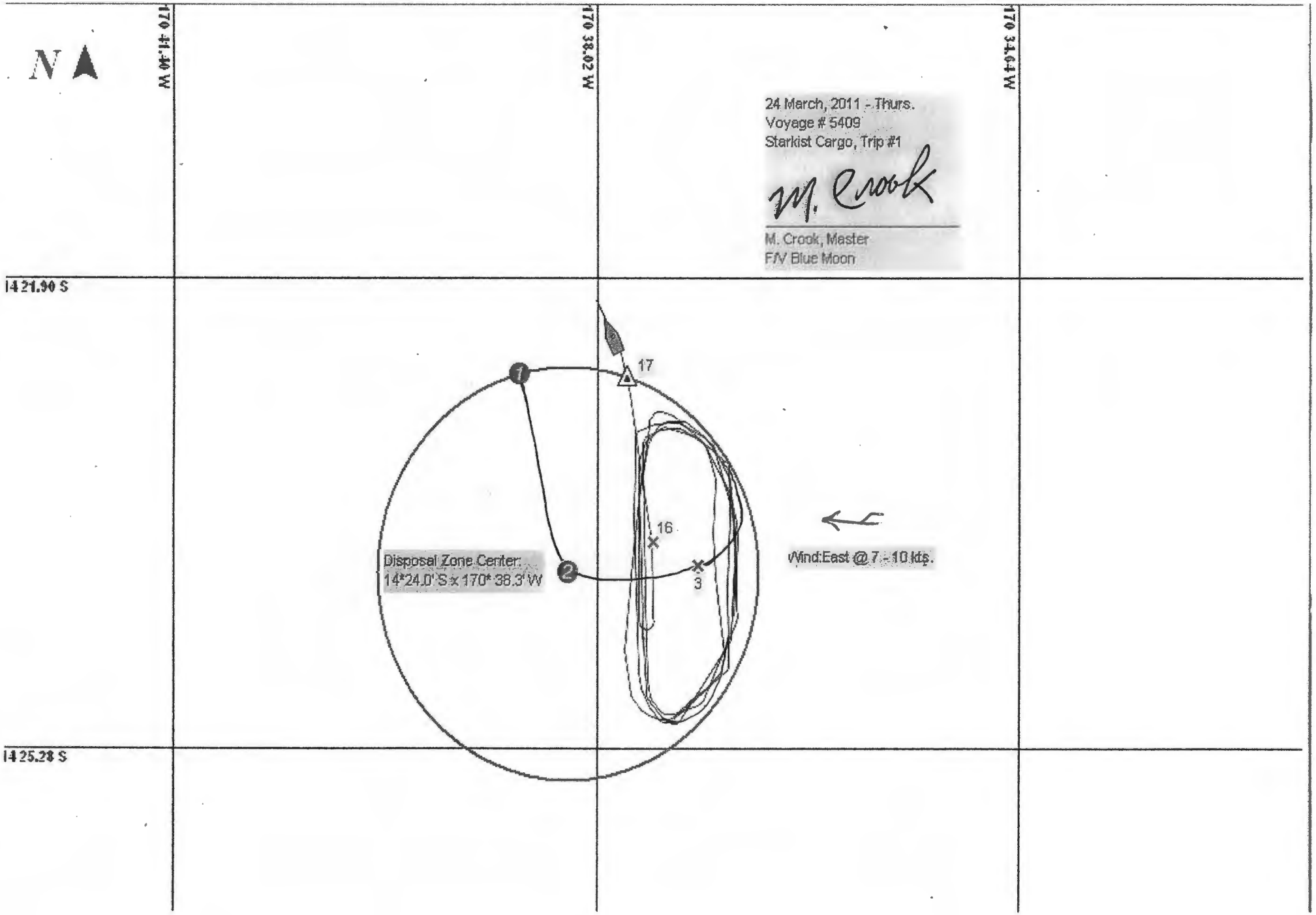
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
24 March, 2011 - Thurs.
Voyage # 5409
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind:East @ 7 - 10 kts.

Date: 03/26/11 Sat. F/V Blue Moon Ocean Dumping Log Voyage #: 5410

Permit # OD 93-01 & OD 93-02

	Time	
	1610	Begin 1st Loading SK
3/25	2140	Finish 1st Loading SK
	0030	Begin 2nd Loading SK
3/26	0150	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:		
SK	168,750	Gallons
Other	0	Gallons
Total	168,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	80	29.57			
0602	Arrive Edge of Zone	# 1	14*22.55' S	170*38.66' W	East-5	75	29.58	E+SE-1.0	8.9	161
0612	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	80	"	" "	8.8	158
0620	Begin Discharge	# 3	14*23.95' S	170*37.23' W	East-7	85	29.59	" " X	8.5	080
" 35		# 4	14*23.69' S	170*37.75' W	" "	80			8.4	183
" 50	Remarks:	# 5	14*24.10' S	170*36.88' W	" "	75			9.0	358
0705		# 6	14*23.31' S	170*37.85' W	" "	70			8.6	182
" 20		# 7	14*24.84' S	170*37.14' W	East-10	60		5	8.8	027
" 35		# 8	14*23.13 S	170*37.12' W	" "	"			8.5	315
" 50		# 9	14*24.81' S	170*37.64' W	" "				9.0	180
0805		# 10	14*23.73' S	170*36.94' W	" "				9.2	354
" 20		# 11	14*24.30' S	170*37.69' W	" "				9.1	178
" 35		# 12	14*23.23' S	170*37.19' W				10	8.7	311
" 50		# 13	14*24.34' S	170*37.76 W		50			9.6	002
0905		# 14	14*23.82' S	170*36.94' W		"			9.3	307
" 20		# 15	14*24.36' S	170*37.69 W					9.2	179
		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0930	Finish Discharge	# 16	14*23.48' S	170*37.66 W	East-10	50%	29.59	E+SE-1.0	9.5	341
0935	Exit Discharge Zone	17	14*22.62' S	170*37.99' W	" "	"	"	" "	9.5	329
1030	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

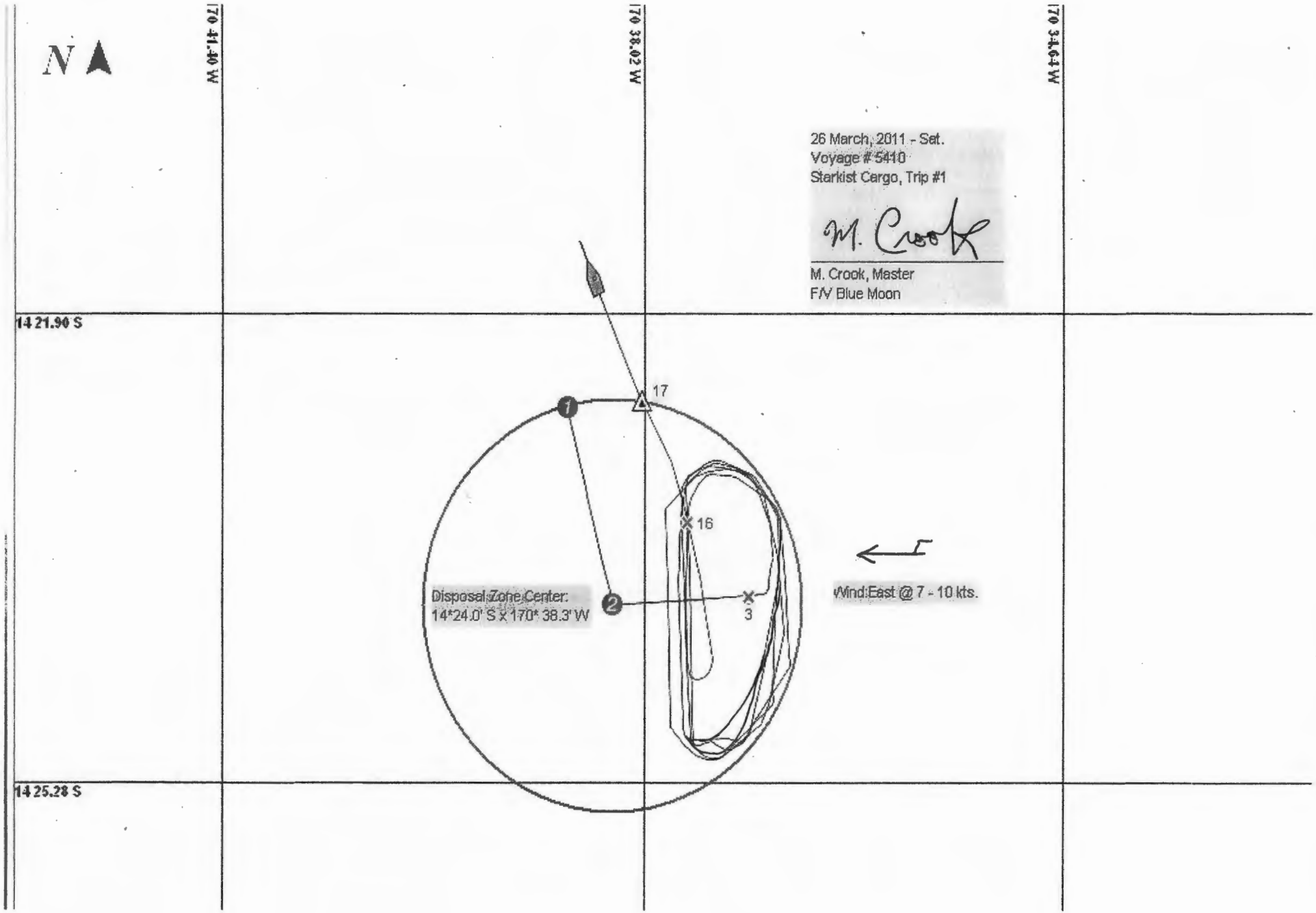
Total Discharge Time: 190 mins. Average Speed During Discharge: 8.96 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 99 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cooper


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
26 March, 2011 - Sat.
Voyage # 5410
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind:East @ 7 - 10 kts.

Date: 03/29/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5411

Permit # OD 93-01 & OD 93-02

	Time	
3/28	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
3/29	0000	Begin 2nd Loading SK
	0200	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East-10	70	29.59			
0602	Arrive Edge of Zone	# 1	14*22.51' S	170*38.68 W	" "	80	29.60	E/SE-1.5	8.7	161
0612	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	East-12	90	"	" "	8.4	163
0620	Begin Discharge	# 3	14*23.94 S	170*37.21 W	East-15	95-Rain	"	" " X	8.3	070
" 35		# 4	14*23.77' S	170*37.29' W		90	"		8.7	183
" 50	Remarks:	# 5	14*24.43' S	170*37.03' W		"	"		8.6	002
0706		# 6	14*22.94' S	170*37.36' W		80			8.4	251
" 20		# 7	14*24.75' S	170*37.34' W		"		5	8.2	054
" 35		# 8	14*23.14' S	170*37.69' W		70			8.5	216
" 50		# 9	14*25.00' S	170*37.56' W		60			8.9	128
0805		# 10	14*23.31' S	170*37.02' W		"			9.1	352
" 20		# 11	14*24.34' S	170*37.81' W		50			9.1	179
" 35		# 12	14*24.09' S	170*36.91' W		40		10	9.0	000
" 50		# 13	14*23.91' S	170*37.79' W		25	29.61		9.4	180
0905		# 14	14*24.59' S	170*37.00' W	East-12		"		9.1	358
" 20		# 15	14*23.31' S	170*37.78' W	" "		"		9.2	181
" 35		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0925	Finish Discharge	#16	14*22.99' S	170*37.71' W	East-12	25%	29.61	E+SE-1.5	9.4	337
0930	Exit Discharge Zone	# 17	14*22.54' S	170*37.88' W					9.5	334
1025	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

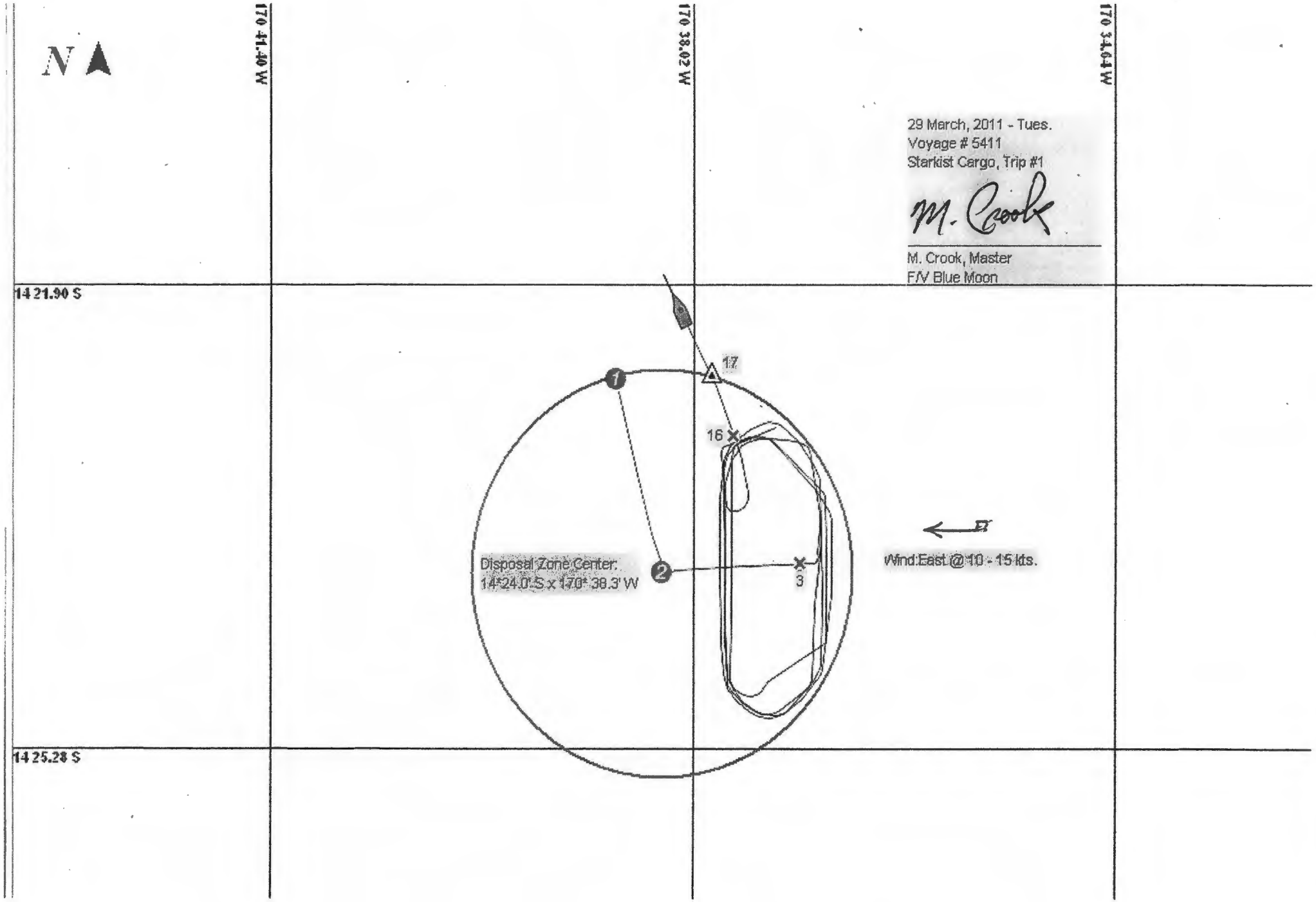
Total Discharge Time: 185 mins. Average Speed During Discharge: 8.85 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? NO

Time and position of any floating material: None Discharge Rate: 112.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooke


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
29 March, 2011 - Tues.
Voyage # 5411
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
1
2
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind:East @ 10 - 15 kts.

Date: 03/31/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5412

Permit # OD 93-01 & OD 93-02

	Time	
3/30	1700	Begin 1st Loading SK
	2150	Finish 1st Loading SK
3/31	0000	Begin 2nd Loading SK
	0215	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	177,000	Gallons
	Other	0	Gallons
	Total	177,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
0510	Depart Starkist		14*16.50' S	170* 41.2' W	East - 3	80%	29.59	Metric	kts	True*
0600	Arrive Edge of Zone	# 1	14*22.50' S	170*38.62' W	East - 10	90	"	SE - 2.0	8.7	163
0610	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.5	160
0618	Begin Discharge	# 3	14*24.01 S	170*37.24 W	" "	"	"	" " X	8.3	090
" 33		# 4	14*23.56' S	170*37.67' W	" "	85	"	" "	8.7	178
" 48	Remarks:	# 5	14*24.52' S	170*36.98' W	" "		29.60		8.4	011
0703		# 6	14*22.83' S	170*37.55' W	" "		"		8.9	282
" 18		# 7	14*24.86' S	170*37.65' W	" "			5	8.7	181
" 33		# 8	14*23.47' S	170*37.00' W	" "				8.8	324
48		# 9	14*23.98' S	170*37.72' W	East - 12	90			9.0	179
0803		# 10	14*24.47' S	170*37.02' W	" "				8.8	005
" 18		# 11	14*23.32' S	170*37.69' W					8.7	215
" 33		# 12	14*24.76' S	170*37.82' W	East - 15	95 - RAIN	29.61	10	9.1	177
" 48		# 13	14*23.49' S	170*36.98' W	" "	95	29.63		9.3	350
0903		# 14	14*24.56' S	170*37.83' W			29.64		9.1	181
" 18		# 15	14*23.95' S	170*36.91' W			"		9.3	000
" 33		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0931	Finish Discharge	#16	14*23.10' S	170*37.75' W	East 15	95%	29.65	SE - 2.0	9.1	216
0937	Exit Discharge Zone	#17	14*22.61 S	170*38.31' W	" "	"	29.66	" "	9.4	337
1205	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

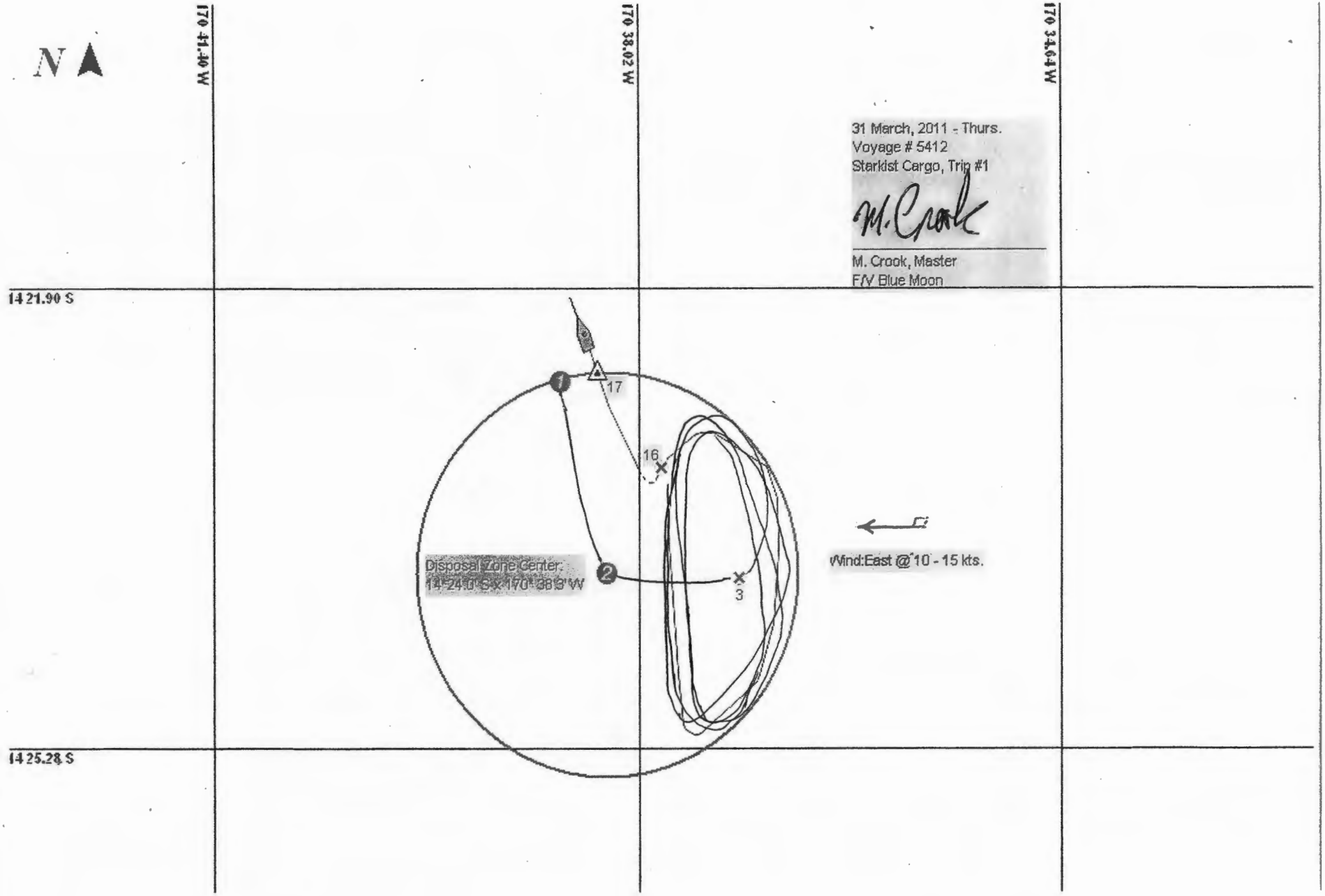
Total Discharge Time: 193 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 6.9 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material None Discharge Rate: 103 Gallons/min/kt.

Unusual Occurrences? None (Fueling 10:30- hrs.)

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
31 March, 2011 - Thurs.
Voyage # 5412
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0'S x 170°38.3'W
Wind:East @ 10 - 15 kts.

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

28 April, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 1013
Pago Pago, AS 96799
30 April 2011

Introduction

On April 28, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0505: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0558: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S x 170*38.7' W.

0608: The *Blue Moon* arrived at the dump-zone center, where observed east winds and slight east to southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0620: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with East & SE swells to 1.5 meters and east winds at 10 knots (kts.) with the barometer reading 29.56. Current set and drift of the ship, by GPS, were to the west at 1.2 knots. No floating materials or sea life were observed here.

0628: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.25 miles long (see Plot 1) until 0943 hrs.

0945: Station One Monitoring (See Plot #1). Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east wind had increased to 15 kts. with cloudy skies. The waste plume was not visibly present here and was only apparent further down-current to the west some distance, (at least 0.5 miles) away.. The current/wind drift of the ship was GPS determined to be westerly @ 1.4 knots. A small shark was seen to follow the water sampler up from the 10 meter drop. No floating or suspended materials were noted here.

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: April 28, 2011	Sea Conditions: Slight w/ East & Southeast swells to 1.5 meters. Wind: East @ 10 - 15 knots Visibility: Good 6 - 10+ miles Barometer: 29.53 - 29.59 Current Set & Drift Rate: West @ average 1.5 knots Sky: Cloudy, 70 - 1000%					
Time	Station	Depth (meters)	Temp. (°C)	pH	Odor	Color
0620	Control	1	28.3	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	28.3	7.3		
		10	28.3	7.3		
0945	Station 1	1	28.9	7.3	None	Same as Control Station.
		3	28.9	7.3		
		10	28.3	7.3		
0955	Station 2	1	28.9	7.3	None	Again, same as Control and Station #1.
		3	28.9	7.3		
		10	28.3	7.3		
1005	Station 3	1	28.9	7.3	Slightly Pungent	Broad area of broken streaks and patches of moderate glassy surface sheen over deep, clear blue. No floating or suspended particulate or other material.
		3	28.9	7.3		
		10	28.9	7.3		
1015	Station 4	1	28.9	7.3	Slightly Pungent	More broken patches of moderate surface sheen along with suspended, fine & light colored suspended particulates, not particularly dense in concentration.
		3	28.9	7.3		
		10	28.9	7.3		
1025	Station 5	1	28.9	7.3	Pungent	Leading edge of the waste plume: Distinct area of an unbroken north to south line of heavy surface sheen along with a fairly dense concentration of floating and suspended, brownish particulate material.
		3	28.9	7.3		
		10	28.9	7.3		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control - C	14° 24.08'	South	170° 37.26'	West
Station 1	14° 24.03'	South	170° 36.87'	West
Station 2	14° 24.06'	South	170° 37.14'	West
Station 3	14° 24.15'	South	170° 37.50'	West
Station 4	14° 24.09'	South	170° 37.82'	West
Station 5	14° 23.99'	South	170° 38.58'	West

170 34.64 W

PLOT #1
Ocean Monitoring Sampling Stations
Control CO and Sampling Stations #1 - #5
28 April, 2011

M. Crock, Investigator

170 38.02 W

170 41.40 W

14 21.90 S

14 25.28 S

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

28 April, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/TH Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 1033
Pago Pago, AS 96799
30 April 2011

Introduction

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0608: The *Blue Moon* arrived at the dump-zone center, where observed east winds and slight east to southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0620: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with East & SE swells to 1.5 meters and east winds at 10 knots (kts.) with the barometer reading 29.56. Current set and drift of the ship, by GPS, were to the west at 1.2 knots. No floating materials or sea life were observed here.

0628: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.25 miles long (see Plot 1) until 0943 hrs.

0945: Station One Monitoring (See Plot #1). Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east wind had increased to 15 kts. with cloudy skies. The waste plume was not visibly present here and was only apparent further down-current to the west some distance, (at least 0.5 miles) away.. The current/wind drift of the ship was GPS determined to be westerly @ 1.4 knots. A small shark was seen to follow the water sampler up from the 10 meter drop. No floating or suspended materials were noted here.

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: April 28, 2011	Sea Conditions: Slight w/ East & Southeast swells to 1.5 meters. Wind: East @ 10 - 15 knots Visibility: Good 6 - 10+ miles Barometer: 29.53 - 29.59 Current Set & Drift Rate: West @ average 1.5 knots Sky: Cloudy, 70 - 1000%					
Time	Station	Depth (meters)	Temp. (°C)	pH	Odor	Color
0620	Control	1	28.3	7.3	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	28.3	7.3		
		10	28.3	7.3		
0945	Station 1	1	28.9	7.3	None	Same as Control Station.
		3	28.9	7.3		
		10	28.3	7.3		
0955	Station 2	1	28.9	7.3	None	Again, same as Control and Station #1.
		3	28.9	7.3		
		10	28.3	7.3		
1005	Station 3	1	28.9	7.3	Slightly Pungent	Broad area of broken streaks and patches of moderate glassy surface sheen over deep, clear blue. No floating or suspended particulate or other material.
		3	28.9	7.3		
		10	28.9	7.3		
1015	Station 4	1	28.9	7.3	Slightly Pungent	More broken patches of moderate surface sheen along with suspended, fine & light colored suspended particulates, not particularly dense in concentration.
		3	28.9	7.3		
		10	28.9	7.3		
1025	Station 5	1	28.9	7.3	Pungent	Leading edge of the waste plume: Distinct area of an unbroken north to south line of heavy surface sheen along with a fairly dense concentration of floating and suspended, brownish particulate material.
		3	28.9	7.3		
		10	28.9	7.3		

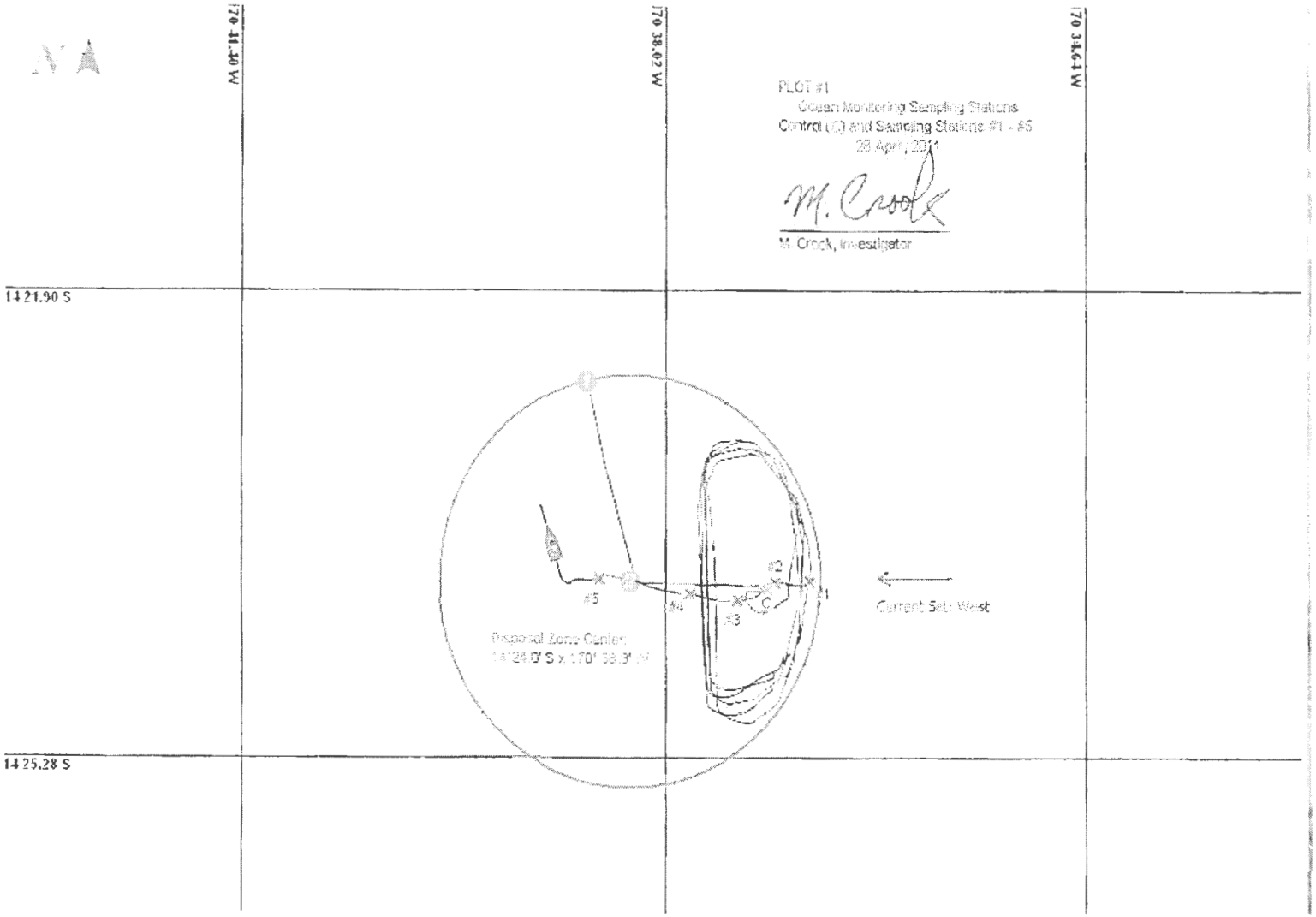
SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control - C	14° 24.08'	South	170° 37.26'	West
Station 1	14° 24.03'	South	170° 36.87'	West
Station 2	14° 24.06'	South	170° 37.14'	West
Station 3	14° 24.15'	South	170° 37.50'	West
Station 4	14° 24.09'	South	170° 37.82'	West
Station 5	14° 23.99'	South	170° 38.58'	West

PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
28 April 2011

M. Crook

M. Crook, Investigator



OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON April, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	10	0	0	**10**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	1,812,000	0	0	**1,812,000**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	1,812,000	**0**

RUNNING TIME ON TRIPS: **55.76 hrs.**

DISCHARGE TIME ON TRIPS: **32.98 hrs.**

AV. GPM DISCHARGE RATE: **103.6 gal/min/kt**

AV. TRIP TIME: **5.57 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER : M. Crook

M. Crook

Date: 04/02/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5413

Permit # OD 93-01 & OD 93-02

	Time	
4/1	1700	Begin 1st Loading SK
	2135	Finish 1st Loading SK
	0000	Begin 2nd Loading SK
4/2	0140	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:

SK	192,500	Gallons
Other	0	Gallons
Total	192,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	VAR-5	100	29.59			
0600	Arrive Edge of Zone	#1	14°22.53' S	170°38.66' W	East-10	"	29.58	E&SE-2.0	8.6	159
0610	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.6	170
0620	Begin Discharge	#3	14°24.00 S	170°37.16 W		"	"	" " X	8.1	070
" 35		#4	14°23.18' S	170°37.52' W		"	"		8.8	180
" 50	Remarks:	#5	14°23.56' S	170°36.10 W		90	29.59		8.5	349
0705		#6	14°24.12' S	170°37.56' W			"		8.7	178
" 20		#7	14°23.64' S	170°36.77 W			29.60	5	8.8	335
" 35		#8	14°24.50' S	170°37.56' W			29.61		9.0	177
" 50		#9	14°23.76 S	170°36.85' W			29.62		8.6	353
0805		#10	14°23.62' S	170°37.72' W			29.64		9.1	176
" 20		#11	14°24.39' S	170°36.92' W			29.65		8.7	001
" 35		#12	14°23.28' S	170°37.62' W			"	10	9.2	181
" 50		#13	14°24.51' S	170°36.90' W		80	"		8.8	009
0905		#14	14°23.27' S	170°37.70' W	East-12	"	"		8.9	187
" 20		#15	14°24.83' S	170°37.11' W	" "	75	29.66		8.6	034
		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0935	Finish Discharge	#16	14°23.11' S	170°37.43' W	East-12	75%	29.67	E&SE-2.0	9.4	293
0940	Exit Discharge Zone	#17	14°22.67' S	170°37.76' W	" "	"	" "	" "	9.4	329
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West (slow) Discharge Pattern Ellipse

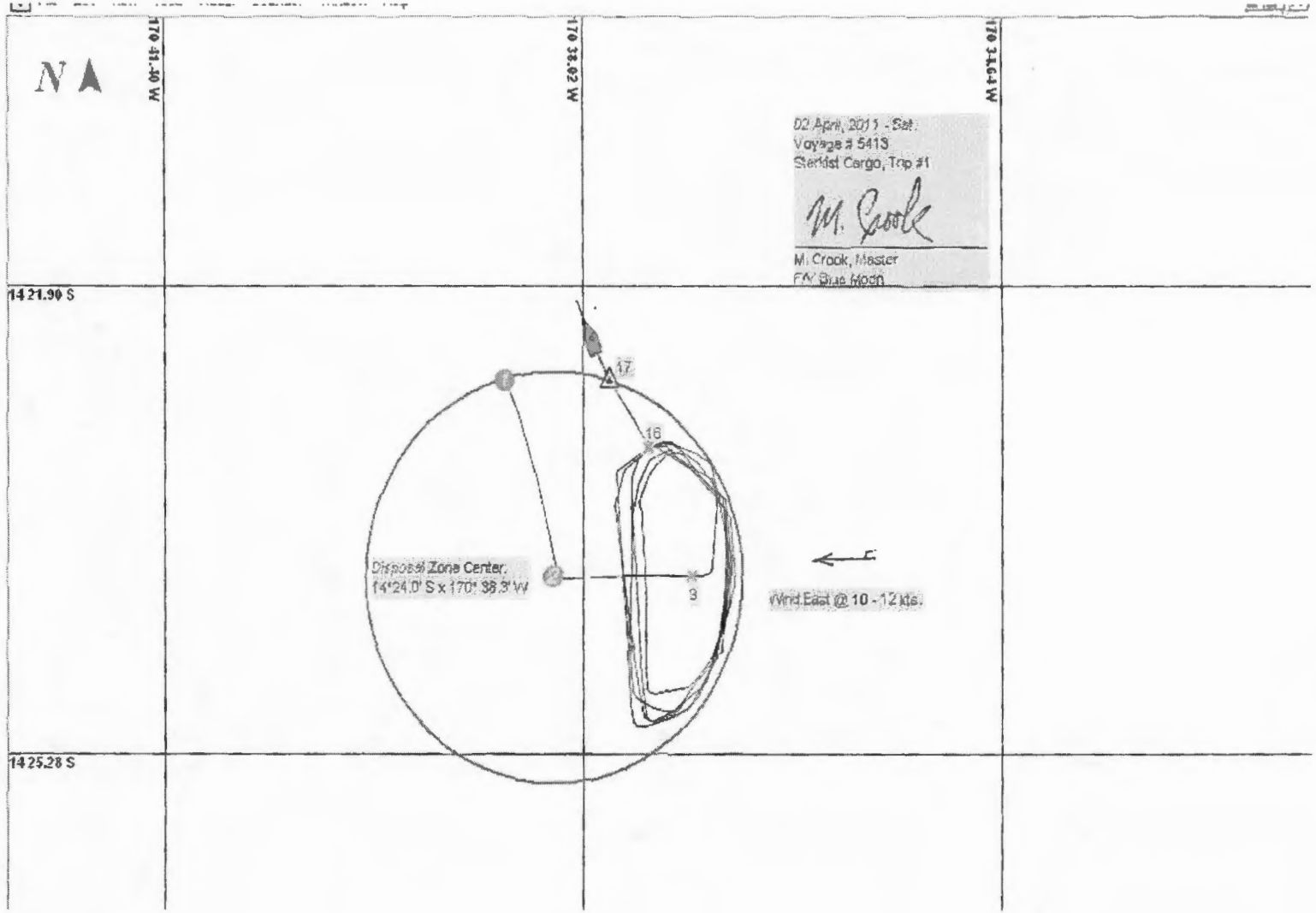
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 36.92 W
170 32.44 W
14 21.90 S
14 25.28 S
02 April, 2011 - Sat.
Voyage # 5413
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind East @ 10 - 12 kts.

D5e

Date: 04/05/11 Tues. F/V Blue Moon Ocean Dumping Log Voyage #: 5414

Permit # OD 93-01 & OD 93-02

	Time	
4/4	1600	Begin 1st Loading SK
	2130	Finish 1st Loading SK
	2245	Begin 2nd Loading SK
	2350	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded: SK 188,750 Gallons; Other 0 Gallons; Total 188,750 Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East-5	60	29.58			
0600	Arrive Edge of Zone	# 1	14°22.57' S	170°38.66' W	East-10	"	29.59	E-SE-1.5	8.6	160
0610	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.5	156
0618	Begin Discharge	# 3	14°23.96' S	170°37.20' W	East-12	50	"	" " X	8.4	090
" 33		# 4	14°23.60' S	170°37.45' W	" "	"	"	" "	8.8	176
" 48	Remarks:	# 5	14°24.31' S	170°36.82' W		"			8.1	080
0703		# 6	14°23.50' S	170°37.63' W	East-15	60			8.6	182
" 18		# 7	14°24.34' S	170°36.85' W		70		5	8.3	006
" 33		# 8	14°23.05' S	170°37.59' W		75			8.7	221
" 48		# 9	14°24.64' S	170°36.90 W		"			8.5	224
0803		# 10	14°23.03' S	170°37.54' W		70			8.5	234
" 18		# 11	14°24.84' S	170°37.25' W		"			8.3	062
" 33		# 12	14°23.10' S	170°37.44' W		65		10	8.9	237
" 48		# 13	14°24.53' S	170°36.93' W		"			9.3	002
0903		# 14	14°23.01' S	170°37.55' W		60	29.60		9.1	194
" 18		# 15	14°24.76' S	170°37.16' W		50	"		8.8	055
" 33		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0933	Finish Discharge	#16	14°23.05' S	170°37.33' W	East-15	30%	29.60	E-SE-1.5	9.2	296
0938	Exit Discharge Zone	#17	14°22.67' S	170°37.76' W	" "	"	"	" "	9.2	323
1030	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

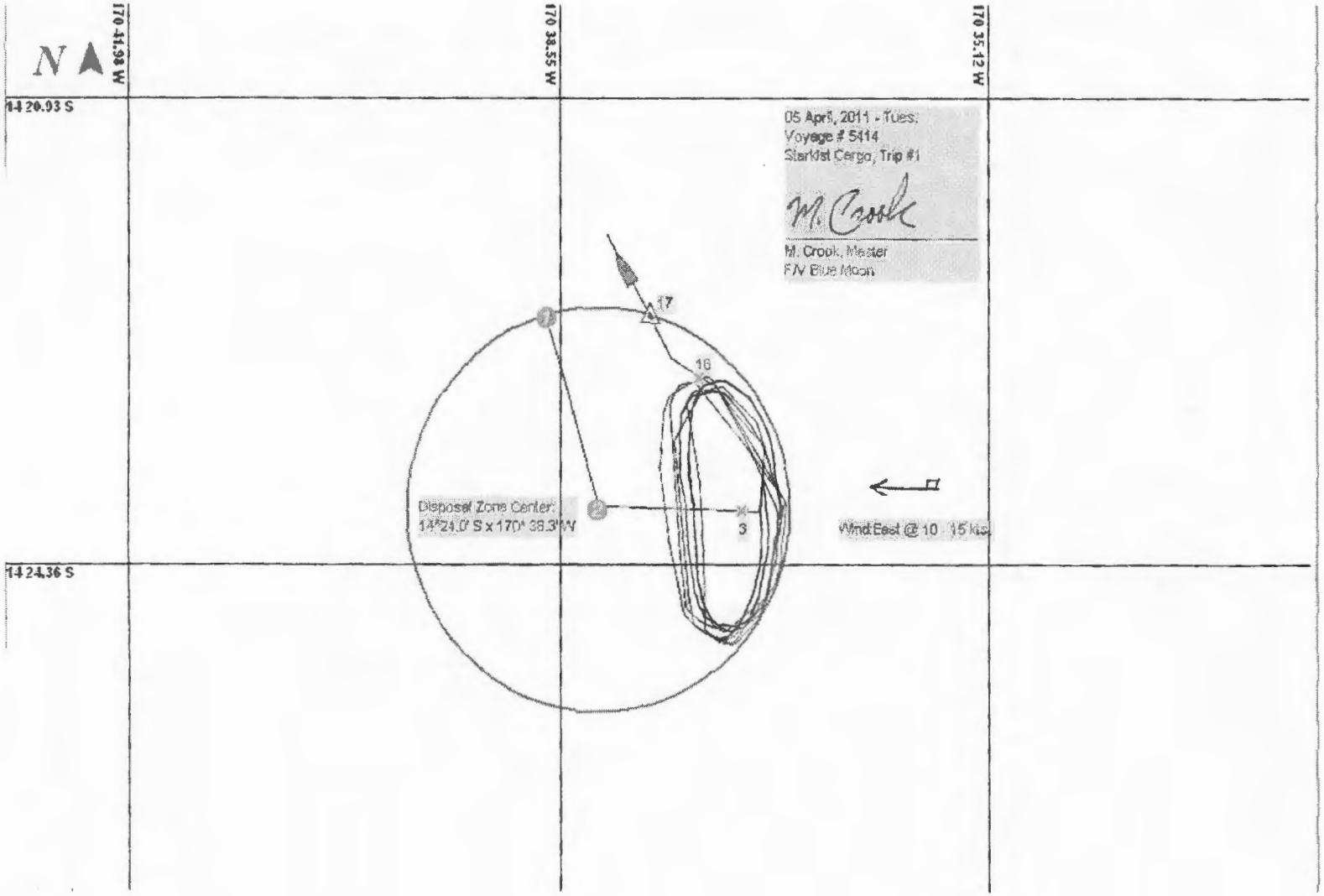
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 111.3 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.98 W
170 38.55 W
170 35.12 W
14 20.93 S
14 24.36 S
05 April, 2011 - Tues.
Voyage # 5414
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind:East @ 10 - 15 kts.

Date: 04/07/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5415

Permit # OD 93-01 & OD 93-02

	Time	
4/6	1550	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	2300	Begin 2nd Loading SK
4/7 →	0930	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	194,250	Gallons
Other	0	Gallons
Total	194,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East-3	80	29.61			
0600	Arrive Edge of Zone	# 1	14°22.59' S	170°38.66' W	East-5	60	"	SE-1.0	8.8	166
0610	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.7	163
0618	Begin Discharge	# 3	14°24.00 S	170°37.23 W	" "	80	29.62	" " X	8.5	090
" 33		# 4	14°23.83' S	170°37.56' W	East-7	90	"	" "	8.8	177
" 48	Remarks:	# 5	14°24.39' S	170°36.93' W	East-10	RAIN-100	"	" "	8.4	010
0703		# 6	14°23.24' S	170°37.70' W	" "	70	29.63	" "	8.2	185
" 18		# 7	14°24.96 S	170°37.28' W	" "	60	"	" " 5	8.5	037
" 33		# 8	14°23.07' S	170°37.30' W	" "	40	"	" "	8.7	294
" 48		# 9	14°24.98' S	170°37.24' W		25	29.62	" "	8.8	042
0803		# 10	14°23.04' S	170°37.21' W		"	29.61	" "	8.6	270
18		# 11	14°24.07' S	170°37.57' W		"	"	" "	9.2	181
" 33		# 12	14°23.60' S	170°36.72' W		30	"	" " 10	8.9	347
" 48		# 13	14°24.75' S	170°37.59' W		"	"	" "	8.6	179
0903		# 14	14°23.18' S	170°37.17' W		40	29.62	" "	9.3	296
" 18		# 15	14°24.65' S	170°37.70' W		"	"		9.5	180
" 33		# 16	14°24.01 S	170°37.04' W			29.63		9.2	352
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0938	Finish Discharge	# 17	14°23.25' S	170°37.21' W	East-10	40%	29.63	SE-1.0	9.3	338
0943	Exit Discharge Zone	# 18	14°22.82' S	170°37.41' W	" "	"	"	" "	9.3	334
1045	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

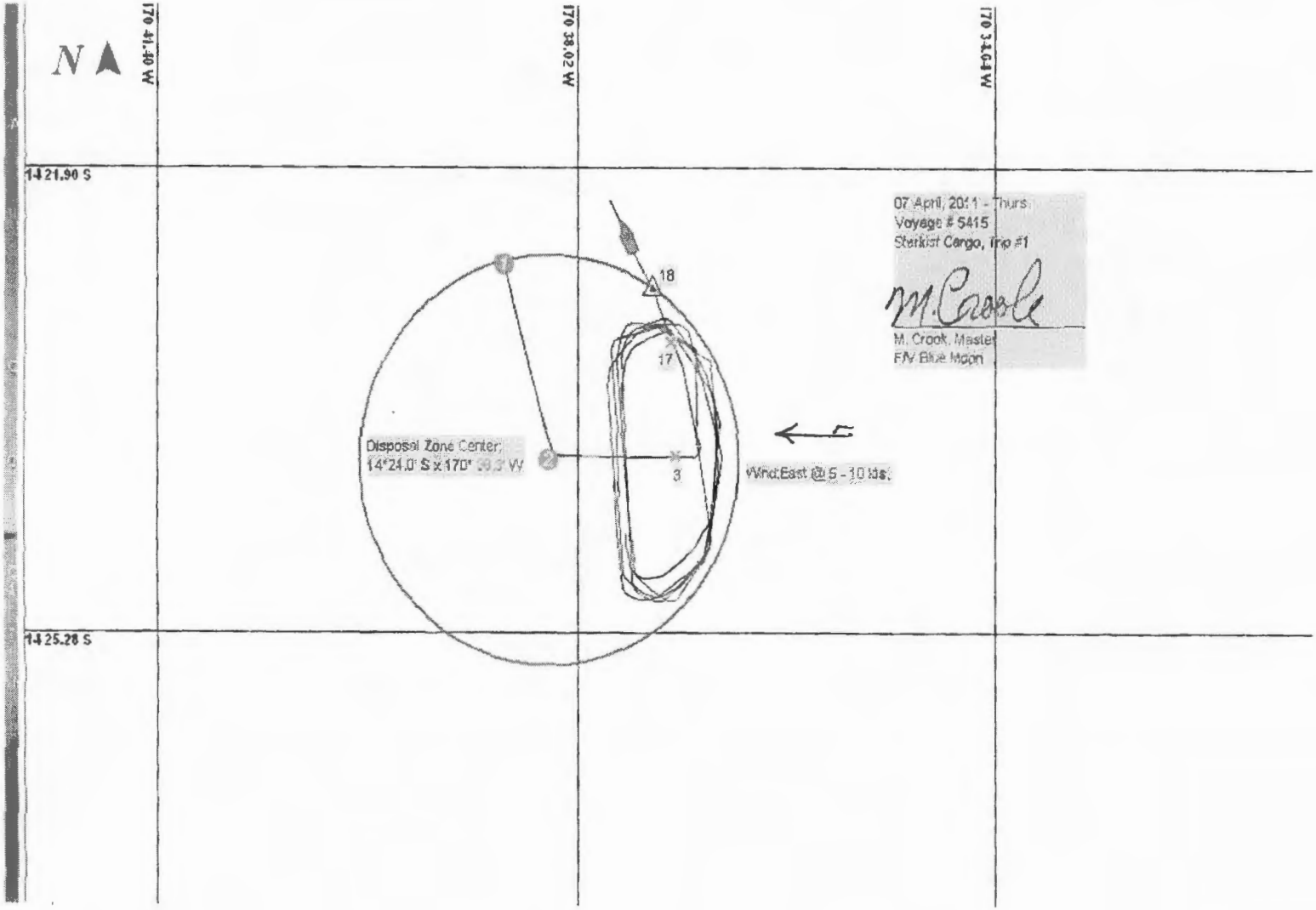
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 109 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
18
17
3
Disposal Zone Center:
14°24.0' S x 170° 39.3' W
Wind:East @ 5 - 10 kts.
07 April, 2011 - Thurs.
Voyage # 5415
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon

Date: 04/09/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5416

Permit # OD 93-01 & OD 93-02

	Time	
4/8	1700	Begin 1st Loading SK
	2100	Finish 1st Loading SK
	0030	Begin 2nd Loading SK
4/9	0300	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	197,500	Gallons
Other	0	Gallons
Total	197,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	90	29.60			
0603	Arrive Edge of Zone	#1	14°22.53' S	170°38.67' W	" "	"	"	E+SE-1.5	8.8	164
0613	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	90-RAIN	"		8.4	169
0620	Begin Discharge	#3	14°24.02' S	170°37.23' W	" "	90	29.61	X	8.2	090
" 35		#4	14°23.36' S	170°37.74' W	East-12	"	"		8.7	176
" 50	Remarks:	#5	14°24.41' S	170°36.88' W	" "	"	29.62		8.5	005
0705		#6	14°23.05' S	170°37.43' W		"			8.5	271
" 20		#7	14°24.80' S	170°37.58' W		80		5	8.9	180
" 35		#8	14°23.08' S	170°37.62' W		70			8.7	263
" 50		#9	14°24.64' S	170°37.65' W	East-15	60			9.1	178
0805		#10	14°23.18' S	170°37.18' W	" "	50	29.61		8.8	307
" 20		#11	14°24.70' S	170°37.66' W	" "		"		9.2	172
" 35		#12	14°23.13' S	170°37.29' W	" "		29.60	10	9.3	302
" 50		#13	14°24.75' S	170°37.68' W	"		"		9.5	179
0905		#14	14°23.27' S	170°37.08' W	" "	40	"		9.2	316
" 20		#15	14°24.72' S	170°37.61' W		"	"		9.4	180
" 35		#16	14°23.36' S	170°37.64' W		30	"		9.2	324
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	#17	14°23.14' S	170°37.66' W	East-15	30%	29.60	E+SE-1.5	9.0	264
0945	Exit Discharge Zone	#18	14°22.60' S	170°38.11' W	" "	"	"	" "	9.3	331
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

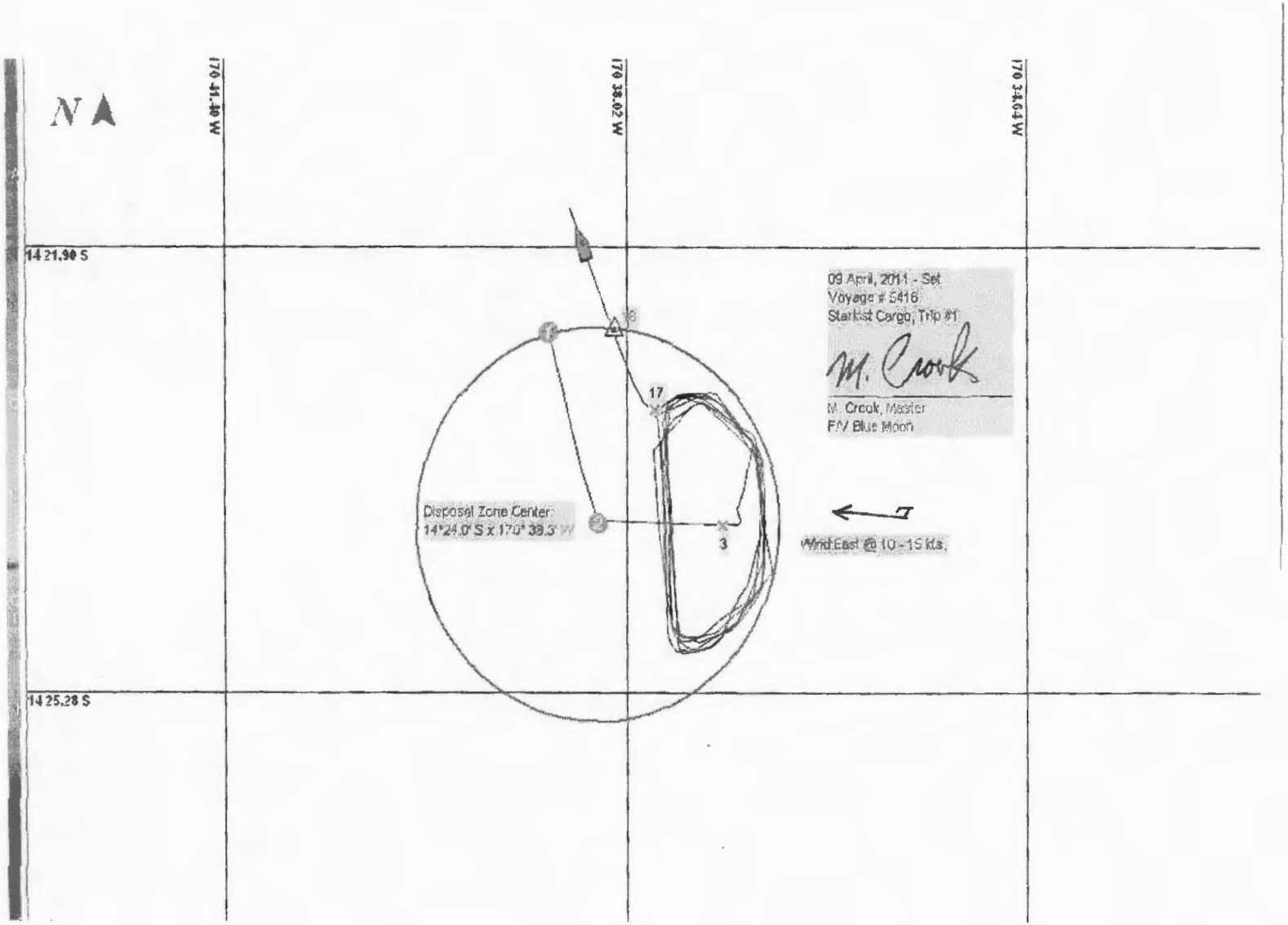
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.95 kts. Total Time Run 5.5 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110.3 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
09 April, 2011 - Set
Voyage # 5416
Starlist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind:East @ 10 - 15 kts.
17
3

Date: 04/19/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5417

Permit # OD 93-01 & OD 93-02

	Time	
4/18	1600	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0410	Begin 2nd Loading SK
4/19	0500	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2 ___

Volume Loaded:

SK	146,750	Gallons
Other	0	Gallons
Total	146,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170°41.2' W	Calm	25%	29.56			
0600	Arrive Edge of Zone	# 1	14°22.52' S	170°38.68' W	"	"	29.57	S+SE-1.5	8.9	164
0610	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	NW-2	"	"	" "	8.7	166
0618	Begin Discharge	# 3	14°24.11' S	170°39.37' W	NW-3	"	"	SE to SW-1.5	8.3	270
" 33		# 4	14°24.42' S	170°38.81' W	" "	30	29.58	SE to SW-1.5	8.5	000
" 48	Remarks:	# 5	14°23.87' S	170°39.53' W	" "				9.1	201
0703		# 6	14°24.92' S	170°38.89' W	" "				8.2	008
" 18		# 7	14°23.28' S	170°39.00' W	NW-2			5	8.8	207
" 33		# 8	14°24.92' S	170°38.94' W	" "				8.7	016
" 48		# 9	14°23.25' S	170°39.23' W	" "				8.5	209
0803		# 10	14°24.94' S	170°39.31' W	" "		29.59		8.8	125
" 18		# 11	14°23.51' S	170°38.72' W	Calm				8.9	337
" 33		# 12	14°24.60' S	170°39.41' W				10	9.5	180
" 48		# 13	14°23.39' S	170°38.72' W		40			9.3	358
0903		# 14	14°24.81 S	170°39.43' W					9.4	184
" 18		# 15	14°23.37 S	170°38.74' W					9.4	349
" 33		# 16	14°24.15 S	170°38.80 W					9.2	000
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0938	Finish Discharge	#17	14°23.39' S	170°38.75' W	Calm	40%	29.59	SE to SW-1.5	9.3	358
0949	Exit Discharge Zone	#18	14°22.68' S	170°38.86' W	"	"	"	" "	9.5	345
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center East End of Discharge Slack Discharge Pattern Ellipse

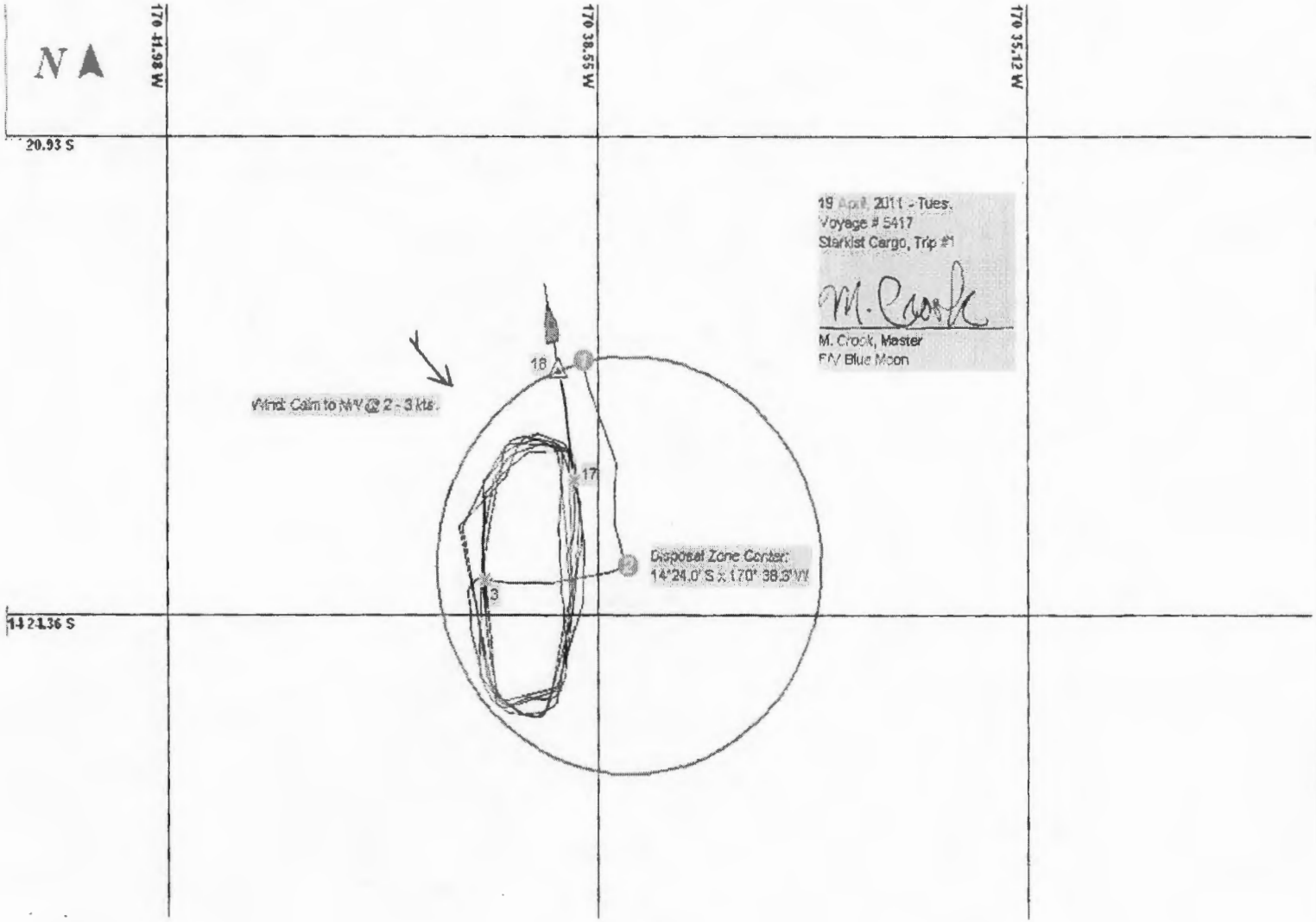
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 82.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.98 W
170 38.55 W
170 35.12 W
20.93 S
14 21.36 S
19 April, 2011 - Tues.
Voyage # 5417
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Wind: Calm to NNY @ 2 - 3 kts.
18
17
13
Disposal Zone Center:
14°24.0' S x 170° 38.3' W

Date: 04/21/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5418

Permit # OD 93-01 & OD 93-02

	Time	
4/20	0245	Begin 1st Loading SK
	0345	Finish 1st Loading SK
	1445	Begin 2nd Loading SK
4/21	2130	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	189,250	Gallons
Other	0	Gallons
Total	189,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	75%	29.59			
0600	Arrive Edge of Zone	# 1	14°22.57' S	170°38.71 W	"	"	"	5/SW-2.0	8.9	162
0610	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	East-3	65	"	" "	8.7	174
0618	Begin Discharge	# 3	14°24.08' S	170°37.29' W	East-5	60	"	" " X	8.7	090
" 33		# 4	14°23.82' S	170°37.55' W	" "	50	29.60	" "	8.5	179
48	Remarks:	# 5	14°23.64' S	170°36.87' W		"			8.7	336
0703		# 6	14°23.34' S	170°37.72' W		40			8.6	184
" 18		# 7	14°24.76' S	170°37.08' W		"		5	8.5	027
" 33		# 8	14°23.24' S	170°37.69' W		30	29.59		8.7	179
" 48		# 9	14°24.73' S	170°37.14' W		"			8.7	022
0803		# 10	14°23.05' S	170°37.69' W		"			8.5	199
" 18		# 11	14°23.59' S	170°37.00' W		"			9.2	341
" 33		# 12	14°22.93' S	170°37.40' W		25		10	8.9	273
" 48		# 13	14°24.96' S	170°37.31' W		"			8.8	041
0903		# 14	14°22.92' S	170°37.61' W		"	29.60		9.1	289
" 18		# 15	14°24.69' S	170°37.54' W	East-3	30			9.3	169
" 33		# 16	14°23.54 S	170°37.06' W	" "	"			9.1	327
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	# 17	14°22.77' S	170°37.38' W	East-3	30%	29.60	5/SW-2.0	9.4	329°
0942	Exit Discharge Zone	# 18	14°22.78' S	170°37.50' W	" "	"	"	" "	9.4	328°
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge Slack Discharge Pattern Ellipse

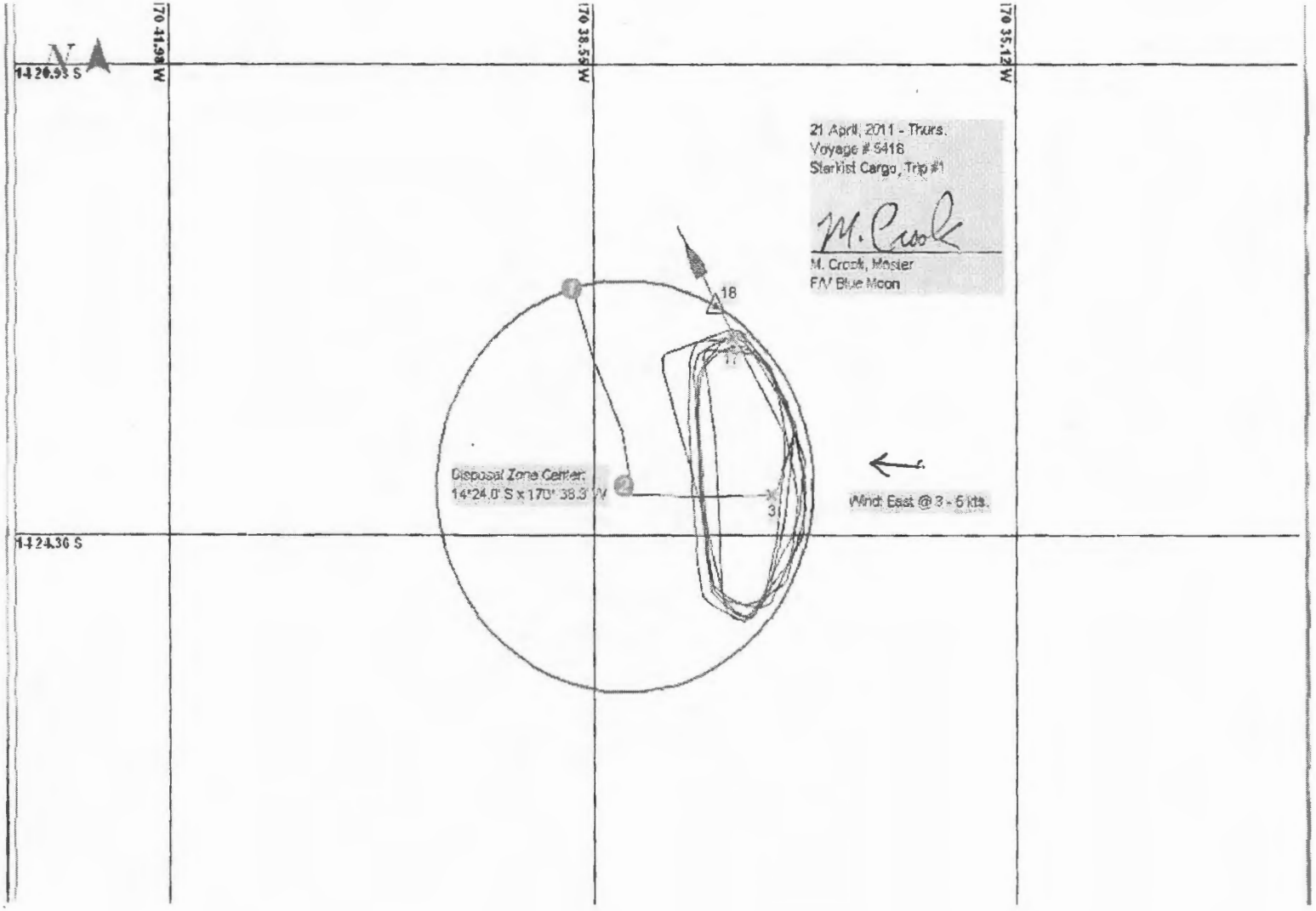
Total Discharge Time: 202 mins. Average Speed During Discharge: 8.86 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 105.7 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooks


N
14 20.93 S
14 24.36 S
170 41.98 W
170 38.58 W
170 35.12 W
21 April, 2011 - Thurs.
Voyage # 5418
Starkist Cargo, Trip #1
M. Crook, Master
FV Blue Moon
18
17
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 3 - 5 kts.

Date: 04/23/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5419

Permit # OD 93-01 & OD 93-02

	Time	
4/22	1500	Begin 1st Loading SK
	2130	Finish 1st Loading SK
		Begin 2nd Loading SK
		Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	162,500	Gallons
Other	0	Gallons
Total	162,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	80	29.59			
0600	Arrive Edge of Zone	# 1	14°22.57' S	170°38.65' W	SE-10	"	"	SE-1.5	8.7	169
0612	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	SE-10	75	"	" "	8.1	162
0620	Begin Discharge	# 3	14°24.55' S	170°37.33 W	" "	"	29.60	" " X	8.0	135
" 35		# 4	14°24.49' S	170°37.38' W	" "	"	"	" "	8.6	224
" 50	Remarks:	# 5	14°24.50' S	170°36.92' W	SE-12	"			9.0	020
0705		# 6	14°24.58' S	170°37.90' W		"			8.7	226
" 20		# 7	14°24.65' S	170°37.01' W		70		5	8.7	011
" 35		# 8	14°24.78' S	170°38.07' W		"	29.61		9.0	229
" 50		# 9	14°24.11' S	170°36.87' W		"			9.1	008
0805		# 10	14°24.95' S	170°37.96' W	SE-15	"			8.9	210
" 20		# 11	14°23.93' S	170°37.15' W	" "	"			9.0	268
" 35		# 12	14°25.32' S	170°38.25' W		60		10	8.8	071
" 50		# 13	14°23.99' S	170°37.19' W		"			9.1	213
0905		# 14	14°25.05' S	170°37.92' W					8.6	070
" 20		# 15	14°24.99' S	170°37.48' W					9.3	218
" 35		# 16	14°24.24' S	170°37.39' W					9.2	024
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	#17	14°23.67' S	170°37.11' W	SE-15	60%	29.61	SE-1.5	9.1	002
0945	Exit Discharge Zone	#18	14°22.93' S	170°37.37' W	" "	"	"	" "	9.4	331
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Ellipse

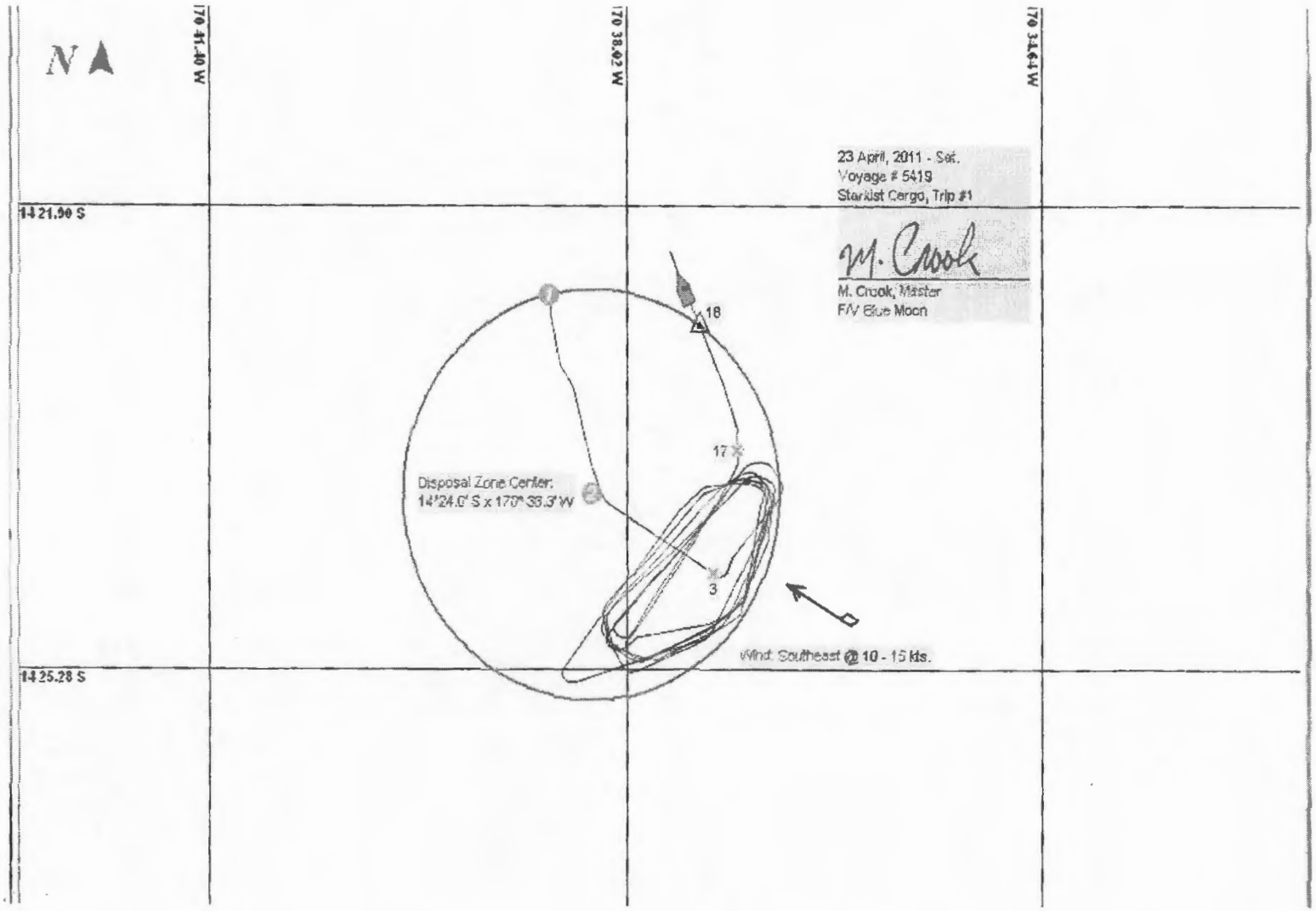
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 91.3 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.92 W
170 34.64 W
14 21.90 S
14 25.28 S
23 April, 2011 - Set.
Voyage # 5419
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
18
17
3
Disposal Zone Center:
14°24.0' S x 170° 39.3' W
Wind: Southeast @ 10 - 15 kts.

Date: 04/26/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5420

Permit # OD 93-01 & OD 93-02

	Time	
4/25	1645	Begin 1st Loading SK
	2130	Finish 1st Loading SK
4/26	0200	Begin 2nd Loading SK
	0930	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:

SK	155,500	Gallons
Other	0	Gallons
Total	155,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East-5	100	29.52			
0605	Arrive Edge of Zone	# 1	14°22.56' S	170°38.65' W	East-7	90	29.53	SE-1.5	8.5	161
0615	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.4	164
0623	Begin Discharge	# 3	14°24.07' S	170°37.23' W	" "	"	"	" " X	8.5	090
" 38		# 4	14°23.80' S	170°37.76' W		"	"		8.3	178
" 53	Remarks:	# 5	14°24.21' S	170°36.96' W		"	29.54		8.7	003
0708		# 6	14°23.19' S	170°37.67' W		"	"		8.1	182
" 23		# 7	14°24.57' S	170°36.98' W		"	"	5	8.2	000
" 38		# 8	14°23.06' S	170°37.12' W		"	29.55		8.5	184
" 53		# 9	14°24.68' S	170°37.23' W		80	"		8.4	063
0808		# 10	14°23.07' S	170°37.18 W		"	29.56		8.1	315
" 23		# 11	14°24.68' S	170°37.60' W		"	"		8.8	179
" 38		# 12	14°23.01' S	170°37.36' W		"	"	10	9.3	277
" 53		# 13	14°24.85' S	170°37.50' W	East-10	"	29.57		8.7	136
0908		# 14	14°23.10' S	170°37.26' W	" "	"	"		9.5	321
" 23		# 15	14°24.42' S	170°37.62 W	" "	90-Rain	29.58		9.0	177
" 38		# 16	14°23.58' S	170°36.98' W	" "	80			9.4	350
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	#17	14°23.20 S	170°37.18' W	East-10	80%	29.58	SE-1.5	9.6	323
0944	Exit Discharge Zone	#18	14°22.81' S	170°37.44' W	" "	"	"	" "	9.6	322
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

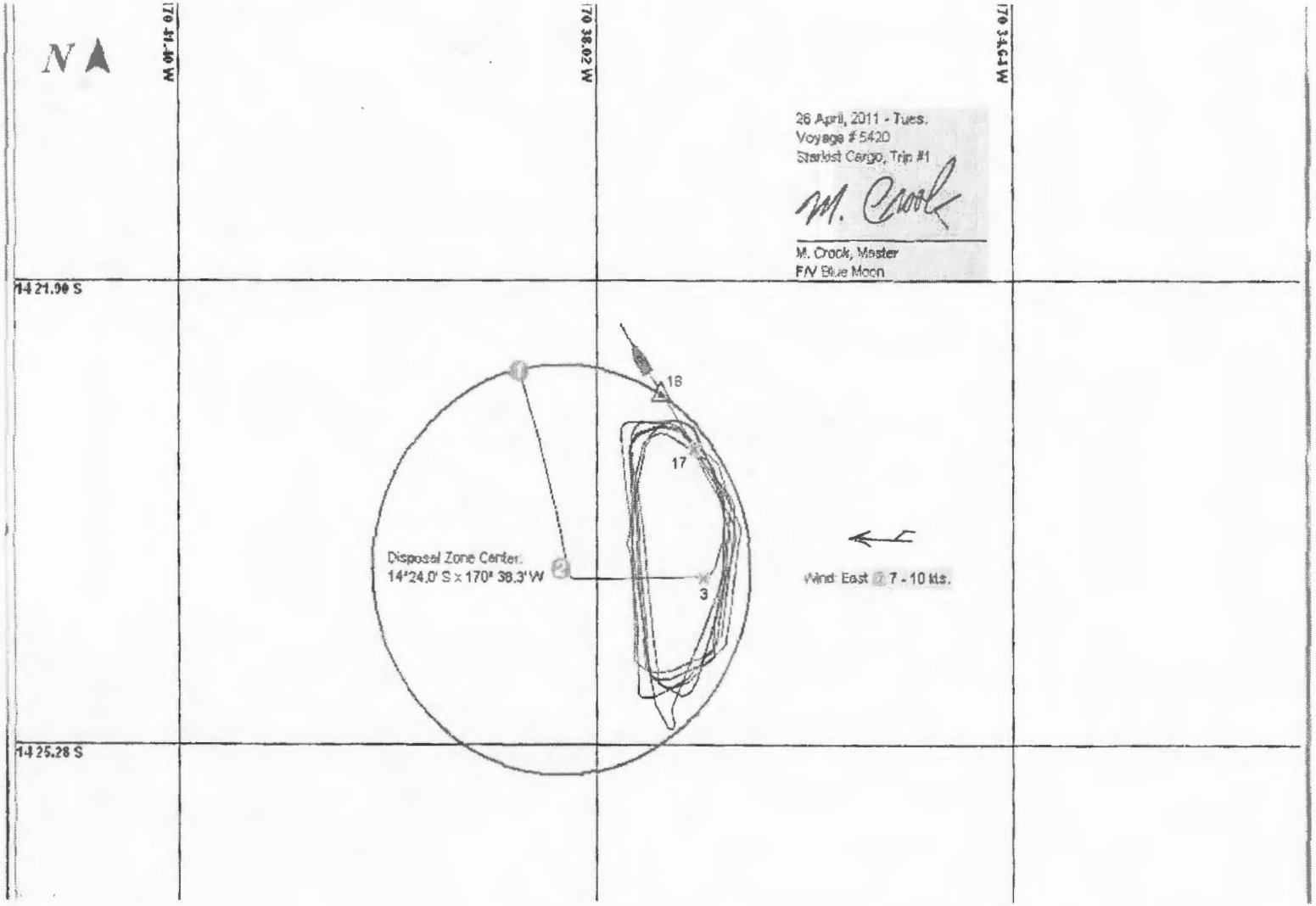
Total Discharge Time: 197 mins. Average Speed During Discharge: 8.83 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 89.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M Cook


N
170 41.40 W
170 38.20 W
170 34.94 W
14 21.90 S
14 25.28 S
26 April, 2011 - Tues.
Voyage # 5420
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
18
17
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 7 - 10 kts.

Date: 04/28/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5421

Permit # OD 93-01 & OD 93-02

	Time	
4/27	1700	Begin 1st Loading SK
	2130	Finish 1st Loading SK
4/28	0005	Begin 2nd Loading SK
	0300	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded: SK 192,500 Gallons; Other 0 Gallons; Total 192,500 Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	90	29.53			
0558	Arrive Edge of Zone	# 1	14°22.55' S	170°38.65' W	" "	100	29.54	E/SE-1.5	8.4	162
0608	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	29.55	" "	8.3	160
0628	Begin Discharge	# 3	14°24.14' S	170°37.36' W	" "	90	29.56	" " X	7.4	142
" 43		# 4	14°23.55' S	170°37.64' W	" "	"	29.57	" "	8.6	175
" 58	Remarks: Ocean	# 5	14°24.68' S	170°37.11' W	East-12	"	"		8.5	012
0713	Monitoring	# 6	14°23.11' S	170°37.66' W	" "	100	29.58		8.5	216
" 28	Control Sample	# 7	14°24.92' S	170°37.30' W	" "	"	"	5	8.3	051
" 43	drawn: 0620 hrs	# 8	14°23.22' S	170°37.71' W			29.59		8.7	183
" 58	@ position 'C':	# 9	14°24.75' S	170°37.28' W					8.9	064
0813	14° 24.08' S x	# 10	14°23.06' S	170°37.45' W					9.2	262
" 28	170° 37.26' W	# 11	14°24.86' S	170°37.31' W	East-15				8.9	083
" 43		# 12	14°23.20' S	170°37.67' W	" "	90		10	9.3	195
" 58		# 13	14°24.68' S	170°37.18' W		"			8.8	057
0913		# 14	14°23.04' S	170°37.62' W		80			8.9	208
" 28		# 15	14°24.75' S	170°37.69' W		"			8.8	076
" 43		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0943	Finish Discharge	#16	14°24.06' S	170°36.89' W	East-15	80%	29.59	E+SE-1.5	8.6	003
1045	Exit Discharge Zone	#17	14°22.84 S	170°39.20 W	" "	"	"	" "	9.3	329
1135	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

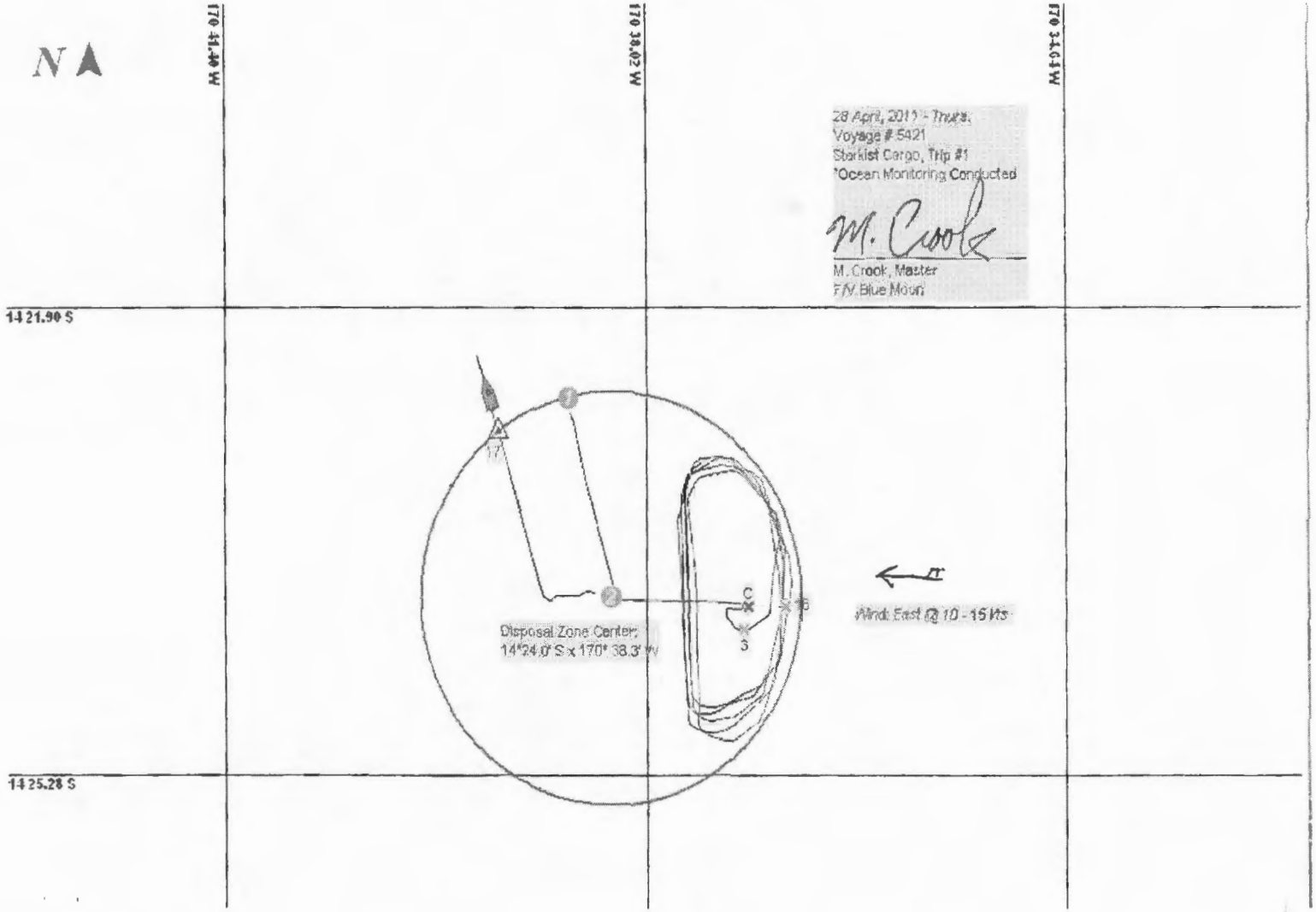
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 6.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113.5 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
28 April, 2011 - Thurs.
Voyage # 5421
Starkist Cargo, Trip #1
*Ocean Monitoring Conducted
M. Crook, Master
F/V Blue Moon
17
C
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 10 - 15 Kts

Date: 04/30/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5422

Permit # OD 93-01 & OD 93-02

	Time	
4/29	1700	Begin 1st Loading SK
	2130	Finish 1st Loading SK
4/30	0000	Begin 2nd Loading SK
	0330	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded: SK 192,500 Gallons; Other 0 Gallons; Total 192,500 Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0705	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	60	29.58			
0755	Arrive Edge of Zone	#1	14°22.53' S	170°38.71 W	East-12	40	"	E+SE-1.5	8.5	164
0805	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.3	165
0815	Begin Discharge	#3	14°23.98' S	170°37.09' W	" "	"	"	" " X	8.1	090
30		#4	14°23.75' S	170°37.71 W	" "	"	"	" "	8.6	178
45	Remarks:	#5	14°24.23' S	170°37.00' W		"			8.4	009
0900		#6	14°23.16' S	170°37.81' W		"			8.3	180
15		#7	14°24.78 S	170°37.35 W		50%		5	8.6	062
30		#8	14°23.03' S	170°37.46' W		"			9.0	273
45		#9	14°24.66' S	170°37.63' W					8.8	121
1000		#10	14°23.07' S	170°37.44' W					9.1	259
15		#11	14°24.67' S	170°37.69' W					8.9	178
30		#12	14°23.11' S	170°37.30' W				10	9.5	294
45		#13	14°24.59' S	170°37.58' W			29.57		9.0	175
1100		#14	14°23.16' S	170°37.33' W			"		9.8	306
15		#15	14°24.61' S	170°37.71' W		40	29.56		9.1	181
30		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
1130	Finish Discharge	#16	14°23.11' S	170°37.25' W	East-12	40%	29.55	E+SE-1.5	9.8	315
1134	Exit Discharge Zone	#17	14°22.70 S	170°37.59' W	" "				9.7	322
1225	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

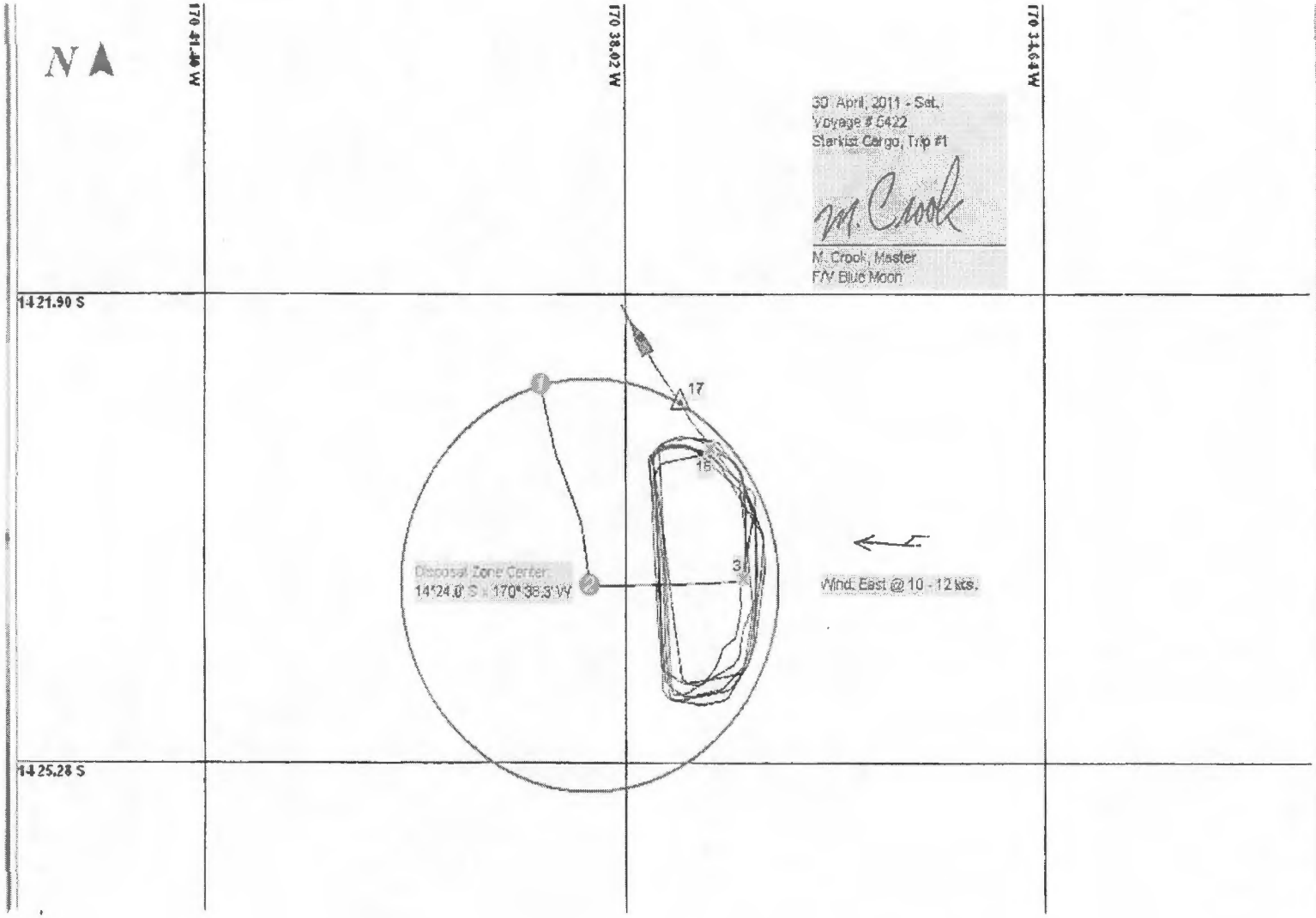
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 111 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
30 April, 2011 - Sat.
Voyage # 6422
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
15
3
Disposal Zone Center:
14°24.0' S - 170°38.3' W
Wind: East @ 10 - 12 kts.

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON April, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	10	0	0	**10**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	1,812,000	0	0	**1,812,000**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	1,812,000	**0**

RUNNING TIME ON TRIPS: **55.76 hrs.**

DISCHARGE TIME ON TRIPS: **32.98 hrs.**

AV. GPM DISCHARGE RATE: **103.6 gal/min/kt**

AV. TRIP TIME: **5.57 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER : M. Crook

M. Crook

Date: 04/02/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5413

Permit # OD 93-01 & OD 93-02

	Time	
4/1	1700	Begin 1st Loading SK
	2135	Finish 1st Loading SK
	0000	Begin 2nd Loading SK
4/2	0140	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:

SK	192,500	Gallons
Other	0	Gallons
Total	192,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	VAR-5	100	29.59			
0600	Arrive Edge of Zone	# 1	14°22.53' S	170°38.66' W	East-10	"	29.58	E+SE-2.0	8.6	159
0610	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.6	170
0620	Begin Discharge	# 3	14°24.00 S	170°37.16 W		"	"	" " X	8.1	090
" 35		# 4	14°23.78' S	170°37.52' W		"	"		8.8	180
" 50	Remarks:	# 5	14°23.56' S	170°36.70 W		90	29.59		8.5	348
0705		# 6	14°24.10' S	170°37.56' W			"		8.7	178
" 20		# 7	14°23.64' S	170°36.77 W			29.60	5	8.8	335
" 35		# 8	14°24.50' S	170°37.56' W			29.61		9.0	177
" 50		# 9	14°23.76 S	170°36.83' W			29.62		8.6	353
0805		# 10	14°23.62' S	170°37.73' W			29.64		9.1	176
" 20		# 11	14°24.39' S	170°36.52' W			29.65		8.7	001
" 35		# 12	14°23.28' S	170°37.62' W			"	10	9.2	181
" 50		# 13	14°24.51' S	170°36.90' W		80	"		8.8	009
0905		# 14	14°23.37' S	170°37.70' W	East-12	"	"		8.7	187
" 20		# 15	14°24.83' S	170°37.11' W	" "	75	29.66		8.6	034
		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0935	Finish Discharge	#16	14°23.11' S	170°37.43' W	East-12	75%	29.67	E+SE-2.0	9.4	293
0940	Exit Discharge Zone	#17	14°22.67' S	170°37.76' W	" "	"	"	" "	9.4	329
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West (slow) Discharge Pattern Ellipse

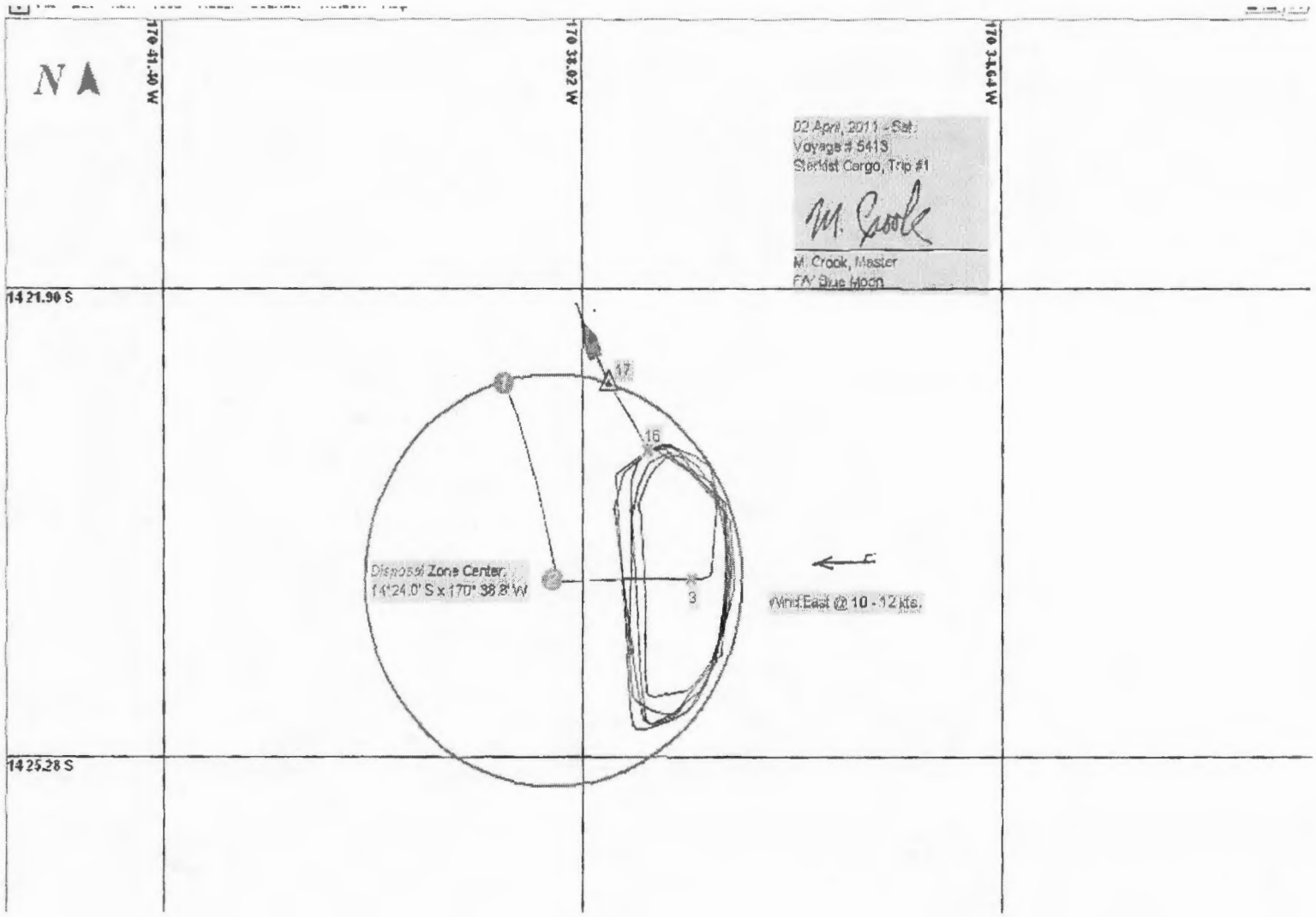
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.50 W
170 36.92 W
170 32.34 W
14 21.90 S
14 25.28 S
02 April, 2011 - Sat
Voyage # 541S
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.8' W
Wind East @ 10 - 12 kts.

D5c

Date: 04/05/11 Tues. — F/V Blue Moon Ocean Dumping Log — Voyage #: 5414

Permit # OD 93-01 & OD 93-02

	Time	
4/4	1600	Begin 1st Loading SK
	2130	Finish 1st Loading SK
	2245	Begin 2nd Loading SK
	2350	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:

SK	188,750	Gallons
Other	0	Gallons
Total	188,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East-5	60	29.58			
0600	Arrive Edge of Zone	#1	14°22.57' S	170°38.66' W	East-10	"	29.59	E-SE-1.5	8.6	160
0610	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.5	156
0618	Begin Discharge	#3	14°23.96' S	170°37.20' W	East-12	50	"	" " X	8.4	090
" 33		#4	14°23.60' S	170°37.45' W	" "	"	"	" "	8.8	176
" 48	Remarks:	#5	14°24.31' S	170°36.82' W		"			8.1	080
0703		#6	14°23.50' S	170°37.65' W	East-15	65			8.6	182
" 18		#7	14°24.34' S	170°36.85' W		70		5	8.3	006
" 33		#8	14°23.05' S	170°37.59' W		75			8.7	221
" 48		#9	14°24.64' S	170°36.90 W		"			8.5	024
0803		#10	14°23.03' S	170°37.54' W		70			8.5	234
" 18		#11	14°24.84' S	170°37.25' W		"			8.3	062
" 33		#12	14°23.10' S	170°37.44' W		65		10	8.7	237
" 48		#13	14°24.53' S	170°36.93' W		"			9.3	002
0903		#14	14°23.01' S	170°37.55' W		60	29.60		9.1	194
" 18		#15	14°24.76' S	170°37.16' W		50	"		8.8	055
" 33		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0933	Finish Discharge	#16	14°23.05' S	170°37.33' W	East-15	30%	29.60	E-SE-1.5	9.2	296
0938	Exit Discharge Zone	#17	14°22.67' S	170°37.76' W	" "	"	"	" "	9.2	323
1030	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

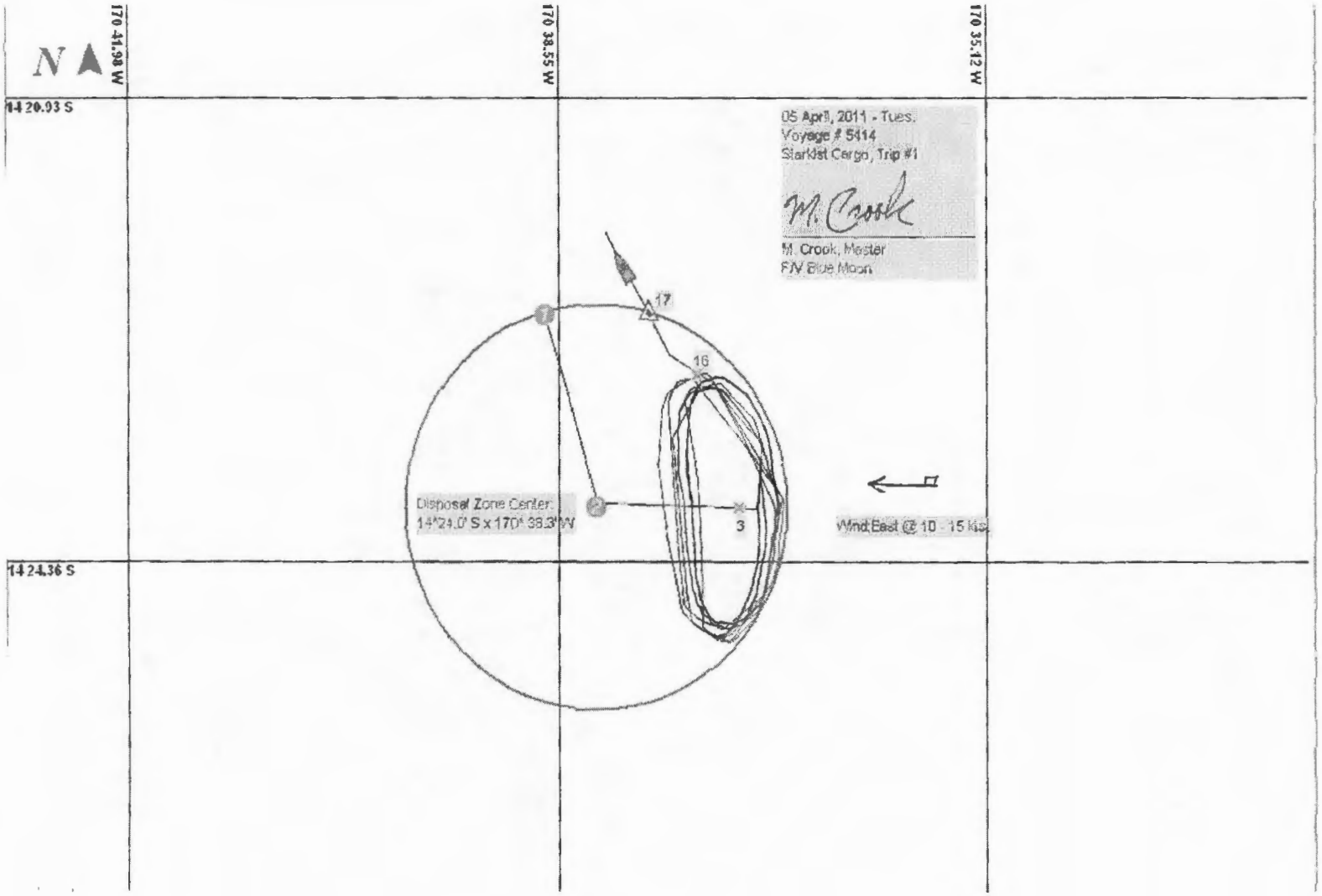
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 111.3 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.98 W
170 38.55 W
170 35.12 W
14 20.93 S
14 24.36 S
05 April, 2011 - Tues.
Voyage # 5414
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
1
2
3
Disposal Zone Center:
14°24.0' S x 170° 38.3'W
Wind:East @ 10 - 15 kts

Date: 04/07/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5415

Permit # OD 93-01 & OD 93-02

	Time	
4/6	1550	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	2300	Begin 2nd Loading SK
4/7 →	0030	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	194,250	Gallons
Other	0	Gallons
Total	194,250	Gallons

Time		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0510	Depart Starkist		14°16.50' S	170°41.2' W	East-3	80	29.61			
0600	Arrive Edge of Zone	# 1	14°22.59' S	170°38.66' W	East-5	60	"	SE-1.0	8.8	166
0610	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.7	163
0618	Begin Discharge	# 3	14°24.00 S	170°37.23 W	" "	80	29.62	" " X	8.5	090
" 33		# 4	14°23.83' S	170°37.56' W	East-7	90	"	" "	8.8	177
" 48	Remarks:	# 5	14°24.39' S	170°36.53' W	East-10	RAIN-100	"	" "	8.4	010
0703		# 6	14°23.24' S	170°37.70' W	" "	70	29.63	" "	8.2	185
" 18		# 7	14°24.96 S	170°37.29' W	" "	60	"	" " 5	8.5	037
" 33		# 8	14°23.07' S	170°37.30' W	" "	40	"	" "	8.7	294
" 48		# 9	14°24.98' S	170°37.24' W		25	29.62	" "	8.8	042
0803		# 10	14°23.04' S	170°37.21' W		"	29.61	" "	8.6	270
18		# 11	14°24.67' S	170°37.57' W		"	"	" "	9.2	181
" 33		# 12	14°23.60' S	170°36.72' W		30	"	" " 10	8.9	347
" 48		# 13	14°24.75' S	170°37.59' W		"	"	" "	9.6	179
0903		# 14	14°23.18' S	170°37.17' W		40	29.62	" "	9.3	296
" 18		# 15	14°24.65' S	170°37.70' W		"	"		9.5	180
" 33		# 16	14°24.01 S	170°37.04' W			29.63		9.2	352
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0938	Finish Discharge	# 17	14°23.25' S	170°37.21' W	East-10	40%	29.63	SE-1.0	9.3	338
0943	Exit Discharge Zone	# 18	14°22.82' S	170°37.41' W	" "	"	"	" "	9.3	334
1045	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center W 2kt End of Discharge W 2kt Discharge Pattern Ellipse

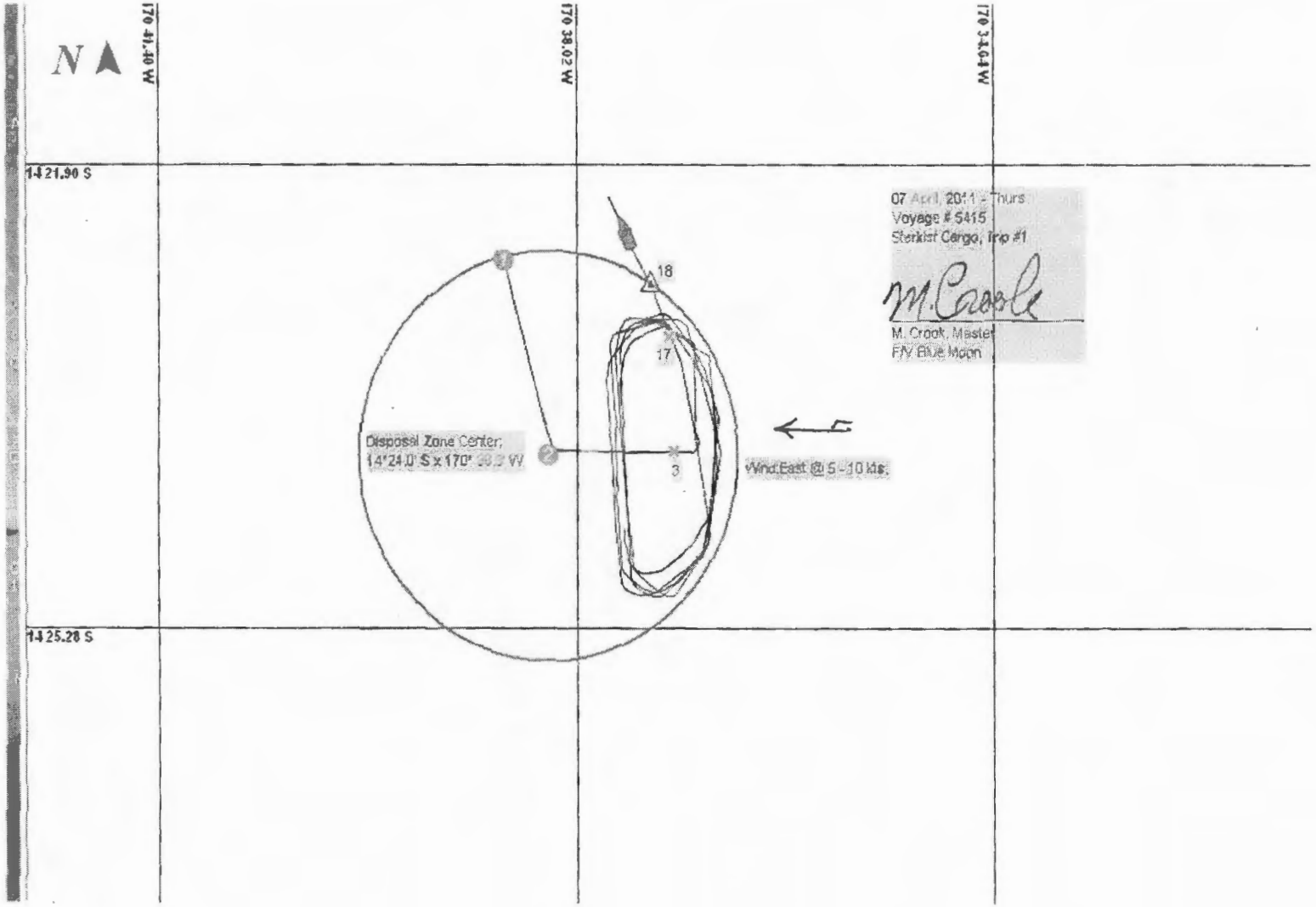
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 109 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
18
17
3
Disposal Zone Center;
14°24.0' S x 170° 38.2' W
Wind:East @ 5 - 10 kts.
07 April, 2011 - Thurs
Voyage # 5415
Sterkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon

Date: 04/09/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5416

Permit # OD 93-01 & OD 93-02

	Time	
4/8	1700	Begin 1st Loading SK
	2100	Finish 1st Loading SK
	0030	Begin 2nd Loading SK
4/9	0300	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	197,500	Gallons
Other	0	Gallons
Total	197,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	90	29.60			
0603	Arrive Edge of Zone	#1	14°22.53' S	170°38.67' W	" "	"	"	E+SE-1.5	8.8	164
0613	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	90-Rain	"		8.4	169
0620	Begin Discharge	#3	14°24.02' S	170°37.23' W	" "	90	29.61	X	8.2	090
" 35		#4	14°23.36' S	170°37.74' W	East-12	"	"		8.7	176
" 50	Remarks:	#5	14°24.41' S	170°36.88' W	" "	"	29.62		8.5	005
0705		#6	14°23.05' S	170°37.43' W		"			8.5	271
" 20		#7	14°24.80' S	170°37.58' W		80		5	8.9	180
" 35		#8	14°23.08' S	170°37.62' W		70			8.7	263
" 50		#9	14°24.64' S	170°37.65' W	East-15	60			9.1	178
0805		#10	14°23.18' S	170°37.18' W	" "	50	29.61		8.8	307
" 20		#11	14°24.70' S	170°37.66' W	" "		"		9.2	172
" 35		#12	14°23.13' S	170°37.29' W	" "		29.60	10	9.3	302
" 50		#13	14°24.75' S	170°37.68' W	"		"		9.5	179
0905		#14	14°23.27' S	170°37.08' W	" "	40	"		9.2	316
" 20		#15	14°24.72' S	170°37.61' W		"	"		9.4	180
" 35		#16	14°23.36' S	170°37.64 W		30	"		9.2	324
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	#17	14°23.14' S	170°37.66' W	East-15	30%	29.60	E+SE-1.5	9.0	264
0945	Exit Discharge Zone	#18	14°22.60' S	170°38.11' W	" "	"	"	" "	9.3	331
1090	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

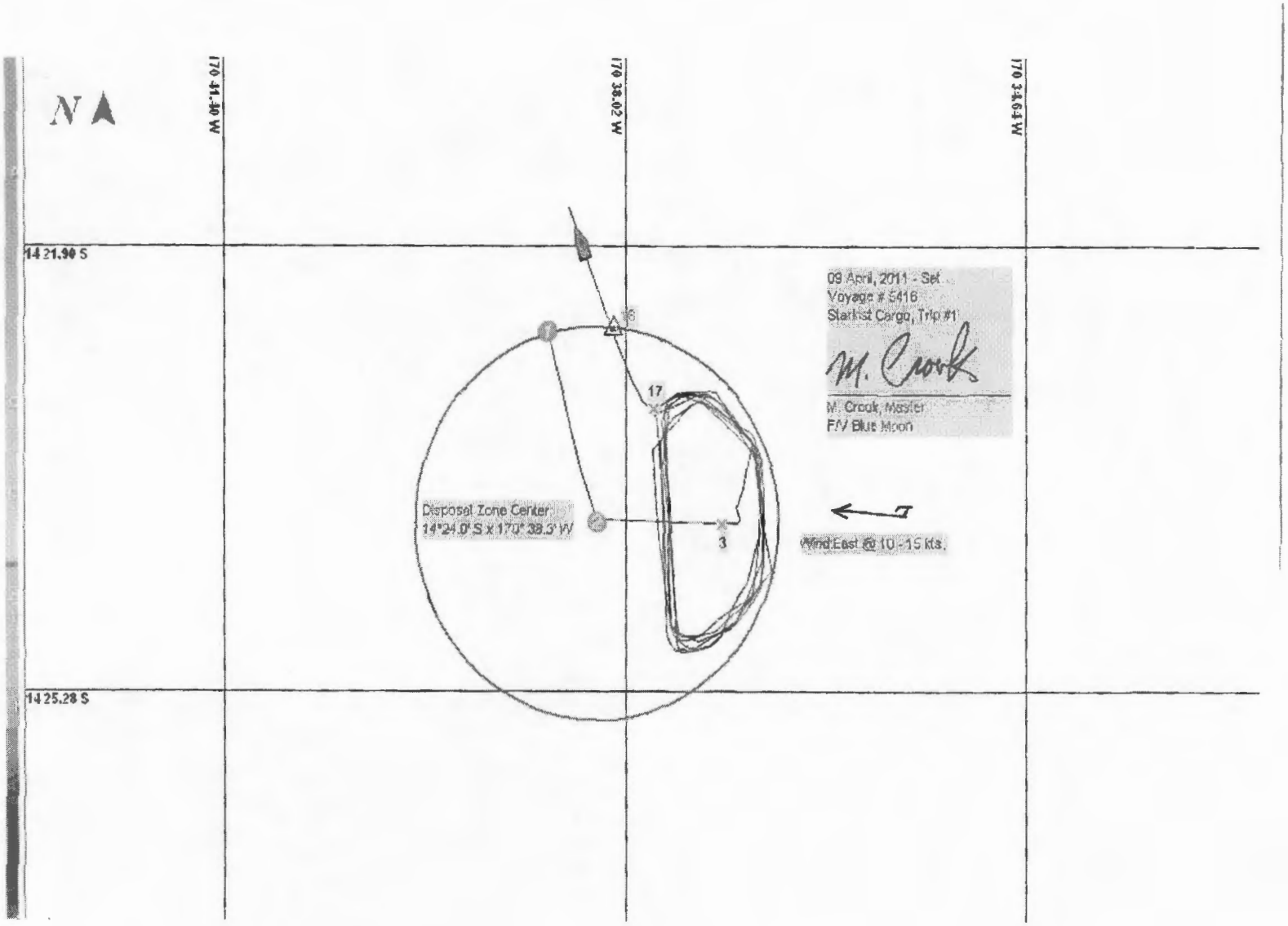
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.95 kts. Total Time Run 5.5 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110.3 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
09 April, 2011 - Set
Voyage # 5416
Starlist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center
14°24.0' S x 170° 38.3' W
Wind:East @ 10 - 15 kts.
17
3

Date: 04/19/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5417

Permit # OD 93-01 & OD 93-02

	Time	
4/18	1600	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0710	Begin 2nd Loading SK
4/19	0500	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:

SK	146,750	Gallons
Other	0	Gallons
Total	146,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170°41.2' W	Calm	25%	29.56			
0600	Arrive Edge of Zone	#1	14°22.52' S	170°38.68' W	"	"	29.57	S+SE-1.5	8.9	164
0610	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	NW-2	"	"	" "	8.7	166
0618	Begin Discharge	#3	14°24.11' S	170°39.37' W	NW-3	"	"	SE to SW-1.5	8.3	270
" 33		#4	14°24.42' S	170°38.81' W	" "	30	29.58	SE to SW-1.5	8.5	000
" 48	Remarks:	#5	14°23.87' S	170°39.53' W	" "				9.1	201
0703		#6	14°24.92' S	170°38.89' W	" "				8.2	008
" 18		#7	14°23.28' S	170°39.00' W	NW-2			5	8.8	207
" 33		#8	14°24.92' S	170°38.94' W	" "				8.7	016
" 48		#9	14°23.25' S	170°39.23' W	" "				8.5	209
0803		#10	14°24.94' S	170°39.31' W	" "		29.59		8.8	125
" 18		#11	14°23.51' S	170°38.72' W	Calm				8.9	337
" 33		#12	14°24.60' S	170°39.41' W				10	9.5	180
" 48		#13	14°23.39' S	170°38.72' W		40			9.3	358
0903		#14	14°24.81 S	170°39.43' W					9.4	184
" 18		#15	14°23.37 S	170°38.74' W					9.4	349
" 33		#16	14°24.15 S	170°38.80 W					9.2	001
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0938	Finish Discharge	#17	14°23.39' S	170°38.75' W	Calm	40%	29.59	SE to SW-1.5	9.3	358
0949	Exit Discharge Zone	#18	14°22.68' S	170°38.86' W	"	"	"	" "	9.5	345
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center East End of Discharge Slack Discharge Pattern Ellipse

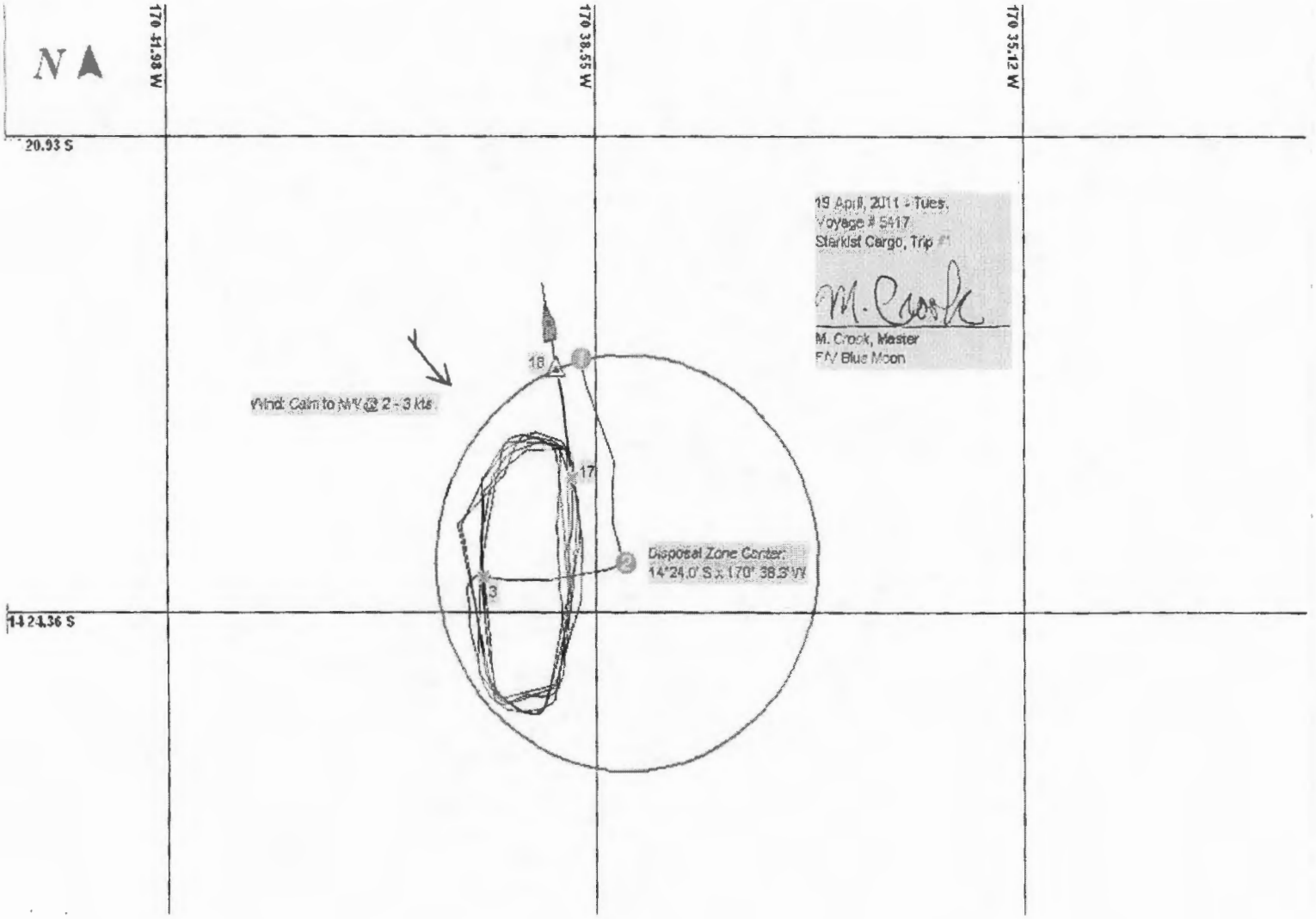
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 82.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crow


N
170 41.98 W
170 38.55 W
170 35.12 W
20.93 S
14 24.36 S
19 April, 2011 - Tues.
Voyage # 5417
Starkist Cargo, Trip #1
M. Crook, Master
FAV Blue Moon
Wind: Calm to NW @ 2 - 3 kts.
18
17
13
Disposal Zone Center:
14°24.0' S x 170° 38.3' W

Date: 04/21/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5418

Permit # OD 93-01 & OD 93-02

	Time	
4/20	0245	Begin 1st Loading SK
	0345	Finish 1st Loading SK
	1445	Begin 2nd Loading SK
4/21	2130	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	189,250	Gallons
Other	0	Gallons
Total	189,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	75%	29.59			
0600	Arrive Edge of Zone	# 1	14°22.57' S	170°38.71 W	"	"	"	5/SW-2.0	8.9	162
0610	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	East-3	65	"	" "	8.7	174
0618	Begin Discharge	# 3	14°24.08' S	170°37.29' W	East-5	60	"	" " X	8.7	090
" 33		# 4	14°23.82' S	170°37.55' W	" "	50	29.60	" "	8.5	179
48	Remarks:	# 5	14°23.64' S	170°36.87' W		"			8.7	336
0703		# 6	14°23.34' S	170°37.72' W		40			8.6	184
" 18		# 7	14°24.76' S	170°37.08' W		"		5	8.5	027
" 33		# 8	14°23.24' S	170°37.69' W		30	29.59		8.7	179
" 48		# 9	14°24.73' S	170°37.14' W		"			8.7	022
0803		# 10	14°23.05' S	170°37.69' W		"			8.5	174
" 18		# 11	14°23.59' S	170°37.00' W		"			9.2	341
" 33		# 12	14°22.93' S	170°37.42' W		25		10	8.9	273
" 48		# 13	14°24.96' S	170°37.31' W		"			8.8	041
0903		# 14	14°22.92' S	170°37.61' W		"	29.60		9.1	284
" 18		# 15	14°24.68' S	170°37.54' W	East-3	30			9.3	169
" 33		# 16	14°23.54' S	170°37.06' W	" "	"			9.1	327
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	# 17	14°22.77' S	170°37.38' W	East-3	30%	29.60	5/SW-2.0	9.4	329°
0942	Exit Discharge Zone	# 18	14°22.78' S	170°37.50' W	" "	"	"	" "	9.4	328°
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge Slack Discharge Pattern Ellipse

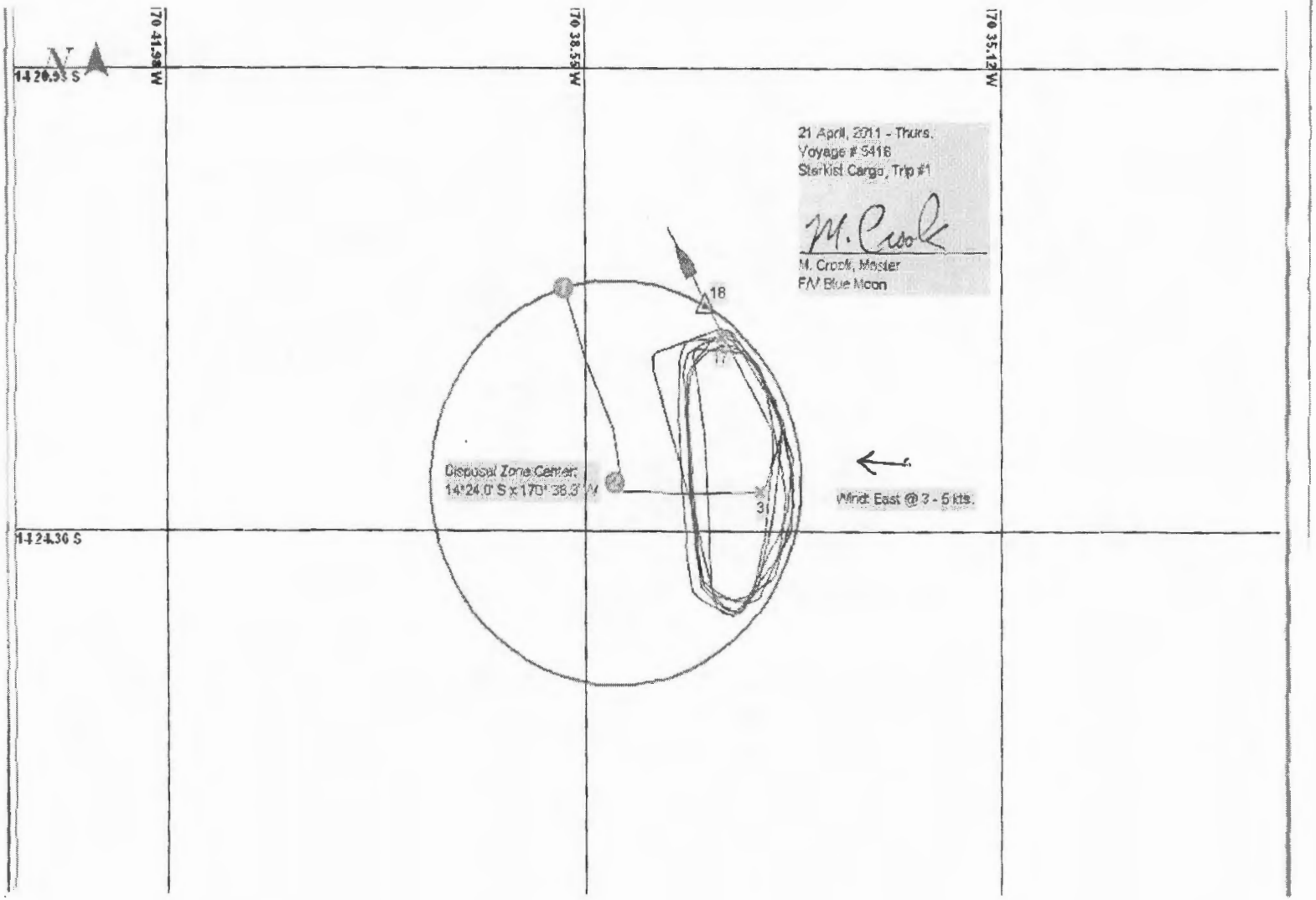
Total Discharge Time: 202 mins. Average Speed During Discharge: 8.86 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 105.7 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


170 41.98 W
170 38.55 W
170 35.12 W
14 20.93 S
14 24.36 S
21 April, 2011 - Thurs.
Voyage # 5418
Starkist Cargo, Trip #1
M. Crook, Master
FM Blue Moon
18
11
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 3 - 5 kts.

Date: 04/23/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5419

Permit # OD 93-01 & OD 93-02

	Time	
4/22	1500	Begin 1st Loading SK
	2130	Finish 1st Loading SK
		Begin 2nd Loading SK
		Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	162,500	Gallons
Other	0	Gallons
Total	162,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	Calm - 10	80	29.59	SE - 1.5	8.7	169
0600	Arrive Edge of Zone	# 1	14°22.57' S	170°38.65' W	SE - 10	"	"		8.1	162
0612	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	SE - 10	75	"	" "	8.1	162
0620	Begin Discharge	# 3	14°24.55' S	170°37.35' W	" "	"	29.60	" " X	8.0	135
" 35		# 4	14°24.49' S	170°37.88' W	" "	"	"	" "	8.6	224
" 50	Remarks:	# 5	14°24.50' S	170°36.92' W	SE - 12	"			9.0	020
0705		# 6	14°24.58' S	170°37.90' W		"			8.7	226
" 20		# 7	14°24.65' S	170°37.01' W		70		5	8.7	011
" 35		# 8	14°24.78' S	170°38.07' W		"	29.61		9.0	229
" 50		# 9	14°24.11' S	170°36.87' W		"			9.1	008
0805		# 10	14°24.95' S	170°37.96' W	SE - 15	"			8.9	210
" 20		# 11	14°23.93' S	170°37.15' W	" "	"			9.0	268
" 35		# 12	14°25.32' S	170°38.25' W		60		10	8.8	071
" 50		# 13	14°23.99' S	170°37.19' W		"			9.1	213
0905		# 14	14°25.05' S	170°37.92' W					8.6	070
" 20		# 15	14°24.28' S	170°37.48' W					9.3	218
" 35		# 16	14°24.24' S	170°37.39' W					9.2	024
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	#17	14°23.67' S	170°37.11' W	SE - 15	60%	29.61	SE - 1.5	9.1	102
0945	Exit Discharge Zone	#18	14°22.93' S	170°37.37' W	" "	"	"	" "	9.4	331
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Ellipse

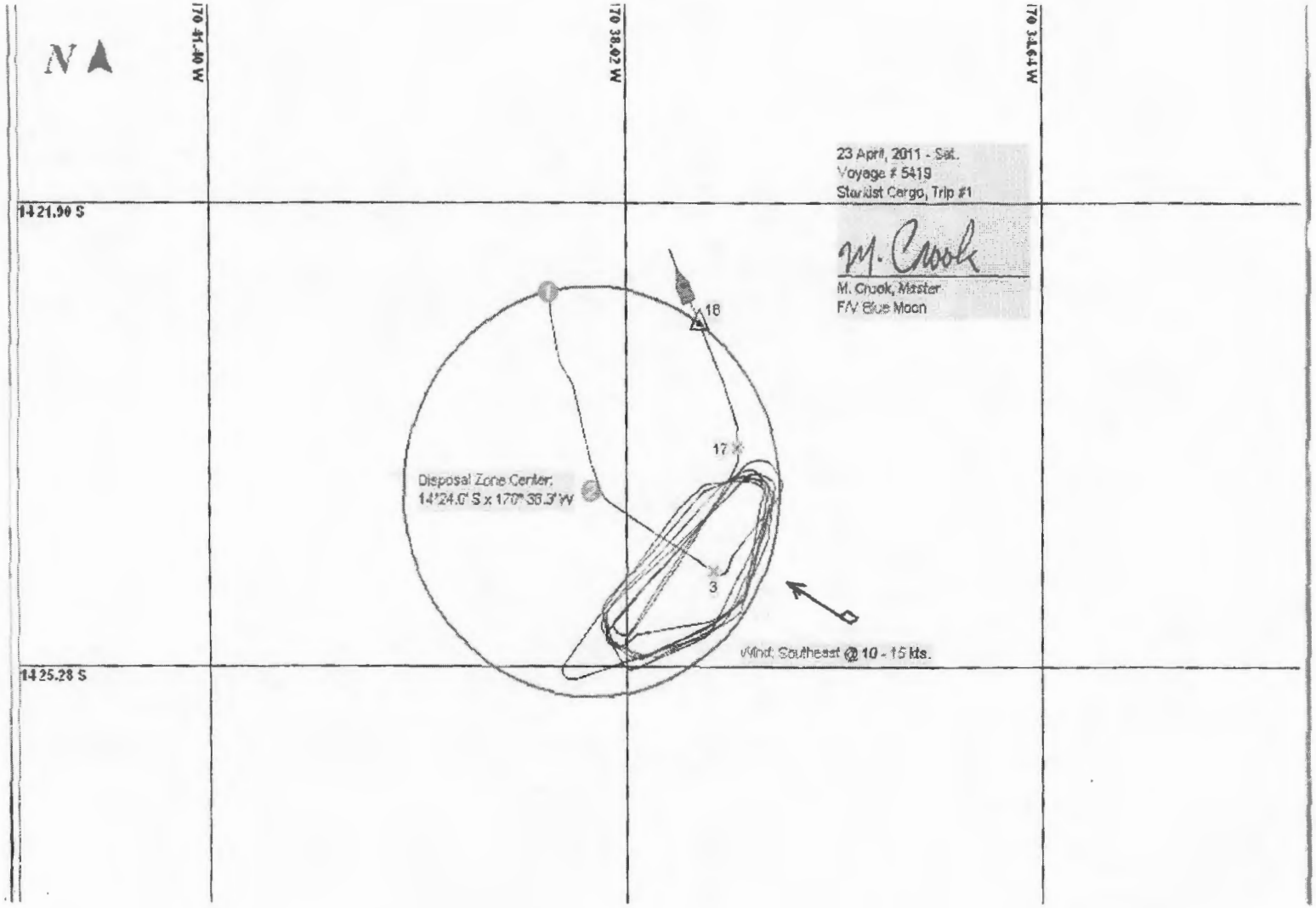
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 91.3 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Clark


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
23 April, 2011 - Sat.
Voyage # 5419
Starkist Cargo, Trip #1
M. Crook, Master
FV Blue Moon
Disposal Zone Center:
14°24.0' S x 170° 36.3' W
1
3
17
18
Wind: Southeast @ 10 - 15 kts.

Date: 04/26/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5420

Permit # OD 93-01 & OD 93-02

	Time	
4/25	1645	Begin 1st Loading SK
	2130	Finish 1st Loading SK
4/26	0200	Begin 2nd Loading SK
	0930	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	155,500	Gallons
	Other	0	Gallons
	Total	155,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East - 5	100	29.52	Metric	kts	True°
0605	Arrive Edge of Zone	# 1	14°22.56' S	170°38.65' W	East - 7	90	29.53	SE - 1.5	8.5	161
0615	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.4	164
0623	Begin Discharge	# 3	14°24.07' S	170°37.23' W	" "	"	"	" " X	8.5	070
" 38		# 4	14°23.80' S	170°37.76' W		"	"		8.3	178
" 53	Remarks:	# 5	14°24.21' S	170°36.96' W		"	29.54		8.7	003
0708		# 6	14°23.19' S	170°37.67' W		"	"		8.1	182
" 23		# 7	14°24.57' S	170°36.98' W		"	"	5	8.2	000
" 38		# 8	14°23.06' S	170°37.72' W		"	29.55		8.5	184
" 53		# 9	14°24.68' S	170°37.23' W		80	"		8.4	063
0808		# 10	14°23.07' S	170°37.18 W		"	29.56		7.1	315
" 23		# 11	14°24.68' S	170°37.60' W		"	"		8.8	179
" 38		# 12	14°23.01' S	170°37.36' W		"	"	10	9.3	277
" 53		# 13	14°24.85' S	170°37.50' W	East - 10	"	29.57		8.7	136
0908		# 14	14°23.10' S	170°37.26' W	" "	"	"		9.5	321
" 23		# 15	14°24.42' S	170°37.62' W	" "	90 - Rain	29.58		9.0	177
" 38		# 16	14°23.58' S	170°36.98' W	" "	80			9.4	350
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	#17	14°23.20 S	170°37.18' W	East - 10	80%	29.58	SE - 1.5	9.6	323
0944	Exit Discharge Zone	#18	14°22.81' S	170°37.44' W	" "	"	"	" "	9.6	322
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

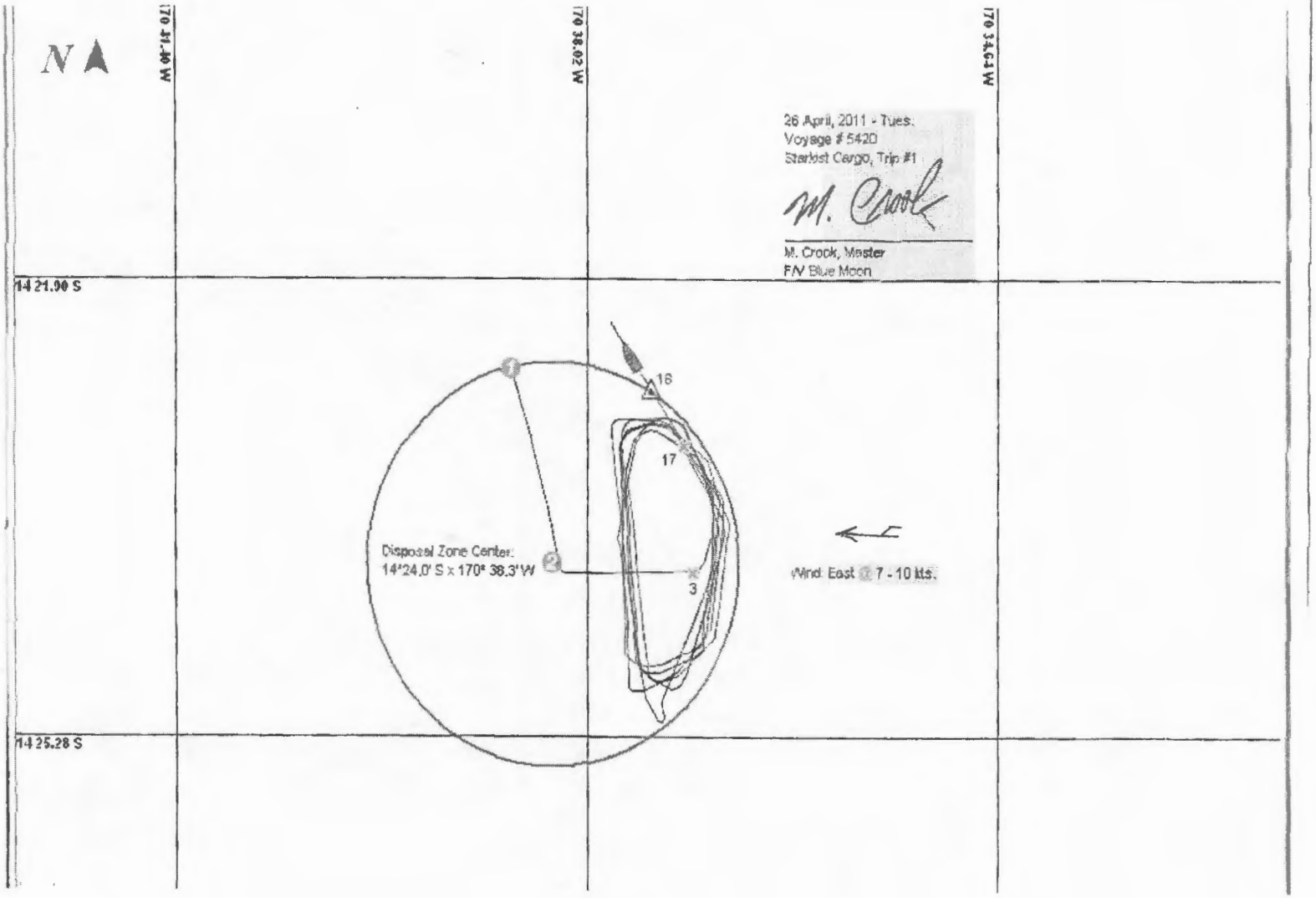
Total Discharge Time: 197 mins. Average Speed During Discharge: 8.83 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 89.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
26 April, 2011 - Tues.
Voyage # 5420
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
14 21.90 S
14 25.28 S
16
17
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 7 - 10 kts.

Date: 04/28/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5421

Permit # OD 93-01 & OD 93-02

	Time	
4/27	1700	Begin 1st Loading SK
	2130	Finish 1st Loading SK
4/28	0005	Begin 2nd Loading SK
	0300	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	192,500	Gallons
Other	0	Gallons
Total	192,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	90	29.53			
0558	Arrive Edge of Zone	# 1	14°22.55' S	170°38.65' W	" "	100	29.54	E/SE-1.5	8.4	162
0608	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	29.55	" "	8.3	160
0628	Begin Discharge	# 3	14°24.14' S	170°37.36' W	" "	90	29.56	" " X	7.4	142
" 43		# 4	14°23.55' S	170°37.64' W	" "	"	29.57	" "	8.6	175
" 58	Remarks: Ocean	# 5	14°24.68 S	170°37.11' W	East-12	"	"		8.5	012
0713	Monitoring	# 6	14°23.11' S	170°37.66' W	" "	100	29.58		8.5	216
" 28	Control Sample	# 7	14°24.92' S	170°37.30' W	" "	"	"	5	8.3	051
" 43	drawn: 0620hrs	# 8	14°23.22' S	170°37.71' W			29.59		8.7	183
" 58	@ position 'C':	# 9	14°24.75' S	170°37.28' W					8.1	064
0813	14° 24.08' S x	# 10	14°23.06' S	170°37.45' W					9.2	262
" 28	170° 37.26' W	# 11	14°24.86' S	170°37.31' W	East-15				8.9	083
" 43		# 12	14°23.20' S	170°37.69' W	" "	90		10	9.3	195
" 58		# 13	14°24.68' S	170°37.18' W		"			8.8	057
0913		# 14	14°23.04' S	170°37.62' W		80			8.9	208
" 28		# 15	14°24.75' S	170°37.69' W		"			8.8	096
" 43		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0993	Finish Discharge	#16	14°24.06' S	170°36.89' W	East-15	80%	29.59	E+SE-1.5	8.6	003
1045	Exit Discharge Zone	#17	14°22.84 S	170°39.20 W	" "	"	"	" "	9.3	329
1135	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

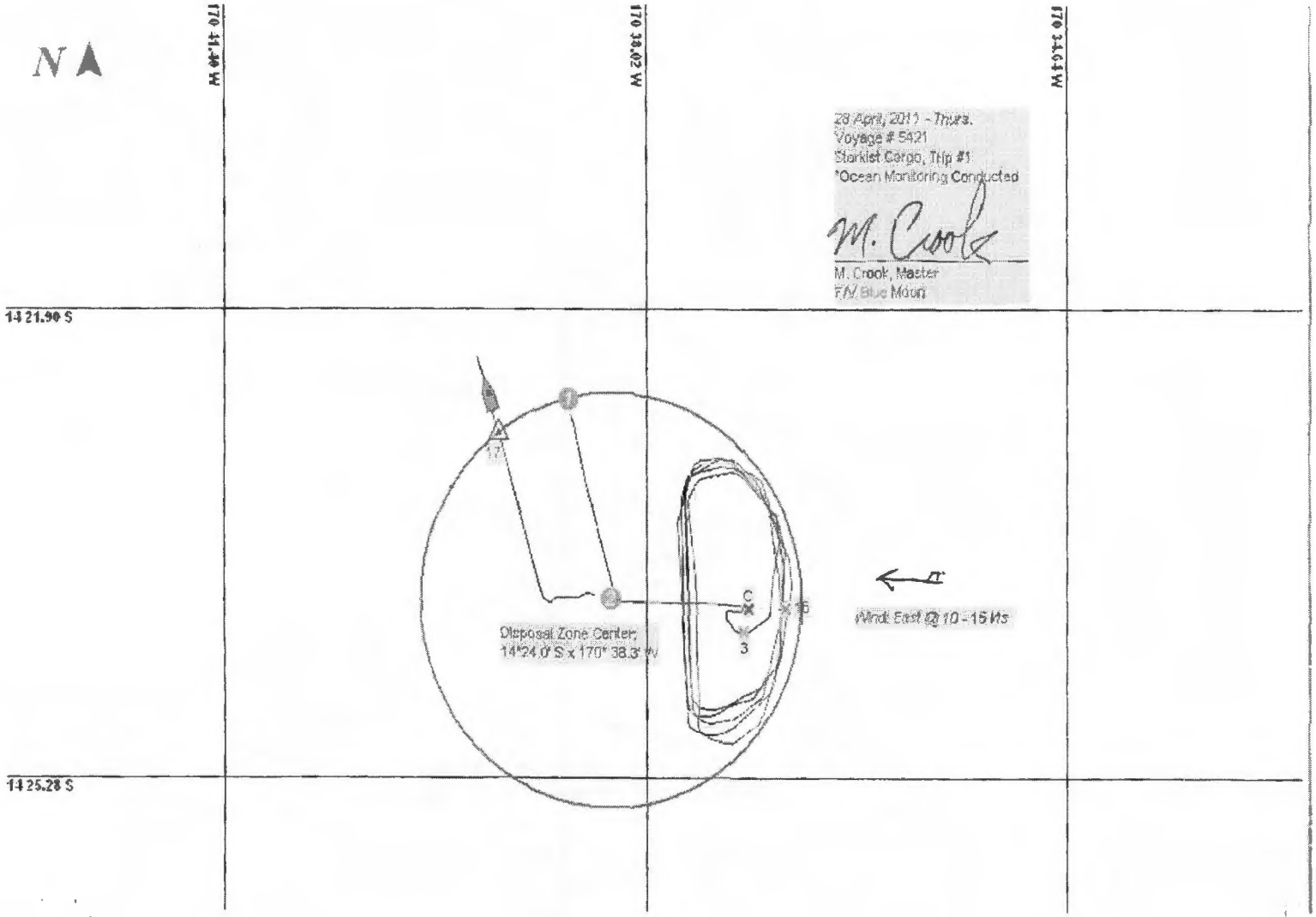
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 6.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113.5 Gallons/min/kt

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
28 April, 2011 - Thurs.
Voyage # 5421
Starkist Cargo, Trip #1
*Ocean Monitoring Conducted
M. Crook, Master
F/V Blue Moon
Disposal Zone Center;
14°24.0' S x 170° 38.3' W
C
3
Wind: East @ 10 - 15 Kts

Date: 04/30/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5422

Permit # OD 93-01 & OD 93-02

	Time	
4/29	1700	Begin 1st Loading SK
	2130	Finish 1st Loading SK
4/30	0000	Begin 2nd Loading SK
	0330	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	192,500	Gallons
Other	0	Gallons
Total	192,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0705	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	60	29.58			
0755	Arrive Edge of Zone	#1	14°22.53' S	170°38.71 W	East-12	40	"	E+SE-1.5	8.5	164
0805	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.3	165
0815	Begin Discharge	#3	14°23.98' S	170°37.09' W	" "	"	"	" " X	8.1	090
30		#4	14°23.75' S	170°37.71 W	" "	"	"	" "	8.6	178
45	Remarks:	#5	14°24.23' S	170°37.00' W		"			8.4	009
0900		#6	14°23.16' S	170°37.81' W		"			8.3	180
15		#7	14°24.78 S	170°37.25 W		50%		5	8.6	062
30		#8	14°23.03' S	170°37.46' W		"			9.0	273
45		#9	14°24.66' S	170°37.63' W					8.8	121
1000		#10	14°23.07' S	170°37.44' W					9.1	259
15		#11	14°24.67' S	170°37.69' W					8.9	178
30		#12	14°23.11' S	170°37.30' W				10	9.5	294
45		#13	14°24.59' S	170°37.58' W			29.57		9.0	175
1100		#14	14°23.16' S	170°37.33' W			"		9.8	306
15		#15	14°24.61' S	170°37.71' W		40	29.56		9.1	181
30		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
1130	Finish Discharge	#16	14°23.11' S	170°37.25' W	East-12	40%	29.55	E+SE-1.5	9.8	315
1134	Exit Discharge Zone	#17	14°22.70 S	170°37.59' W	" "				9.7	322
1225	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

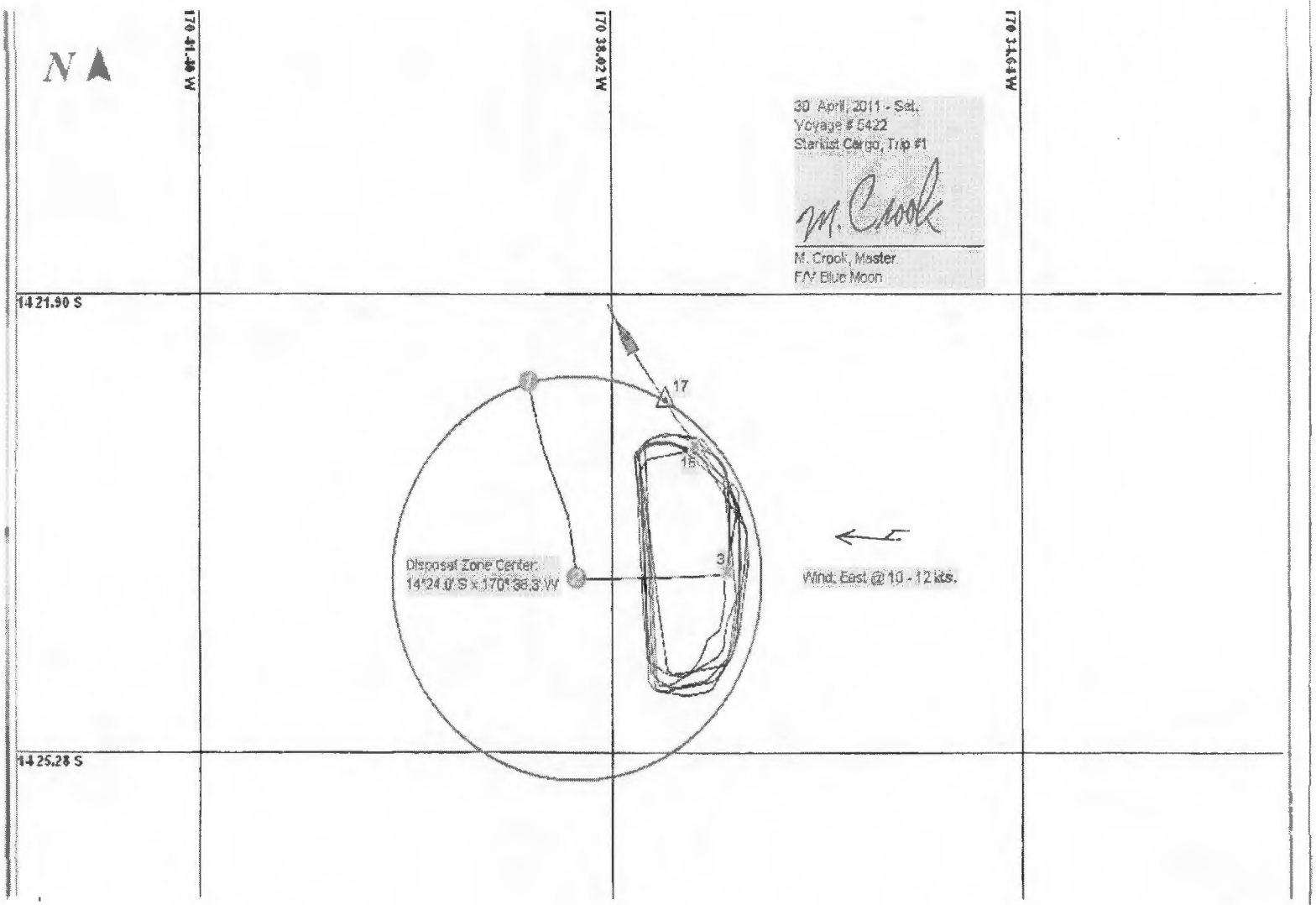
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 111 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
30 April, 2011 - Sat.
Voyage # 5422
Starlist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 36.3' W
Wind: East @ 10 - 12 kts.

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

24 May, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
26 May, 2011

Introduction

On May 24, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0505: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0555: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S x 170*38.7' W.

0605: The *Blue Moon* arrived at the dump-zone center, where observed ESE winds and slight south to southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0615: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with south & SE swells to 1.5 meters and east winds at 10 knots (kts.) with the barometer reading 29.58. Current set and drift of the ship, by GPS, were to the west at 0.7 knots. No floating materials or sea life were observed here.

0623: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.25 miles long (see Plot 1) until 0853 hrs.

0905: Station One Monitoring (See Plot #1). Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east wind had increased to12 kts. with partly cloudy skies. The waste plume, visibly present here as a heavy surface sheen, also had abundant floating and suspended material as described in Table 1. The current/wind drift of the ship was GPS determined to be westerly @ 0.5 knots. No sea-life was observed.

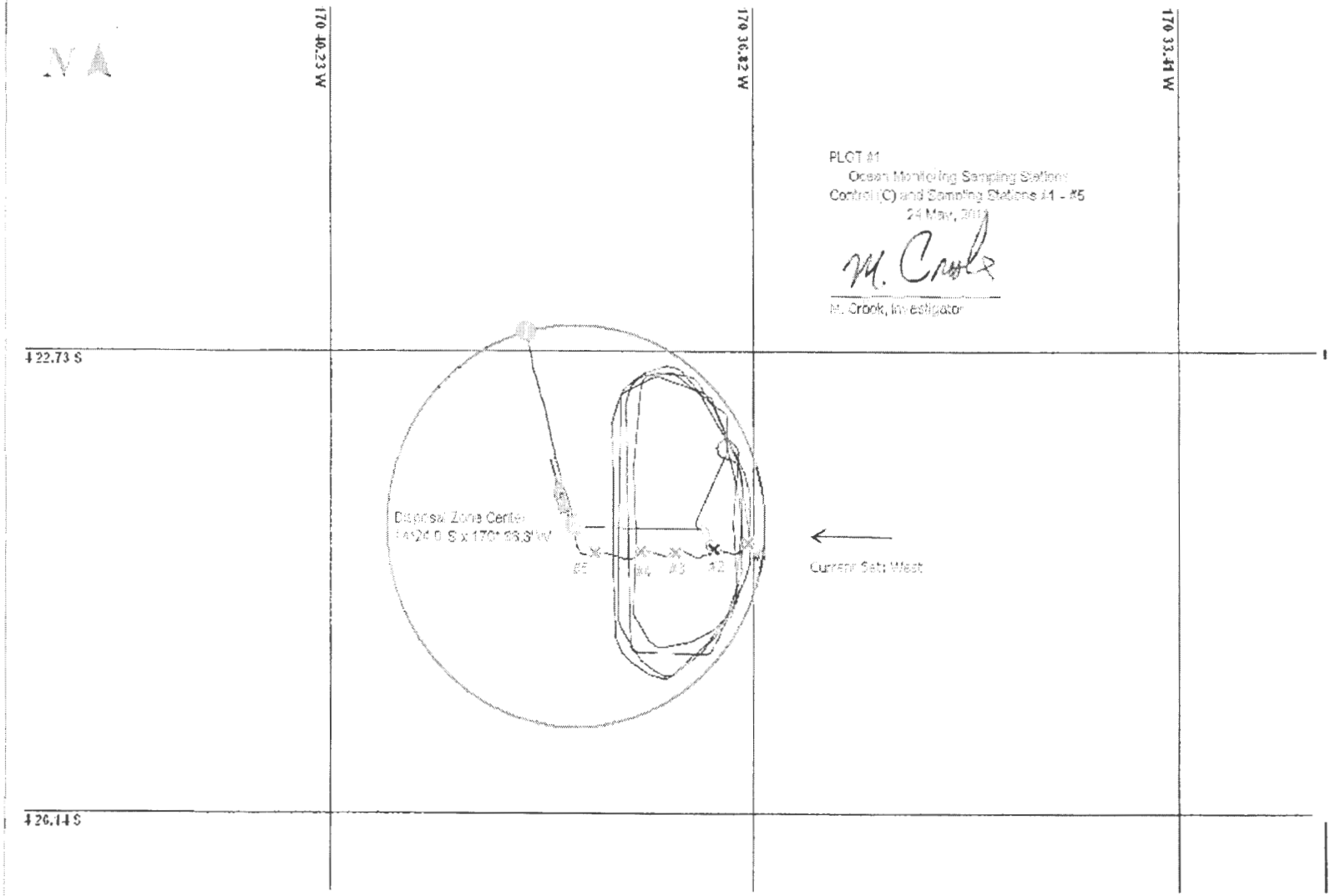
0915: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed a lighter sheen than Station #1 and again, had floating and suspended particulates (See Table #1). The average drift rate of the ship with current and wind was GPS determined here to be westerly (W) at a rate of 0.6 knots between Stations #2 & 3 (See Plot #1). No sea-life was noted at this position.

0925: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position, 0.25 NM down-current (West) of Station #2, showed no sign of the plume's characteristic surface sheen or additional floating / suspended particulate material. Sea & wind conditions remained the same as with the previous two sample stations and the drift rate of the ship between Stations #3 & 4 was 0.5 knots, again, to the west.

0935: Station Four monitoring. This area showed no sign of the typical surface sheen but did have a sparse concentration of fine, light gray colored floating and suspended particulate material. The westerly current/drift rate of the ship was again noted here to be at 0.5 knots. No sea-life was observed.

1025: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.28 NM southeast of the zone center (See Plot #1). The leading edge of the waste plume was not distinctive at this location but showed only a few broken streaks of slightly glassy surface sheen with clear, natural appearing blue waters further down-current to the west. No additional floating and suspended particulate material was visible. The final drift rate of the ship was noted to be westerly at 0.5 knots. Other than a few random seabirds flying, no significant sea life was observed at this position or any of the previous stations. The final barometer reading was 29.60 when monitoring activities were concluded at 0950 hrs. The *Blue Moon* exited the disposal zone at 1000 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1050 hours.

Prepared by M. Crook
Mike Crook,
Principal Investigator


N
170 40.23 W
170 36.82 W
170 33.41 W
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
24 May, 2011
M. Crook
M. Crook, Investigator
4 22.73 S
Disposal Zone Center
#5
#4
#3
#2
Current Set: West
4 26.14 S

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

24 May, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
26 May, 2011

Introduction

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0555: The *Blue Moon* entered the dumpzone circle @ 14*22.6' S x 170*38.7' W.

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0615: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were slight with south & SE swells to 1.5 meters and east winds at 10 knots (kts.) with the barometer reading 29.58. Current set and drift of the ship, by GPS, were to the west at 0.7 knots. No floating materials or sea life were observed here.

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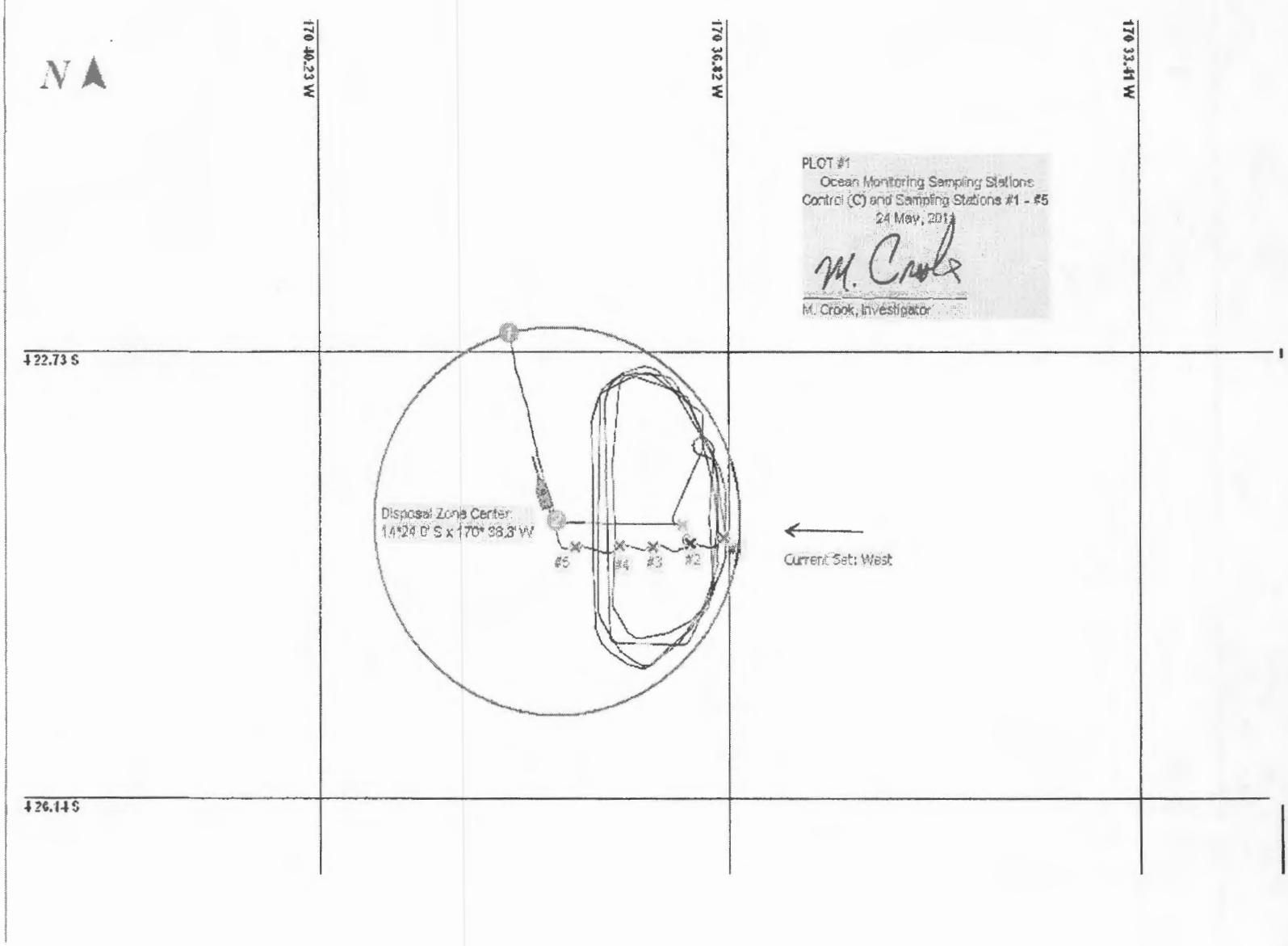
1025: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.28 NM southeast of the zone center (See Plot #1). The leading edge of the waste plume was not distinctive at this location but showed only a few broken streaks of slightly glassy surface sheen with clear, natural appearing blue waters further down-current to the west. No additional floating and suspended particulate material was visible. The final drift rate of the ship was noted to be westerly at 0.5 knots. Other than a few random seabirds flying, no significant sea life was observed at this position or any of the previous stations. The final barometer reading was 29.60 when monitoring activities were concluded at 0950 hrs. The *Blue Moon* exited the disposal zone at 1000 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1050 hours.

Prepared by M. Crook
Mike Crook,
Principal Investigator


N
170 40.23 W
170 36.82 W
170 33.41 W
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
24 May, 2011
M. Crook, Investigator
14 22.73 S
14 26.14 S
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
#5
#4
#3
#2
#1
Current Set: West

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON May, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	12	0	0	12

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	2,085,250	0	0	2,085,250

GALLONS FOR SOLO TRIPS:	Starkist	Other
	2,085,250	**0**

RUNNING TIME ON TRIPS:	**66.5 hrs.**
DISCHARGE TIME ON TRIPS:	**38.2 hrs.**
AV. GPM DISCHARGE RATE:	**102.2 gal/min/kt**
AV. TRIP TIME:	**5.54 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER : M. Crook

M. Crook

Date: 05/03/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5423

Permit # OD 93-01 & OD 93-02

	Time	
5/2	16:30	Begin 1st Loading SK
	21:30	Finish 1st Loading SK
5/3	0015	Begin 2nd Loading SK
	0330	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	162,250	Gallons
Other	0	Gallons
Total	162,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0520	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	50	29.53			
0613	Arrive Edge of Zone	# 1	14°22.56' S	170°38.60' W	"	70	"	S+SW-2.0	8.8	160
0622	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	"	"		" "	8.9	164
0630	Begin Discharge	# 3	14°24.10 S	170°37.29' W	"	60	29.54	" " X	8.7	090
" 45		# 4	14°23.78 S	170°37.71' W	VAR-3	50	"	" "	8.9	180
0700	Remarks:	# 5	14°24.45 S	170°36.96' W	" "	"			8.6	603
" 15		# 6	14°23.37 S	170°37.70 W	" "	"			8.8	176
" 30		# 7	14°24.68' S	170°37.01' W	NE-3	"		5	8.4	013
" 45		# 8	14°23.04' S	170°37.53 W	" "	60			8.6	264
0800		# 9	14°24.75 S	170°37.57' W	VAR-3	"			8.7	180
" 15		# 10	14°23.28' S	170°37.17' W	" "	"			9.1	328
" 30		# 11	14°24.70' S	170°37.51' W	" "	"			8.8	176
" 45		# 12	14°23.21' S	170°37.62' W	" "	75		10	8.7	252
0900		# 13	14°24.76' S	170°37.51 W	" "	"	29.55		8.7	181
" 15		# 14	14°23.10' S	170°37.18' W	" "	80	"		9.3	357
" 30		# 15	14°24.50' S	170°37.61' W	" "	"	29.56		9.0	178
" 45		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	#16	14°23.29' S	170°37.57' W	VAR-3	80%	29.56	S+SW-2.0	9.6	341
0943	Exit Discharge Zone	#17	14°22.61' S	170°37.74' W	" "	"	" "	" "	9.7	342
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West (Slow) Discharge Pattern Ellipse

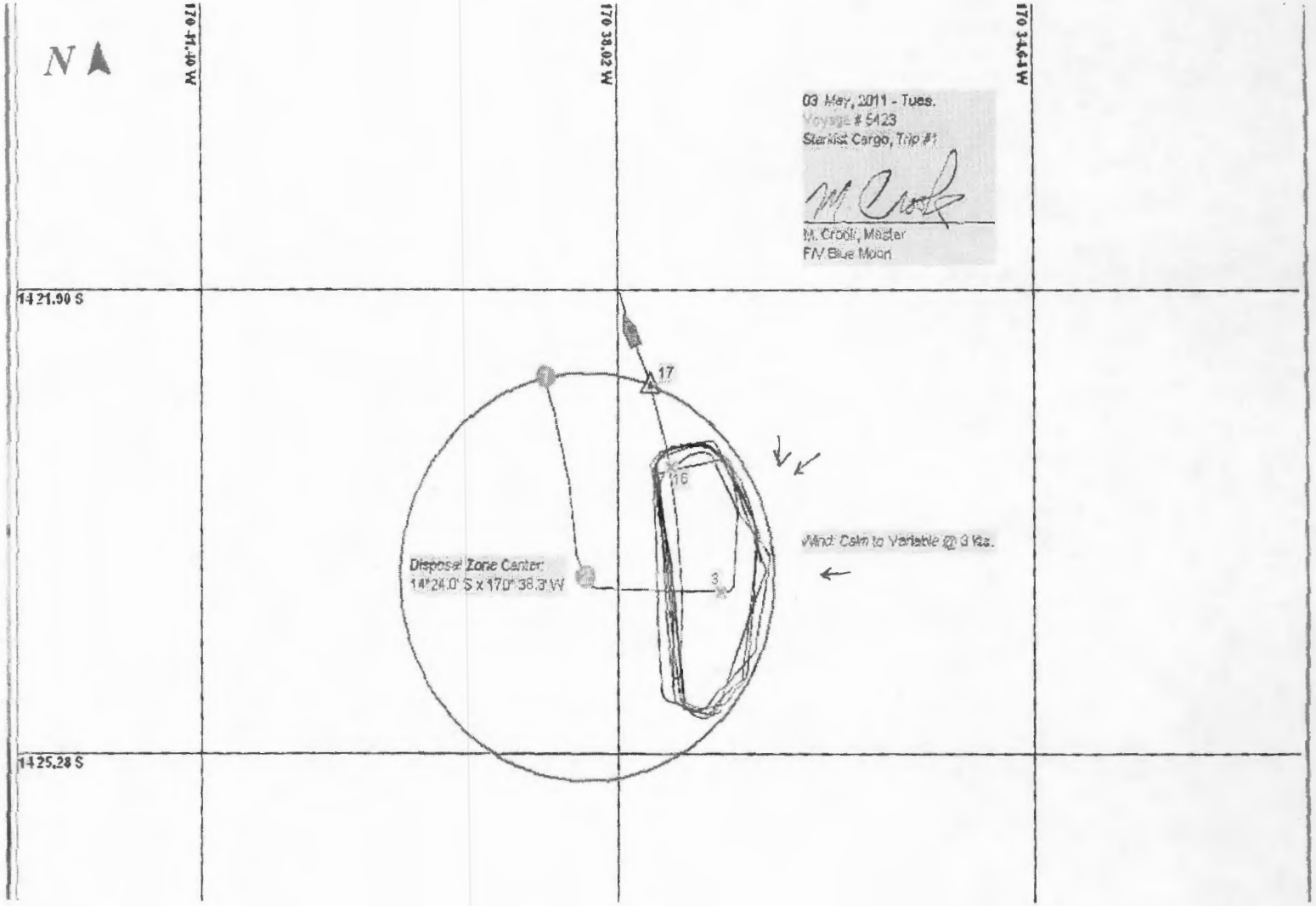
Total Discharge Time: 190 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5:33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 76 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
03 May, 2011 - Tues.
Voyage # 5423
Starlist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
14 21.90 S
14 25.28 S
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 36.3' W
Wind: Calm to Variable @ 3 Kts.

Date: 05/05/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5424

Permit # OD 93-01 & OD 93-02

	Time	
5/4	1630	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	2200	Begin 2nd Loading SK
5/5 →	0100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	179,750	Gallons
	Other	0	Gallons
	Total	179,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	25	27.50			
0555	Arrive Edge of Zone	# 1	14°22.52' S	170°38.67' W	"	"	"	3-2.0	8.6	158
0605	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	"	20	"	" "	8.4	167
0615	Begin Discharge	# 3	14°24.14' S	170°39.34' W	WNW-2	25	29.51	" " X	8.7	270
30		# 4	14°24.26' S	170°38.62' W	WNW-3		"		8.7	358
45	Remarks:	# 5	14°23.92' S	170°39.63' W	" "		"		8.4	181
0700		# 6	14°24.75' S	170°38.78' W	Calm		"		8.8	012
15		# 7	14°23.33' S	170°39.34' W	"		29.52	5	8.5	226
30		# 8	14°25.07' S	170°39.03' W	"		"		8.3	091
45		# 9	14°23.24 S	170°38.68' W	"		"		7.0	000
0800		# 10	14°24.45' S	170°39.38' W	"		"		9.0	183
15		# 11	14°23.84' S	170°38.71' W	"		"		9.1	004
30		# 12	14°23.72' S	170°39.57' W	"		"	10	8.8	181
45		# 13	14°22.45' S	170°38.75' W	"		"		9.6	008
0900		# 14	14°23.59' S	170°39.54' W	"	30	29.53		9.3	204
15		# 15	14°24.17' S	170°38.80' W	"	35	"		9.4	007
30		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0930	Finish Discharge	# 16	14°23.17' S	170°39.23' W	Calm	40%	29.54	5-2.0	7.0	340
0933	Exit Discharge Zone	#17	14°22.75' S	170°39.28' W	"	"	"	" "	9.5	343
1025	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center East End of Discharge Slack Discharge Pattern Ellipse

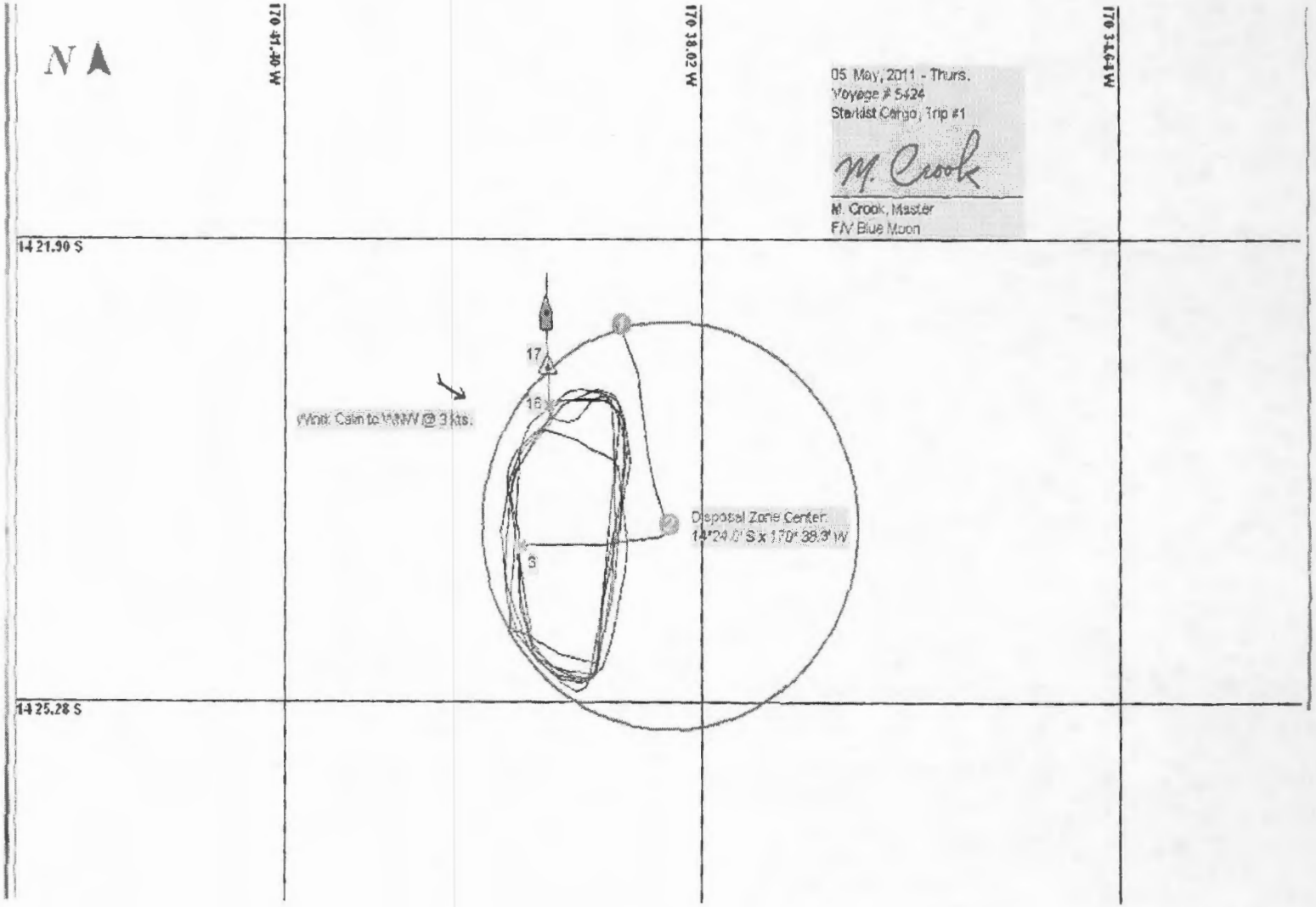
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 103.6 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
05 May, 2011 - Thurs.
Voyage # 5424
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
14 21.90 S
14 25.28 S
17
16
5
Wind: Calm to NNW @ 3 kts.
Disposal Zone Center:
14°24.0' S x 170° 38.3' W

Date: 05/07/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5425

Permit # OD 93-01 & OD 93-02

Time		
1945	Begin 1st Loading SK	
2056	Finish 1st Loading SK	
	Begin 2nd Loading SK	
/	Finish 2nd Loading SK	

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	170,000	Gallons
Other	0	Gallons
Total	170,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0505	Depart Starkist		14°16.50' S	170°41.2' W	Calm	90	29.52			
0558	Arrive Edge of Zone	# 1	14°22.52 S	170°38.70' W	"	"	29.54	S-SSE-2.0	8.5	164
0608	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	"	"	"		8.3	186
0617	Begin Discharge	# 3	14°24.08' S	170°37.21' W	"	"	"	X	8.3	170
" 32		# 4	14°23.46' S	170°37.71 W			"		8.1	179
" 47	Remarks:	# 5	14°24.68' S	170°37.02' W			29.55		8.4	012
0702		# 6	14°23.10' S	170°37.56' W			"		8.6	183
" 17		# 7	14°24.92' S	170°37.43' W			29.56	5	8.5	052
" 32		# 8	14°23.04' S	170°37.26 W			"		8.8	347
" 47		# 9	14°24.62' S	170°37.66' W			"		8.9	180
0802		# 10	14°23.34' S	170°37.05' W			29.57		9.1	349
" 17		# 11	14°24.11' S	170°37.73' W			29.58		9.0	176
" 32		# 12	14°23.96' S	170°36.95' W		80	"	10	9.3	001
" 47		# 13	14°23.98' S	170°37.40' W			29.59		9.2	177
0902		# 14	14°24.17' S	170°36.93' W			"		9.3	000
" 17		# 15	14°23.57 S	170°37.60' W					9.4	179
" 32		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0932	Finish Discharge	# 16	14°23.20' S	170°37.22' W	Calm	80 90	29.59	S+SE-2.0	9.3	330
0935	Exit Discharge Zone	# 17	14°22.82' S	170°37.38' W	"	"	"	" "	9.4	327
1035	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge Slack Discharge Pattern Ellipse

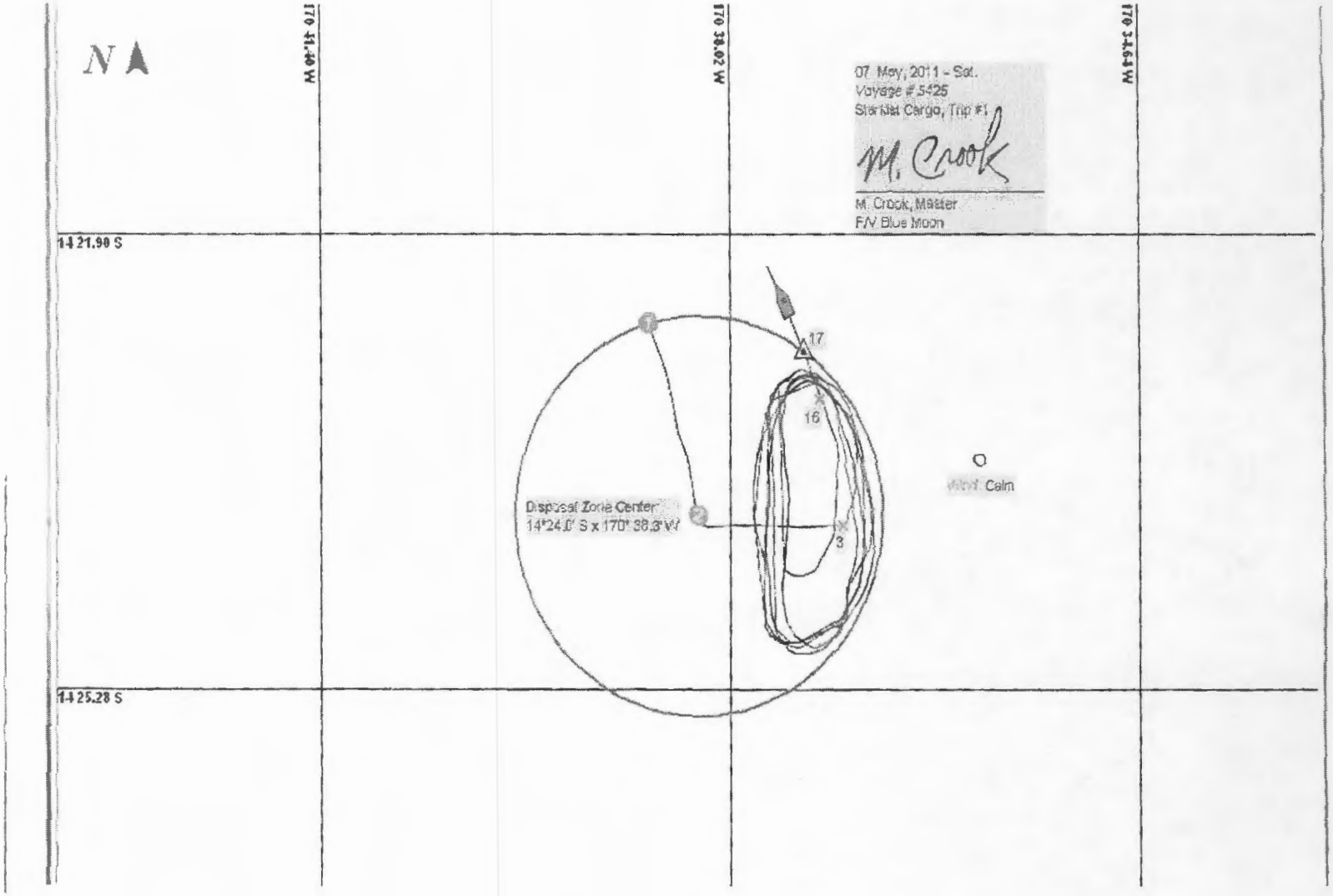
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.87 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
07 May, 2011 - Sat.
Voyage # 5425
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
14 21.90 S
14 25.28 S
17
16
3
Disposal Zone Center
14°24.0' S x 170° 36.3' W
Wind: Calm

Date: 05/10/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5426

Permit # OD 93-01 & OD 93-02

	Time	
5/9	1800	Begin 1st Loading SK
	2131	Finish 1st Loading SK
5/10	0000	Begin 2nd Loading SK
	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	135,750	Gallons
	Other	0	Gallons
	Total	135,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	SE-10	75	29.52			
0602	Arrive Edge of Zone	#1	14°22.61' S	170°38.70' W	" "	70	"	SE-2.5+	8.4	163
0612	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.3	168
0620	Begin Discharge	#3	14°24.58' S	170°37.41' W	" "	"	29.53	" " X	8.2	135
" 35		#4	14°24.33' S	170°37.68' W	" "	"	"		8.5	220
" 50	Remarks:	#5	14°24.78' S	170°37.07' W	SE-12	80	29.54		8.7	031
0705		#6	14°24.05' S	170°37.50' W	" "	70	"		8.5	218
" 20		#7	14°25.09 S	170°37.41' W	" "	60	"	5	8.6	242
" 35		#8	14°24.48' S	170°37.80' W			"		8.8	221
" 50		#9	14°24.78' S	170°37.6' W			"		8.7	030
0805		#10	14°24.37' S	170°37.76' W			"		8.6	226
" 20		#11	14°25.02' S	170°37.72' W			29.55		8.9	056
" 35		#12	14°23.84' S	170°37.26' W	SE-10			10	9.0	223
" 50		#13	14°25.18' S	170°37.75' W	" "				9.0	055
0905		#14	14°23.86' S	170°37.18' W	SE-12	50			8.8	229
" 20		#15	14°25.28' S	170°37.87' W	" "	"			9.1	058
" 35		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0935	Finish Discharge	#16	14°23.78' S	170°37.17' W	SE-12	50%	29.55	SE-2.5+	9.0	267
0945	Exit Discharge Zone	#17	14°22.64' S	170°37.95' W	" "	"	"	" "	9.4	333
1640	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Ellipse

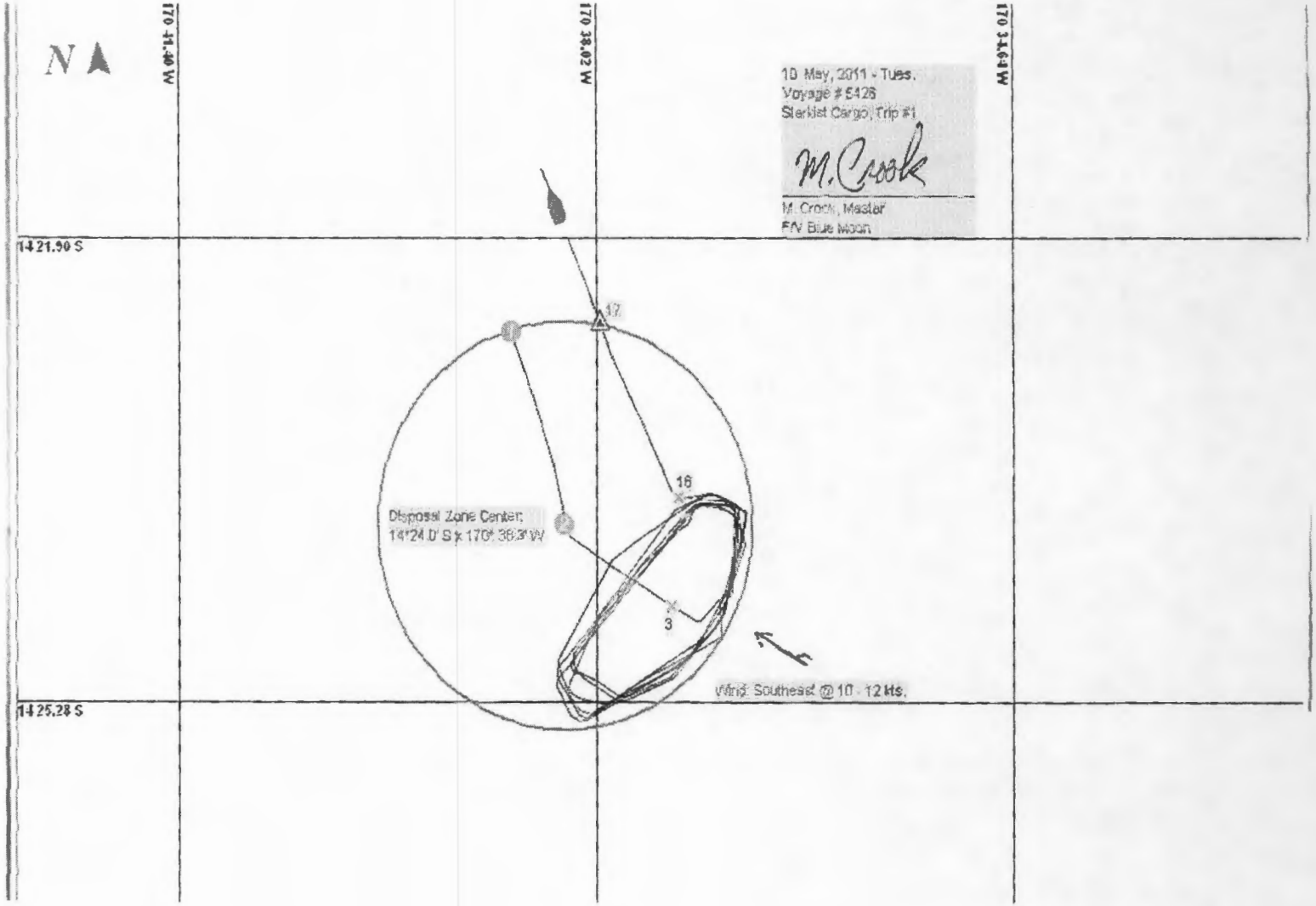
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.74 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 79.7 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
10 May, 2011 - Tues.
Voyage # 5426
Sterlist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 36.3' W
Wind: Southeast @ 10 - 12 kts.

Date: 05/12/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5427

Permit # OD 93-01 & OD 93-02

	Time	
5/11	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
5/12	0030	Begin 2nd Loading SK
	0230	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	178,750	Gallons
Other	0	Gallons
Total	178,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0500	Depart Starkist		14°16.50' S	170°41.2' W	SE-5	50	29.57			
0553	Arrive Edge of Zone	# 1	14°22.56' S	170°38.58' W	SE-7	"	"	SE-2.0	8.5	162
0605	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	29.58	" "	8.6	161
0613	Begin Discharge	# 3	14°24.56 S	170°37.40 W		"	"	X	8.5	135
" 28		# 4	14°24.18' S	170°37.71' W		"	"		8.2	220
" 43	Remarks:	# 5	14°24.73' S	170°37.09' W		"	29.59		8.9	030
" 58		# 6	14°24.27' S	170°37.73' W		40	"		8.6	217
0713		# 7	14°25.03' S	170°37.56' W		"	"	5	8.8	049
" 28		# 8	14°24.35' S	170°37.87' W		"	29.60		8.7	212
" 43		# 9	14°24.56' S	170°36.76' W		"			9.0	047
" 58		# 10	14°24.24' S	170°37.55' W		"			8.9	221
0813		# 11	14°24.84' S	170°37.48' W		"			9.1	051
" 28		# 12	14°24.10' S	170°37.65' W		25		10	8.9	219
" 43		# 13	14°24.66' S	170°37.02 W		"			9.4	048
" 58		# 14	14°24.87' S	170°38.07 W		"			9.0	221
0913		# 15	14°24.86' S	170°37.18' W		"			9.5	028
" 28		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0925	Finish Discharge	# 16	14°23.74' S	170°36.96' W	SE-7	25%	29.60	SE-2.0	9.7	336
0932	Exit Discharge Zone	# 17	14°22.85 S	170°37.40' W	" "	"	"	" "	9.8	340
1025	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Ellipse

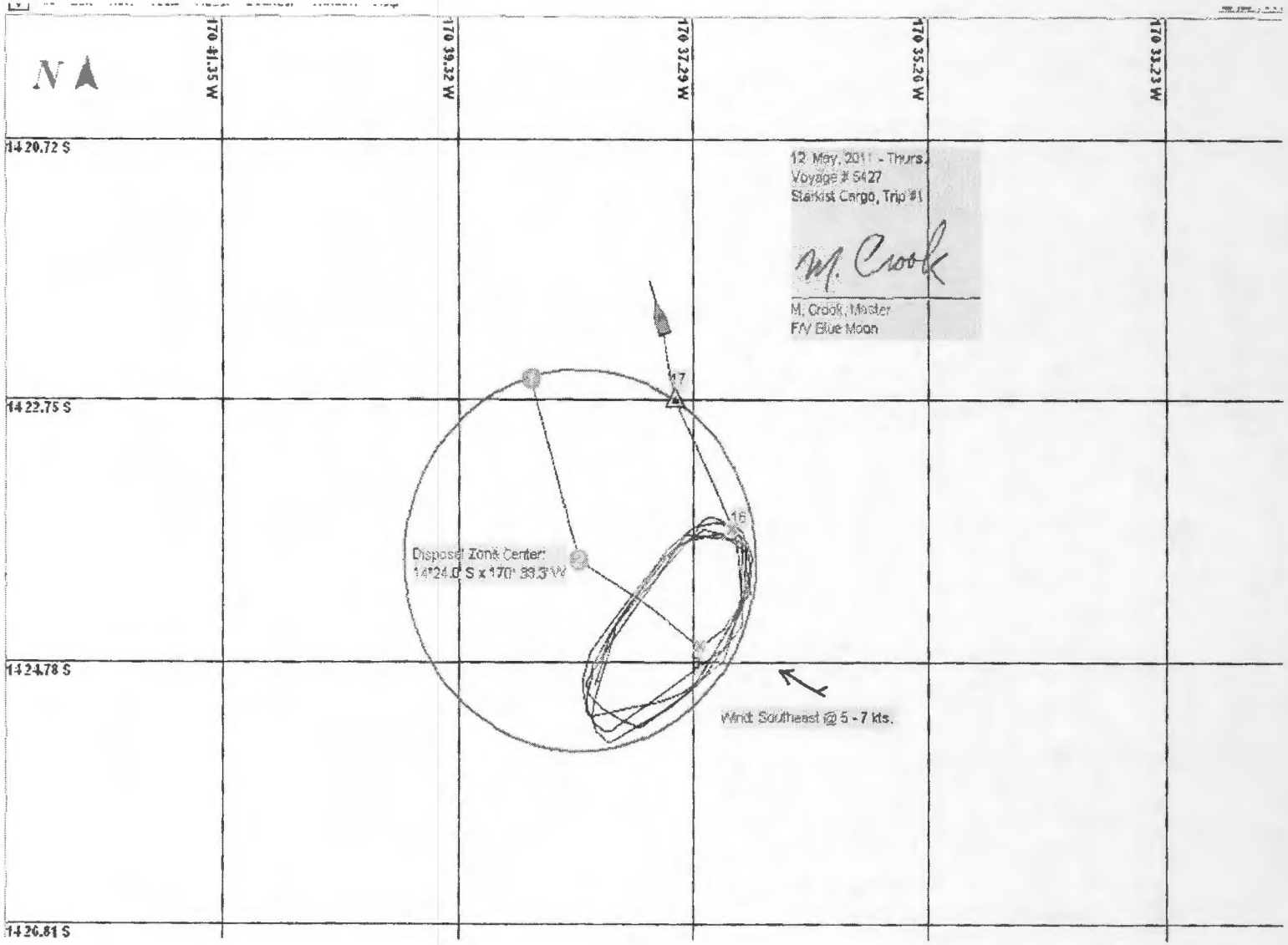
Total Discharge Time: 192 mins. Average Speed During Discharge: 8.94 kts. Total Time Run 5.4 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 104 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.35 W
170 39.32 W
170 37.29 W
170 35.26 W
170 33.23 W
14 20.72 S
14 22.75 S
14 24.78 S
14 26.81 S
12 May, 2011 - Thurs.
Voyage # 5427
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
17
16
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: Southeast @ 5 - 7 kts.

Date: 05/14/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5428

Permit # OD 93-01 & OD 93-02

	Time	
5/13	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
5/14	0030	Begin 2nd Loading SK
	0330	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	196,750	Gallons
Other	0	Gallons
Total	196,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	50	29.66	Metric	kts	True*
0558	Arrive Edge of Zone	# 1	14°22.57' S	170°38.68' W	" "	30	29.67	E+SE-1.5	8.6	163
0608	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	29.68	" "	8.5	164
0617	Begin Discharge	# 3	14°24.11' S	170°37.23 W	" "	"	"	" " X	8.2	090
" 32		# 4	14°23.80' S	170°37.79' W	" "	"	29.69		8.7	179
" 47	Remarks:	# 5	14°24.40' S	170°36.95' W	" "	"	"		8.5	006
0702		# 6	14°23.06' S	170°37.75' W	East-12	"	"		8.6	214
" 17		# 7	14°24.86' S	170°37.80' W				5	8.5	167
" 32		# 8	14°23.61' S	170°37.02' W					8.8	003
47		# 9	14°24.03' S	170°37.78 W					9.1	178
0802		# 10	14°24.55' S	170°37.01' W					8.8	359
" 17		# 11	14°23.47' S	170°37.78' W		40			9.3	180
" 32		# 12	14°24.73' S	170°37.07' W				10	8.7	036
" 47		# 13	14°23.15 S	170°37.33' W					8.5	270
0902		# 14	14°24.53' S	170°37.94' W			29.70		9.3	180
" 17		# 15	14°23.58' S	170°37.09' W			"		9.4	352
" 32		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0932	Finish Discharge	#16	14°24.05' S	170°37.79' W	East-12	40%	29.70	E+SE-1.5	9.2	179
0945	Exit Discharge Zone	#17	14°22.60 S	170°38.60' W	" "	"	"	" "	9.6	332
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

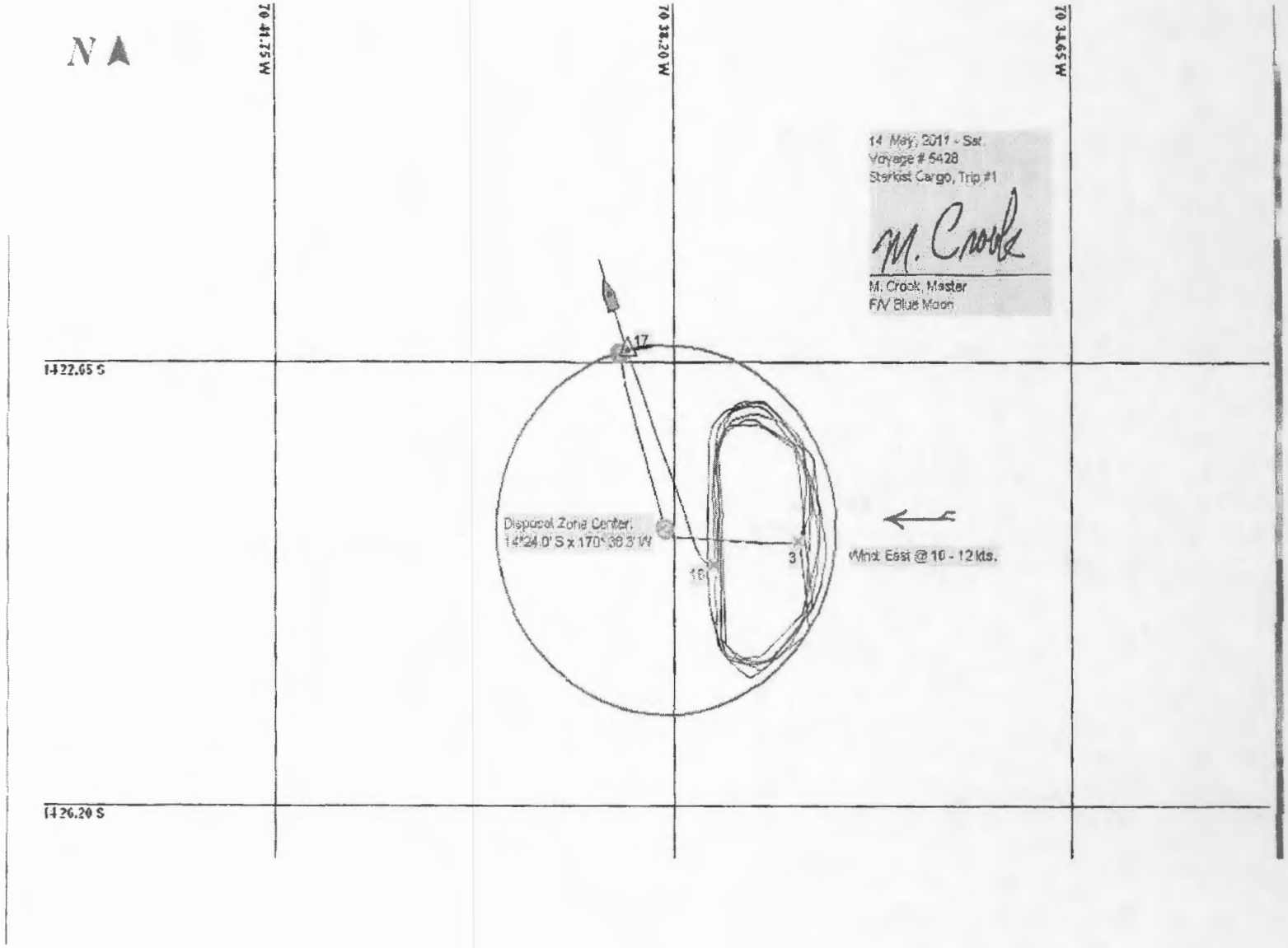
Total Discharge Time: 175 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 114.7 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
70 41.75 W
70 38.20 W
70 34.65 W
14 22.05 S
14 26.20 S
14 May, 2011 - Sat.
Voyage # 5428
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
17
Disposal Zone Center:
14°24.0' S x 170° 36.3' W
19
3
Wind: East @ 10 - 12 kts.

Date: 05/17/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5429

Permit # OD 93-01 & OD 93-02

	Time	
5/16	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
5/17	0010	Begin 2nd Loading SK
	0145	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	172,500	Gallons
Other	0	Gallons
Total	172,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	East-5	50	29.62			
0556	Arrive Edge of Zone	# 1	14°22.55' S	170°38.67' W	East-10	"	"	E+SE-1.5	8.7	159
0606	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.3	164
0616	Begin Discharge	# 3	14°24.04' S	170°37.21 W	" "	"	29.63	" " X	8.4	090
" 31		# 4	14°23.39' S	170°37.73' W		"	"		8.6	177
46	Remarks:	# 5	14°24.85' S	170°37.16' W		40	"		8.3	042
0701		# 6	14°23.04' S	170°37.31' W		"	29.64		8.6	301
" 16		# 7	14°24.81' S	170°37.73' W		50	"	5	8.8	180
" 31		# 8	14°23.30' S	170°37.05' W		60	"		8.6	322
" 46		# 9	14°24.06' S	170°37.79' W	East-12	"	"		8.9	183
0801		# 10	14°24.37' S	170°36.94' W	" "	50	"		8.7	001
" 16		# 11	14°23.10' S	170°37.72' W		"	"		9.1	179
" 31		# 12	14°24.66' S	170°37.07' W		"	"	10	8.8	012
" 46		# 13	14°23.12' S	170°37.72' W		40	29.65		9.2	181
0901		# 14	14°25.00' S	170°37.41' W		"	"		8.3	024
" 16		# 15	14°23.21' S	170°37.11' W		"	"		8.9	305
" 31		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0931	Finish Discharge	#16	14°23.13' S	170°37.85' W	East-12	40%	29.65	E+SE-1.5	9.3	001
0935	Exit Discharge Zone	#17	14°22.66' S	170°37.91' W	" "	"	"	" "	9.4	343
1035	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

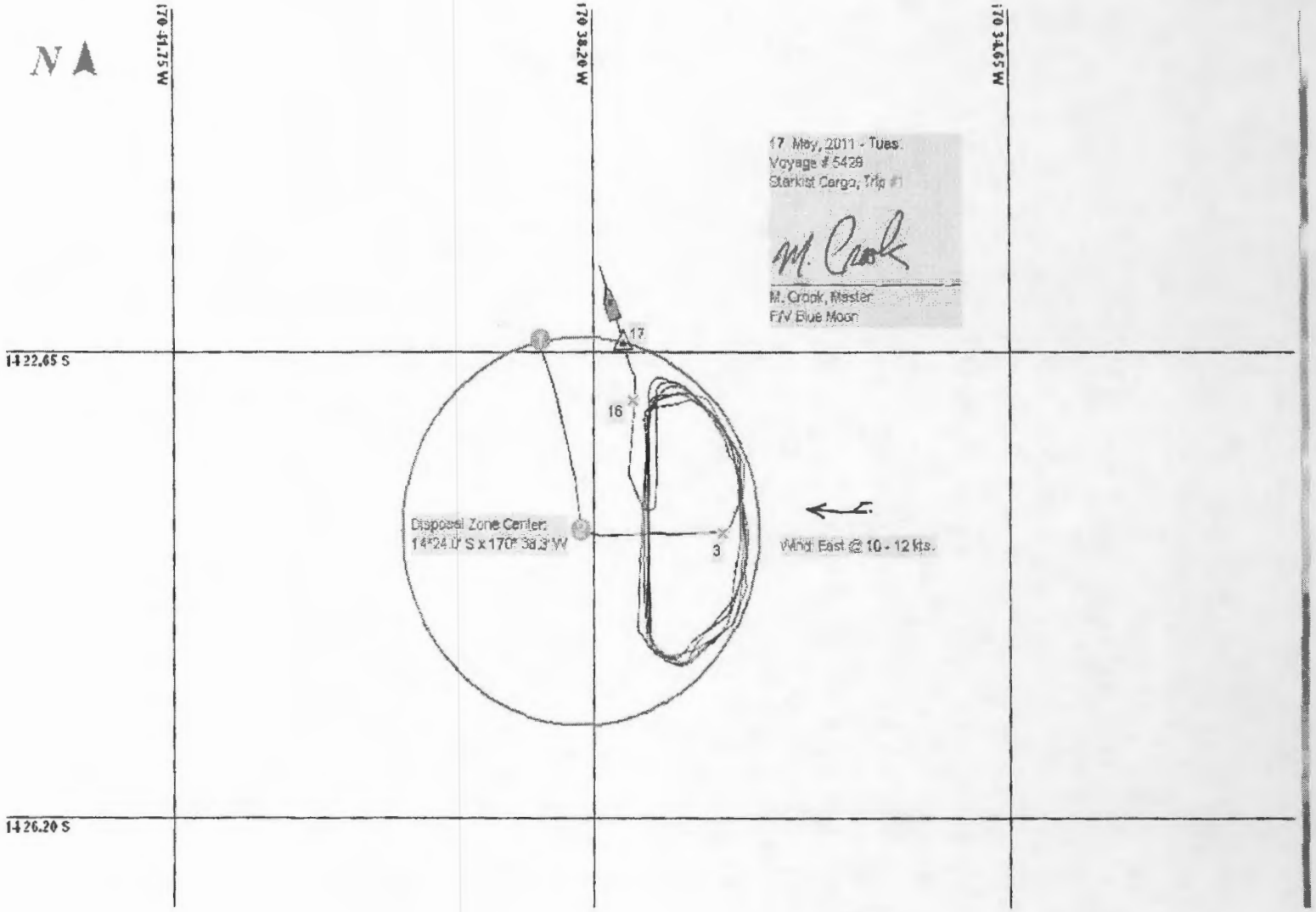
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.75 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? NO

Time and position of any floating material: None Discharge Rate: 101 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.75 W
170 38.20 W
170 34.65 W
14 22.65 S
14 26.20 S
17 May, 2011 - Tues.
Voyage # 5439
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 10 - 12 kts.

Date: 05/19/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5430

Permit # OD 93-01 & OD 93-02

	Time	
5/18	1600	Begin 1st Loading SK
	2145	Finish 1st Loading SK
5/17	2010	Begin 2nd Loading SK
	0100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	182,500	Gallons
Other	0	Gallons
Total	182,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	60	29.57			
0600	Arrive Edge of Zone	# 1	14°22. S	170°38. W	"	"	29.55	E+SE-1.5	8.7	162
0610	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	East-5	"	"	" "	8.6	167
0620	Begin Discharge	# 3	14°24.01' S	170°37.23' W	" "	"	"	" " X	8.4	090
" 35		# 4	14°23.88' S	170°37.55' W	" "	"	29.59	" "	8.6	179
" 50	Remarks:	# 5	14°24.27' S	170°36.84' W	" "	50	"	" "	8.3	006
0705		# 6	14°23.44' S	170°37.66' W	" "	"	29.60		8.5	177
" 20		# 7	14°24.37' S	170°36.87' W		"		5	8.7	014
" 35		# 8	14°23.25' S	170°37.71' W		60			8.4	186
" 50		# 9	14°24.57' S	170°36.72' W					8.9	017
0805		# 10	14°23.13' S	170°37.46' W					8.6	213
" 20		# 11	14°24.78' S	170°37.10' W					8.9	026
" 35		# 12	14°23.35' S	170°37.58' W				10	9.2	181
" 50		# 13	14°24.74' S	170°37.03' W		70			9.4	022
0905		# 14	14°23.20' S	170°37.18' W		"			9.0	301
" 20		# 15	14°24.75' S	170°37.44' W		"			9.1	174
" 35		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0935	Finish Discharge	#16	14°23.22' S	170°37.16' W	East-5	70%	29.60	E+SE-1.5	9.3	312
0940	Exit Discharge Zone	#17	14°22.69' S	170°37.17' W	" "	"	"	" "	9.5	318
1045	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge Slack Discharge Pattern Ellipse

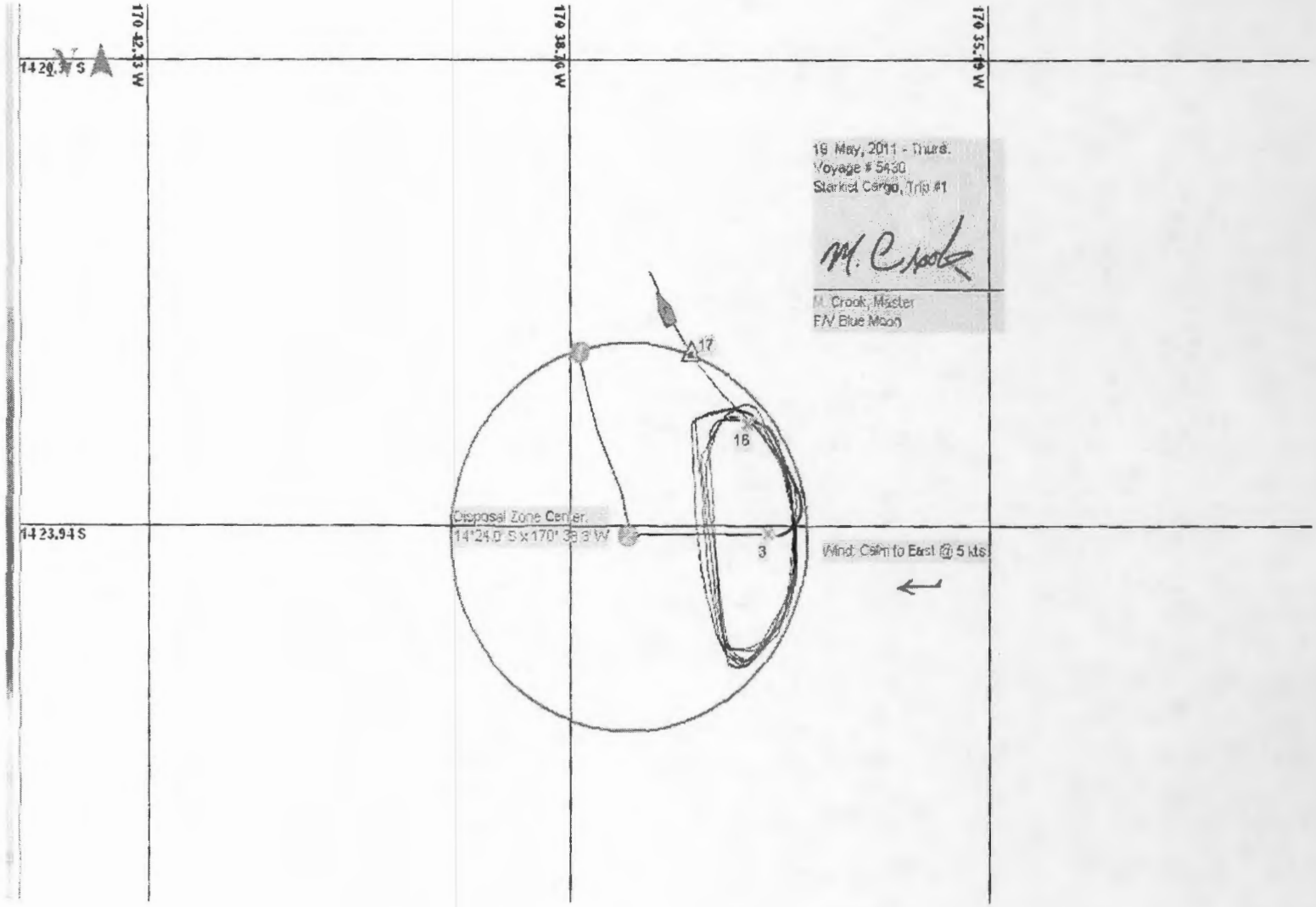
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 93 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook



170 42.33 W
170 38.76 W
170 35.19 W
14 20.37 S
14 23.94 S
19 May, 2011 - Thurs.
Voyage # 5430
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center
14°24.0' S x 170° 38.3' W
Wind: Calm to East @ 5 kts

Date: 05/21/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5431

Permit # OD 93-01 & OD 93-02

	Time	
5/20	1650	Begin 1st Loading SK
	2145	Finish 1st Loading SK
5/20	2370	Begin 2nd Loading SK
5/21	0315	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	176,500	Gallons
Other	0	Gallons
Total	176,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	75%	29.58			
0555	Arrive Edge of Zone	# 1	14°22. S	170°38. W	"	50	29.59	SE+S-1.5	8.7	163
0606	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	"	40	"	" "	8.5	162
0615	Begin Discharge	# 3	14°24.12' S	170°37.29' W	"	20	"	" " X	8.8	090
" 30		# 4	14°23.81' S	170°37.76' W	"		"	" "	8.9	180
" 45	Remarks:	# 5	14°24.55' S	170°37.00' W	"		"		8.6	006
0700		# 6	14°23.08' S	170°37.26 W	"		"		8.7	317
" 15		# 7	14°24.81' S	170°37.79' W	"		"	5	8.8	8
" 30		# 8	14°23.63' S	170°36.94' W	"		"		8.8	346
" 45		# 9	14°24.15' S	170°37.73' W	"		"		9.0	178
0800		# 10	14°24.20' S	170°36.90' W	"		29.60		8.8	001
" 15		# 11	14°23.13' S	170°37.61' W	"				8.9	192
" 30		# 12	14°24.47' S	170°36.95' W	"			10	8.2	003
" 45		# 13	14°23.22' S	170°37.68' W	"				9.0	184
0900		# 14	14°24.55' S	170°36.98' W		25%			9.4	011
" 15		# 15	14°23.00' S	170°37.66' W		"			8.8	186
" 30		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0930	Finish Discharge	# 16	14°23.41' S	170°37.67' W	Calm	25%	29.60	SE+S-1.5	9.3	337
0935	Exit Discharge Zone	# 17	14°22.65' S	170°37.72' W	"	"	"	" "	9.6	338
1035	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge Slack Discharge Pattern Ellipse

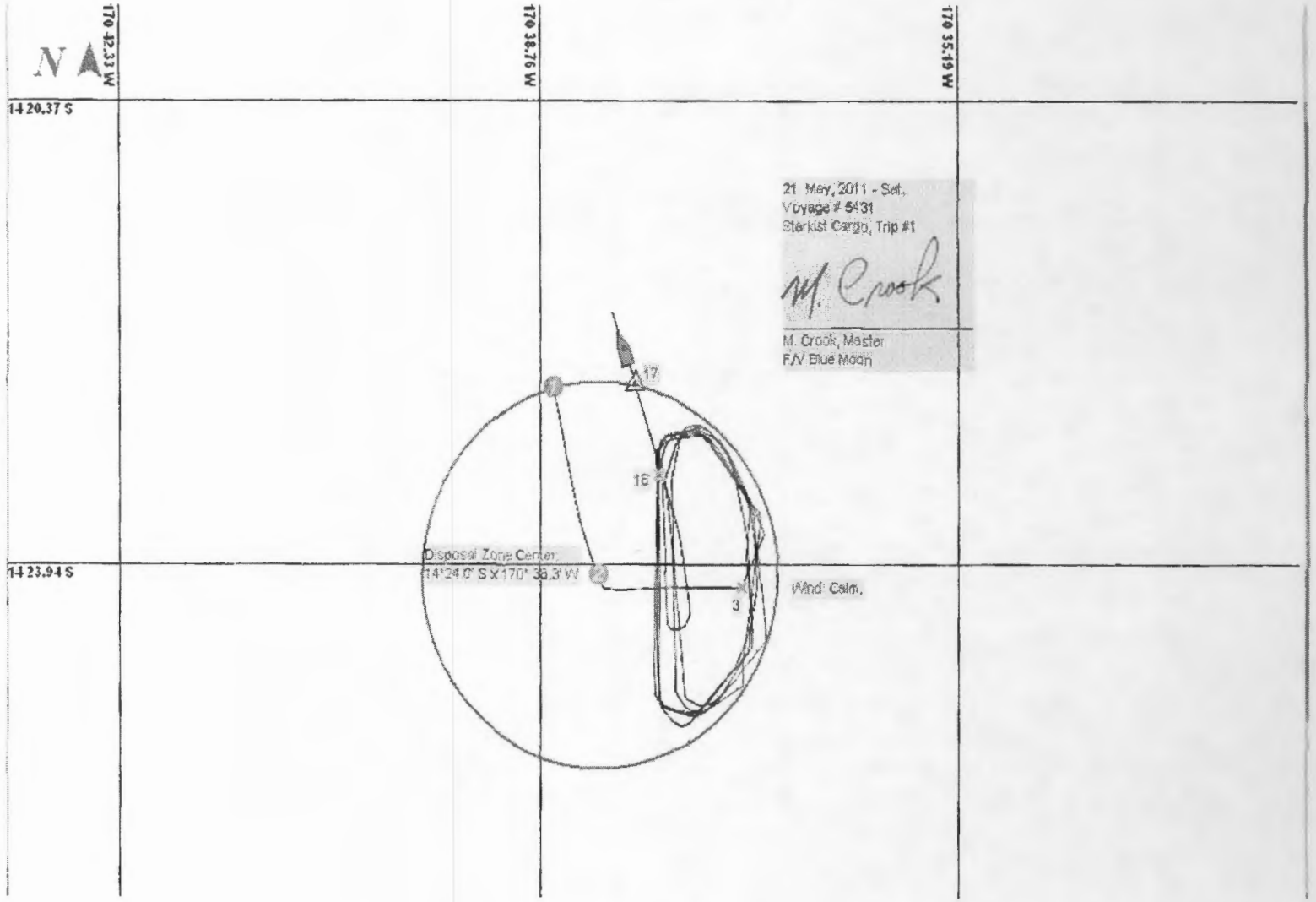
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 101.7 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 42.33 W
170 38.76 W
170 35.19 W
14 20.37 S
14 23.94 S
21 May, 2011 - Sat.
Voyage # 5431
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S X 170° 38.3' W
Wind: Calm.

Date: 05/24/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5432

Permit # OD 93-01 & OD 93-02

	Time	
5/23	1745	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0200	Begin 2nd Loading SK
5/24	0715	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	133,750	Gallons
Other	0	Gallons
Total	133,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0505	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	30	29.58			
0555	Arrive Edge of Zone	# 1	14*22.56' S	170*38.67' W	ESE-7	"	"	S+SE-1.5	8.7	164
0605	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.8	163
0623	Begin Discharge	# 3	14*23.96' S	170*37.27 W	ESE-10	35	"	" " X	7.6	028
38		# 4	14*23.48' S	170*37.77' W	" "	"	29.59	" "	8.7	184
53	Remarks: Ocean	# 5	14*24.26' S	170*36.91' W	" "	"	"	" "	8.7	000
0708	Monitoring	# 6	14*22.86' S	170*37.45' W	" "	"	"		8.3	263
23	Control Samples	# 7	14*24.83' S	170*37.82' W	" "	"	"	5	8.8	179
38	drawn at	# 8	14*23.60' S	170*36.90' W	" "	40	"		8.9	336
53	0615 hrs. Posn:	# 9	14*23.88' S	170*37.91' W	" "		"		9.0	181
0808	14°24.05' S	# 10	14*24.37' S	170*36.94' W	" "		"		9.1	001
23	170°37.22 W	# 11	14*23.26' S	170*37.95' W	ESE-12		"		8.9	184
38		# 12	14*24.87' S	170*37.94' W				10	8.7	138
53		# 13	14*2 S	170*3 W						
0908		# 14	14*2 S	170*3 W						
23		# 15	14*2 S	170*3 W						
38		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0853	Finish Discharge	#13	14*23.51' S	170*36.94' W	ESE-12	40%	29.59	S+SE-1.5	8.9	002
1000	Exit Discharge Zone	#14	14*22.59' S	170*38.62 W	" "	"	29.60		9.4	344
1050	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 150 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.75 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 102.5 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooke

N ▲

F/V Blue Moon Ocean Dumping Log

Date: 05/26/11 Thurs.

Voyage #: 5433

Permit # OD 93-01 & OD 93-02

	Time	
5/25	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	2230	Begin 2nd Loading SK
5/26	0130	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	199,750	Gallons
Other	0	Gallons
Total	199,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	ESE-15	50	29.55			
0605	Arrive Edge of Zone	# 1	14°22.57' S	170°38.66' W	" "	"	29.57	E+SE-2.0	8.2	164
0615	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "		29.58	"	8.0	166
0625	Begin Discharge	# 3	14°23.99' S	170°37.20' W			"	X	8.0	090
" 40		# 4	14°23.69 S	170°37.68 W			"		8.2	181
" 55	Remarks:	# 5	14°23.73' S	170°36.92' W			29.59		8.5	352
0710		# 6	14°23.89 S	170°37.67' W			"		8.3	179
" 25		# 7	14°24.10 S	170°36.89' W			"	5	8.5	000
" 40		# 8	14°23.29 S	170°37.84' W	ESE-18		"		8.4	183
" 55		# 9	14°24.51' S	170°36.99' W	" "		"		8.6	002
0810		# 10	14°22.93' S	170°37.32' W	" "		29.60		9.0	296
" 25		# 11	14°24.60' S	170°37.68' W	ESE-20		"		8.8	167
" 40		# 12	14°23.30' S	170°37.09' W	" "		"	10	9.0	330
" 55		# 13	14°24.45' S	170°37.83' W	" "	60	29.61		8.6	181
0910		# 14	14°24.40' S	170°36.94' W	" "	"	"		8.9	008
" 25		# 15	14°23.55' S	170°37.72' W	" "	70	"		8.8	182
" 40		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	#16	14°24.19' S	170°36.96' W	ESE-20	80%	29.61	E+SE-2.0	9.1	006
0948	Exit Discharge Zone	#17	14°22.84' S	170°37.35' W	" "	"	"	" "	9.4	334
1105	Secure SK Dock		14°16.50' S	170°41.2' W						

14 22.73 S

14 26.14 S

Current Direction: At Center West End of Discharge WNW Discharge Pattern Ellipse

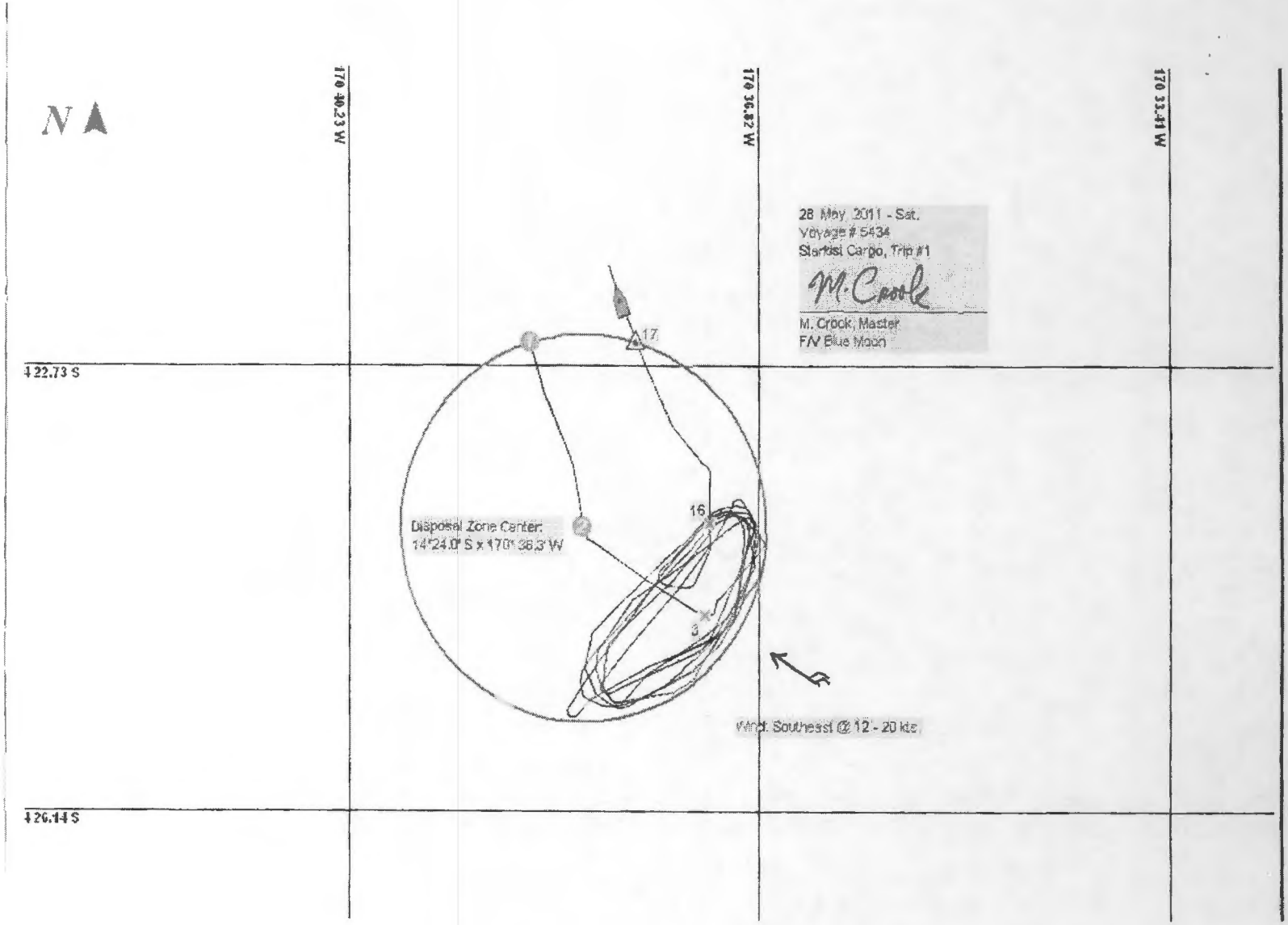
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.62 kts. Total Time Run 5.9 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 118.8 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 20.14 S
28 May 2011 - Sat.
Voyage # 5434
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170°38.3' W
Wind: Southeast @ 12 - 20 kts.

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON May, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	12	0	0	12

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	2,085,250	0	0	2,085,250

GALLONS FOR SOLO TRIPS:	Starkist	Other
	2,085,250	0

RUNNING TIME ON TRIPS:	66.5 hrs.
DISCHARGE TIME ON TRIPS:	38.2 hrs.
AV. GPM DISCHARGE RATE:	102.2 gal/min/kt
AV. TRIP TIME:	5.54 hrs.

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	0.00%

MASTER : M. Crook

M. Crook

Date: 05/03/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5423

Permit # OD 93-01 & OD 93-02

	Time	
5/2	16:30	Begin 1st Loading SK
	21:30	Finish 1st Loading SK
	0015	Begin 2nd Loading SK
5/3	0330	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	162,250	Gallons
	Other	0	Gallons
	Total	162,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0520	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	50	29.53			
0613	Arrive Edge of Zone	# 1	14°22.56' S	170°38.60' W	"	70	"	S+SW-2.0	8.8	160
0622	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	"	"		" "	8.9	164
0630	Begin Discharge	# 3	14°24.10 S	170°37.24' W	"	60	27.54	" " X	8.7	090
" 45		# 4	14°23.70 S	170°37.71' W	VAR-3	50	"	" "	8.9	180
0700	Remarks:	# 5	14°24.45 S	170°36.90' W	" "	"			8.6	003
" 15		# 6	14°23.37 S	170°37.70 W	" "	"			8.8	176
" 30		# 7	14°24.68' S	170°37.01' W	NE-3	"		5	8.4	043
" 45		# 8	14°23.04' S	170°37.53 W	" "	60			8.6	264
0800		# 9	14°24.75 S	170°37.57 W	VAR-3	"			8.7	180
" 15		# 10	14°23.28' S	170°37.17' W	" "	"			9.1	328
" 30		# 11	14°24.70' S	170°37.51' W	" "	"			8.8	176
" 45		# 12	14°23.21' S	170°37.62' W	" "	75		10	8.7	252
0900		# 13	14°24.76' S	170°37.51 W	" "	"	29.55		8.7	181
" 15		# 14	14°23.10' S	170°37.18' W	" "	80	"		9.3	357
" 30		# 15	14°24.50' S	170°37.61' W	" "	"	29.56		9.0	178
" 45		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	#16	14°23.29' S	170°37.57' W	VAR-3	80%	29.56	S+SW-2.0	9.6	341
0943	Exit Discharge Zone	#17	14°22.61' S	170°37.74' W	" "	"	" "	" "	9.7	342
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West (Slow) Discharge Pattern Ellipse

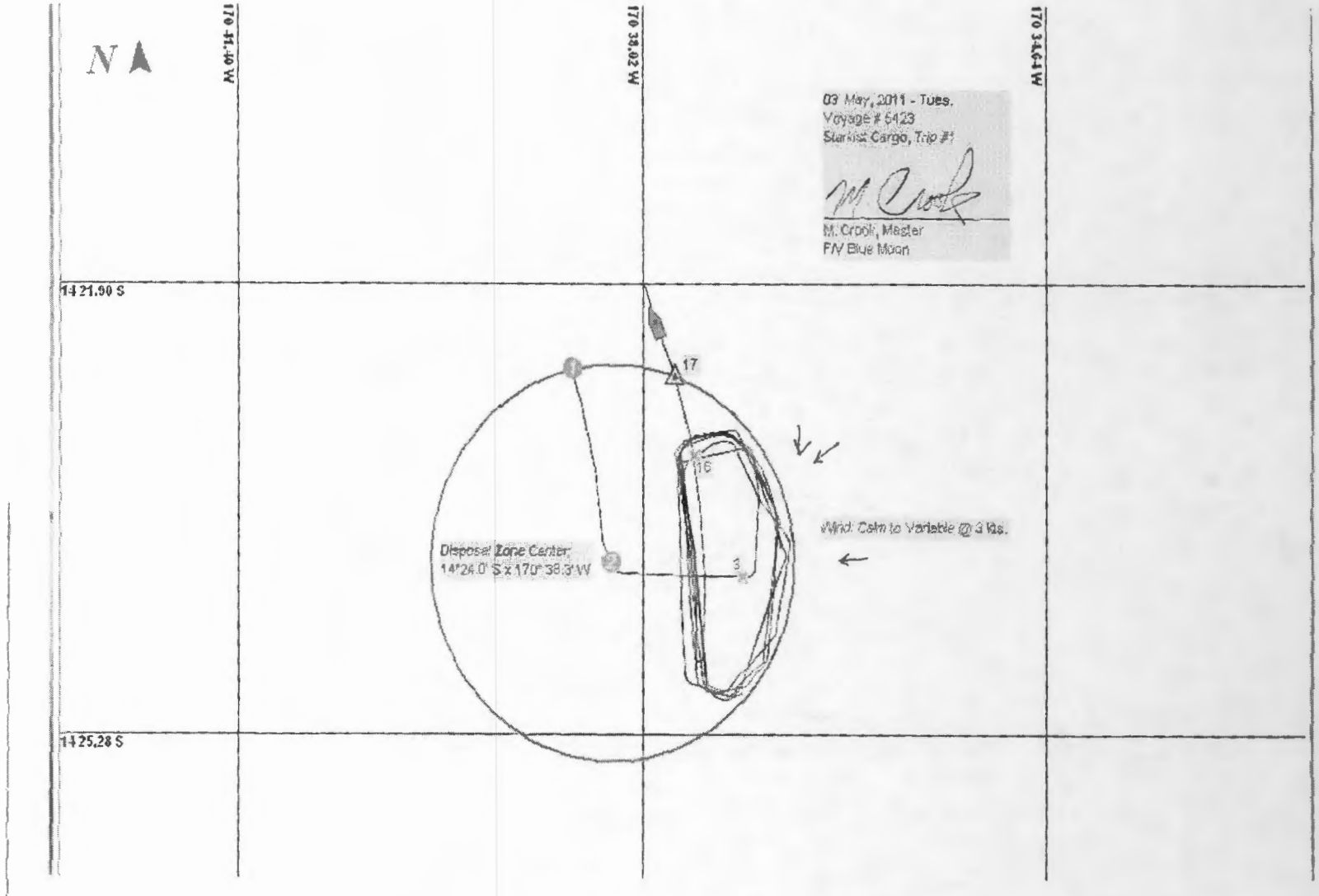
Total Discharge Time: 190 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5:33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 96 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooke


N
170 41.40 W
170 33.02 W
170 34.64 W
14 21.90 S
14 25.28 S
03 May, 2011 - Tues.
Voyage # 5423
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: Calm to Variable @ 3 kts.

Date: 05/05/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5424

Permit # OD 93-01 & OD 93-02

	Time	
5/4	1630	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	2200	Begin 2nd Loading SK
5/5 →	0100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	179,750	Gallons
Other	0	Gallons
Total	179,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	25	29.50			
0555	Arrive Edge of Zone	# 1	14°22.52' S	170°38.67' W	"	"	"	S-2.0	8.6	158
0605	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	"	20	"	" "	8.4	167
0615	Begin Discharge	# 3	14°24.14' S	170°39.34' W	WNW-2	25	29.51	" " X	8.7	270
30		# 4	14°24.26' S	170°38.62' W	WNW-3		"		8.7	358
45	Remarks:	# 5	14°23.92' S	170°39.63' W	" "		"		8.4	181
0700		# 6	14°24.75' S	170°38.19' W	Calm		"		8.8	012
15		# 7	14°23.33' S	170°39.34' W	"		29.52	5	8.5	226
30		# 8	14°25.07' S	170°39.03' W	"		"		8.3	091
45		# 9	14°23.24 S	170°38.68' W	"		"		7.0	000
0800		# 10	14°24.45' S	170°39.38' W	"		"		9.0	183
15		# 11	14°23.84' S	170°38.71' W	"		"		9.1	004
30		# 12	14°23.72' S	170°39.57' W	"		"	10	8.8	181
45		# 13	14°22.45' S	170°38.75' W	"		"		9.6	008
0900		# 14	14°23.59' S	170°39.54' W	"	30	29.53		9.3	204
15		# 15	14°24.17' S	170°38.80' W	"	35	"		9.4	007
30		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0930	Finish Discharge	#16	14°23.17' S	170°39.23' W	Calm	40%	29.54	S-2.0	9.0	340
0933	Exit Discharge Zone	#17	14°22.85' S	170°39.28' W	"	"	"	" "	9.5	343
1025	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center East End of Discharge Slack Discharge Pattern Ellipse

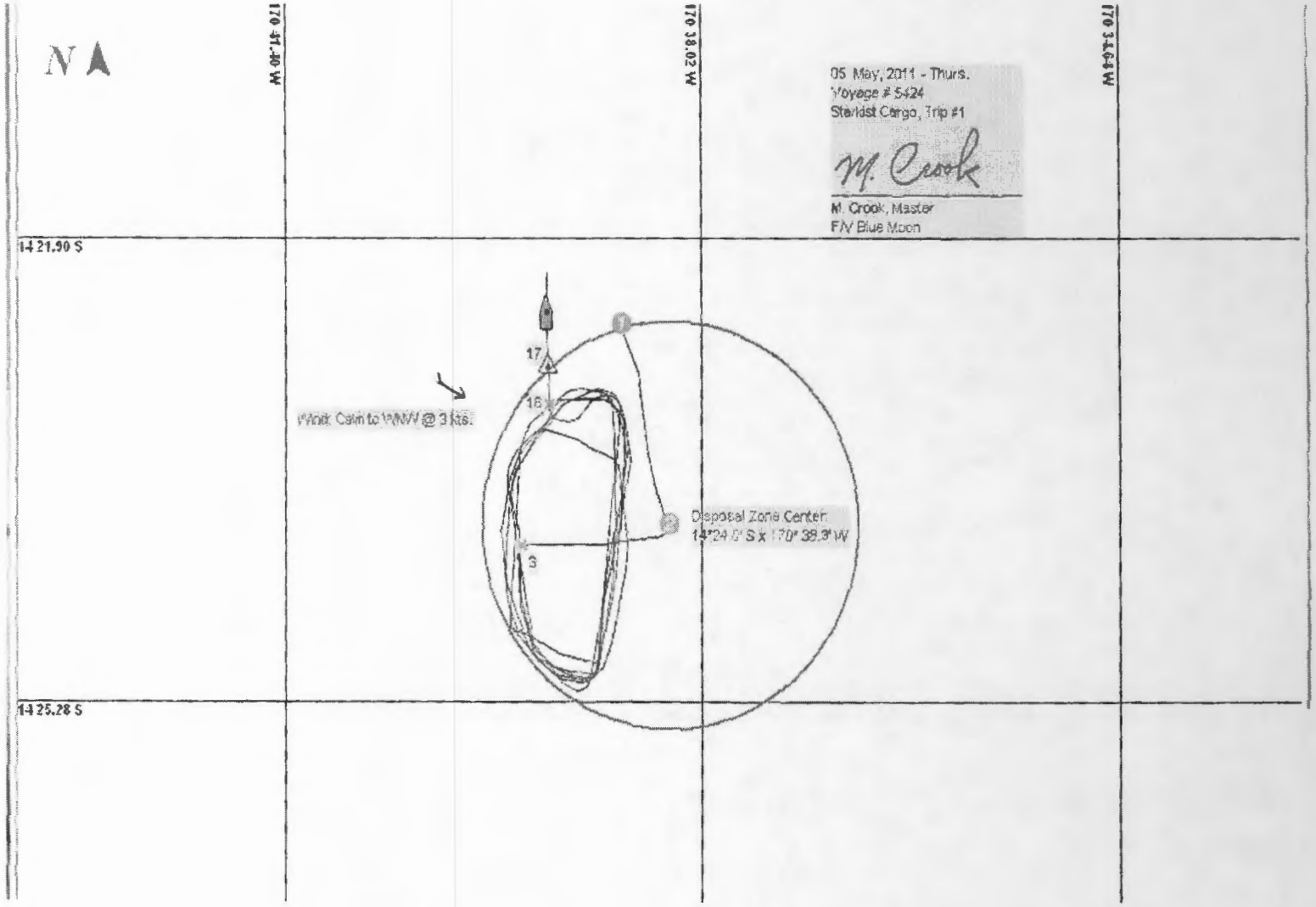
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 103.6 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
170 41.40 W
170 38.02 W
170 34.64 W
05 May, 2011 - Thurs.
Voyage # 5424
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
14 21.90 S
14 25.28 S
Wind: Calm to NNW @ 3 kts.
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W

Date: 05/07/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5425

Permit # OD 93-01 & OD 93-02

Time		
1945	Begin 1st Loading SK	
2050	Finish 1st Loading SK	
/	Begin 2nd Loading SK	
	Finish 2nd Loading SK	

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	170,000	Gallons
Other	0	Gallons
Total	170,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	90	29.53			
0558	Arrive Edge of Zone	#1	14°22.52 S	170°38.70' W	"	"	29.54	S+SE-2.0	8.5	164
0608	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	"	"	"		8.3	166
0617	Begin Discharge	#3	14°24.08' S	170°37.21' W	"	"	"	X	8.3	170
" 32		#4	14°23.46' S	170°37.71 W			"		8.1	179
" 47	Remarks:	#5	14°24.68' S	170°37.02' W			29.55		8.4	012
0702		#6	14°23.10' S	170°37.56' W			"		8.6	183
" 17		#7	14°24.92' S	170°37.43' W			29.56	5	8.5	052
" 32		#8	14°23.04' S	170°37.26 W			"		8.8	347
" 47		#9	14°24.62' S	170°37.66' W			"		8.9	180
0802		#10	14°23.39' S	170°37.65' W			29.57		9.1	349
" 17		#11	14°24.11' S	170°37.73' W			29.58		9.0	176
" 32		#12	14°23.96' S	170°36.95' W		80	"	10	9.3	001
" 47		#13	14°23.98' S	170°37.40' W			29.59		9.2	177
0902		#14	14°24.17' S	170°36.93' W			"		9.3	000
" 17		#15	14°23.57 S	170°37.60' W					9.4	179
" 32		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0932	Finish Discharge	#16	14°23.20' S	170°37.22' W	Calm	80 90	29.59	S+SE-2.0	9.3	330
0935	Exit Discharge Zone	#17	14°22.82' S	170°37.38' W	"	"	"	" "	9.4	327
1035	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge Slack Discharge Pattern Ellipse

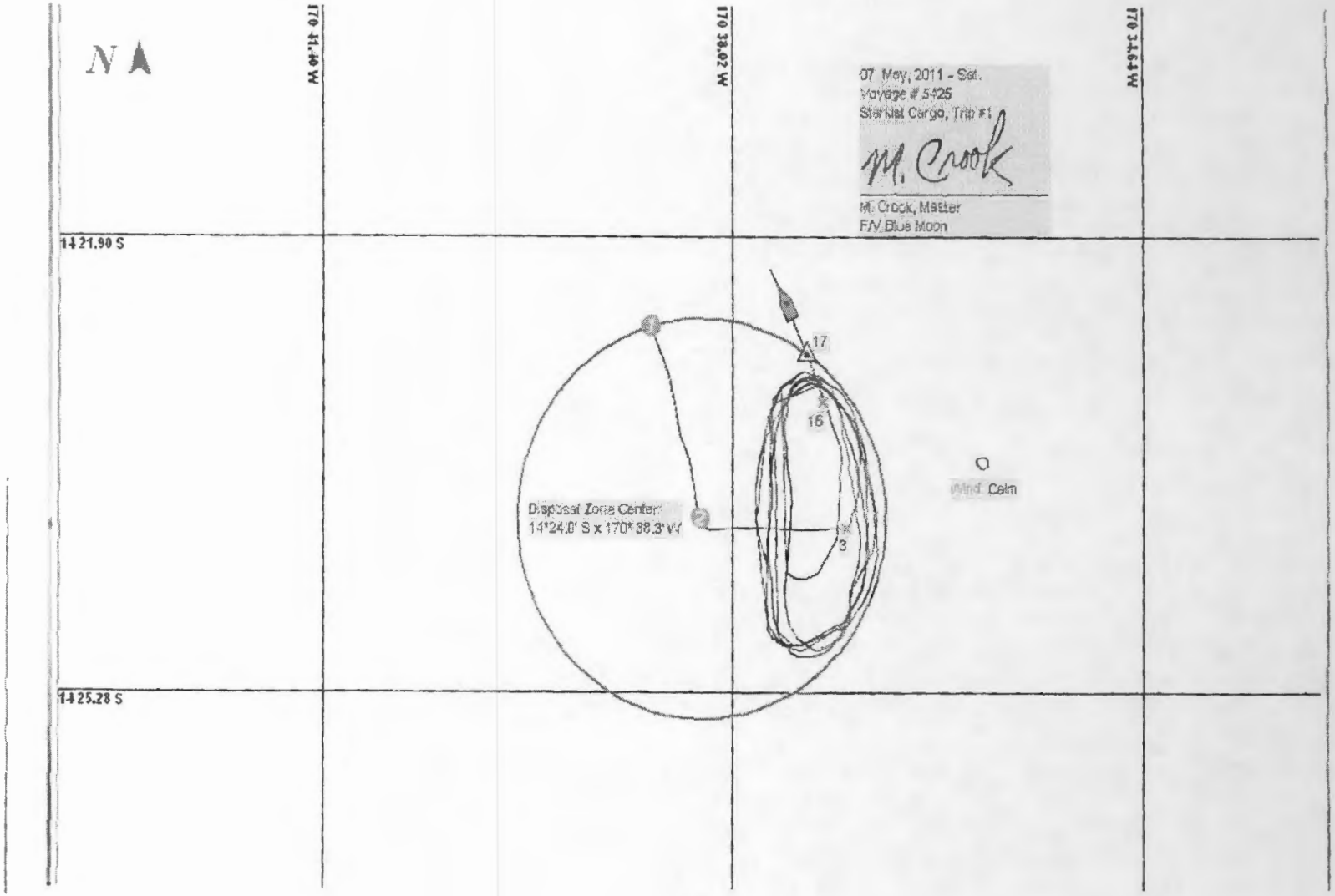
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.87 kts. Total Time Run 5-5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110 Gallons/min/kt.

Unusual Occurrences? None.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
07 May, 2011 - Sat.
Voyage # 5425
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
14 21.90 S
14 25.28 S
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: Calm

Date: 05/10/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5426

Permit # OD 93-01 & OD 93-02

	Time	
5/9	1800	Begin 1st Loading SK
	2131	Finish 1st Loading SK
5/10	0000	Begin 2nd Loading SK
	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	135,750	Gallons
Other	0	Gallons
Total	135,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	SE-10	75	29.52			
0602	Arrive Edge of Zone	#1	14°22.61' S	170°38.70' W	" "	70	"	SE-2.5+	8.4	163
0612	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.3	168
0620	Begin Discharge	#3	14°24.58' S	170°37.41' W	" "	"	29.53	" " X	8.2	135
" 35		#4	14°24.33' S	170°37.68' W	" "	"	"		8.5	220
" 50	Remarks:	#5	14°24.78' S	170°37.07' W	SE-12	80	29.54		8.7	031
0705		#6	14°24.05' S	170°37.50' W	" "	70	"		8.5	218
" 20		#7	14°25.09 S	170°37.41' W	" "	60	"	5	8.6	042
" 35		#8	14°24.48' S	170°37.80' W			"		8.8	221
" 50		#9	14°24.78' S	170°37.15' W			"		8.7	030
0805		#10	14°24.37' S	170°37.76' W			"		8.6	221
" 20		#11	14°25.02' S	170°37.72' W			29.55		8.9	056
" 35		#12	14°23.84' S	170°37.26' W	SE-10			10	9.0	223
" 50		#13	14°25.18' S	170°37.75' W	" "				9.0	055
0905		#14	14°29.86' S	170°37.18' W	SE-12	50			8.8	229
" 20		#15	14°25.28' S	170°37.87' W	" "	"			9.1	058
" 35		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0935	Finish Discharge	#16	14°23.78' S	170°37.17' W	SE-12	50%	29.55	SE-2.5+	9.0	267
0945	Exit Discharge Zone	#17	14°22.64' S	170°37.95' W	" "	"	"	" "	9.4	333
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Ellipse

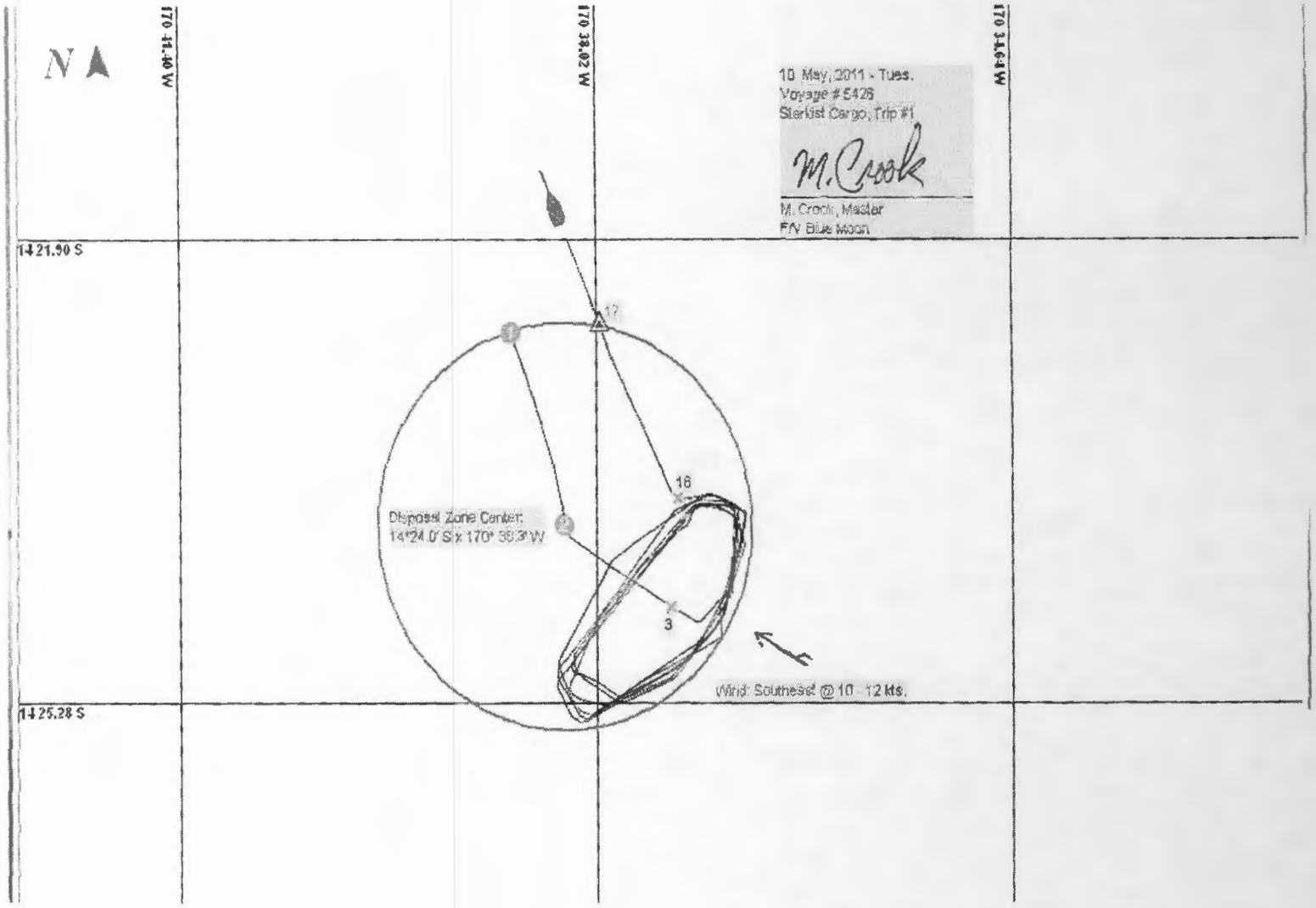
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.74 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 79.7 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.40 W
170 38.02 W
170 34.64 W
14 21.90 S
14 25.28 S
10 May, 2011 - Tues.
Voyage # 5426
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: Southeast @ 10 - 12 kts.

Date: 05/12/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5427

Permit # OD 93-01 & OD 93-02

	Time	
5/11	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
5/12	0030	Begin 2nd Loading SK
	0230	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:		
SK	178,750	Gallons
Other	0	Gallons
Total	178,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0500	Depart Starkist		14°16.50' S	170° 41.2' W	SE-5	50	29.57			
0553	Arrive Edge of Zone	#1	14°22.56' S	170°38.68' W	SE-7	"	"	SE-2.0	8.5	162
0605	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	"	29.58	" "	8.6	161
0613	Begin Discharge	#3	14°24.56 S	170°37.40 W		"	"	X	8.5	135
" 28		#4	14°24.18' S	170°37.71' W		"	"		8.2	220
" 43	Remarks:	#5	14°24.23' S	170°37.09' W		"	29.59		8.9	030
" 58		#6	14°24.27' S	170°37.73' W		40	"		8.6	217
0713		#7	14°25.03' S	170°37.56' W		"	"	5	8.8	049
" 28		#8	14°24.35' S	170°37.87' W		"	29.60		8.7	218
" 43		#9	14°24.56' S	170°36.96' W		"			9.0	047
" 58		#10	14°24.24 S	170°37.55' W		"			8.9	221
0813		#11	14°24.84' S	170°37.48' W		"			9.1	051
" 28		#12	14°24.10' S	170°37.65' W		25		10	8.9	219
" 43		#13	14°24.66' S	170°37.02 W		"			9.4	048
" 58		#14	14°24.87' S	170°38.07 W		"			9.0	221
0913		#15	14°24.86' S	170°37.18' W		"			9.5	028
" 28		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0925	Finish Discharge	#16	14°23.74' S	170°36.96' W	SE-7	25%	29.60	SE-2.0	9.7	336
0932	Exit Discharge Zone	#17	14°22.85 S	170°37.40' W	" "	"	"	" "	9.8	340
1025	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Ellipse

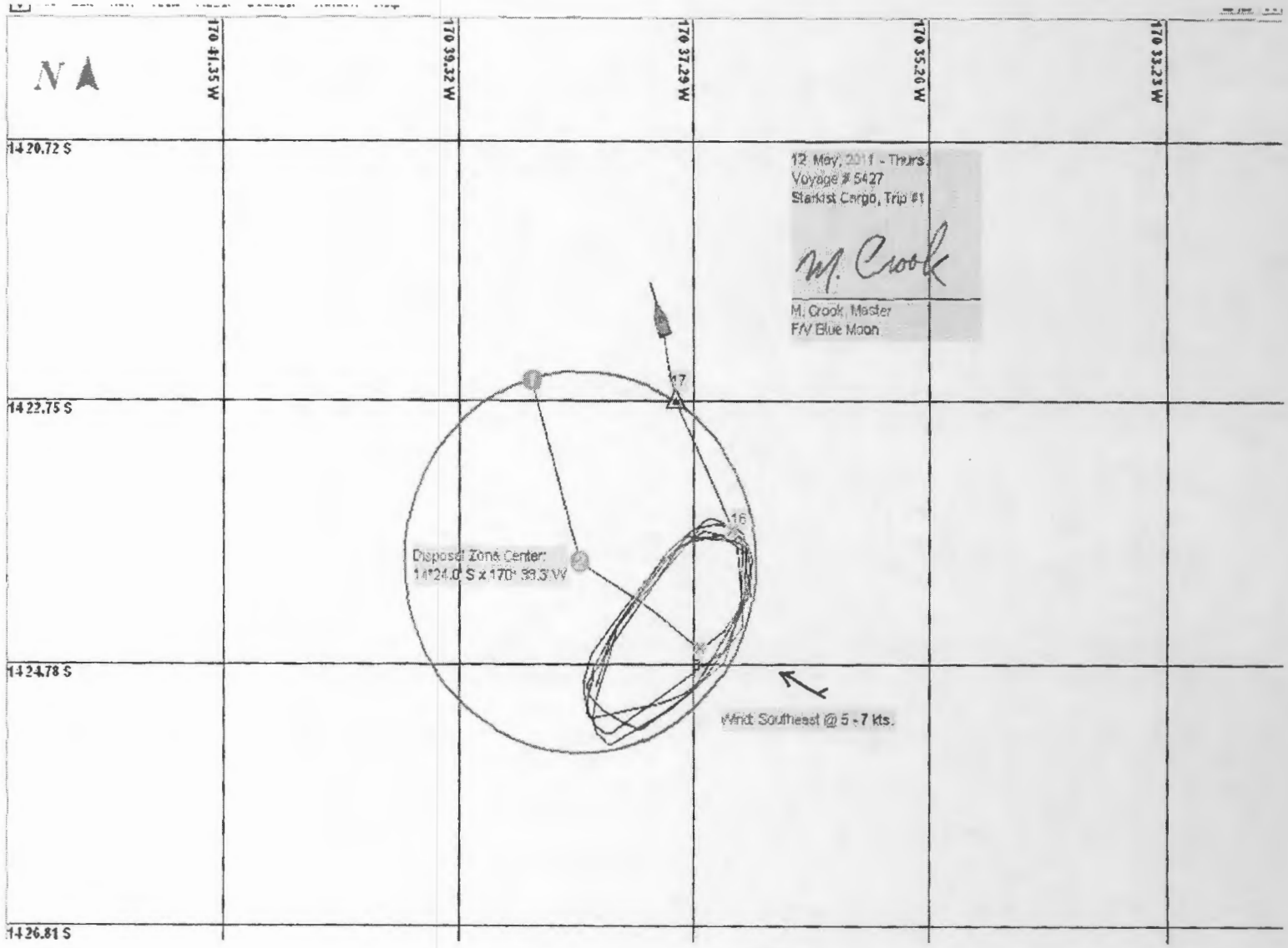
Total Discharge Time: 192 mins. Average Speed During Discharge: 8.94 kts. Total Time Run 5.4 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 104 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooks


N
170 41.35 W
170 39.32 W
170 37.29 W
170 35.26 W
170 33.23 W
14 20.72 S
14 22.75 S
14 24.78 S
14 26.81 S
12 May, 2011 - Thurs.
Voyage # 5427
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
17
16
Disposal Zone Center:
14°24.0' S x 170° 39.3' W
Wind: Southeast @ 5 - 7 kts.

Date: 05/14/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5428

Permit # OD 93-01 & OD 93-02

	Time	
5/13	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
5/14	0030	Begin 2nd Loading SK
	0330	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	196,750	Gallons
Other	0	Gallons
Total	196,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	50	29.66			
0558	Arrive Edge of Zone	#1	14°22.57' S	170°38.68' W	" "	30	29.67	E+SE-1.5	8.6	163
0608	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	"	29.68	" "	8.5	164
0617	Begin Discharge	#3	14°24.11' S	170°37.23 W	" "	"	"	" " X	8.2	090
" 32		#4	14°23.80 S	170°37.79' W	" "	"	29.69		8.7	179
" 47	Remarks:	#5	14°24.40' S	170°36.95' W	" "	"	"		8.5	006
0702		#6	14°23.06' S	170°37.75' W	East-12	"	"		8.6	214
" 17		#7	14°24.86' S	170°37.80' W				5	8.3	167
" 32		#8	14°23.61' S	170°37.02' W					8.8	003
47		#9	14°24.03' S	170°37.78' W					9.1	178
0802		#10	14°24.55' S	170°37.01' W					8.8	359
" 17		#11	14°23.47' S	170°37.78' W		40			9.3	180
" 32		#12	14°24.73' S	170°37.07' W				10	8.7	036
" 47		#13	14°23.15 S	170°37.33' W					8.5	270
0902		#14	14°24.53' S	170°37.94' W			29.70		9.3	180
" 17		#15	14°23.58' S	170°37.09' W			"		9.4	352
" 32		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0932	Finish Discharge	#16	14°24.05' S	170°37.79' W	East-12	40%	29.70	E+SE-1.5	9.2	179
0945	Exit Discharge Zone	#17	14°22.60 S	170°38.60' W	" "	"	"	" "	9.6	332
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

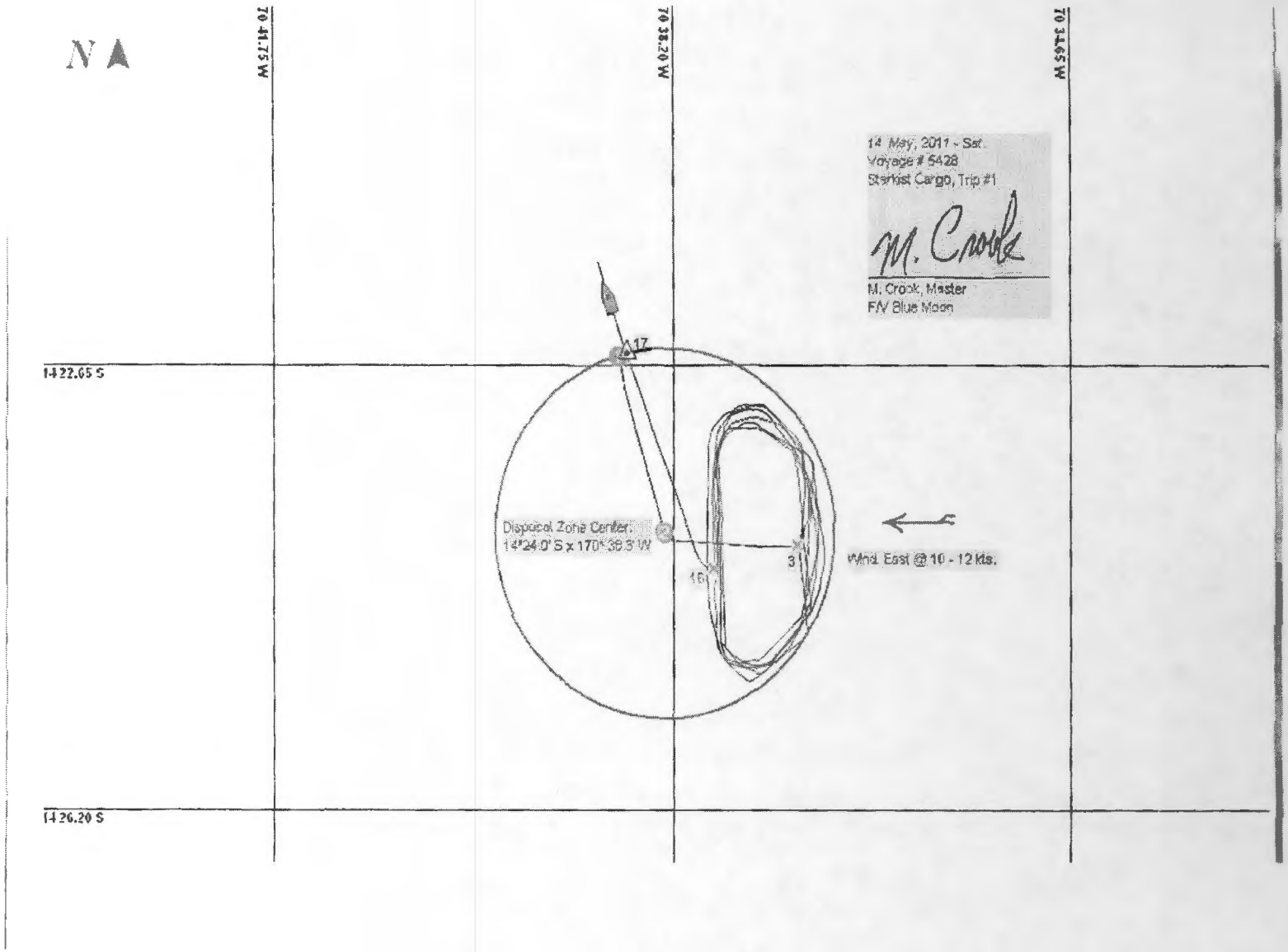
Total Discharge Time: 175 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 114.7 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook


N
70 41.75 W
70 38.20 W
70 34.65 W
14 22.65 S
14 26.20 S
14 May, 2011 - Sat.
Voyage # S428
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
Disposal Zone Center:
14°24.0' S x 170°38.3' W
16
3
Wind: East @ 10 - 12 Kts.

Date: 05/17/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5429

Permit # OD 93-01 & OD 93-02

	Time	
5/16	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
5/17	0010	Begin 2nd Loading SK
	0145	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	172,500	Gallons
Other	0	Gallons
Total	172,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	East-5	50	29.62			
0556	Arrive Edge of Zone	# 1	14°22.55' S	170°38.67' W	East-10	"	"	E+SE-1.5	8.7	159
0606	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.3	164
0616	Begin Discharge	# 3	14°24.04' S	170°37.21 W	" "	"	29.63	" " X	8.4	090
" 31		# 4	14°23.39' S	170°37.73' W		"	"		8.6	177
46	Remarks:	# 5	14°24.85' S	170°37.16' W		40	"		8.3	042
0701		# 6	14°23.04' S	170°37.31' W		"	29.64		8.6	301
" 16		# 7	14°24.81' S	170°37.73' W		50	"	5	8.8	180
" 31		# 8	14°23.30' S	170°37.05' W		60	"		8.6	322
" 46		# 9	14°24.06' S	170°37.79' W	East-12	"	"		8.9	183
0801		# 10	14°24.37' S	170°36.94' W	" "	50	"		8.7	001
" 16		# 11	14°23.10' S	170°37.72' W		"	"		9.1	179
" 31		# 12	14°24.66' S	170°37.07' W		"	"	10	8.8	012
" 46		# 13	14°23.12' S	170°37.32' W		40	29.65		9.2	181
0901		# 14	14°25.00' S	170°37.41' W		"	"		8.3	024
" 16		# 15	14°23.21' S	170°37.11' W		"	"		8.9	305
" 31		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0931	Finish Discharge	#16	14°23.13' S	170°37.85' W	East-12	40%	29.65	E+SE-1.5	9.3	001
0935	Exit Discharge Zone	#17	14°22.66' S	170°37.91' W	" "	"	"	" "	9.4	343
1035	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

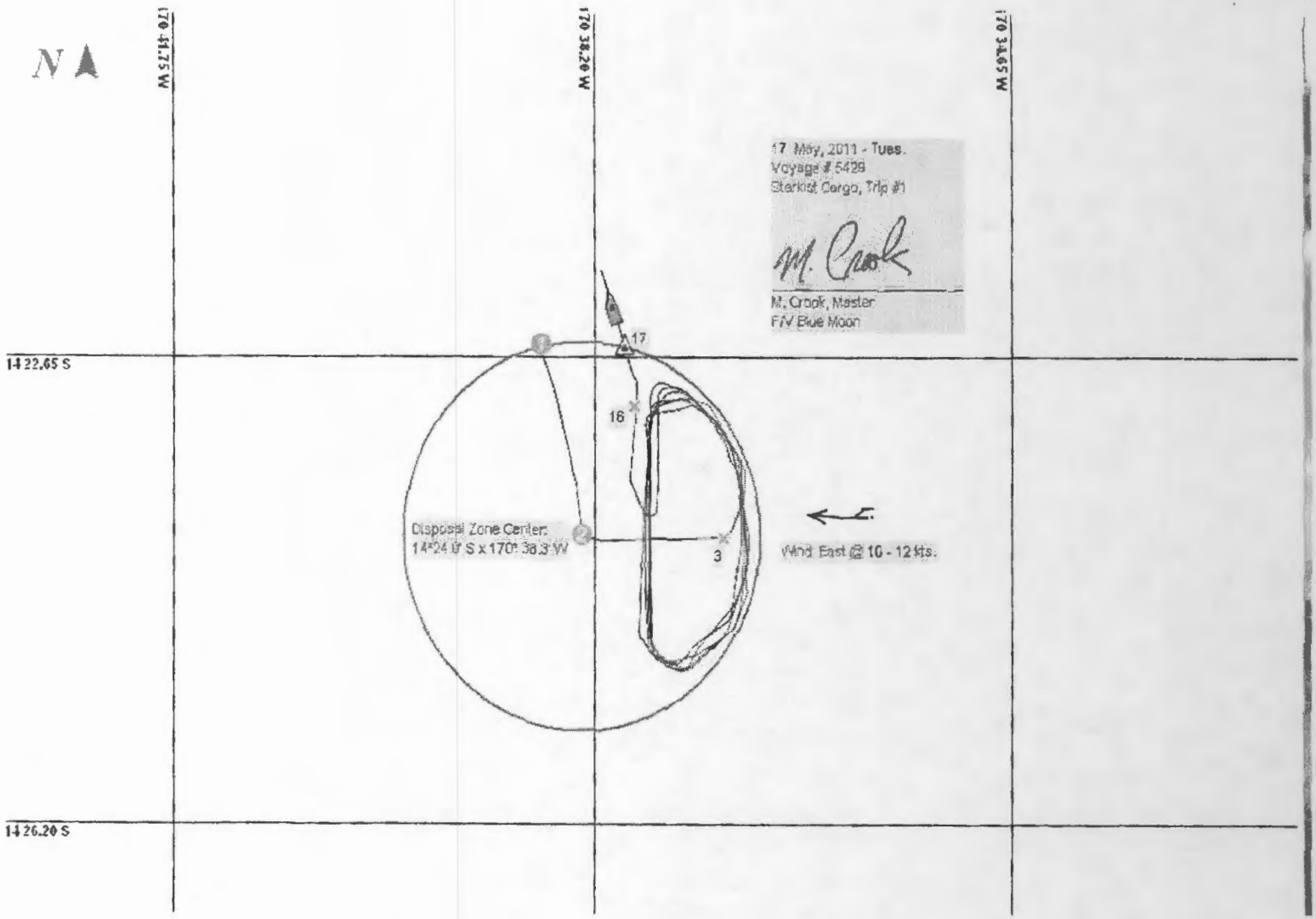
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.75 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? NO

Time and position of any floating material: None Discharge Rate: 101 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 41.75 W
170 38.20 W
170 34.65 W
14 22.65 S
14 26.20 S
17 May, 2011 - Tues.
Voyage # 5429
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 10 - 12 kts.

Date: 05/19/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5430

Permit # OD 93-01 & OD 93-02

	Time	
5/18	1600	Begin 1st Loading SK
	2145	Finish 1st Loading SK
5/17	0010	Begin 2nd Loading SK
	0100	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:			
SK	182,500	Gallons
Other	0	Gallons
Total	182,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	60	29.57			
0600	Arrive Edge of Zone	# 1	14°22. S	170°38. W	"	"	29.58	E+SE-1.5	8.7	162
0610	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	East-5	"	"	" "	8.6	167
0620	Begin Discharge	# 3	14°24.01' S	170°37.73 W	" "	"	"	" " X	8.4	090
" 35		# 4	14°23.88' S	170°37.55' W	" "	"	29.59	" "	8.6	179
" 50	Remarks:	# 5	14°24.27' S	170°36.84' W	" "	50	"	" "	8.3	006
0705		# 6	14°23.44' S	170°37.66' W	" "	"	29.60		8.5	177
" 20		# 7	14°24.37' S	170°36.87' W		"		5	8.7	014
" 35		# 8	14°23.25' S	170°37.71' W		60			8.4	186
" 50		# 9	14°24.57' S	170°36.82' W					8.9	017
0805		# 10	14°23.13' S	170°37.46' W					8.6	213
" 20		# 11	14°24.78' S	170°37.10' W					8.9	026
" 35		# 12	14°23.35' S	170°37.58' W				10	9.2	181
" 50		# 13	14°24.74' S	170°37.03' W		70			9.4	022
0905		# 14	14°23.20' S	170°37.18' W		"			9.0	301
" 20		# 15	14°24.75' S	170°37.44' W		"			9.1	174
" 35		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0935	Finish Discharge	#16	14°23.22' S	170°37.16' W	East-5	70%	29.60	E+SE-1.5	9.3	312
0940	Exit Discharge Zone	#17	14°22.69' S	170°37.17' W	" "	"	"	" "	9.5	318
1045	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge Slack Discharge Pattern Ellipse

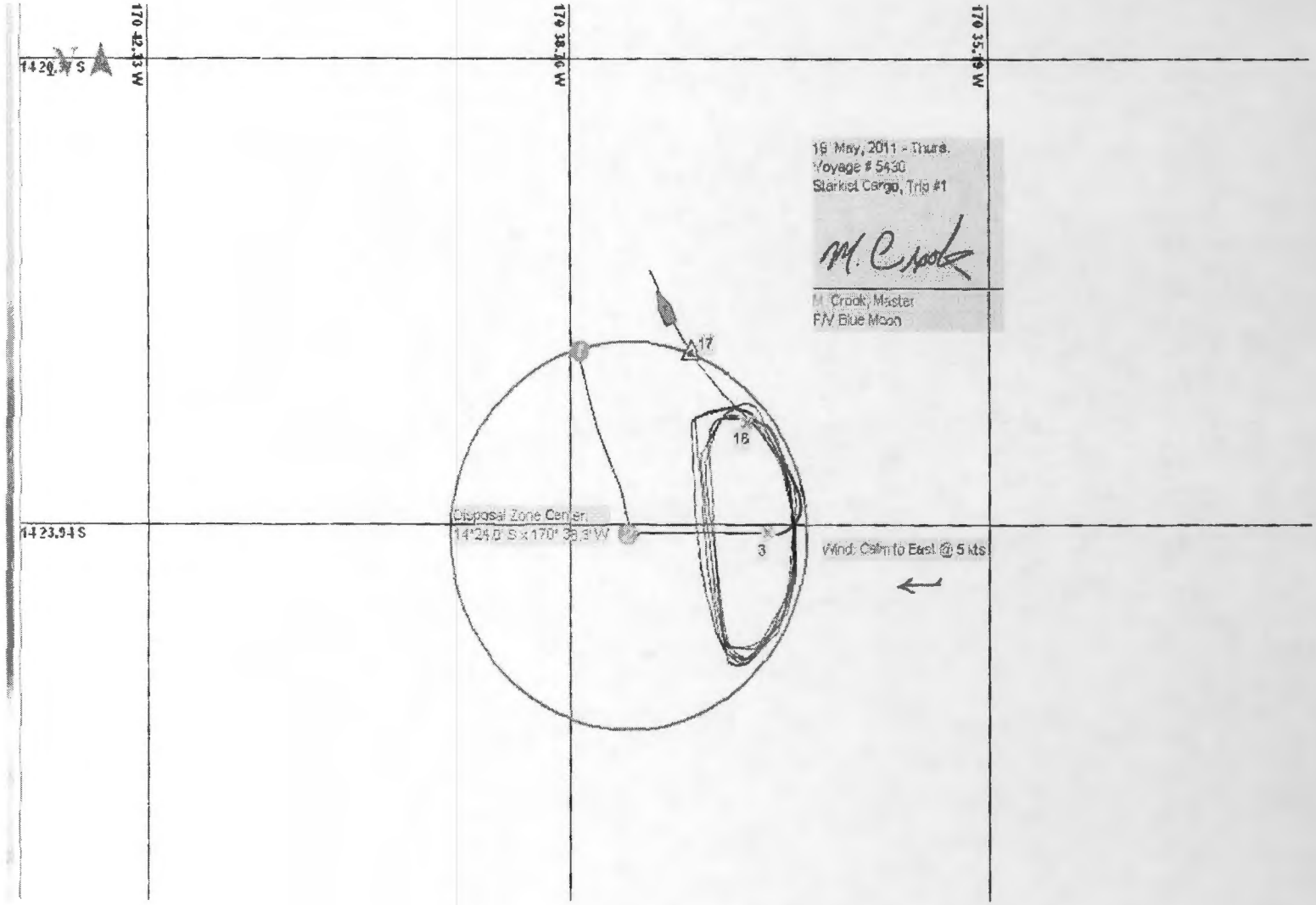
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.6 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 93 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook



170 42.33 W
170 38.76 W
170 35.19 W
14 20.37 S
14 23.94 S
19 May, 2011 - Thurs.
Voyage # 5430
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center
14°24.0' S x 170° 38.3' W
Wind: Calm to East @ 5 kts

Date: 05/21/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5431

Permit # OD 93-01 & OD 93-02

	Time	
5/20	1650	Begin 1st Loading SK
	2145	Finish 1st Loading SK
5/20	2330	Begin 2nd Loading SK
5/21	0315	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	176,500	Gallons
Other	0	Gallons
Total	176,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	75%	29.58			
0555	Arrive Edge of Zone	# 1	14°22. S	170°38. W	"	50	29.59	SE+5-1.5	8.7	163
0606	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	"	40	"	" "	8.5	162
0615	Begin Discharge	# 3	14°24.12' S	170°37.29' W	"	20	"	" " X	8.8	090
" 30		# 4	14°23.81' S	170°37.76' W	"		"	" "	8.9	180
" 45	Remarks:	# 5	14°24.55' S	170°37.00' W	"		"		8.6	006
0700		# 6	14°23.08' S	170°37.26 W	"		"		8.7	317
" 15		# 7	14°24.81' S	170°37.79' W	"		"	5	8.8	81
" 30		# 8	14°23.63' S	170°36.94' W	"		"		8.8	346
" 45		# 9	14°24.15' S	170°37.73' W	"		"		9.0	178
0800		# 10	14°24.20' S	170°36.90' W	"		29.60		8.8	001
" 15		# 11	14°23.13' S	170°37.61' W	"				8.9	182
" 30		# 12	14°24.47' S	170°36.95' W	"			10	8.2	003
" 45		# 13	14°23.22' S	170°37.68' W	"				9.0	184
0900		# 14	14°24.55' S	170°36.98' W		25%			9.4	011
" 15		# 15	14°23.00' S	170°37.66' W		"			8.8	186
" 30		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0930	Finish Discharge	# 16	14°23.41' S	170°37.67' W	Calm	25%	29.60	SE+5-1.5	9.3	337
0935	Exit Discharge Zone	# 17	14°22.65' S	170°37.12' W	"	"	"	" "	9.6	338
1035	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge Slack Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.5 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 101.7 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

N
170 42.33 W
170 38.76 W
170 35.19 W
14 20.37 S
14 23.94 S
21 May, 2011 - Sat.
Voyage # 5431
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center
14°24.0' S & 170° 38.3' W
Wind: Calm.

Date: 05/24/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5432

Permit # OD 93-01 & OD 93-02

	Time	
5/23	1745	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0200	Begin 2nd Loading SK
5/24	0715	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	133,750	Gallons
Other	0	Gallons
Total	133,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0505	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	30	29.58			
0555	Arrive Edge of Zone	# 1	14°22.56' S	170°38.67' W	ESE-7	"	"	SSE-1.5	8.7	164
0605	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.8	163
0623	Begin Discharge	# 3	14°23.96' S	170°37.27' W	ESE-10	35	"	" " X	7.6	028
38		# 4	14°23.48' S	170°37.77' W	" "	"	29.59	" "	8.7	184
53	Remarks: Ocean	# 5	14°24.26' S	170°36.91' W	" "	"	"	" "	8.7	000
0708	Monitoring	# 6	14°22.86' S	170°37.45' W	" "	"	"		8.3	263
23	Control Samples	# 7	14°24.83' S	170°37.82' W	" "	"	"	5	8.8	179
38	drawn at	# 8	14°23.60' S	170°36.80' W	" "	40	"		8.9	336
53	0615 hrs. Lat:	# 9	14°23.88' S	170°37.91' W	" "		"		9.0	181
0808	14°24.05' S	# 10	14°24.37' S	170°36.94' W	" "		"		9.1	001
23	170°37.22 W	# 11	14°23.26' S	170°37.95' W	ESE-12		"		8.9	184
38		# 12	14°24.87' S	170°37.94' W				10	8.7	138
53		# 13	14°2 S	170°3 W						
0908		# 14	14°2 S	170°3 W						
23		# 15	14°2 S	170°3 W						
38		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0853	Finish Discharge	#13	14°23.51' S	170°36.94' W	ESE-12	40%	29.59	SSE-1.5	8.9	002
1000	Exit Discharge Zone	#14	14°22.59' S	170°38.62 W	" "	"	29.60		9.4	344
10.50	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 150 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.75 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 102.5 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooke

N ▲

14 22.73 S

14 26.14 S

F/V Blue Moon Ocean Dumping Log

Date: 05/26/11 Thurs.

Voyage #: 5433

Permit # OD 93-01 & OD 93-02

	Time	
5/25	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	2230	Begin 2nd Loading SK
5/26	0130	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	199,750	Gallons
Other	0	Gallons
Total	199,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	ESE-15	50	29.55			
0605	Arrive Edge of Zone	# 1	14°22.57' S	170°38.66' W	" "	"	29.57	E+SE-2.0	8.2	164
0615	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "		29.58	"	8.0	166
0625	Begin Discharge	# 3	14°23.99' S	170°37.20' W			"	X	8.0	090
" 40		# 4	14°23.69 S	170°37.68 W			"		8.2	181
" 55	Remarks:	# 5	14°23.73' S	170°36.92' W			29.59		8.5	352
0710		# 6	14°23.89 S	170°37.67 W			"		8.3	179
" 25		# 7	14°24.10 S	170°36.89 W			"	5	8.5	000
" 40		# 8	14°23.29 S	170°37.84 W	ESE-18		"		8.4	183
" 55		# 9	14°24.51' S	170°36.99' W	" "		"		8.6	002
0810		# 10	14°22.93' S	170°37.32' W	" "		29.60		9.0	296
" 25		# 11	14°24.60' S	170°37.68' W	ESE-20		"		8.8	167
" 40		# 12	14°23.30' S	170°37.09' W	" "		"	10	9.0	330
" 55		# 13	14°24.45' S	170°37.83' W	" "	60	29.61		8.6	181
0910		# 14	14°24.40' S	170°36.94' W	" "	"	"		8.9	003
" 25		# 15	14°23.55' S	170°37.72' W	" "	70	"		8.8	182
" 40		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0940	Finish Discharge	#16	14°24.19' S	170°36.96' W	ESE-20	80%	29.61	E+SE-2.0	9.1	006
0948	Exit Discharge Zone	#17	14°22.84' S	170°37.35 W	" "	"	"	" "	9.4	334
1105	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge WNW Discharge Pattern Ellipse

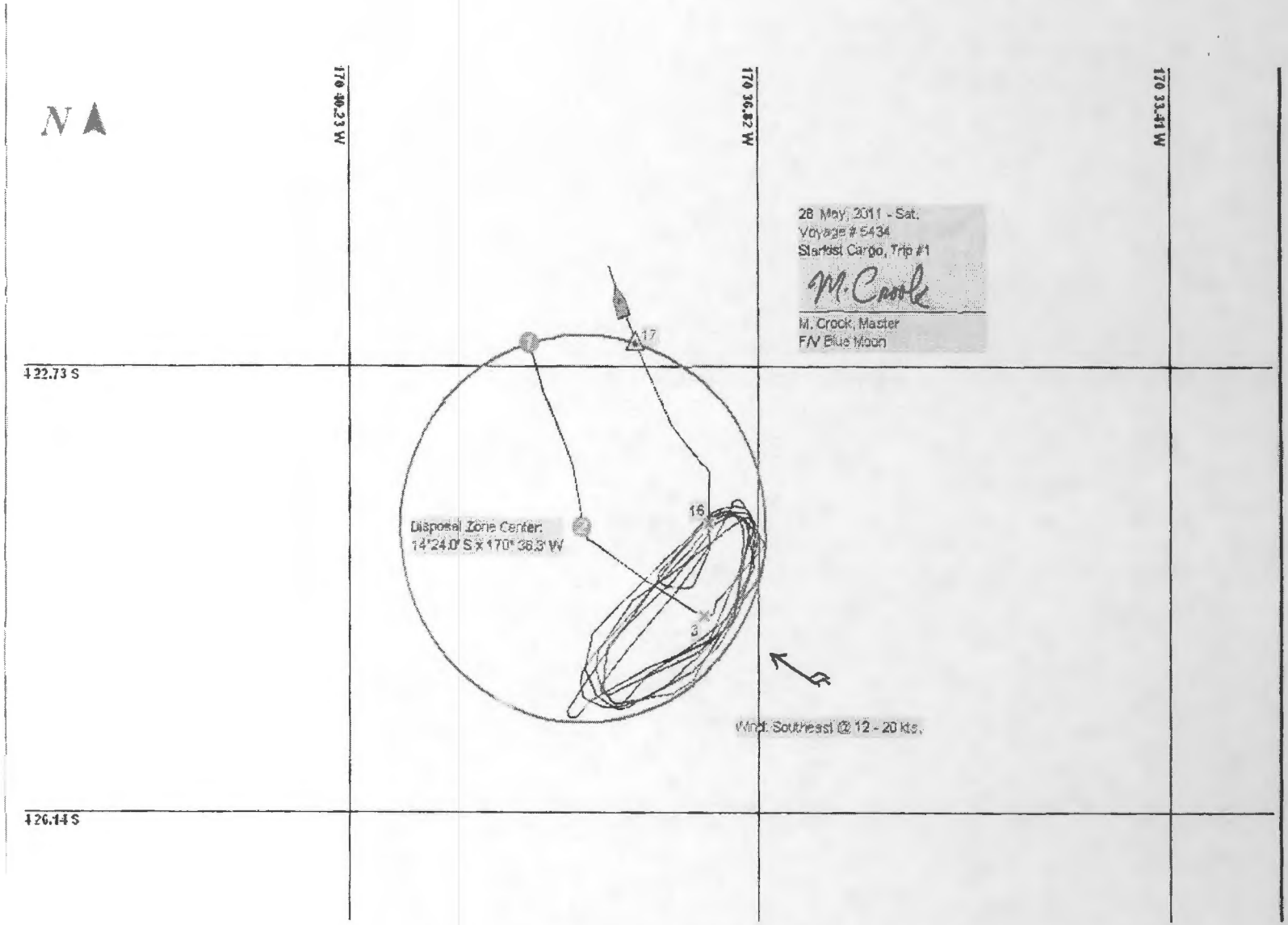
Total Discharge Time: 195 mins. Average Speed During Discharge: 8.62 kts. Total Time Run 5.9 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 118.8 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook


N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
28 May, 2011 - Sat.
Voyage # 5434
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14°24.0' S x 170° 36.3' W
1
2
3
16
17
Wind: Southeast @ 12 - 20 kts.

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

04 June, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
07 June, 2011

Introduction

On June 4, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0505: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0556: The *Blue Moon* entered the dumpzone circle @ 14*22.5' S x 170*38.7' W.

0607: The *Blue Moon* arrived at the dump-zone center, where observed east winds and southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0620: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were moderate with SE swells to 2.5 meters and east winds at 12 knots (kts.) with the barometer reading 29.62. Current set and drift, of the ship, were to the west at 1.0 knots. No floating materials or sea life were observed here.

0630: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.2 miles long (see Plot 1) until 0930 hrs.

0940: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east wind had increased to 15 kts. with cloudy skies. The waste plume was not visibly present here and was only apparent further down-current to the west some distance, (approximately 0.25 miles) away.. The current/wind drift of the ship was GPS determined to be westerly @ 1.3 knots. No sea life or floating materials were observed.

0950: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed the typical coloration qualities of a partially dispersed wastewater plume; scattered patches of heavy glassy surface sheen, remnants of the north to south reaching track lines left by the discharge vessel. The average drift rate of the ship with current and wind was GPS determined here to be westerly (W) at a rate of, again, 1.3 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1000: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position, 0.25 NM down-current from Station #2, showed no visible sign of the waste plume, likely being the center of the discharge ellipse that was moving to the west. Sea & wind conditions remained the same as with the previous sample stations and the drift rate of the ship between Stations #3 & 4 was 1.1 knots, again, to the west.

1010: Station Four monitoring. This area showed more of the surface sheen over clear blue subsurface water, pretty much the same color qualities as with Station #2 with this sheen being moderate rather than the heavy sheen noted at Station #2. The westerly current/drift rate of ship was noted here to be at 1.0 knots. No floating scum or suspended particulate materials were observed at any of these sample stations.

1020: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and was located right at the zone center (see Plot #1). The plume remnants were clearly visible at this location as distinct streaks and broken up patches of moderate to heavy glassy surface sheen with clear, natural appearing blue waters further down-current to the west and no floating or suspended scum or particulates. No notable sea life was observed at this position or any of the previous stations other than a few random seabirds flying by. The final barometer reading was 29.64 when monitoring activities were concluded at 1030 hrs. The *Blue Moon* exited the disposal zone at 1040 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 11:30.

Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: June 04, 2011	Sea Conditions: Moderate w/ Southeast swells to 2.5 meters. Wind: ESE @ 10 - 15 knots Visibility: Fair to Good Barometer: 29.62 - 29.64 Current Set & Drift Rate: West @ average 1.2 knots Sky: Cloudy w/ some passing rain					
Time	Station	Depth (meters)	Temp. (°C)	pH	Odor	Color
0620	Control	1	27.2	8.2	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	27.2	8.2		
		10	26.7	8.2		
0940	Station 1	1	27.2	8.2	None	Same color qualities as Control Station, clear and natural blue with no floating or suspended particulate material.
		3	27.2	8.2		
		10	27.2	8.2		
0950	Station 2	1	27.2	8.2	Slightly Pungent	Streaks and patches of heavy, glassy surface from broken up, north to south running, vessel discharge truck lines. No sign of floating or particulate materials.
		3	27.2	8.2		
		10	27.2	8.2		
1000	Station 3	1	27.2	8.1	none	Same color qualities as Control & Station #1
		3	27.2	8.1		
		10	27.2	8.2		
1010	Station 4	1	27.2	8.1	Slightly Pungent	Broad area of broken streaks and patches of moderate glassy surface sheen over deep, clear blue. No floating or suspended particulate or other material.
		3	27.2	8.1		
		10	27.2	8.2		
1020	Station 5	1	27.2	8.1	Slightly Pungent	Leading edge of the waste plume: Broken up, north to south running line of heavy surface sheen but no floating or suspended particulate materials noted.
		3	27.2	8.2		
		10	26.7	8.2		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control - C	14° 24.08'	South	170° 37.19'	West
Station 1	14° 23.95'	South	170° 36.89'	West
Station 2	14° 24.01'	South	170° 37.20'	West
Station 3	14° 24.02'	South	170° 37.65'	West
Station 4	14° 24.01'	South	170° 37.96'	West
Station 5	14° 23.98'	South	170° 38.27'	West

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

04 June, 2011

Monitoring Vessel:	F/V Blue Moon
Discharge Vessel:	F/V Blue Moon
Chief Investigator:	Mike Crook
Starkist Samoa Liaison:	Joe Carney
STP/Tri Marine Liaison:	Craig Double
Determination of Sampling Positions:	All positions obtained by GPS Satellite Navigation

Mike Crook
P.O. Box 4933
Pago Pago, AS 96799
07 June, 2011

Introduction

On June 4, 2011 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean dump-site area approximately seven miles south of Pago Pago Harbor, American Samoa, on a routine wastewater disposal operation and for the purpose of monitoring this disposal of tuna cannery generated hi-strength liquid wastes into the waters of the Pacific Ocean. This monitoring and reporting were conducted in compliance with general permit conditions and Appendix A of Ocean Dumping Permits OD 93-01 & OD 93-02.

Chronology of Events

0505: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0556: The *Blue Moon* entered the dumpzone circle @ 14*22.5' S x 170*38.7' W.

0607: The *Blue Moon* arrived at the dump-zone center, where observed east winds and southeasterly seas initially indicated disposal operations be conducted in the eastern dump-zone quadrant.

0620: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or east (E) of the dump-zone center, where discrete seawater samples were taken from depths of 1, 3, and 10 meters. Water temperatures, color, pH and observed sea/sky conditions with stations' position were recorded (Table 1). Seas at this time were moderate with SE swells to 2.5 meters and east winds at 12 knots (kts.) with the barometer reading 29.62. Current set and drift, of the ship, were to the west at 1.0 knots. No floating materials or sea life were observed here.

0630: The *Blue Moon* began disposal operations in the eastern dump zone quadrant and continued discharging cargo (high strength waste water) with a north (N) to south (S) reciprocal, elongated elliptical pattern, approximately 2.2 miles long (see Plot 1) until 0930 hrs.

0940: Station One Monitoring. Discrete water samples were drawn from depths of 1, 3, and 10 meters. Water temperatures, pH, stations' position and water color observations were all recorded in Table 1. The east wind had increased to 15 kts. with cloudy skies. The waste plume was not visibly present here and was only apparent further down-current to the west some distance, (approximately 0.25 miles) away.. The current/wind drift of the ship was GPS determined to be westerly @ 1.3 knots. No sea life or floating materials were observed.

0950: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. This position showed the typical coloration qualities of a partially dispersed wastewater plume; scattered patches of heavy glassy surface sheen, remnants of the north to south reaching track lines left by the discharge vessel. The average drift rate of the ship with current and wind was GPS determined here to be westerly (W) at a rate of, again, 1.3 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1000: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position, 0.25 NM down-current from Station #2, showed no visible sign of the waste plume, likely being the center of the discharge ellipse that was moving to the west. Sea & wind conditions remained the same as with the previous sample stations and the drift rate of the ship between Stations #3 & 4 was 1.1 knots, again, to the west.

1010: Station Four monitoring. This area showed more of the surface sheen over clear blue subsurface water, pretty much the same color qualities as with Station #2 with this sheen being moderate rather than the heavy sheen noted at Station #2. The westerly current/drift rate of ship was noted here to be at 1.0 knots. No floating scum or suspended particulate materials were observed at any of these sample stations.

1020: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and was located right at the zone center (see Plot #1). The plume remnants were clearly visible at this location as distinct streaks and broken up patches of moderate to heavy glassy surface sheen with clear, natural appearing blue waters further down-current to the west and no floating or suspended scum or particulates. No notable sea life was observed at this position or any of the previous stations other than a few random seabirds flying by. The final barometer reading was 29.64 when monitoring activities were concluded at 1030 hrs. The *Blue Moon* exited the disposal zone at 1040 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 11:30.

Prepared by M. Crook
Mike Crook, Principal Investigator

OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: June 04, 2011	Sea Conditions: Moderate w/ Southeast swells to 2.5 meters. Wind: ESE @ 10 - 15 knots Visibility: Fair to Good Barometer: 29.62 - 29.64 Current Set & Drift Rate: West @ average 1.2 knots Sky: Cloudy w/ some passing rain					
Time	Station	Depth (meters)	Temp. (°C)	pH	Odor	Color
0620	Control	1	27.2	8.2	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	27.2	8.2		
		10	26.7	8.2		
0940	Station 1	1	27.2	8.2	None	Same color qualities as Control Station, clear and natural blue with no floating or suspended particulate material.
		3	27.2	8.2		
		10	27.2	8.2		
0950	Station 2	1	27.2	8.2	Slightly Pungent	Streaks and patches of heavy, glassy surface from broken up, north to south running, vessel discharge track lines. No sign of floating or particulate materials.
		3	27.2	8.2		
		10	27.2	8.2		
1000	Station 3	1	27.2	8.1	none	Same color qualities as Control & Station #1
		3	27.2	8.1		
		10	27.2	8.2		
1010	Station 4	1	27.2	8.1	Slightly Pungent	Broad area of broken streaks and patches of moderate glassy surface sheen over deep, clear blue. No floating or suspended particulate or other material.
		3	27.2	8.1		
		10	27.2	8.2		
1020	Station 5	1	27.2	8.1	Slightly Pungent	Leading edge of the waste plume: Broken up, north to south running line of heavy surface sheen but no floating or suspended particulate materials noted.
		3	27.2	8.2		
		10	26.7	8.2		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control - C	14° 24.08'	South	170° 37.19'	West
Station 1	14° 23.95'	South	170° 36.89'	West
Station 2	14° 24.01'	South	170° 37.20'	West
Station 3	14° 24.02'	South	170° 37.65'	West
Station 4	14° 24.01'	South	170° 37.96'	West
Station 5	14° 23.98'	South	170° 38.27'	West

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON June, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	12	0	0	**12**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	2,118,500	0	0	**2,118,500**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	2,118,500	**0**

RUNNING TIME ON TRIPS: **65.05 hrs.**

DISCHARGE TIME ON TRIPS: **35.2 hrs.**

AV. GPM DISCHARGE RATE: **115.3 gal/min/kt**

AV. TRIP TIME: **5.42 hrs.**

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	**0.00%**

MASTER: M. Crook

M. Crook

Date: 06/02/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5435

Permit # OD 93-01 & OD 93-02

	Time	
6/01	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	2345	Begin 2nd Loading SK
6/02	0115	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0500	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	90	29.61			
0550	Arrive Edge of Zone	#1	14°22.55 S	170°38.69' W	East-5	100-Rain	29.62	South-2.0	8.7	162
0602	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	90	"	" "	8.4	165
0612	Begin Discharge	#3	14°24.11' S	170°37.25' W	East-7	"	"	" " X	8.8	170
" 27		#4	14°23.90' S	170°37.60' W	" "	"			8.7	178
42	Remarks:	#5	14°23.86' S	170°36.32' W	" "	80			8.9	351
57		#6	14°23.79' S	170°37.68' W	" "	"			9.1	180
0712		#7	14°24.36' S	170°36.97' W	" "	"		5	8.6	001
27		#8	14°23.64' S	170°37.63' W	" "	75			9.2	183
42		#9	14°24.20' S	170°36.88' W	" "	"			8.9	358
57		#10	14°24.04' S	170°37.63' W	East-10	70			9.3	181
0812		#11	14°24.44' S	170°36.93' W	" "				9.0	359
27		#12	14°23.55' S	170°37.62' W	" "			10	9.2	183
42		#13	14°24.04' S	170°36.95' W	" "		29.63		9.2	357
57		#14	14°24.16' S	170°37.58' W		65			9.5	179
0912		#15	14°2 S	170°3 W						
27		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0912	Finish Discharge	#15	14°23.64' S	170°37.62' W	East-10	65%	29.63	South-2.0	9.3	342
0925	Exit Discharge Zone	#16	14°22.60' S	170°37.93' W	" "	"	"	" "	9.6	340
1015	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 9.05 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/04/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5436

Permit # OD 93-01 & OD 93-02

	Time	
6/3	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	2345	Begin 2nd Loading SK
6/4	0100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	182,500	Gallons
Other	0	Gallons
Total	182,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0500	Depart Starkist		14°16.50' S	170° 41.2' W	East - 7	100	29.62			
0556	Arrive Edge of Zone	# 1	14°22.53' S	170°38.69' W	East - 10	"	"	SE - 2.5	8.3	161
0607	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "		"	" "	8.1	165
0630	Begin Discharge	# 3	14°23.94' S	170°37.21 W	East - 12		"	" X	7.7	031
" 45		# 4	14°23.81' S	170°37.76' W	" "		"		8.5	130
0700	Remarks: Ocean	# 5	14°24.69' S	170°37.07' W			"		8.3	024
" 15	Monitoring	# 6	14°23.30' S	170°37.75' W			"		8.4	183
" 30	Control Sampling	# 7	14°25.06' S	170°37.30' W			"	5	8.3	029
" 45	drawn at 0620	# 8	14°23.47' S	170°36.99' W			29.63		8.6	340
0800	at position:	# 9	14°24.08' S	170°37.77 W	East - 15		"		8.8	181
" 15	14° 24.08' S	# 10	14°24.27' S	170°36.93 W					8.5	002
" 30	170° 37.19' W	# 11	14°23.34' S	170°37.75' W			29.64		8.7	186
" 45		# 12	14°24.83' S	170°37.24' W			"	10	8.7	037
0900		# 13	14°23.06' S	170°37.50' W			"		9.1	224
" 15		# 14	14°24.97' S	170°37.75' W					9.0	177
" 30		# 15	14°2 S	170°3 W						
" 45		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0930	Finish Discharge	# 15	14°23.52' S	170°36.97 W	East - 15	100 - Rain	29.64	SE - 2.5	9.2	341
1040	Exit Discharge Zone	# 16	14°22.67' S	170°38.94' W	" "	100	"	" "	9.4	338
1130	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 8.6 kts. Total Time Run 6.4 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 118 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/07/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5437

Permit # OD 93-01 & OD 93-02

	Time	
6/6	1650	Begin 1st Loading SK
	2145	Finish 1st Loading SK
6/7	0115	Begin 2nd Loading SK
	0320	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	185,000	Gallons
Other	0	Gallons
Total	185,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	E-10	75	29.59			
0600	Arrive Edge of Zone	# 1	14°22.57' S	170°38.69' W	ESE-10	"	"	E+SE-2-0	8.3	165
0610	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	29.60	" "	8.1	164
0620	Begin Discharge	# 3	14°24.02 S	170°37.21' W	East-12	"	"	" " X	8.0	096
35		# 4	14°23.77' S	170°37.62 W	" "	"			8.4	183
50	Remarks:	# 5	14°24.34' S	170°36.88' W	" "	"			8.4	091
0705		# 6	14°23.32' S	170°37.70' W	" "	"			8.2	184
20		# 7	14°25.01' S	170°37.30' W	" "	"		5	8.5	037
35		# 8	14°23.43' S	170°37.73' W	" "	70			8.7	182
50		# 9	14°24.95' S	170°37.26' W	East-15	"			8.5	041
0805		# 10	14°23.52' S	170°36.97' W	" "	50			8.8	323
0820		# 11	14°24.54' S	170°37.72' W	" "	"			8.6	178
35		# 12	14°23.81' S	170°36.97' W	" "	"		10	8.7	352
50		# 13	14°23.77' S	170°37.74' W	" "	"	29.59		8.8	180
0905		# 14	14°24.19' S	170°36.94' W	East-18	60	"		8.9	001
20		# 15	14°2 S	170°3 W						
35		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0915	Finish Discharge	#15	14°23.37' S	170°37.64' W	East-18	60%	29.59	ESE-2.0	8.8	178
0923	Exit Discharge Zone	#16	14°22.53' S	170°38.35' W	" "	"	"	" "	9.2	336
1025	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 175 mins. Average Speed During Discharge: 8.33 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 127 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/09/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5438

Permit # OD 93-01 & OD 93-02

	Time	
6/8	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0030	Begin 2nd Loading SK
6/9	0215	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	177,500	Gallons
Other	0	Gallons
Total	177,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	East-5	100	29.51			
0555	Arrive Edge of Zone	# 1	14°22.57' S	170°38.72' W	East-7	"	"	ESE-2.0	8.5	160
0605	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"		8.2	156
0615	Begin Discharge	# 3	14°24.02' S	170°37.23 W	" "	90	"	X	8.5	090
" 30		# 4	14°23.84' S	170°37.69' W	" "	"	"		8.4	179
" 45	Remarks:	# 5	14°24.48' S	170°36.96' W		100	29.52		8.7	004
0700		# 6	14°23.15' S	170°37.71' W		"	"		8.5	183
" 15		# 7	14°24.99' S	170°37.32' W		"	"	5	8.3	042
" 30		# 8	14°23.10' S	170°37.25' W		"	29.53		9.0	296
" 45		# 9	14°24.62' S	170°37.74' W		"	"		8.6	178
0800		# 10	14°23.31' S	170°37.00 W			"		9.3	332
" 15		# 11	14°24.50' S	170°37.73' W	East-10	100 RAIN	29.55		9.0	179
" 30		# 12	14°23.82' S	170°36.90' W	" "	" "	"	10	9.2	351
" 45		# 13	14°24.39' S	170°37.74' W	" "	" "	29.58		9.2	180
0900		# 14	14°24.01' S	170°36.70 W	" "	100	29.59		8.8	001
" 15		# 15	14°2 S	170°3 W						
" 30		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0915	Finish Discharge	#15	14°23.19' S	170°37.63' W	East-10	100%	29.59	ESE-2.0	9.1	355
0919	Exit Discharge Zone	#16	14°22.76' S	170°37.57' W	" "	"	"	" "	9.4	348
1025	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.33 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None ~~other than Fueling on Return~~ M.C. Cancelled.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

Date: 06/11/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5439

Permit # OD 93-01 & OD 93-02

	Time	
6/10	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
6/11	0030	Begin 2nd Loading SK
	0230	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	168,750	Gallons
Other	0	Gallons
Total	168,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	20	29.55			
0603	Arrive Edge of Zone	# 1	14°22.56' S	170°38.67' W	East-7	"	29.56	ESE-2.0	8.7	162
0613	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	25	29.57	" "	8.5	158
0621	Begin Discharge	# 3	14°24.01 S	170°37.22 W	East-8	30	"	" " X	8.4	090
36		# 4	14°23.72' S	170°37.58' W	" "	"	29.58		5.6	179
51	Remarks:	# 5	14°24.14' S	170°36.84' W	" "	"	29.59		8.7	003
0706		# 6	14°23.28' S	170°37.67' W	" "		"		8.3	185
" 21		# 7	14°24.75' S	170°37.08' W	" "		"	5	8.8	036
" 36		# 8	14°22.73' S	170°37.51' W	East-10		29.58		9.0	304
" 51		# 9	14°24.83' S	170°37.67' W	" "		29.57	ESE-1.5	8.9	178
0806		# 10	14°23.46' S	170°36.97 W	" "		29.56	" "	9.1	329
" 21		# 11	14°24.20' S	170°37.74' W		40		" "	9.2	181
36		# 12	14°23.93' S	170°36.93' W				10	9.4	352
51		# 13	14°24.47' S	170°37.74' W					9.4	182
0906		# 14	14°24.33' S	170°36.91 W					9.2	003
" 21		# 15	14°23.84 S	170°37.66' W					9.0	179
" 36		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0935	Finish Discharge	#16	14°23.45 S	170°37.65' W	East-10	40%	29.56	ESE-1.5	9.5	342
0940	Exit Discharge Zone	#17	14°22.59' S	170°37.72' W	" "	"	"	" "	9.5	339
1200	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge Slack Discharge Pattern Ellipse

Total Discharge Time: 194 mins. Average Speed During Discharge: 8.96 kts. Total Time Run 6.8 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 97 Gallons/min/kt.

Unusual Occurrences? None (Finishing 1030-)

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/15/11 Weds.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5440

Permit # OD 93-01 & OD 93-02

	Time	
6/13	1745	Begin 1st Loading SK
	2000	Finish 1st Loading SK
	1615	Begin 2nd Loading SK
6/14	2045	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	175,500	Gallons
Other	0	Gallons
Total	175,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0510	Depart Starkist		14°16.50' S	170°41.2' W	ESE-5	50%	29.60			
0558	Arrive Edge of Zone	#1	14°22.58' S	170°38.69' W	ESE-7	"	"	E-SE:1.5	8.6	162
0608	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "		"		8.3	171
0617	Begin Discharge	#3	14°24.13 S	170°37.19' W	" "		29.61	X	8.2	080
" 32		#4	14°23.62' S	170°37.73' W	" "		"		8.6	178
" 47	Remarks:	#5	14°24.45' S	170°36.95' W	East-10	60	"		8.5	006
0702		#6	14°23.11' S	170°37.52' W	" "	"	"		8.3	230
" 17		#7	14°25.01' S	170°37.61' W	" "	"	29.62	5	8.7	118
" 32		#8	14°23.35' S	170°37.01' W	" "	"			8.6	324
" 47		#9	14°24.41' S	170°37.74 W	" "	"			8.7	180
0802		#10	14°24.48' S	170°37.02' W	" "	"			8.8	025
" 17		#11	14°23.56' S	170°37.76' W		70			9.2	178
" 32		#12	14°24.82' S	170°37.32' W		"		10	9.6	~~034~~ 034
" 47		#13	14°23.19' S	170°37.63' W		"	29.63		8.7	186
0902		#14	14°24.95' S	170°37.20' W	ESE-12	80	"		8.9	014
" 17		#15	14°2 S	170°3 W						
" 32		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°23.18 S	170°37.22 W	East-12	70				
0917	Finish Discharge	#15	14°2 ↓ S	170°3 ↓ W	↓	↓	29.63	E-SE:1.5	9.2	330
0920	Exit Discharge Zone	#16	14°22.78' S	170°37.43 W	" "	"	"	" "	9.4	325
1045	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.1 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/17/11 Fri.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5441

Permit # OD 93-01 & OD 93-02

	Time	
6/16	1530	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0100	Begin 2nd Loading SK
6/17	0200	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2 ____

Volume Loaded:

SK	183,250	Gallons
Other	0	Gallons
Total	183,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0510	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	80	29.58			
0617	Arrive Edge of Zone	# 1	14°22.56' S	170°38.69' W	ESE-10	"	"	SE-1.5	8.5	164
0617	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	SE-10	90	29.59	" "	8.2	166
0625	Begin Discharge	# 3	14°24.51' S	170°37.33 W	" "	"	"	" " X	8.3	135
" 40		# 4	14°24.40' S	170°37.63' W	" "	90-Rain	"	" "	8.3	220
" 55	Remarks:	# 5	14°24.91' S	170°37.14' W	SE-12	90	"	" "	8.1	021
0710		# 6	14°23.97' S	170°37.39' W	" "	"	"	" "	8.5	221
" 25		# 7	14°25.11' S	170°37.38' W	" "	85	"	" " 5	8.4	053
" 40		# 8	14°24.18' S	170°37.51' W	" "	80	"	" "	8.7	218
" 55		# 9	14°25.22' S	170°37.88' W	" "	75	"	" "	8.8	060
0810		# 10	14°23.90' S	170°37.30' W	" "	"	"	" "	8.7	235
" 25		# 11	14°25.30' S	170°37.72' W	" "	70	"	"	8.7	086
" 40		# 12	14°24.13' S	170°36.81' W	" "	"	"	10	9.1	021
" 55		# 13	14°25.26' S	170°38.13' W	SE-15	60	"		9.2	147
0910		# 14	14°24.07' S	170°37.25' W	" "	30	"		9.0	046
" 25		# 15	14°2 S	170°3 W						
		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0920	Finish Discharge	#15	14°24.08' S	170°37.33' W	SE-15	50%	29.59	SE-1.5	9.1	328
0928	Exit Discharge Zone	#16	14°22.55' S	170°37.87' W	" "	"	"	" "	9.4	334
1025	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Ellipse

Total Discharge Time: 175 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 120.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/21/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5442

Permit # OD 93-01 & OD 93-02

	Time	
6/20	1645	Begin 1st Loading SK
	2140	Finish 1st Loading SK
	0100	Begin 2nd Loading SK
6/21	0330	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	176,250	Gallons
Other	0	Gallons
Total	176,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
1130	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	100	27.59			
1225	Arrive Edge of Zone	# 1	14°22.54' S	170°38.65' W	East-15	90	"	ESE-2.0	8.5	163
1235	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.2	156
1245	Begin Discharge	# 3	14°23.57' S	170°37.23' W	" "	80	29.57	" " X	8.0	090
1300		# 4	14°23.71' S	170°37.63' W	" "	"	"	" "	8.4	183
" 15	Remarks:	# 5	14°24.49' S	170°36.78' W	" "	"	29.55	" "	8.6	012
" 30		# 6	14°23.18' S	170°37.69' W		70	"	" "	8.5	184
" 45		# 7	14°24.71' S	170°37.01' W		"	29.54	" " 5	8.8	001
1400		# 8	14°23.02' S	170°37.66' W		"	29.53	ESE-2.0	8.6	186
" 15		# 9	14°24.86 S	170°37.68' W		"	"	" "	8.5	117
" 30		# 10	14°23.45' S	170°37.04' W		80	29.52		9.2	340
" 45		# 11	14°23.78' S	170°37.71' W		"	29.51		8.9	183
1500		# 12	14°24.46' S	170°36.77' W		70	"	10	9.1	002
" 15		# 13	14°23.11' S	170°37.73' W					9.2	196
" 30		# 14	14°2 S	170°3 W						
		# 15	14°2 S	170°3 W						
		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
1525	Finish Discharge	#14	14°23.05' S	170°37.72 W	East-15	70%	29.51	ESE-2.0	9.3	349
1529	Exit Discharge Zone	#15	14°22.63' S	170°37.87' W	" "	"	"	" "	9.4	338
1630	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 160 mins. Average Speed During Discharge: 8.76 kts. Total Time Run 5.0 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 126 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/23/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5443

Permit # OD 93-01 & OD 93-02

	Time	
6/22	1630	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0210	Begin 2nd Loading SK
6/23	0350	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	187,500	Gallons
	Other	0	Gallons
	Total	187,500	Gallons

		WP#	GPS Position				Wind	% Clouds	Barometer	Swell	Speed	Course
										Metric	kts	True°
1105	Depart Starkist		14°16.50'	S	170° 41.2'	W	East-15	50%	29.59			
1155	Arrive Edge of Zone	# 1	14°22.	S	170°38.	W	East-18	"	"	East-2.0	8.5	161
1207	Arrive Zone Center	# 2	14°24.0	S	170°38.3	W	East-20	60	29.60	" "	8.1	157
1215	Begin Discharge	# 3	14°24.03'	S	170°37.23	W	" "	"	29.59	" " X	7.8	070
30		# 4	14°23.56'	S	170°37.71'	W	" "		"		8.4	181
45	Remarks:	# 5	14°25.06'	S	170°37.55	W	" "		29.58		8.2	062
1300		# 6	14°23.44'	S	170°37.03'	W	" "		"		8.6	345
15		# 7	14°24.09'	S	170°37.94'	W			29.57	5	8.5	177
30		# 8	14°24.58'	S	170°37.11'	W			29.55		8.6	016
45		# 9	14°23.32'	S	170°37.83'	W		70	29.53		8.8	184
1400		# 10	14°25.10'	S	170°37.48'	W		80	29.52		8.5	045
15		# 11	14°23.41'	S	170°37.05'	W		"	"		8.7	344
30		# 12	14°24.84'	S	170°37.92'	W		75	29.51	10	9.1	181
45		# 13	14°23.62'	S	170°37.16'	W		"	"		9.3	002
1500		# 14	14°23.59'	S	170°38.15'	W		"	"		8.9	181
15		# 15	14°2	S	170°3	W						
30		# 16	14°2	S	170°3	W						
		# 17	14°2	S	170°3	W				15		
		# 18	14°2	S	170°3	W						
		# 19	14°2	S	170°3	W						
		# 20	14°2	S	170°3	W						
			14°2	S	170°3	W						
			14°2	S	170°3	W				20		
			14°2	S	170°3	W						
1515	Finish Discharge	#15	14°23.13'	S	170°37.88'	W	East-20	75%	29.51	East-2.0	9.1	338
1519	Exit Discharge Zone	#16	14°22.61'	S	170°38.04'	W	" "	"		" "	9.4	336
1615	Secure SK Dock		14°16.50'	S	170°41.2'	W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 8.67 kts. Total Time Run 5.2 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 120.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/25/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5444

Permit # OD 93-01 & OD 93-02

	Time	
6/24	1630	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0200	Begin 2nd Loading SK
6/25	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	179,250	Gallons
Other	0	Gallons
Total	179,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	50	29.51			
0605	Arrive Edge of Zone	#1	14°22.37' S	170°38.67' W	East-12	"	"	East-1.5	8.3	163
0615	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	90	"	" "	8.1	161
0623	Begin Discharge	#3	14°24.03' S	170°37.16' W	" "	"	"	" " X	8.0	090
" 38		#4	14°23.60' S	170°37.69' W		"	"	" "	8.4	181
" 53	Remarks:	#5	14°24.68' S	170°37.03' W		"	29.52	" "	8.2	024
0708		#6	14°22.89' S	170°37.53' W		50			8.3	238
" 23		#7	14°24.78' S	170°37.86' W	East-15	60		5	8.6	180
" 38		#8	14°23.47' S	170°36.98' W	" "	70			8.8	332
" 53		#9	14°24.13' S	170°37.78' W		"			8.7	185
0808		#10	14°24.75' S	170°37.11' W	East-18	75			8.5	026
" 23		#11	14°23.19' S	170°37.80' W		80			8.7	185
" 38		#12	14°24.88' S	170°37.22' W	East-15	90-Rain		10	8.8	017
" 53		#13	14°23.09' S	170°37.23' W	" "	" "			9.5	312
0908		#14	14°24.27' S	170°37.83' W	East 20	90	29.53		9.1	183
" 23		#15	14°23.93' S	170°37.05' W	" "	"	"		9.1	001
		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0930	Finish Discharge	#16	14°22.73' S	170°37.34' W	East-20	95%	29.53	East-1.5	8.9	298
0934	Exit Discharge Zone	#17	14°22.66' S	170°37.74' W	" "	"	"	" "	9.2	319
1030	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 187 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.66 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

Date: 06/28/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5445

Permit # OD 93-01 & OD 93-02

Time		
6/28 0000	Begin 1st Loading SK	
0530	Finish 1st Loading SK	
/	Begin 2nd Loading SK	
	Finish 2nd Loading SK	

Trip # 1 - X
Trip # 2

Volume Loaded:		
SK	127,500	Gallons
Other	0	Gallons
Total	127,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0540	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	0/c-100	29.53			
0630	Arrive Edge of Zone	#1	14°22.55' S	170°38.67' W	East-5	" "	29.54	ESE-2.0	8.6	158
0640	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	ENE-5		29.55	Mix-E-SW	8.5	164
0648	Begin Discharge	#3	14°24.10' S	170°37.12' W	" "		29.56	to 2.6 X	8.5	090
0703		#4	14°23.52' S	170°37.65' W	" "		"		8.3	179
18	Remarks:	#5	14°24.24' S	170°36.80 W	" "	90	"		8.7	358
33		#6	14°23.50' S	170°37.75' W	ENE-7	"	"		8.6	183
48		#7	14°24.28' S	170°36.94' W	" "		"	5	8.8	000
0803		#8	14°23.37' S	170°37.66' W	" "		"		8.4	201
18		#9	14°24.80' S	170°37.15' W	" "		29.57		8.7	033
33		#10	14°23.70' S	170°37.76' W	" "		"		9.1	170
48		#11	14°24.60' S	170°37.05 W	ENE-10		29.58		8.6	006
0903		#12	14°2 S	170°3 W				10		
18		#13	14°2 S	170°3 W						
33		#14	14°2 S	170°3 W						
		#15	14°2 S	170°3 W						
		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0903	Finish Discharge	#12	14°23.27' S	170°37.12' W	ENE-10	90	29.58	Mix-2.0	8.5	301
0907	Exit Discharge Zone	#13	14°22.79' S	170°37.56' W	" "	"	"	" "	9.3	324
1005	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 135 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 4.4 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 108.5 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/30/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5446

Permit # OD 93-01 & OD 93-02

	Time	
6/29	1600	Begin 1st Loading SK
	2185	Finish 1st Loading SK
6/30	0200	Begin 2nd Loading SK
	0300	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	191,750	Gallons
Other	0	Gallons
Total	191,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0520	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	30	29.58			
0612	Arrive Edge of Zone	# 1	14°22.59' S	170°38.67' W	East - 7	"	"	SE + ESE 1.5	8.5	164
0622	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	SE - 7	"	"	" "	8.3	162
0630	Begin Discharge	# 3	14°24.65' S	170°37.40 W	" "	35	"	" " X	8.2	135
" 45		# 4	14°24.21' S	170°37.46 W	" "	"	29.59		8.4	221
0700	Remarks:	# 5	14°25.19' S	170°37.47 W	" "		"		8.2	018
15		# 6	14°23.97' S	170°37.44' W	" "		"		8.5	216
30		# 7	14°25.19' S	170°37.59' W	SE - 10		"	5	8.7	247
45		# 8	14°23.71' S	170°36.92 W		40			8.4	252
0800		# 9	14°25.07' S	170°37.70' W		60			8.8	047
15		# 10	14°23.65' S	170°37.10 W		"			8.5	226
30		# 11	14°25.11' S	170°37.75 W		75			9.0	048
45		# 12	14°23.70' S	170°37.09 W		"		10	8.8	231
0900		# 13	14°25.12' S	170°37.72 W		"			9.1	034
15		# 14	14°23.93' S	170°37.28 W		80			8.9	229
30		# 15	14°25.08' S	170°37.97' W		90	29.60		9.0	037
		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0935	Finish Discharge	# 16	14°24.23' S	170°37.71 W	SE - 10	90%	29.60	SE + ESE 1.5	9.2	006
0947	Exit Discharge Zone	# 17	14°22.60 S	170°38.21' W	" "	"	"	" "	9.5	341
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Ellipse

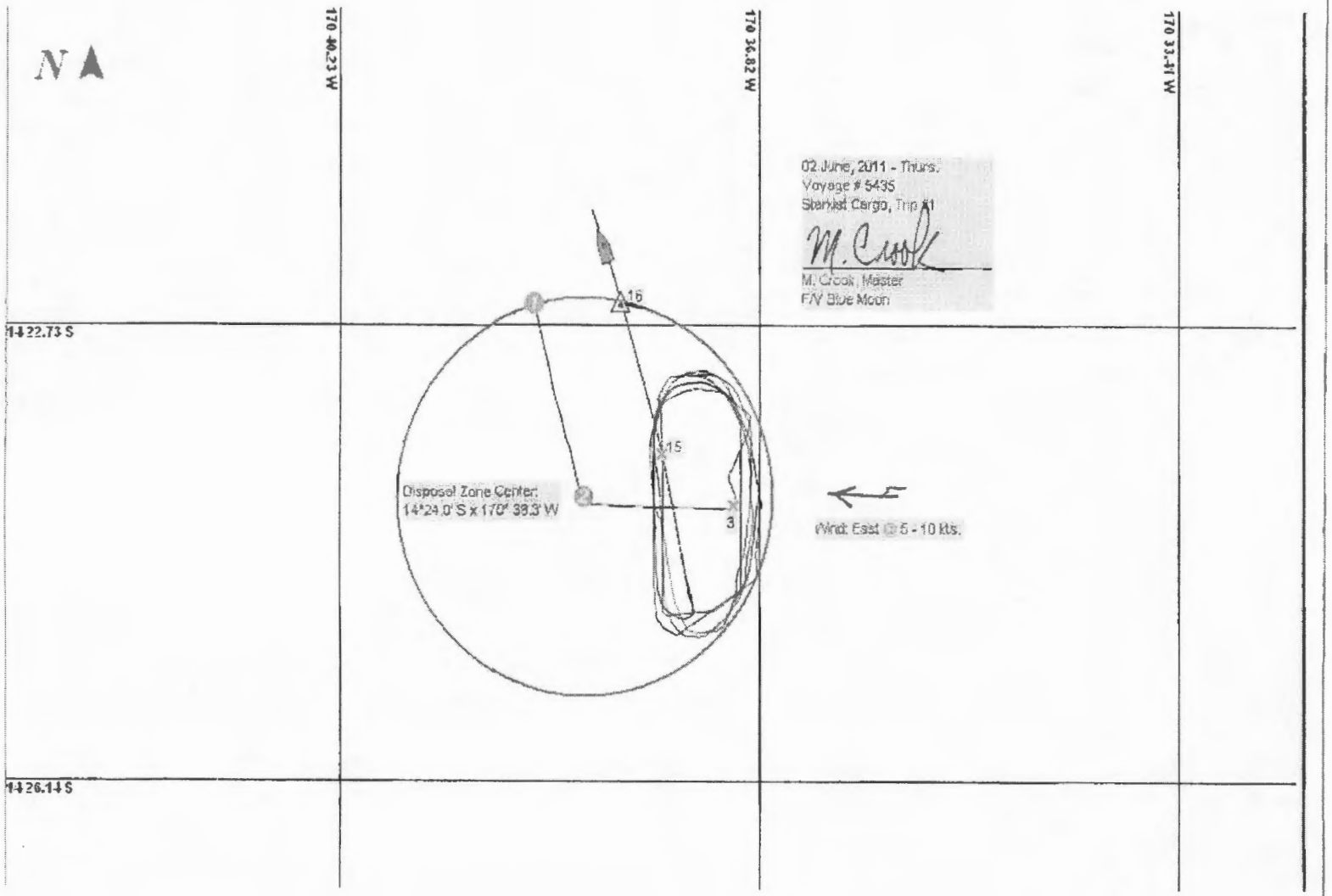
Total Discharge Time: 185 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.33 hr.

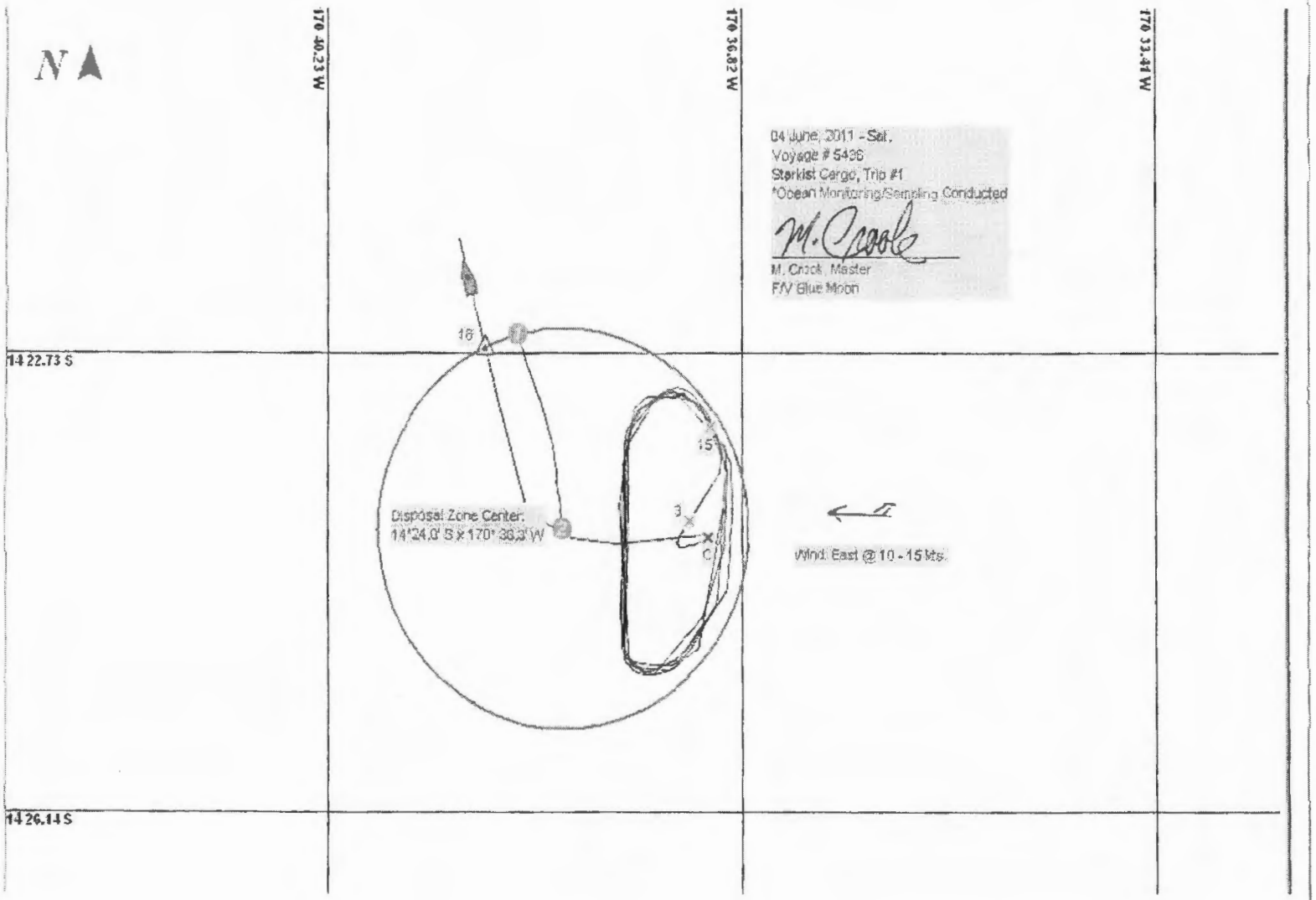
Navigational Plot made: Yes Presence of Plume? No

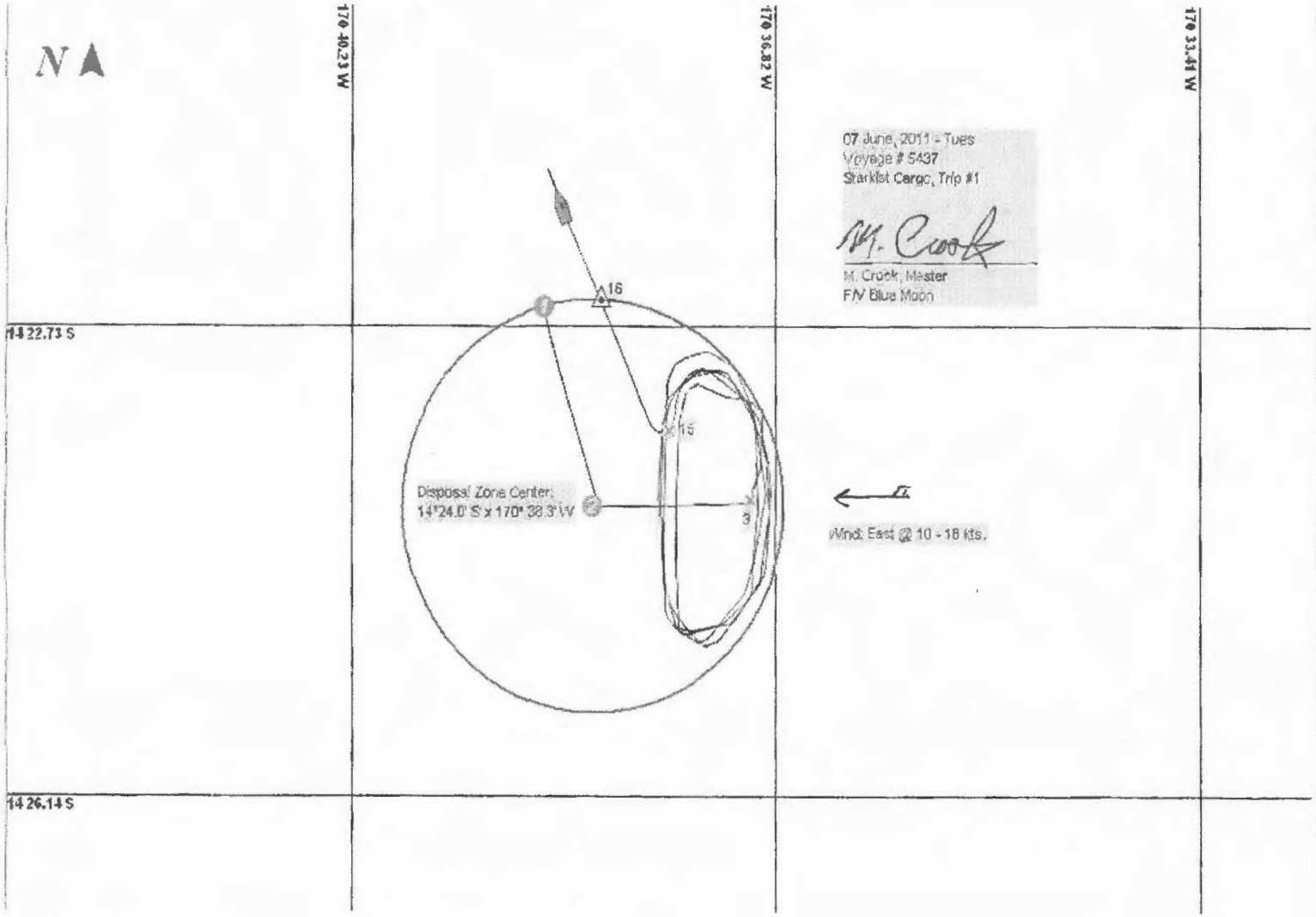
Time and position of any floating material: None Discharge Rate: 119 Gallons/min/kt.

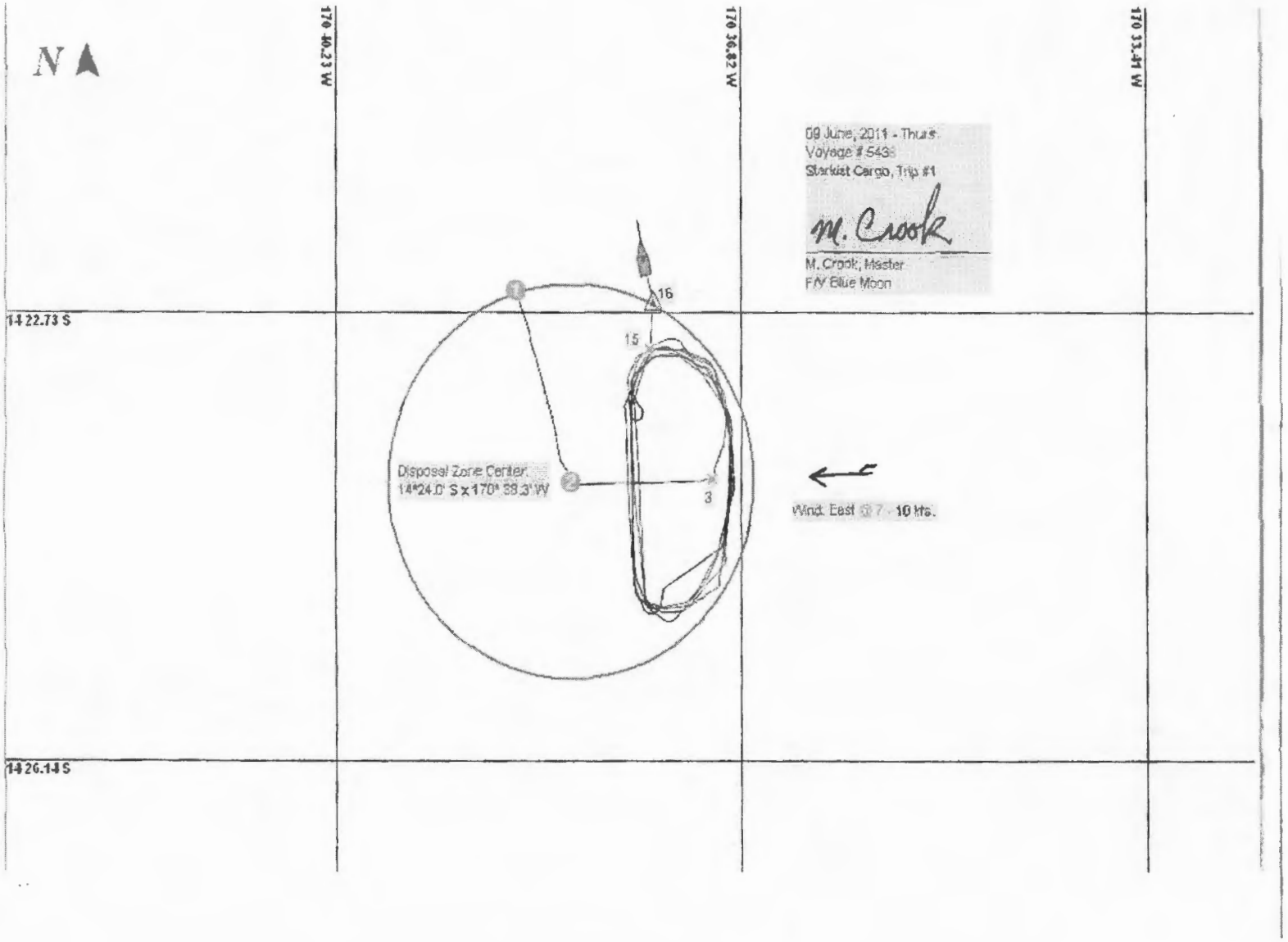
Unusual Occurrences? None

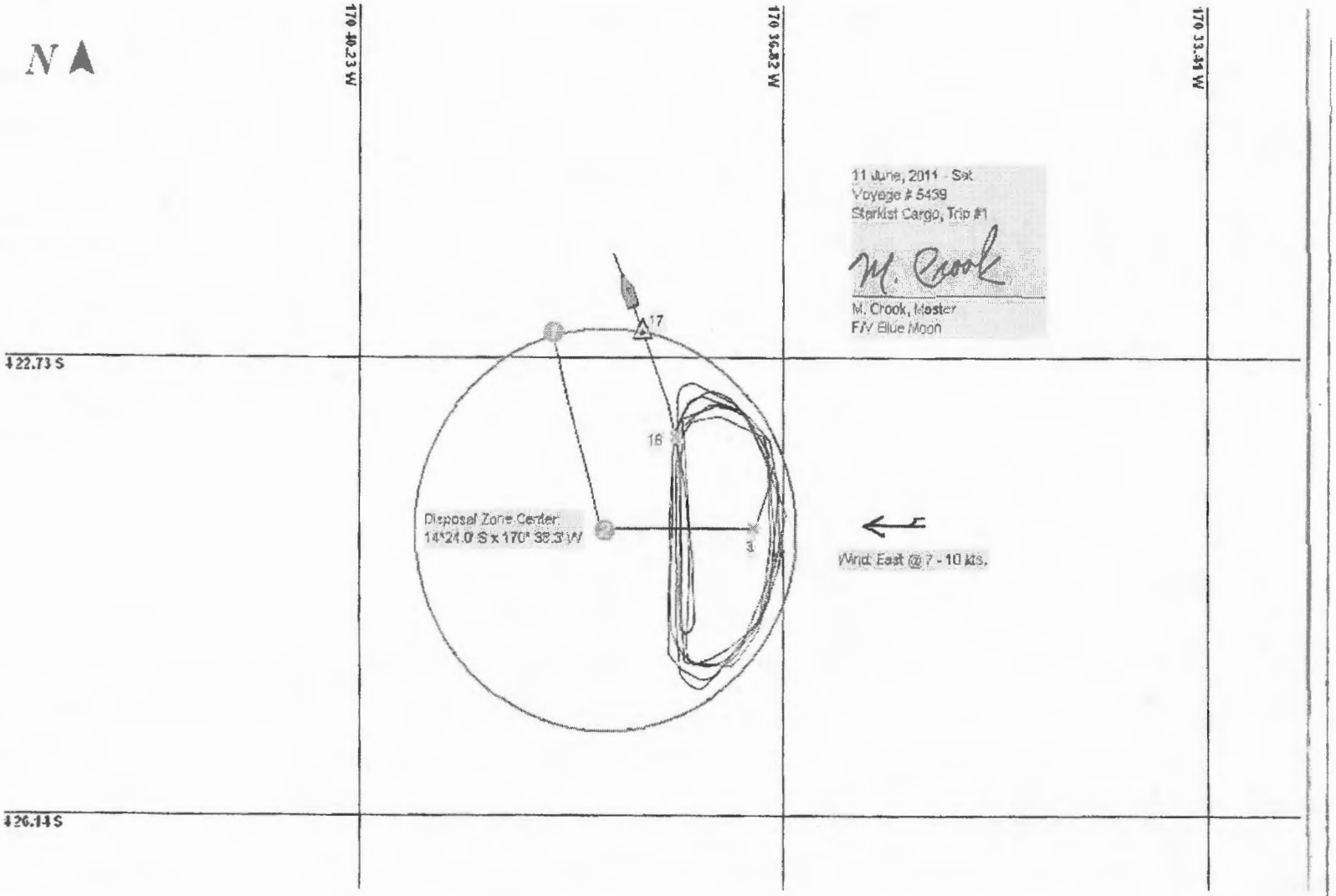
Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

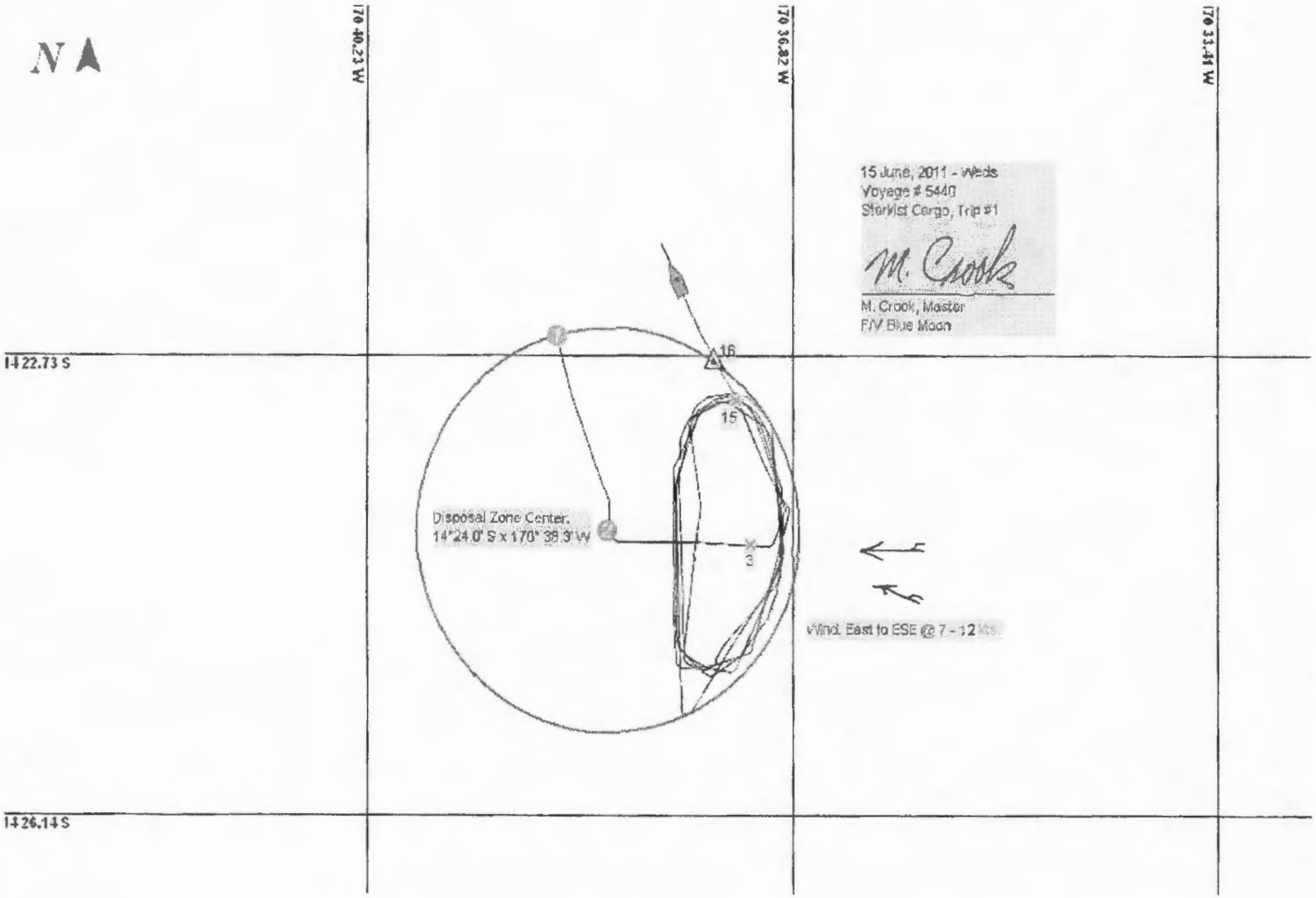

N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
02 June, 2011 - Thurs.
Voyage # 5435
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
15
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 5 - 10 kts.

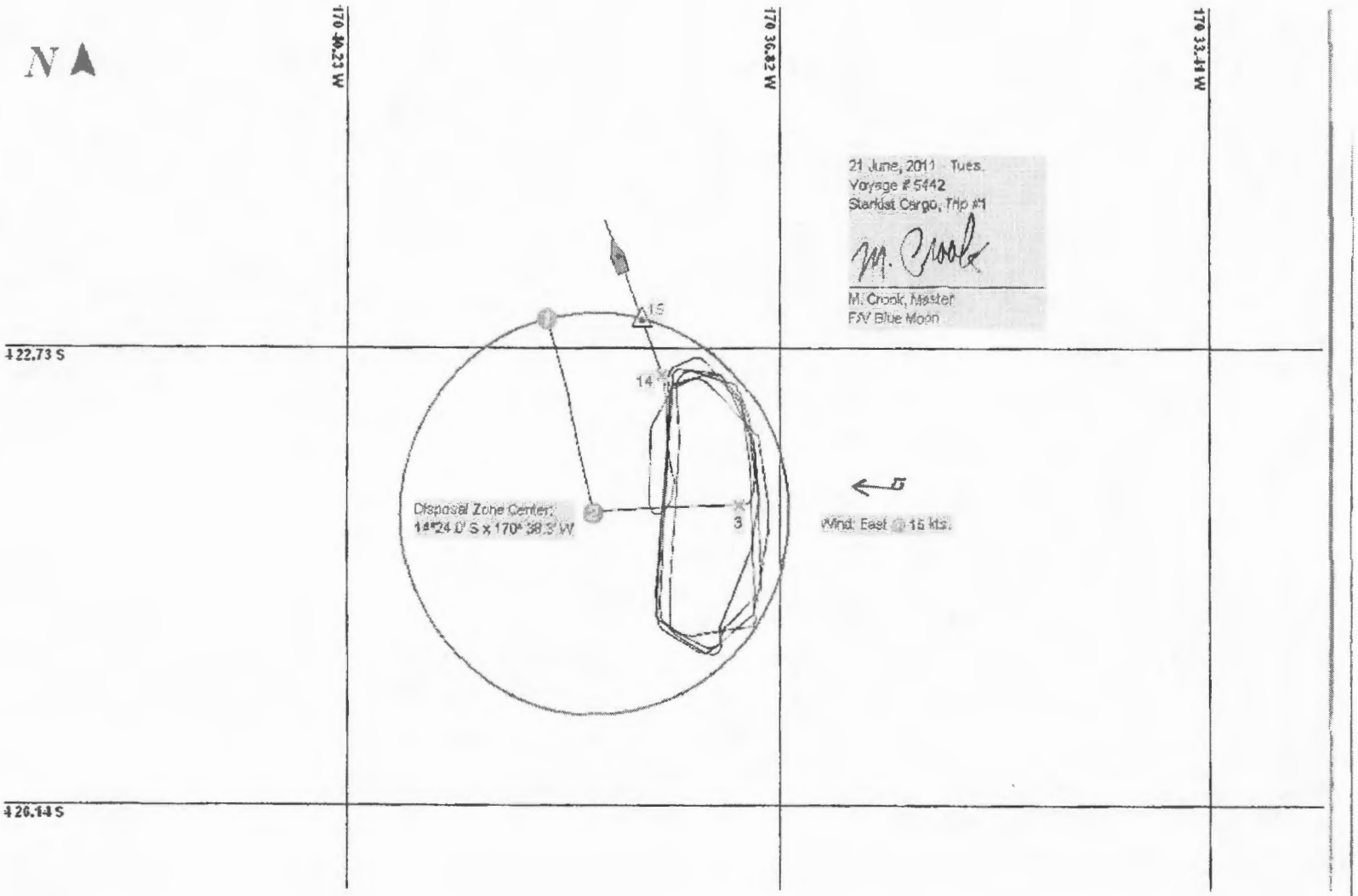

N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
04 June, 2011 - Sat.
Voyage # 5436
Starkist Cargo, Trip #1
*Ocean Monitoring/Sampling Conducted
M. Crook, Master
F/V Blue Moon
16
15
3
C
Disposal Zone Center:
14°24.0' S x 170° 36.3' W
Wind: East @ 10 - 15 kts.

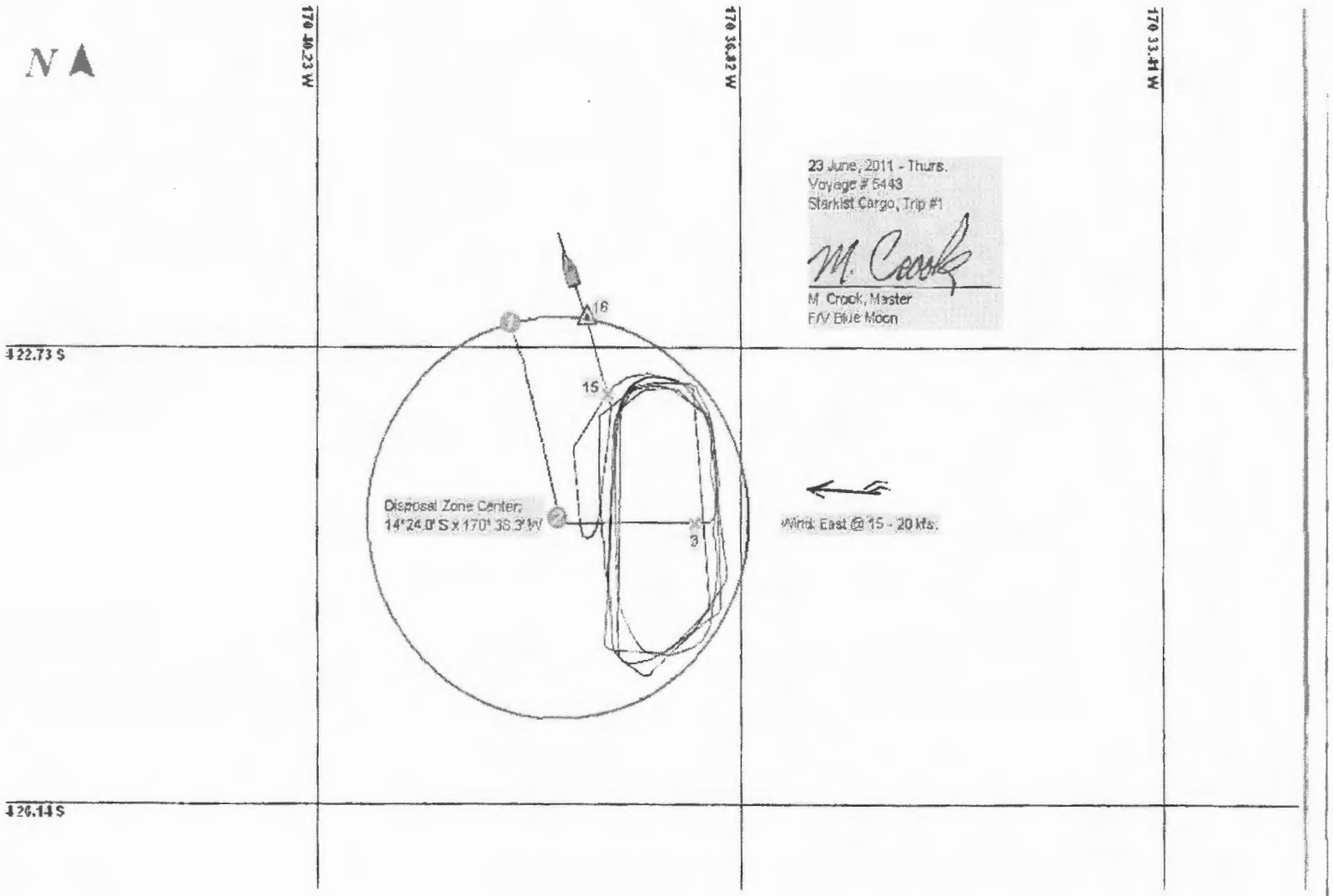

N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
07 June, 2011 - Tues
Voyage # 5437
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
15
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 10 - 18 kts.

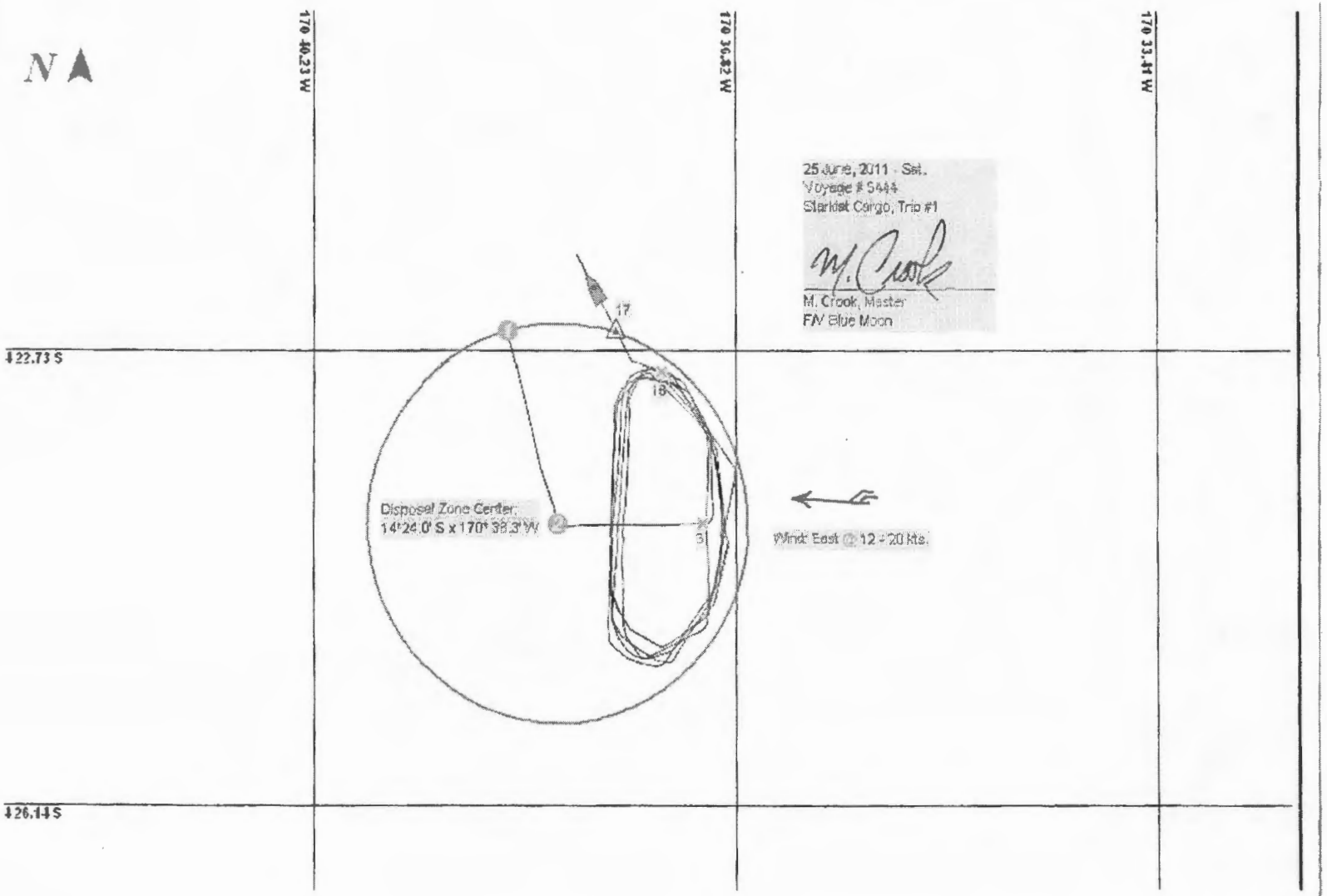

N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 20.14 S
09 June, 2011 - Thurs.
Voyage # 543s
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
16
15
1
2
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 7 - 10 kts.

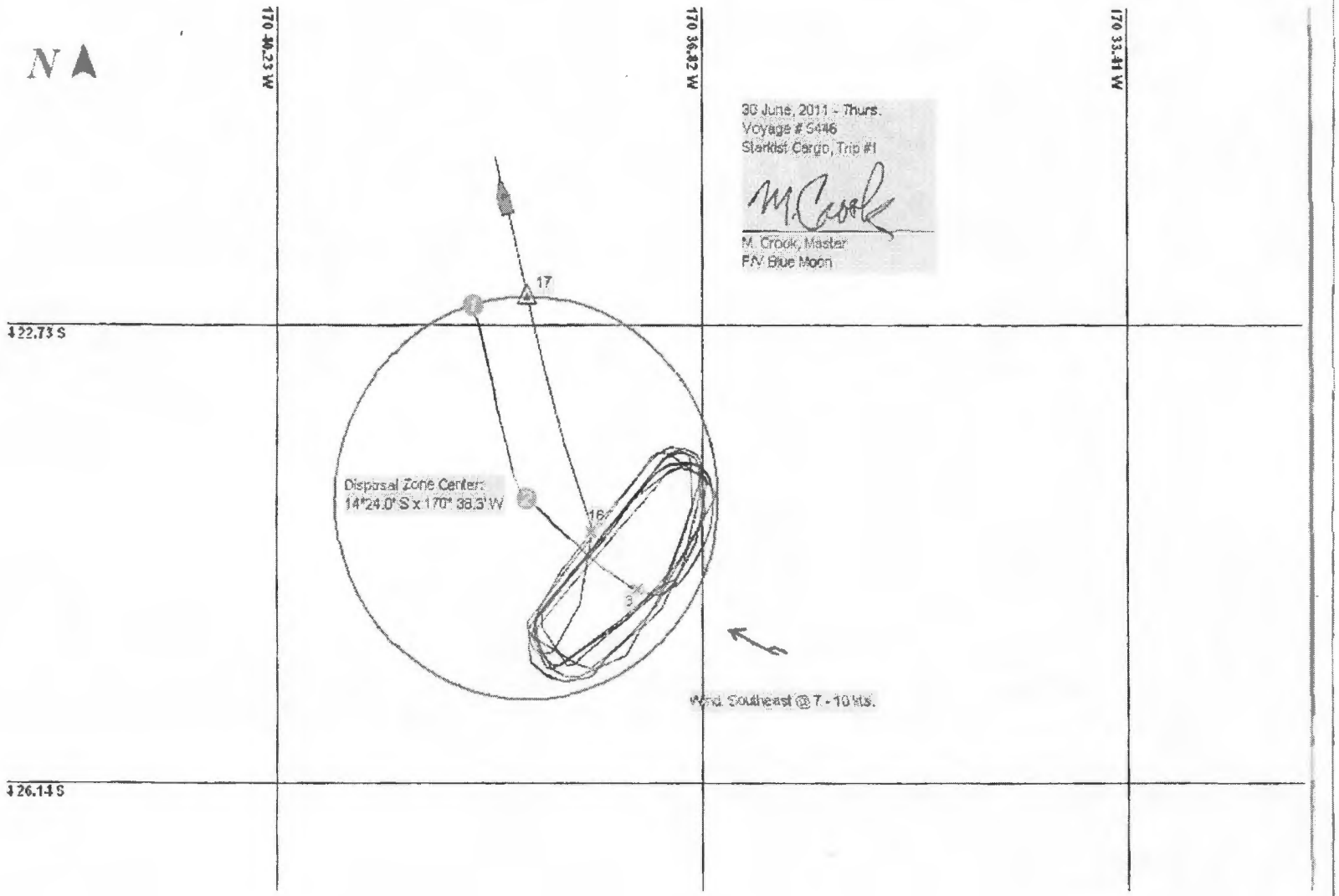

N
170 40.23 W
170 36.82 W
170 33.41 W
422.73 S
426.14 S
11 June, 2011 - Sat
Voyage # 5439
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 7 - 10 kts.


N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
15 June, 2011 - Weds
Voyage # 5440
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
16
15
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East to ESE @ 7 - 12 kts


N
170 36.23 W
170 36.82 W
170 33.41 W
4 22.73 S
4 26.14 S
21 June, 2011 - Tues.
Voyage # 5442
Stardust Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
1.5
14
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 15 kts.


N
170 30.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
23 June, 2011 - Thurs.
Voyage # 5443
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
15
3
Disposal Zone Center:
14°24.0' S x 170° 35.3' W
Wind: East @ 15 - 20 kts.


N
170 40.23 W
170 36.82 W
170 33.41 W
22.73 S
26.14 S
25 June, 2011 - Sat.
Voyage # 5444
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
18
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 12 - 20 kts.


N
170 40.23 W
170 36.82 W
170 33.41 W
30 June, 2011 - Thurs.
Voyage # 5446
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
14 22.73 S
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
16
3
Wind: Southeast @ 7 - 10 kts.
14 26.14 S

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON June, 2011

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	12	0	0	12

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	2,118,500	0	0	2,118,500

GALLONS FOR SOLO TRIPS:	Starkist	Other
	2,118,500	0

RUNNING TIME ON TRIPS:	65.05 hrs.
DISCHARGE TIME ON TRIPS:	35.2 hrs.
AV. GPM DISCHARGE RATE:	115.3 gal/min/kt
AV. TRIP TIME:	5.42 hrs.

AV. PERCENTAGE OF VESSEL USED BY EACH CANNERY - BY GALLONAGE:

Starkist	Other
100.00%	0.00%

MASTER : M. Crook

M. Crook

Date: 06/02/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5435

Permit # OD 93-01 & OD 93-02

	Time	
6/01	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	2345	Begin 2nd Loading SK
6/02	0115	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	183,750	Gallons
Other	0	Gallons
Total	183,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0500	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	90	29.61			
0530	Arrive Edge of Zone	#1	14°22.55 S	170°38.68' W	East-5	100-Rain	29.62	South-2.0	8.7	162
0602	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "	90	"	" "	8.4	165
0612	Begin Discharge	#3	14°24.11' S	170°37.25' W	East-7	"	"	" " X	8.8	010
" 27		#4	14°23.50' S	170°37.60' W	" "	"			8.7	178
42	Remarks:	#5	14°23.86' S	170°36.32' W	" "	80			8.9	351
57		#6	14°23.77' S	170°37.68' W	" "	"			9.1	180
0712		#7	14°24.36' S	170°36.97' W	" "	"		5	8.6	002
27		#8	14°23.64' S	170°37.68' W	" "	75			9.2	183
42		#9	14°24.20' S	170°36.88' W	" "	"			8.9	358
57		#10	14°24.01' S	170°37.63' W	East-10	70			9.3	181
0812		#11	14°24.44' S	170°36.93' W	" "				9.0	359
27		#12	14°23.55' S	170°37.62' W	" "			10	9.2	183
42		#13	14°24.04' S	170°36.95' W	" "		29.63		9.2	357
57		#14	14°24.16' S	170°37.58' W		65			9.5	179
0912		#15	14°2 S	170°3 W						
27		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0912	Finish Discharge	#15	14°23.64' S	170°37.62' W	East-10	65%	29.63	South-2.0	9.3	342
0925	Exit Discharge Zone	#16	14°22.60' S	170°37.93' W	" "	"	"	" "	9.6	340
1015	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 9.05 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/04/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5436

Permit # OD 93-01 & OD 93-02

	Time	
6/3	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	2345	Begin 2nd Loading SK
6/4	0100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	182,500	Gallons
	Other	0	Gallons
	Total	182,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0500	Depart Starkist		14°16.50' S	170° 41.2' W	East-7	100	29.62			
0556	Arrive Edge of Zone	# 1	14°22.53' S	170°38.69' W	East-10	"	"	SE-2.5	8.3	161
0607	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "		"	" "	8.1	165
0630	Begin Discharge	# 3	14°23.94' S	170°37.21 W	East-12		"	" " X	7.7	031
" 45		# 4	14°23.81' S	170°37.76' W	" "		"		8.5	130
0700	Remarks: Ocean	# 5	14°24.69' S	170°37.07' W			"		8.3	024
" 15	Monitoring	# 6	14°23.30' S	170°37.75' W			"		8.4	183
" 30	Control Sample	# 7	14°25.06' S	170°37.30' W			"	5	8.3	029
" 45	drawn at 0820	# 8	14°23.47' S	170°36.99' W			29.63		8.6	340
0800	at position:	# 9	14°24.08' S	170°37.77 W	East-15		"		8.8	181
" 15	14°24.08'S	# 10	14°24.27' S	170°36.73' W					8.5	002
" 30	170°37.19' W	# 11	14°23.34' S	170°37.75' W			29.64		8.9	186
" 45		# 12	14°24.83' S	170°37.24' W			"	10	8.7	037
0900		# 13	14°23.06' S	170°37.50' W			"		9.1	224
" 15		# 14	14°24.97' S	170°37.75' W					9.0	177
" 30		# 15	14°2 S	170°3 W						
" 45		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0930	Finish Discharge	#15	14°23.52' S	170°36.97 W	East-15	100-Rain	29.64	SE-2.5	9.2	341
1040	Exit Discharge Zone	#16	14°22.67' S	170°38.94 W	" "	100	"	" "	9.4	338
1130	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 8.6 kts. Total Time Run 6.4 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 118 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

Date: 06/07/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5437

Permit # OD 93-01 & OD 93-02

	Time	
6/6	1650	Begin 1st Loading SK
	2145	Finish 1st Loading SK
6/7	0115	Begin 2nd Loading SK
	0320	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:

SK	185,000	Gallons
Other	0	Gallons
Total	185,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0505	Depart Starkist		14°16.50' S	170° 41.2' W	E-10	75	29.59			
0600	Arrive Edge of Zone	# 1	14°22.57' S	170°38.69' W	ESE-10	"	"	E+SE-2-0	8.3	165
0610	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	29.60	" "	8.1	164
0620	Begin Discharge	# 3	14°24.02 S	170°37.21' W	East-12	"	"	" " X	8.0	096
35		# 4	14°23.77' S	170°37.62 W	" "	"			8.4	183
50	Remarks:	# 5	14°24.34' S	170°36.88' W	" "	"			8.4	001
0705		# 6	14°23.32' S	170°37.70' W	" "	"			8.2	184
20		# 7	14°25.01' S	170°37.30' W	" "	"		5	8.5	037
35		# 8	14°23.43' S	170°37.79' W	" "	70			8.7	182
50		# 9	14°24.95' S	170°37.26' W	East-15	"			8.5	041
0805		# 10	14°23.52' S	170°36.97' W	" "	50			8.8	323
0820		# 11	14°24.54' S	170°37.72' W	" "	"			8.6	178
35		# 12	14°23.81' S	170°36.97' W	" "	"		10	8.7	352
50		# 13	14°23.77' S	170°37.74' W	" "	"	29.59		8.8	180
0905		# 14	14°24.19' S	170°36.94' W	East-18	60	"		8.7	001
20		# 15	14°2 S	170°3 W						
35		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0915	Finish Discharge	#15	14°23.37' S	170°37.64' W	East-18	60%	29.59	ESE-2.0	8.8	178
0923	Exit Discharge Zone	#16	14°22.53' S	170°38.25 W	" "	"	"	" "	9.2	336
1025	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 175 mins. Average Speed During Discharge: 8.33 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 127 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/09/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5438

Permit # OD 93-01 & OD 93-02

	Time	
6/8	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0030	Begin 2nd Loading SK
6/9	0215	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	177,500	Gallons
Other	0	Gallons
Total	177,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0505	Depart Starkist		14*16.50' S	170* 41.2' W	East-5	100	29.51			
0555	Arrive Edge of Zone	# 1	14*22.57' S	170*38.72' W	East-7	"	"	ESE-2.0	8.5	160
0605	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"		8.2	156
0615	Begin Discharge	# 3	14*24.02' S	170*37.23 W	" "	90	"	X	8.5	090
" 30		# 4	14*23.84' S	170*37.69' W	" "	"	"		8.4	179
" 45	Remarks:	# 5	14*24.48' S	170*36.96' W		100	29.52		8.7	004
0700		# 6	14*23.15' S	170*37.71' W		"	"		8.5	183
" 15		# 7	14*24.99' S	170*37.32' W		"	"	5	8.3	042
" 30		# 8	14*23.10' S	170*37.25' W		"	29.53		9.0	296
" 45		# 9	14*24.62' S	170*37.74' W		"	"		8.6	178
0800		# 10	14*23.31' S	170*37.00 W			"		9.3	332
" 15		# 11	14*24.50' S	170*37.73 W	East-10	100 RAIN	29.55		9.0	179
" 30		# 12	14*23.82' S	170*36.90' W	" "	" "	"	10	9.2	351
" 45		# 13	14*24.39' S	170*37.74' W	" "	" "	29.58		9.2	180
0900		# 14	14*24.01' S	170*36.90 W	" "	100	29.59		8.8	001
" 15		# 15	14*2 S	170*3 W						
" 30		# 16	14*2 S	170*3 W						
		# 17	14*2 S	170*3 W				15		
		# 18	14*2 S	170*3 W						
		# 19	14*2 S	170*3 W						
		# 20	14*2 S	170*3 W						
			14*2 S	170*3 W						
			14*2 S	170*3 W				20		
			14*2 S	170*3 W						
0915	Finish Discharge	#15	14*23.19' S	170*37.63' W	East-10	100%	29.59	ESE-2.0	9.1	355
0919	Exit Discharge Zone	#16	14*22.76' S	170*37.57' W	" "	"	"	" "	9.4	348
1025	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 5.33 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None ~~other than Fueling on return~~ M.C. Cancelled.

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

Date: 06/11/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5439

Permit # OD 93-01 & OD 93-02

	Time	
6/10	1700	Begin 1st Loading SK
	2145	Finish 1st Loading SK
6/11	0030	Begin 2nd Loading SK
	0230	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	168,750	Gallons
Other	0	Gallons
Total	168,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	20	29.55			
0603	Arrive Edge of Zone	# 1	14°22.56' S	170°38.67' W	East-7	"	29.56	ESE-2.0	8.7	162
0613	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	23	29.57	" "	8.5	158
0621	Begin Discharge	# 3	14°24.01 S	170°37.22 W	East-8	30	"	" " X	8.4	010
36		# 4	14°23.72' S	170°37.58' W	" "	"	29.58		8.6	179
51	Remarks:	# 5	14°24.14' S	170°36.84' W	" "	"	29.59		8.7	003
0706		# 6	14°23.28' S	170°37.67' W	" "		"		8.3	185
" 21		# 7	14°24.75' S	170°37.08' W	" "		"	5	8.8	036
" 36		# 8	14°22.93' S	170°37.51' W	East-10		29.58		9.0	304
" 51		# 9	14°24.88' S	170°37.67' W	" "		29.59	ESE-1.5	8.9	178
0806		# 10	14°23.46' S	170°36.97 W	" "		29.56	" "	9.1	329
" 21		# 11	14°24.20' S	170°37.74' W		40		" "	9.2	181
36		# 12	14°23.93' S	170°36.93' W				10	9.4	352
51		# 13	14°24.47' S	170°37.74' W					9.4	182
0906		# 14	14°24.33' S	170°36.91' W					9.2	003
" 21		# 15	14°23.84 S	170°37.66' W					9.0	179
" 36		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0935	Finish Discharge	#16	14°23.45 S	170°37.65' W	East-10	40%	29.56	ESE-1.5	9.5	342
0940	Exit Discharge Zone	#17	14°22.59' S	170°37.72' W	" "	"	"	" "	9.5	339
1200	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge Slack Discharge Pattern Ellipse

Total Discharge Time: 194 mins. Average Speed During Discharge: 8.96 kts. Total Time Run 6.8 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 97 Gallons/min/kt.

Unusual Occurrences? None (Finishing 1030-)

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

Date: 06/15/11 Weds.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5440

Permit # OD 93-01 & OD 93-02

	Time	
6/13	1745	Begin 1st Loading SK
	2000	Finish 1st Loading SK
	1615	Begin 2nd Loading SK
6/14	2045	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	175,500	Gallons
Other	0	Gallons
Total	175,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0510	Depart Starkist		14°16.50' S	170°41.2' W	ESE-5	50%	29.60			
0558	Arrive Edge of Zone	#1	14°22.58' S	170°38.69' W	ESE-7	"	"	E-SE: 1.5	8.6	162
0608	Arrive Zone Center	#2	14°24.0 S	170°38.3 W	" "		"		8.3	171
0617	Begin Discharge	#3	14°24.13 S	170°37.19' W	" "		29.61	X	8.2	090
" 32		#4	14°23.62' S	170°37.73' W	" "		"		8.6	178
" 47	Remarks:	#5	14°24.45' S	170°36.95' W	East-10	60	"		8.5	006
0702		#6	14°23.11' S	170°37.52' W	" "	"	"		8.3	230
" 17		#7	14°25.01' S	170°37.61' W	" "	"	29.62	5	8.7	118
" 32		#8	14°23.35' S	170°37.01' W	" "	"			8.6	324
" 47		#9	14°24.41' S	170°37.74 W	" "	"			8.7	180
0802		#10	14°24.48' S	170°37.02 W	" "	"			8.8	025
" 17		#11	14°23.56' S	170°37.76' W		70			9.2	172
" 32		#12	14°24.82' S	170°37.32' W		"		10	9.0	034
" 47		#13	14°23.19' S	170°37.63' W		"	29.63		8.7	186
0902		#14	14°24.95' S	170°37.20' W	ESE-12	80	"		8.9	014
" 17		#15	14°2 S	170°3 W						
" 32		#16	14°2 S	170°3 W						
		#17	14°2 S	170°3 W				15		
		#18	14°2 S	170°3 W						
		#19	14°2 S	170°3 W						
		#20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°23.18 S	170°37.22 W	East-12	70				
0917	Finish Discharge	#15	14°2 ↓ S	170°3 ↓ W	↓	↓	29.63	E-SE: 1.5	9.2	330
0920	Exit Discharge Zone	#16	14°22.78' S	170°37.43 W	" "	"	"	" "	9.4	325
1015	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.1 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 112 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/17/11 Fri.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5441

Permit # OD 93-01 & OD 93-02

	Time	
6/16	1530	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0100	Begin 2nd Loading SK
6/17	0200	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2 ____

Volume Loaded:

SK	183,250	Gallons
Other	0	Gallons
Total	183,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	80	29.68			
0607	Arrive Edge of Zone	# 1	14°22.56' S	170°38.69' W	ESE-10	"	"	SE-1.5	8.5	164
0617	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	SE-10	90	29.59	" "	8.2	166
0625	Begin Discharge	# 3	14°24.51' S	170°37.33 W	" "	"	"	" " X	8.3	135
" 40		# 4	14°24.40' S	170°37.63' W	" "	70-Rain	"	" "	8.3	220
" 55	Remarks:	# 5	14°24.91' S	170°37.14' W	SE-12	90	"	" "	8.1	021
0710		# 6	14°23.97' S	170°37.39' W	" "	"	"	" "	8.5	221
" 25		# 7	14°25.11' S	170°37.58' W	" "	85	"	" " 5	8.4	053
" 40		# 8	14°24.18' S	170°37.51' W	" "	80	"	" "	8.7	218
" 55		# 9	14°25.22' S	170°37.88' W	" "	75	"	" "	8.8	060
0810		# 10	14°23.90' S	170°37.30' W	" "	"	"	" "	8.7	235
" 25		# 11	14°25.20' S	170°37.72' W	" "	70	"	"	8.7	086
" 40		# 12	14°24.13' S	170°36.81' W	" "	"	"	10	9.1	021
" 55		# 13	14°25.26' S	170°38.23' W	SE-15	60	"		9.2	147
0910		# 14	14°24.07' S	170°37.25' W	" "	50	"		9.0	046
" 25		# 15	14°2 S	170°3 W						
		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0920	Finish Discharge	#15	14°24.08' S	170°37.33' W	SE-15	50%	29.59	SE-1.5	9.1	329
0928	Exit Discharge Zone	#16	14°22.55' S	170°37.87' W	" "	"	"	" "	9.4	334
1025	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Ellipse

Total Discharge Time: 175 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.25 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 120.4 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Carle

Date: 06/21/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5442

Permit # OD 93-01 & OD 93-02

	Time	
6/20	1645	Begin 1st Loading SK
	2140	Finish 1st Loading SK
6/21	0100	Begin 2nd Loading SK
	0330	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	176,250	Gallons
	Other	0	Gallons
	Total	176,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
1130	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	100	29.59			
1225	Arrive Edge of Zone	# 1	14°22.54' S	170°38.65' W	East-15	90	"	ESE-2.0	8.5	163
1235	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	"	"	" "	8.2	156
1245	Begin Discharge	# 3	14°23.57' S	170°37.23' W	" "	80	29.57	" " X	8.0	090
1300		# 4	14°23.71' S	170°37.63' W	" "	"	"	" "	8.4	183
" 15	Remarks:	# 5	14°24.49' S	170°36.78' W	" "	"	29.55	" "	8.6	012
" 30		# 6	14°23.18' S	170°37.69' W		70	"	" "	8.5	184
" 45		# 7	14°24.71' S	170°37.01' W		"	29.54	" " 5	8.8	001
1400		# 8	14°23.02' S	170°37.66' W		"	29.53	ESE-2.0	8.6	186
" 15		# 9	14°24.86 S	170°37.68' W		"	"	" "	8.5	117
" 30		# 10	14°23.45' S	170°37.04' W		80	29.52		9.2	340
" 45		# 11	14°23.78' S	170°37.71' W		"	29.51		8.9	183
1500		# 12	14°24.46' S	170°36.97' W		70	"	10	9.1	002
" 15		# 13	14°23.11' S	170°37.73' W					9.2	196
" 30		# 14	14°2 S	170°3 W						
		# 15	14°2 S	170°3 W						
		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
1525	Finish Discharge	#14	14°23.05' S	170°37.72 W	East-15	70%	29.51	ESE-2.0	9.3	349
1529	Exit Discharge Zone	#15	14°22.63' S	170°37.87' W	" "	"	"	" "	9.4	338
1630	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 160 mins. Average Speed During Discharge: 8.76 kts. Total Time Run 5.0 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 126 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/23/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5443

Permit # OD 93-01 & OD 93-02

	Time	
6/22	1630	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0210	Begin 2nd Loading SK
6/23	0350	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded: SK 187,500 Gallons; Other 0 Gallons; Total 187,500 Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
1105	Depart Starkist		14°16.50' S	170° 41.2' W	East-15	50%	29.59			
1155	Arrive Edge of Zone	# 1	14°22. S	170°38. W	East-18	"	"	East-2.0	8.5	161
1207	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	East-20	60	29.60	" "	8.1	157
1215	Begin Discharge	# 3	14°24.03' S	170°37.23 W	" "	"	29.59	" " X	7.8	070
30		# 4	14°23.56' S	170°37.77' W	" "		"		8.4	181
45	Remarks:	# 5	14°25.06' S	170°37.55 W	" "		29.58		8.2	062
1300		# 6	14°23.44' S	170°37.03' W	" "		"		8.6	395
15		# 7	14°24.09' S	170°37.94' W			29.57	5	8.5	177
30		# 8	14°24.58' S	170°37.11' W			29.55		8.6	016
45		# 9	14°23.32' S	170°37.83' W		70	29.53		8.8	184
1400		# 10	14°25.10' S	170°37.48' W		80	29.52		8.5	045
15		# 11	14°23.41' S	170°37.05' W		"	"		8.7	344
30		# 12	14°24.84' S	170°37.52 W		75	29.51	10	9.1	181
45		# 13	14°23.62' S	170°37.16' W		"	"		9.3	002
1500		# 14	14°23.59' S	170°38.15' W		"	"		8.9	181
15		# 15	14°2 S	170°3 W						
30		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
1515	Finish Discharge	#15	14°23.13' S	170°37.88' W	East-20	75%	29.51	East-2.0	9.1	338
1519	Exit Discharge Zone	#16	14°22.61' S	170°38.04' W	" "	"	"	" "	9.4	336
1615	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 180 mins. Average Speed During Discharge: 8.67 kts. Total Time Run 5.2 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 120.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/25/11 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5444

Permit # OD 93-01 & OD 93-02

	Time	
6/24	1630	Begin 1st Loading SK
	2145	Finish 1st Loading SK
	0200	Begin 2nd Loading SK
6/25	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	177,250	Gallons
Other	0	Gallons
Total	177,250	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True°
0510	Depart Starkist		14°16.50' S	170° 41.2' W	East-10	50	29.51			
0605	Arrive Edge of Zone	# 1	14°22.37' S	170°38.67' W	East-12	"	"	East-1.5	8.3	153
0615	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	" "	90	"	" "	8.1	161
0623	Begin Discharge	# 3	14°24.03' S	170°37.16' W	" "	"	"	" " X	8.0	090
" 38		# 4	14°23.60' S	170°37.69' W		"	"	" "	8.4	181
" 53	Remarks:	# 5	14°24.68' S	170°37.03' W		"	29.52	" "	8.2	024
0708		# 6	14°22.89' S	170°37.53' W		50			8.3	238
" 23		# 7	14°24.78' S	170°37.86' W	East-15	60		5	8.6	180
" 38		# 8	14°23.47' S	170°36.98' W	" "	70			8.8	332
" 53		# 9	14°24.13' S	170°37.78' W		"			8.7	185
0808		# 10	14°24.75' S	170°37.11' W	East-18	75			8.5	026
" 23		# 11	14°23.19' S	170°37.80' W		80			8.7	185
" 38		# 12	14°24.88' S	170°37.22' W	East-15	90-Rain		10	8.8	017
" 53		# 13	14°23.09' S	170°37.23' W	" "	" "			9.5	312
0908		# 14	14°24.27' S	170°37.83' W	East 20	90	29.53		9.1	183
" 23		# 15	14°23.93' S	170°37.05' W	" "		"		9.1	001
		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0930	Finish Discharge	#16	14°22.53' S	170°37.34' W	East-20	95%	29.53	East-1.5	8.9	298
0934	Exit Discharge Zone	#17	14°22.66' S	170°37.74' W	" "	"	"	" "	9.2	319
1030	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 187 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.66 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 110.2 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crooks

Date: 06/28/11 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5445

Permit # OD 93-01 & OD 93-02

	Time	
6/28	0000	Begin 1st Loading SK
	0530	Finish 1st Loading SK
		Begin 2nd Loading SK
	/	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	127,500	Gallons
	Other	0	Gallons
	Total	127,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True°
0540	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	0/c-100	29.53			
0630	Arrive Edge of Zone	# 1	14°22.55' S	170°38.67' W	East-5	" "	29.54	ESE-2.0	8.6	158
0640	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	ENE-5		29.55	Mix-E-SW	8.5	164
0648	Begin Discharge	# 3	14°24.10' S	170°37.12' W	" "		29.56	to 2.6 X	8.5	090
0703		# 4	14°23.52' S	170°37.63' W	" "		"		8.3	179
18	Remarks:	# 5	14°24.24' S	170°36.90 W	" "	90	"		8.7	358
33		# 6	14°23.50' S	170°37.75 W	ENE-7	"	"		8.6	183
48		# 7	14°24.28' S	170°36.94' W	" "		"	5	8.8	000
0803		# 8	14°23.37' S	170°37.66' W	" "		"		8.4	201
18		# 9	14°24.80' S	170°37.15' W	" "		29.57		8.7	033
33		# 10	14°23.70' S	170°37.76' W	" "		"		9.1	170
48		# 11	14°24.60' S	170°37.05 W	ENE-10		29.58		8.6	006
0903		# 12	14°2 S	170°3 W				10		
18		# 13	14°2 S	170°3 W						
33		# 14	14°2 S	170°3 W						
		# 15	14°2 S	170°3 W						
		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0903	Finish Discharge	# 12	14°23.27' S	170°37.12' W	ENE-10	90	29.58	Mix-2.0	8.5	301
0907	Exit Discharge Zone	# 13	14°22.79' S	170°37.56' W	" "	"	"	" "	9.3	324
1005	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center West End of Discharge West Discharge Pattern Ellipse

Total Discharge Time: 135 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 4.4 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None. Discharge Rate: 108.5 Gallons/min/kt.

Unusual Occurrences? None

Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

Date: 06/30/11 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5446

Permit # OD 93-01 & OD 93-02

	Time	
6/29	1600	Begin 1st Loading SK
	2185	Finish 1st Loading SK
6/30	0200	Begin 2nd Loading SK
	0300	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	191,750	Gallons
Other	0	Gallons
Total	191,750	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0520	Depart Starkist		14°16.50' S	170° 41.2' W	Calm	30	29.58			
0612	Arrive Edge of Zone	# 1	14°22.59' S	170°38.67' W	East - 7	"	"	SE + ESE - 1.5	8.5	164
0622	Arrive Zone Center	# 2	14°24.0 S	170°38.3 W	SE - 7	"	"	" "	8.3	162
0630	Begin Discharge	# 3	14°24.65' S	170°37.40 W	" "	35	"	" " X	8.2	135
" 45		# 4	14°24.21' S	170°37.46 W	" "	"	29.59		8.4	221
0700	Remarks:	# 5	14°25.19' S	170°37.47 W	" "		"		8.2	018
15		# 6	14°29.97' S	170°37.44' W	" "		"		8.5	216
30		# 7	14°25.19' S	170°37.59' W	SE - 10		"	5	8.7	247
45		# 8	14°23.71' S	170°36.92 W		40			8.4	252
0800		# 9	14°25.07' S	170°37.70' W		60			8.8	047
15		# 10	14°23.65' S	170°37.10 W		"			8.5	226
30		# 11	14°25.11' S	170°37.75 W		75			9.0	048
45		# 12	14°23.70' S	170°37.09 W		"		10	8.8	231
0900		# 13	14°25.12' S	170°37.72 W		"			9.1	034
15		# 14	14°23.93' S	170°37.28 W		80			8.9	229
30		# 15	14°25.08' S	170°37.97' W		90	29.60		9.0	037
		# 16	14°2 S	170°3 W						
		# 17	14°2 S	170°3 W				15		
		# 18	14°2 S	170°3 W						
		# 19	14°2 S	170°3 W						
		# 20	14°2 S	170°3 W						
			14°2 S	170°3 W						
			14°2 S	170°3 W				20		
			14°2 S	170°3 W						
0935	Finish Discharge	# 16	14°24.23' S	170°37.71 W	SE - 10	90%	29.60	SE + ESE - 1.5	9.2	006
0947	Exit Discharge Zone	# 17	14°22.60 S	170°38.21' W	" "	"	"	" "	9.5	341
1040	Secure SK Dock		14°16.50' S	170°41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Ellipse

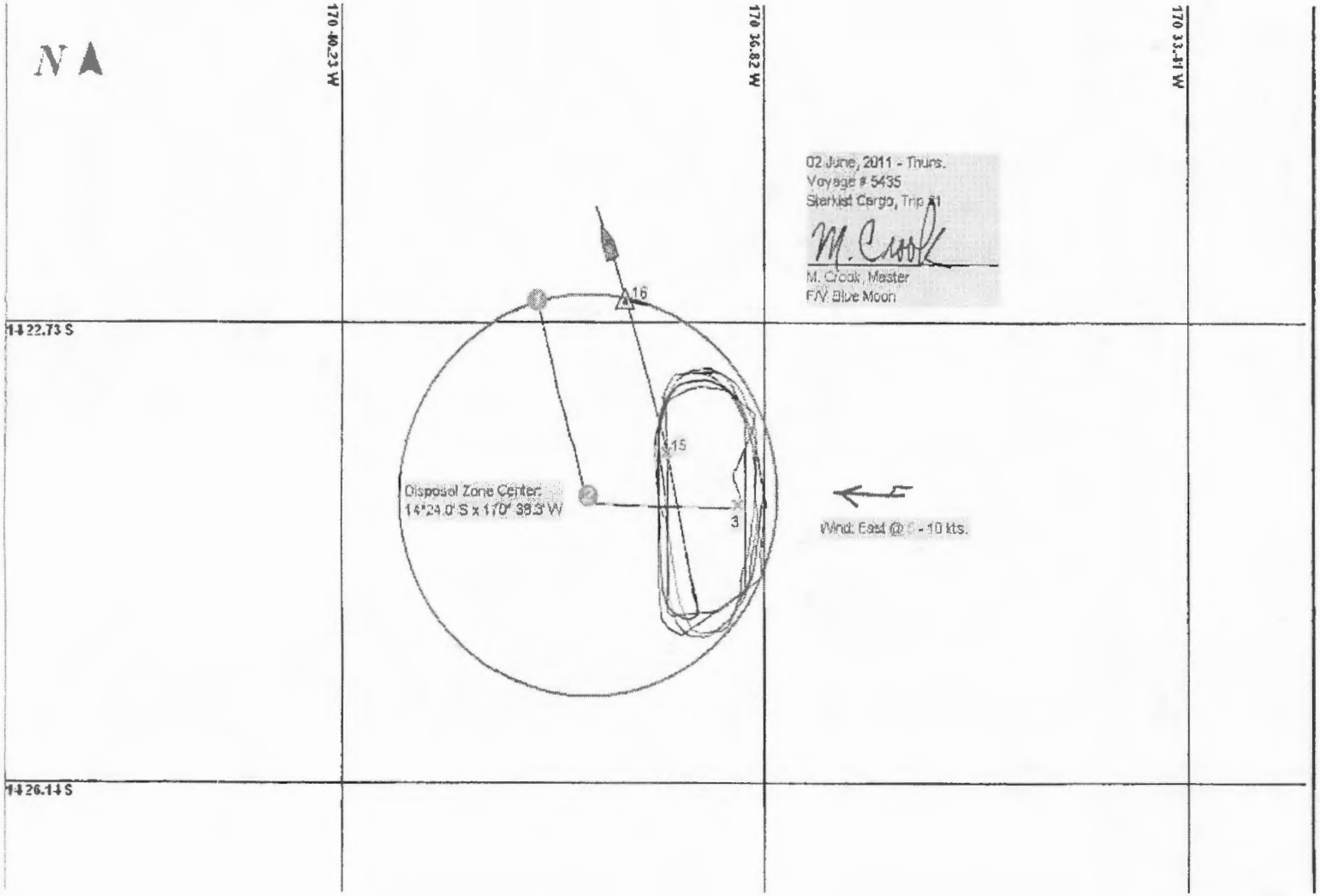
Total Discharge Time: 185 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.33 hr.

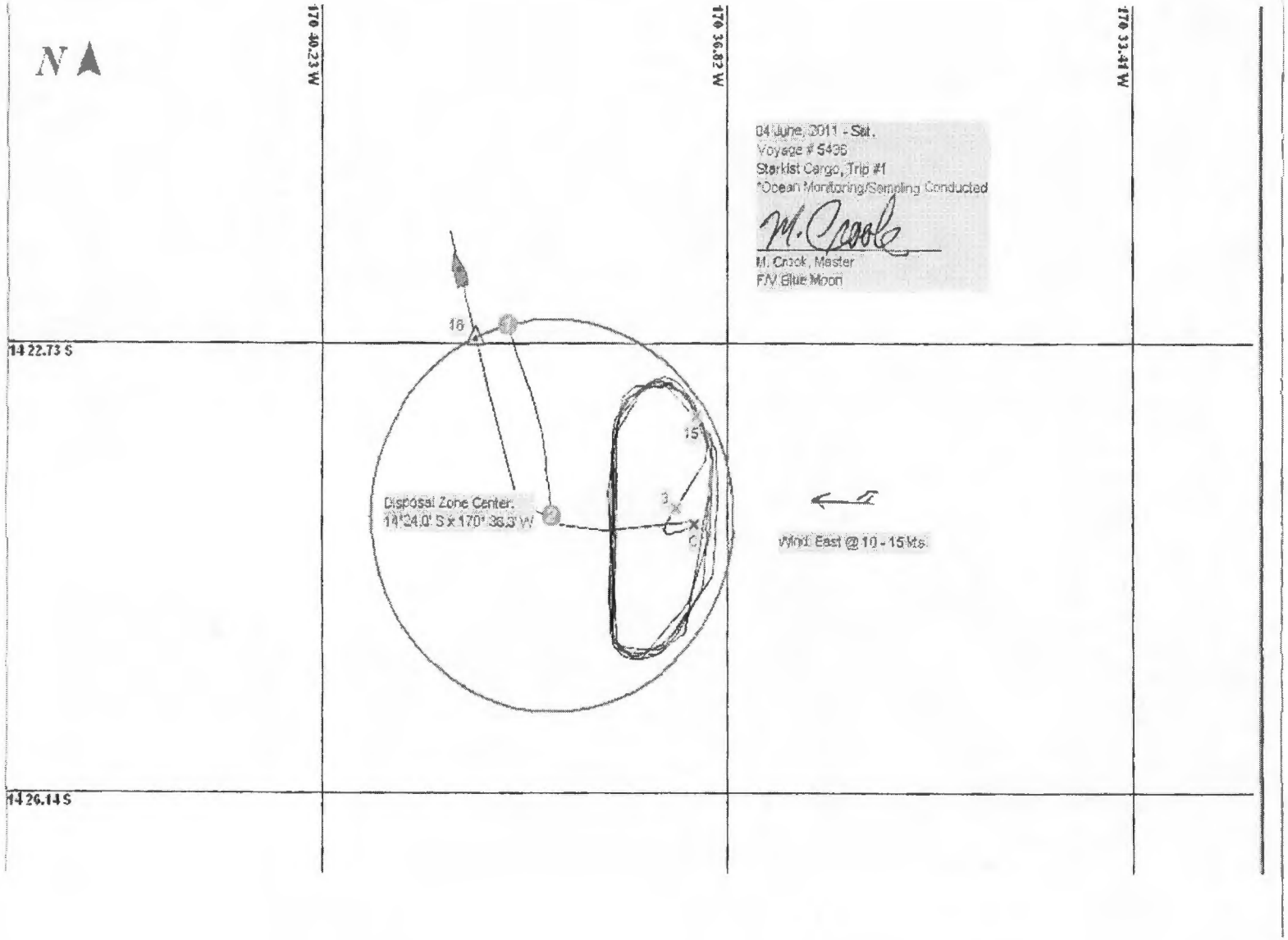
Navigational Plot made: Yes Presence of Plume? No

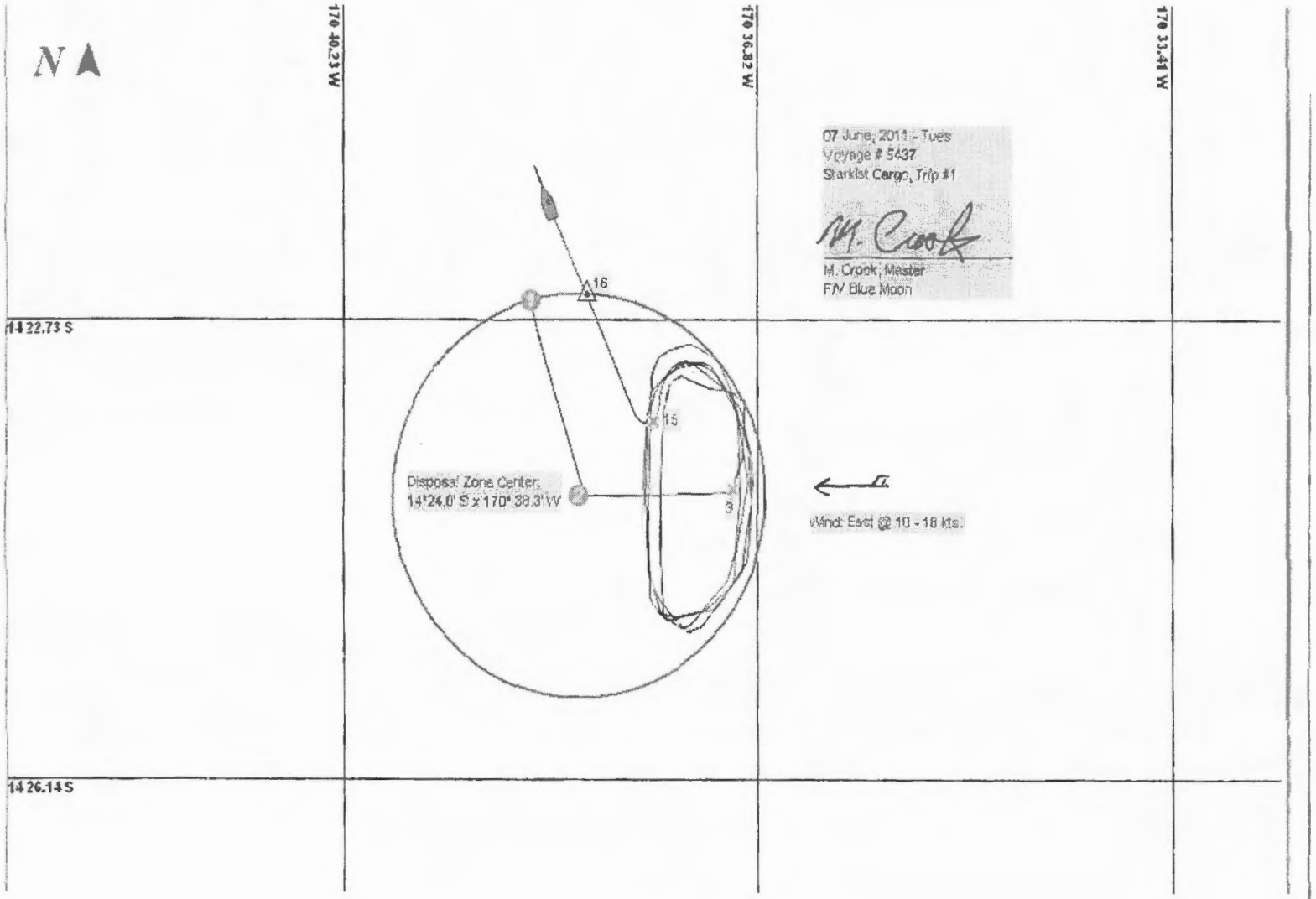
Time and position of any floating material: None Discharge Rate: 119 Gallons/min/kt.

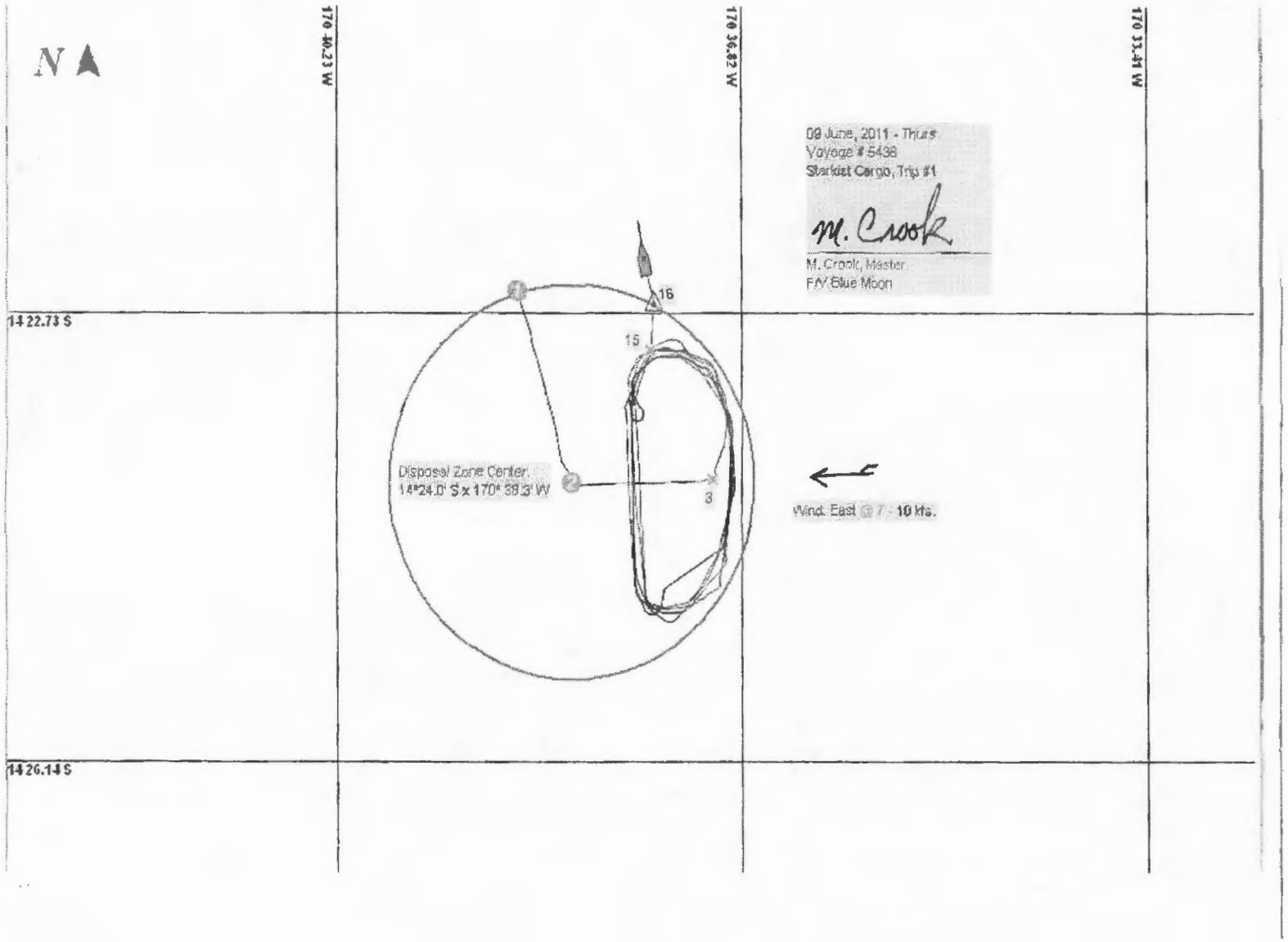
Unusual Occurrences? None

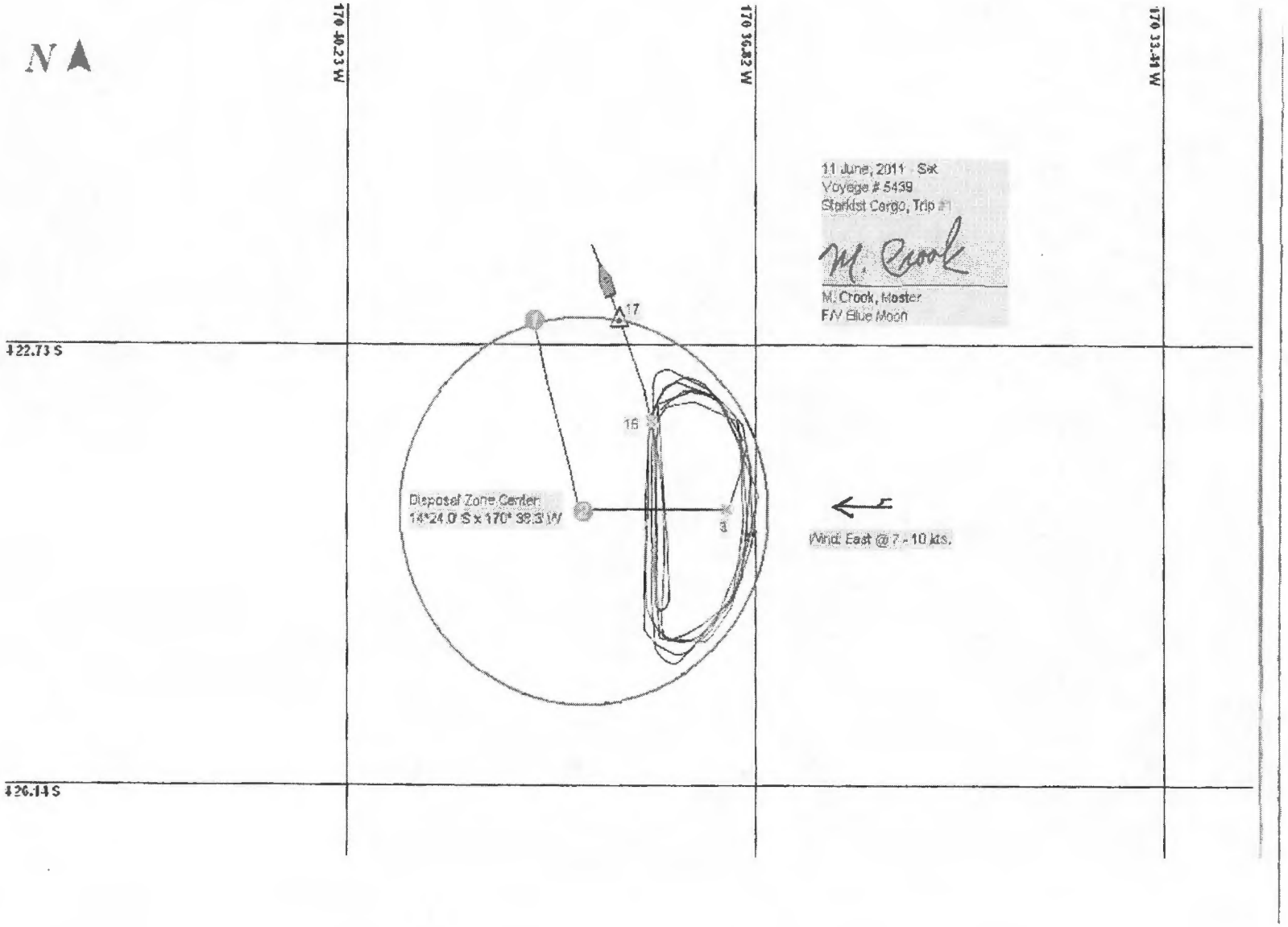
Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Cook

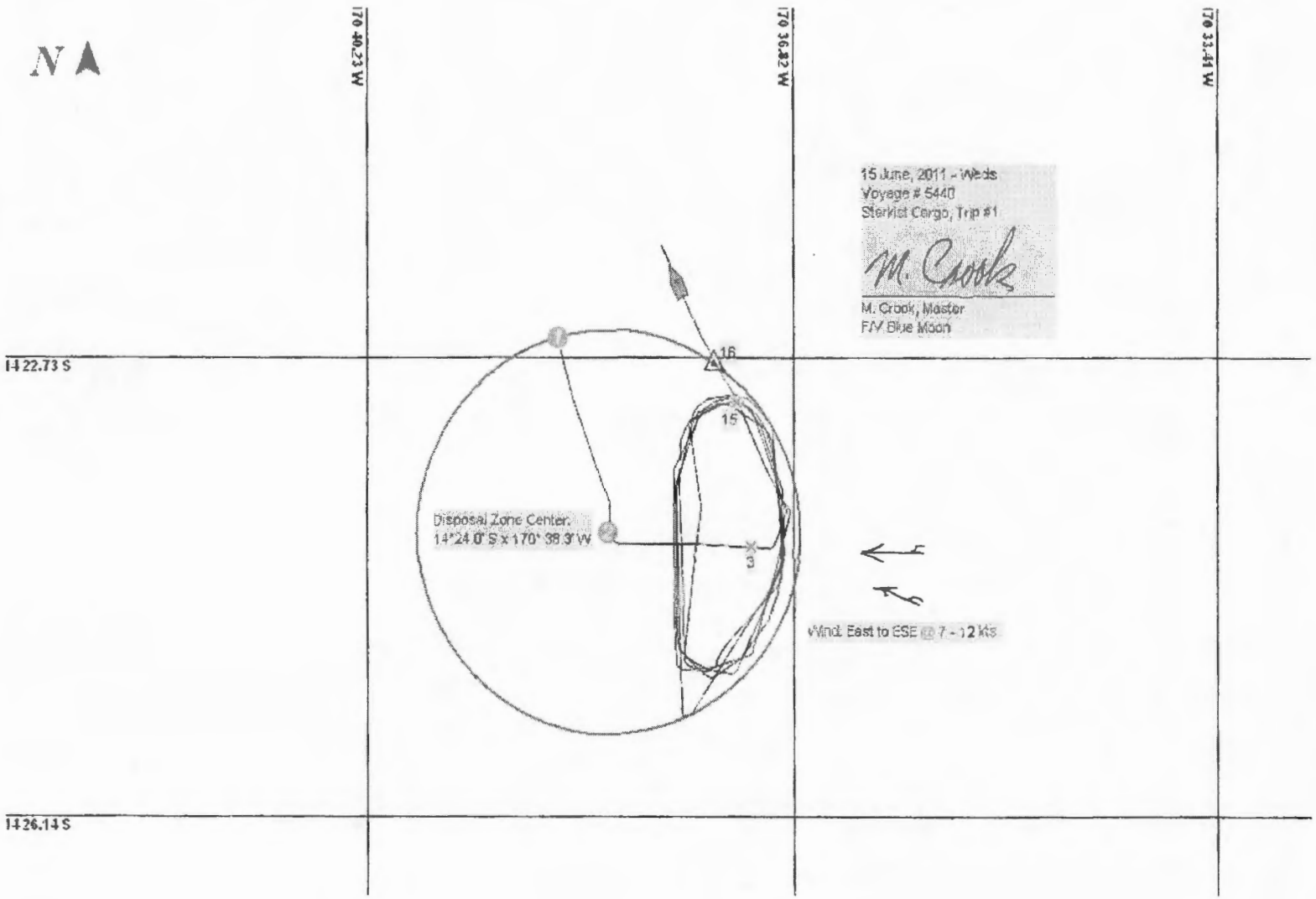

N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
02 June, 2011 - Thurs.
Voyage # 5435
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
15
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 5 - 10 kts.

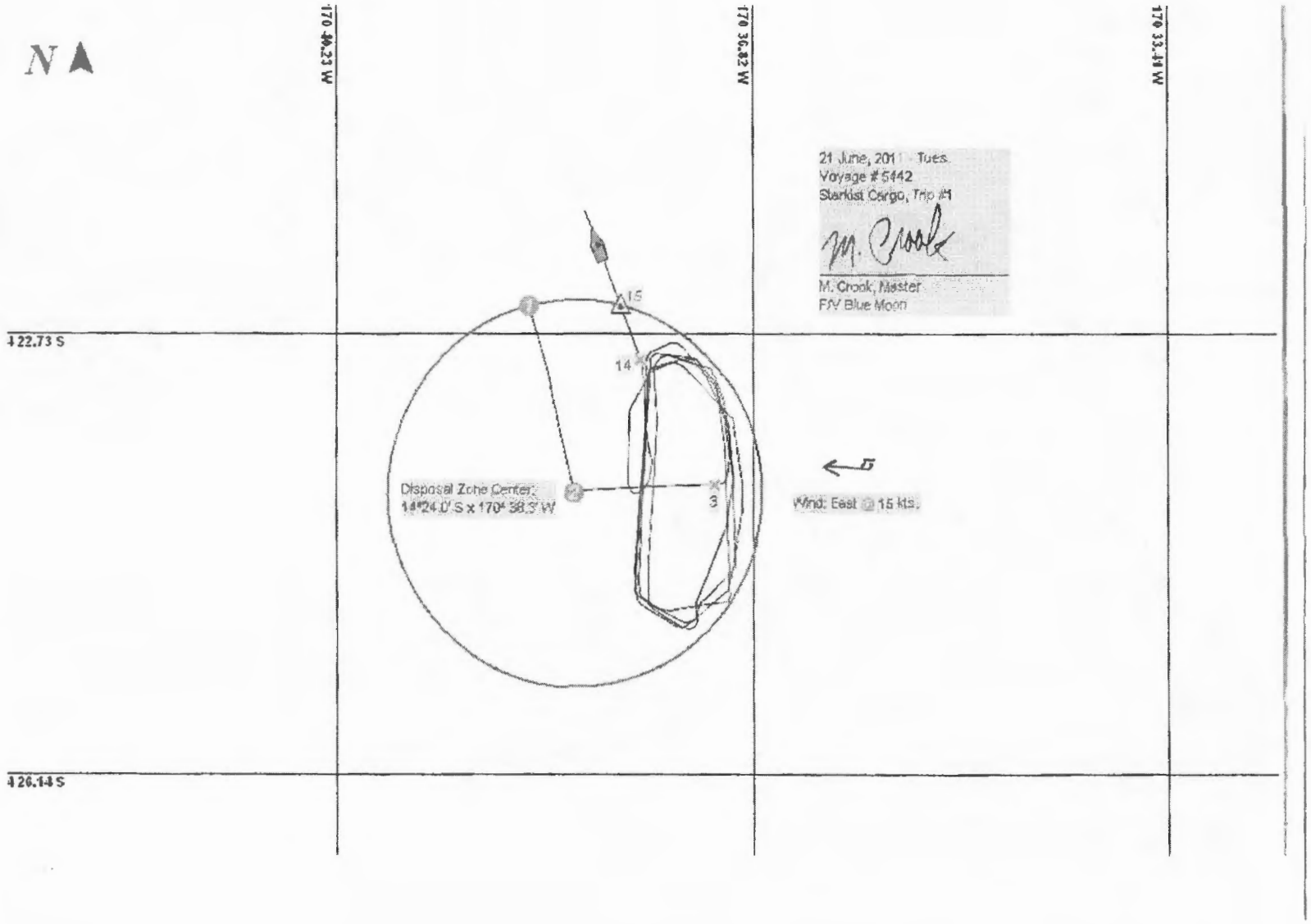

N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
04 June, 2011 - Sat.
Voyage # 5496
Starkist Cargo, Trip #1
*Ocean Monitoring/Sampling Conducted
M. Crook, Master
F/V Blue Moon
18
15
3
C
Disposal Zone Center:
14°24.0' S x 170° 36.3' W
Wind: East @ 10 - 15 Mts.

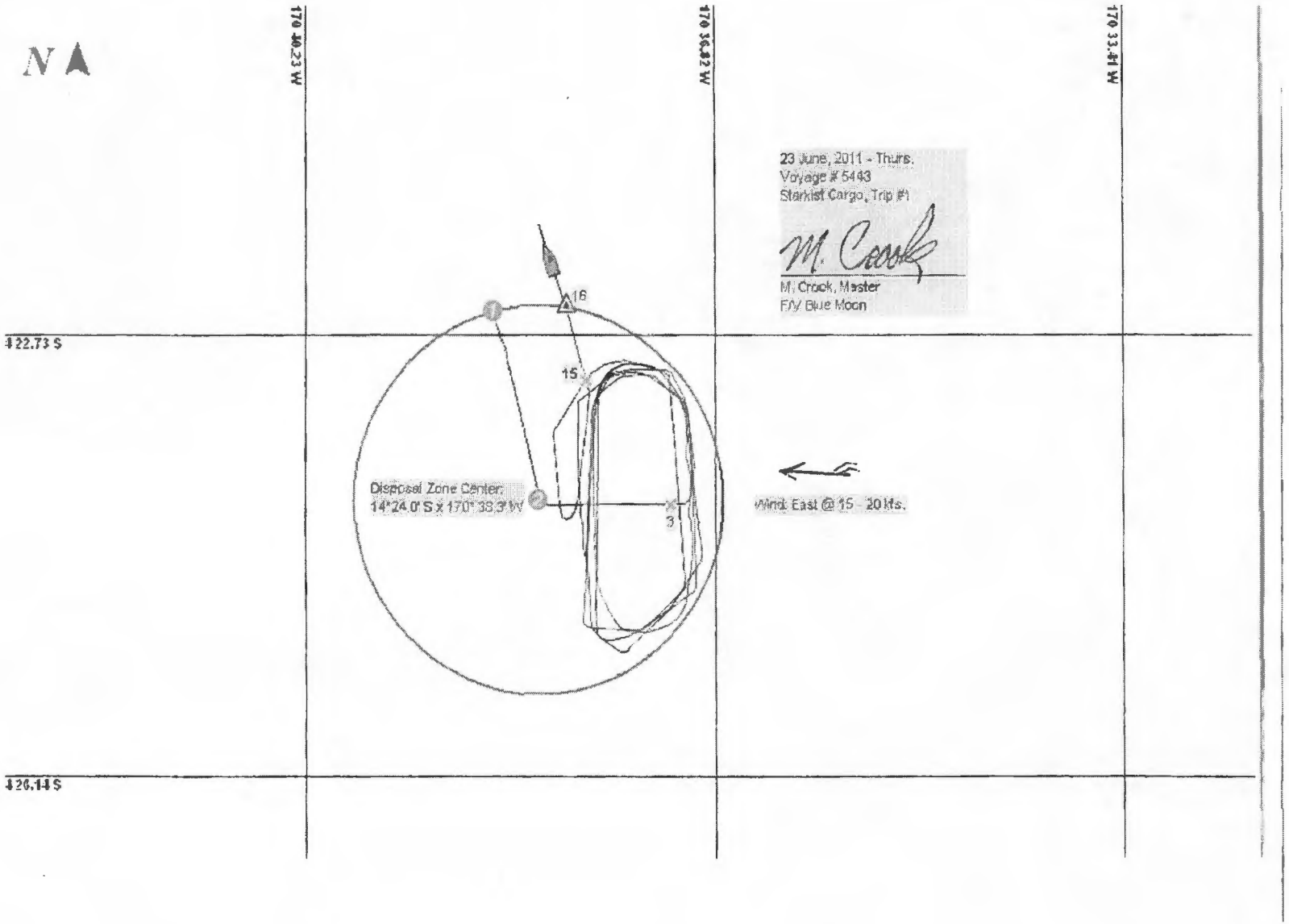

N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
07 June, 2011 - Tues
Voyage # 5437
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
15
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 10 - 18 kts.

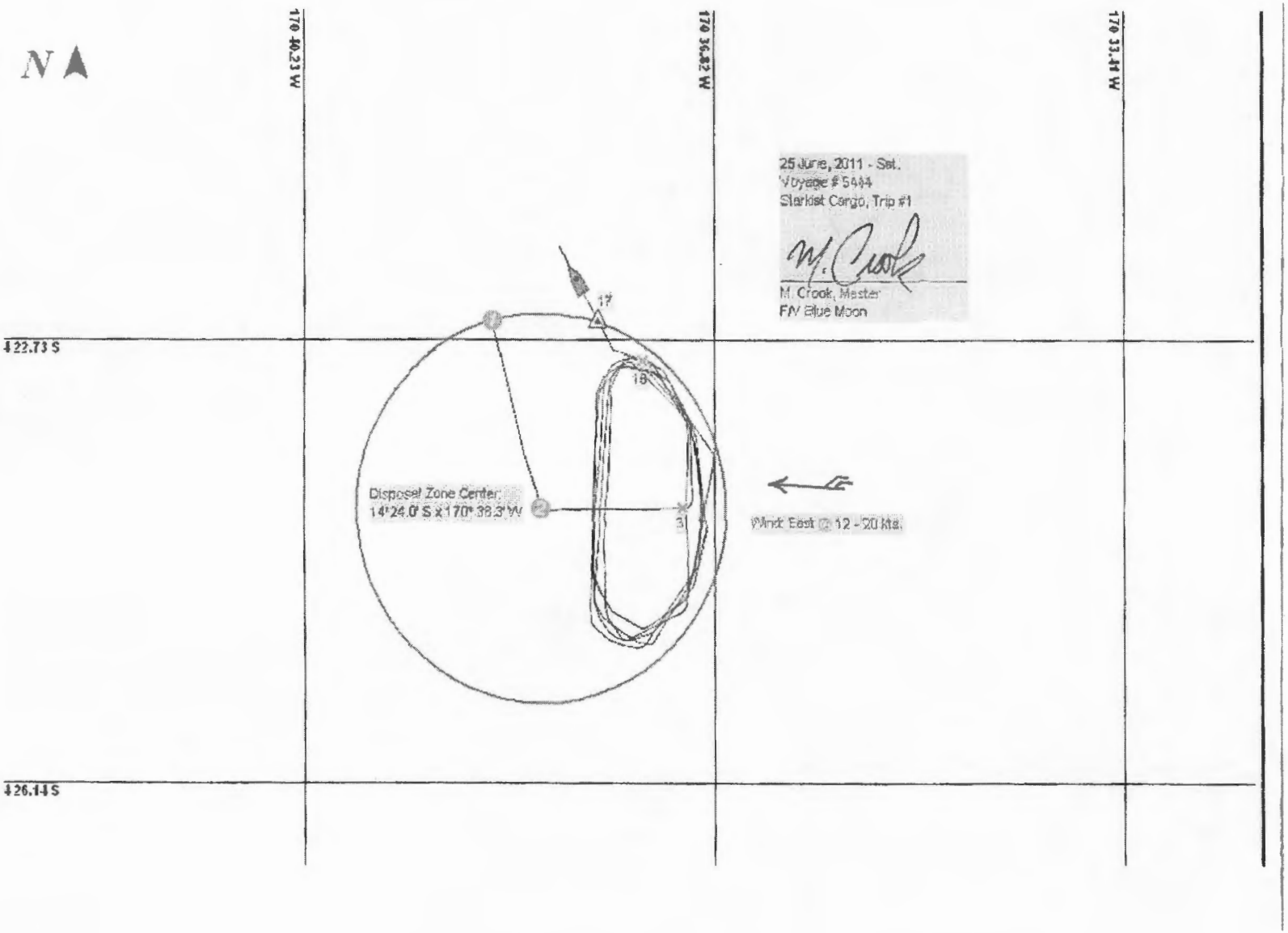

N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
09 June, 2011 - Thurs
Voyage # 5438
Starkist Cargo, Trip #1
M. Crook
M. Crook, Master
F/V Blue Moon
16
15
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 7 - 10 kts.

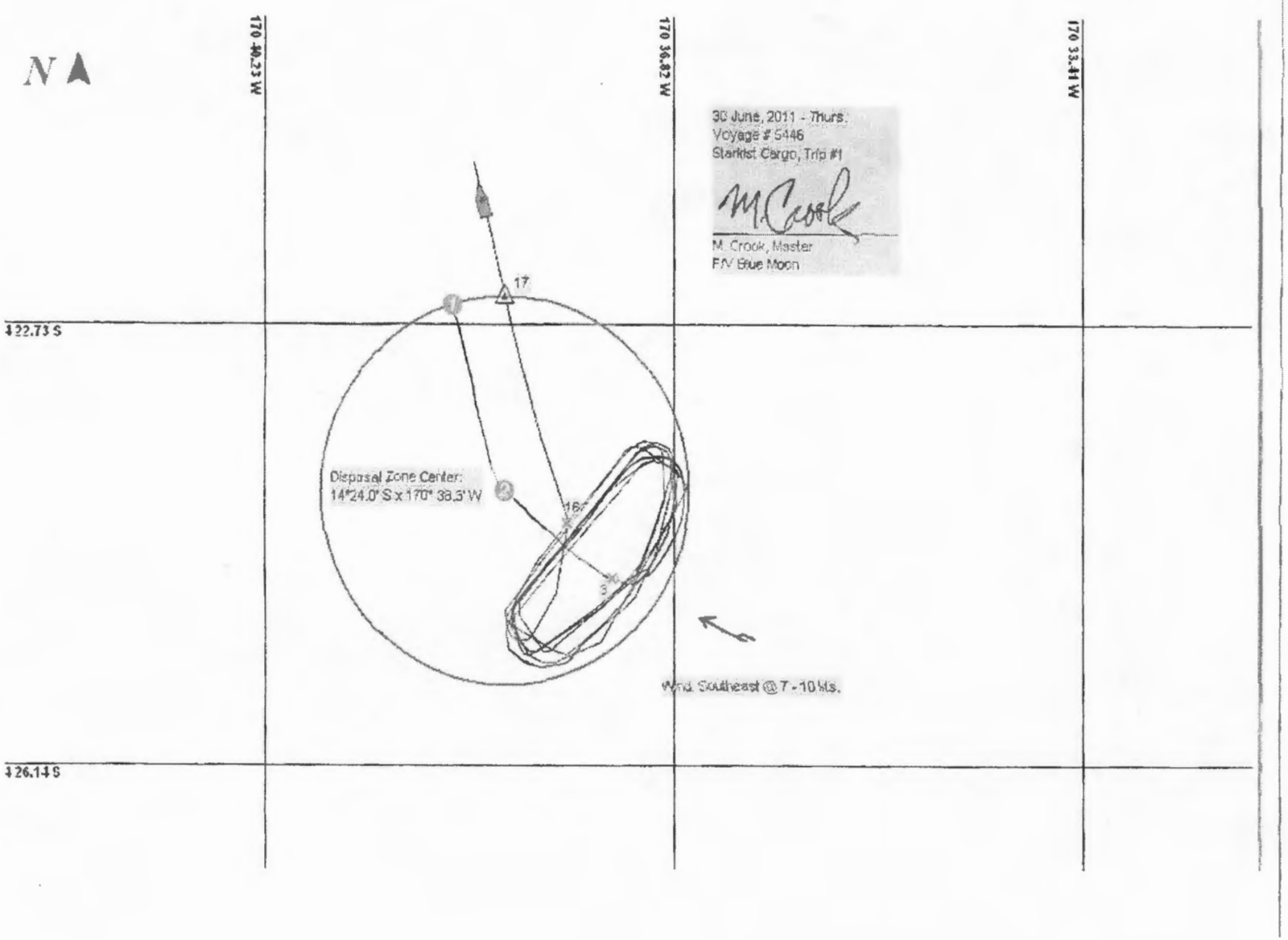

N
170 40.23 W
170 36.82 W
170 33.41 W
422.73 S
426.14 S
11 June, 2011 - Sat
Voyage # 5439
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center
14°24.0' S x 170° 38.3' W
Wind: East @ 7 - 10 kts.


N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
15 June, 2011 - Weds
Voyage # 5440
Sterlist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
15
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East to ESE @ 7 - 12 Kts


N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
21 June, 2011 Tues.
Voyage # 5442
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
15
14
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 15 kts.


N
170 40.23 W
170 36.32 W
170 33.41 W
422.73 S
426.14 S
23 June, 2011 - Thurs.
Voyage # 5443
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
15
3
Disposal Zone Center:
14°24.0' S x 170° 33.3' W
Wind: East @ 15 - 20 kts.


N
170 40.23 W
170 36.82 W
170 33.41 W
422.73 S
426.14 S
25 June, 2011 - Sat.
Voyage # 5444
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
18
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: East @ 12 - 20 kts.


N
170 40.23 W
170 36.82 W
170 33.41 W
14 22.73 S
14 26.14 S
30 June, 2011 - Thurs.
Voyage # 5446
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind Southeast @ 7 - 10 kts.