StarKist. Co

PO Box 368
PagoPago, American Samoa 96799
Ph (684) 644 2860
Fax (684) 644 1658

July 13 , 2012

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 2012 to June 2012. 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

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 2012 to June 2012

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)
4-Apr-12	50284	31850	39833	6080	465	6050	3480	6.79	1.00
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)
3-May-12	52630	23533	34805	6797	460	5900	4325	6.57	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)
8-Jun-12	58736	44464	54514	5735	555	7400	4050	7.1	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

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

Volume sheets
removed
- April 2012
- May 2012
- June 2012

StarKist Samoa CO
Ocean Dump Site Monitoring Reports

06- April - 2012	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	3.5	0.025	0.35	0.35	0.028
	control-3	6.0	3.5	0.005	0.10	0.50	0.029
	control-10	5.5	3.0	0.000	0.25	0.56	0.039
	1	5.0	2.0	0.000	0.40	0.23	0.024
	3	7.0	3.5	0.000	0.05	0.35	0.019
	10	5.5	2.5	0.005	0.30	0.45	0.026
Station 2	1	6.0	3.0	0.000	0.20	0.62	0.027
	3	5.5	1.5	0.020	0.20	0.38	0.041
	10	5.0	2.5	0.010	0.35	0.49	0.022
Station 3	1	5.5	2.0	0.000	0.10	0.23	0.031
	3	5.0	3.0	0.005	0.45	0.23	0.040
	10	5.0	3.0	0.025	0.25	0.47	0.025
Station 4	1	6.0	2.5	0.020	0.35	0.25	0.036
	3	5.0	2.0	0.020	0.25	0.47	0.025
	10	4.5	2.0	0.005	0.05	0.45	0.034
Station 5	1	4.5	2.0	0.045	0.25	0.25	0.050
	3	5.5	3.0	0.005	0.40	0.58	0.022
	10	4.5	1.5	0.025	0.55	0.49	0.033

May - 26- 2012	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	2.5	0.015	0.45	0.23	0.027
	control-3	5.0	1.5	0.015	0.20	0.34	0.040
	control-10	5.5	2.0	0.015	0.10	0.47	0.039
	1	4.5	2.5	0.015	0.25	0.38	0.045
	3	3.5	1.5	0.010	0.35	0.49	0.030
	10	5.0	2.5	0.020	0.25	0.57	0.024
Station 2	1	5.5	2.0	0.020	0.05	0.57	0.040
	3	5.0	2.5	0.025	0.30	0.34	0.026
	10	5.5	2.5	0.005	0.05	0.57	0.020
Station 3	1	5.0	1.5	0.005	0.25	0.46	0.027
	3	4.0	1.5	0.000	0.05	0.58	0.020
	10	4.5	2.0	0.005	0.30	0.34	0.019
Station 4	1	5.0	1.0	0.030	0.05	0.58	0.035
	3	5.5	2.5	0.020	0.35	0.23	0.032
	10	4.5	2.0	0.000	0.35	0.34	0.035
Station 5	1	5.0	2.0	0.020	0.20	0.36	0.024
	3	5.0	3.0	0.005	0.25	0.49	0.032
	10	5.0	1.5	0.015	0.15	0.45	0.034

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 - 2012	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	0.000	0.15	0.35	0.043
	control-3	5.5	2.0	0.005	0.20	0.45	0.023
	control-10	5.0	2.0	0.010	0.25	0.38	0.041
	1	5.0	2.5	0.025	0.20	0.46	0.034
	3	5.0	2.5	0.010	0.30	0.47	0.044
	10	5.5	3.5	0.015	0.15	0.56	0.030
Station 2	1	4.5	3.0	0.020	0.20	0.43	0.034
	3	4.5	2.5	0.015	0.25	0.56	0.049
	10	4.5	2.5	0.005	0.15	0.43	0.046
Station 3	1	5.5	3.0	0.020	0.15	0.34	0.037
	3	5.0	3.5	0.000	0.30	0.33	0.041
	10	6.0	2.5	0.020	0.10	0.34	0.043
Station 4	1	5.5	3.5	0.005	0.15	0.54	0.041
	3	4.5	3.0	0.020	0.25	0.22	0.048
	10	4.5	3.5	0.010	0.15	0.34	0.055
Station 5	1	4.5	2.5	0.000	0.30	0.35	0.044
	3	5.5	2.0	0.030	0.30	0.45	0.047
	10	5.0	3.0	0.030	0.05	0.58	0.037

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

Star Kist Co

July 13, 2012

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Fax (684) 644 1658

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 2012, 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 2012.

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

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

NAME: STAR-KIST SAMOA, INC

ADDRESS: P O BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY

LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
4/1/2012	4/30/2012

Form Approved
OMB No. 2040-0004

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	******	******	******	******	294.9	330.3		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	******	7.2		0		
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	8.6 MAXIMUM	SU		Continuous	CONTIN
Solids, total suspended	SAMPLE MEASUREMENT	1387.3	1560.2		******	******	******	******	0		
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	3960 MO AVG	9960 DAILY MX	lb/d	******	******	******	******		Weekly	COMP24
Nitrogen, total	SAMPLE MEASUREMENT	859.8	1118.7		******	******	******	******	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	408.9	587.3		******	30.2	39.9		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	79.1	114.6		******	******	******	******			
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)-644-423		2/13/12
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

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

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

NAME: STAR-KIST SAMOA, INC

ADDRESS: P O BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY

LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
4/1/2012	4/30/2012

Form Approved
OMB No. 2040-0004

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	182.3	204.6		******	******	******	******	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	1.168888	1.850000		******	******	******	******	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	7 13 12
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 April 2012

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		0.980000	514.1	12.5	81	7.0	7.0												
2	359.9306	1.600000	726.1	17.2	80	7.0	7.0												
3	381.7482	1.770000	795.0	19.9	80	7.0	7.0	12.3	181.0	106.0	1560.2	5.4	79.5	60.0	883.2	39.9	587.3	330.3	4861.8
4	392.7751	0.810000	715.5	17.5	80	7.0	7.0					6.5	43.8	64.0	431.1				
5	394.3795	1.570000	646.6	15.8	80	7.0	7.0												
6		0.610000	159.0	3.9	80	7.0	7.0												
7		0.090000	95.4	2.5	80	7.0	7.0												
8		0.310000	201.4	5.4	80	7.0	7.0												
9	388.0713	1.160000	593.6	15.4	80	7.0	7.0												
10	402.2866	1.320000	646.6	15.9	80	7.0	7.0	14.7	161.4	112.7	1237.1	6.2	68.1	76.0	834.3	28.2	309.6	289.8	3181.2
11	412.5723	1.790000	768.5	18.5	80	7.0	7.0					7.7	114.6	64.0	952.7				
12	404.9011	1.760000	773.8	18.3	80	7.0	7.0												
13	407.7134	1.530000	694.3	17.2	80	7.0	7.1												
14	50.4209	1.020000	376.3	9.4	80	7.0	7.0												
15																			
16																			
17																			
18	48.1171	0.910000	355.1	8.6	80	7.0	7.0												
19	45.3742	0.950000	349.8	9.2	80	7.0	7.0												
20	40.8918	0.900000	434.6	10.9	80	7.0	7.0												
21	41.0691	0.690000	238.5	6.1	80	7.0	7.0												
22		0.780000	360.4	9.3	80	7.0	7.0												
23	368.3398	1.580000	810.9	19.3	80	7.0	7.2												
24	398.7227	1.770000	810.9	19.5	80	7.0	7.0	13.9	204.6	92.7	1364.5	6.0	88.3	76.0	1118.7	22.4	329.7	264.5	3893.3
25	394.2058	1.850000	869.2	21.0	80	7.0	7.0					5.2	80.0	61.0	938.5				
26	351.7386	1.650000	848.0	20.6	80	7.0	7.0												
27	352.5347	1.480000	742.0	17.2	80	7.0	7.1												
28		0.540000	222.6	5.1	80	7.0	7.0												
29		0.520000	371.0	8.9	80	7.0	7.0												
30	426.3885	1.620000	742.0	18.0	80	7.0	7.0												
TOT	6062.1814	31.560000	14861.2	363.1					547.0		4161.9		474.3		5158.3		1226.6		11936.2
AVG	303.1091	1.168888	550.4	13.4	81			13.6	182.3	103.8	1387.3	6.2	79.1	66.8	859.8	30.2	408.9	294.9	3978.8

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

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ATTN: MR. JOE CARNEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
5/1/2012	5/31/2012

Form Approved
OMB No. 2040-0004

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	******	******	******	******	356.4	448.1		0		
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Weekly	COMP24
pH	SAMPLE MEASUREMENT	******	******	******	7.1	******	7.1		0		
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	8.6 MAXIMUM	SU		Continuous	CONTIN
Solids, total suspended	SAMPLE MEASUREMENT	1299.2	1613.0		******	******	******	******			
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	3960 MO AVG	9960 DAILY MX	lb/d	******	******	******	******		Weekly	COMP24
Nitrogen, total	SAMPLE MEASUREMENT	985.9	1271.4		******	******	******	******			
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	440.1	491.0		******						
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	93.0	128.1		******	******	******	******			
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		7 13 12
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

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

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

NAME: STAR-KIST SAMOA, INC

ADDRESS: P O BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY

LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
5/1/2012	5/31/2012

Form Approved
OMB No. 2040-0004

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	156.2	225.5		******	******	******	******	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	1.222903	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	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	7 13 12
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 May 2012

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	407.8595	1.820000	805.6	19.0	80	7.0	7.1	14.9	225.5	103.3	1563.5	6.3	95.4	84.0	1271.4	29.7	449.5	272.0	4116.8
2	425.9988	1.770000	773.8	19.2	80	7.0	7.1					7.5	110.4	65.0	956.8				
3	414.7360	1.710000	805.6	19.6	80	7.0	7.1												
4	407.0693	1.400000	609.5	14.6	80	7.0	7.1												
5		0.140000	100.7	2.5	80	7.0	7.0												
6		0.260000	212.0	4.7	80	7.1	7.1												
7	422.1251	1.440000	636.0	17.2	80	7.0	7.1												
8	431.3082	1.440000	747.3	18.8	80	7.0	7.1	10.7	128.1	92.0	1101.7	4.2	50.3	99.0	1185.5	39.2	469.4	313.4	3753.0
9	430.6500	1.380000	763.2	18.3	80	7.0	7.0					4.8	55.1	96.0	1101.7				
10	426.5930	1.350000	747.3	18.6	80	7.0	7.1												
11	413.9164	1.070000	583.0	14.5	80	7.0	7.0												
12		0.480000	233.2	5.9	80	7.1	7.1												
13		0.440000	243.8	6.1	80	7.0	7.0												
14	388.6841	1.300000	657.2	15.2	80	7.0	7.1												
15	356.8089	1.340000	826.8	19.5	80	7.0	7.0	12.8	154.0	97.3	1084.3	7.1	79.1	67.0	746.6	31.2	347.7	395.9	4411.7
16	374.8299	1.370000	731.4	17.9	80	7.0	7.1					7.6	86.6	52.0	592.4				
17	359.6925	1.310000	795.0	19.2	80	7.0	7.1												
18	353.9939	1.410000	242.0	17.9	80	7.0	7.0												
19	358.3598	1.290000	630.7	15.1	80	7.0	7.1												
20		0.630000	249.1	5.1	80	7.0	7.0												
21	405.5870	1.290000	704.9	17.6	80	7.0	7.1												
22	425.3765	1.440000	795.0	10.0	80	7.0	7.0	12.0	143.7	134.7	1613.0	10.7	128.1	66.0	790.4	41.0	491.0	352.6	4222.4
23	432.0067	1.560000	869.2	20.3	80	7.0	7.0					8.2	106.4	86.0	1115.7				
24	409.5469	1.560000	673.1	16.5	80	7.0	7.0												
25	390.4232	1.580000	720.8	18.2	80	7.0	7.0												
26	366.7554	1.160000	556.5	13.8	80	7.0	7.0												
27		0.500000	318.0	6.8	80	7.0	7.0												
28	415.3928	1.240000	694.3	16.1	80	7.0	7.0												
29	409.6947	1.420000	810.9	19.5	80	7.0	7.0	11.0	129.9	96.0	1133.6	10.1	119.3	99.0	1169.1	37.5	442.8	448.1	5291.5
30	424.4688	1.300000	689.0	17.8	80	7.0	7.0					9.2	99.5	86.0	929.7				
31	420.9893	1.510000	720.8	18.5	80	7.0	7.0												
TOT	10072.8667	37.910000	18945.7	464.0					781.2		6496.1		930.1		9859.2		2200.4		21795.3
AVG	402.9147	1.222903	611.2	15.0	80			12.3	156.2	104.7	1299.2	7.6	93.0	80.0	985.9	35.7	440.1	356.4	4359.1

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

NAME: STAR-KIST SAMOA, INC

ADDRESS: P O BOX 368
PAGO PAGO, AS 96799

FACILITY: STAR-KIST SAMOA TUNA CANNERY

LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
6/1/2012	6/30/2012

Form Approved
OMB No. 2040-0004

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	******	******	******	******	332.8	374.6		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	3301.2	5328.5		******	******	******	******			
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	3960 MO AVG	9960 DAILY MX	lb/d	******	******	******	******		Weekly	COMP24
Nitrogen, total	SAMPLE MEASUREMENT	908.1	1193.8		******	******	******	******			
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	581.5	722.8		******	47.9	53.0		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	100.4	147.6		******	******	******	******			
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		7 13 12
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

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

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

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PAGO PAGO, AS 96799

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LOCATION: ATU'U, MAOPUTASI
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ATTN: MR. JOE CARNEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

AS0000019	001-A
PERMIT NUMBER	DISCHARGE NUMBER

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MM/DD/YYYY	MM/DD/YYYY
6/1/2012	6/30/2012

Form Approved
OMB No. 2040-0004

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	989.8	1616.1		******	******	******	******	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	1.327931	1.730000		******	******	******	******	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
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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 June 2012

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	393.9635	1.400000	747.3	18.5	80	7.0	7.0												
2	377.2988	1.250000	678.4	16.8	80	7.0	7.0												
3		0.790000	424.0	10.6	80	7.0	7.0												
4	383.8878	1.390000	694.3	17.3	80	7.0	7.0												
5	390.4441	1.520000	757.9	18.0	80	7.0	7.0	13.4	169.4	71.3	901.3	11.3	142.8	92.0	1162.9	39.5	499.3	261.5	3305.4
6	389.9964	1.420000	789.7	19.6	80	7.0	7.0					12.5	147.6	82.0	968.3				
7	392.5696	1.560000	752.6	18.6	80	7.0	7.0												
8	407.2063	1.630000	784.4	19.7	80	7.0	7.0												
9	392.2526	1.330000	614.8	14.4	80	7.0	7.0												
10		0.840000	482.3	11.6	80	7.0	7.0												
11	432.6023	0.270000	190.8	4.7	80	7.0	7.0												
12	406.8620	1.470000	270.3	7.1	81	7.0	7.1												
13	412.0725	1.480000	773.8	19.2	80	7.0	7.0	129.2	1590.2	289.3	3560.6	6.3	77.5	97.0	1193.8	47.6	585.8	357.8	4403.7
14	404.6063	1.690000	789.7	20.6	81	7.0	7.0					7.0	98.4	43.0	604.3				
15	425.3116	1.300000	583.0	15.8	82	7.0	7.0												
16																			
17		0.560000	212.0	6.3	82	7.0	7.0												
18	360.1406	1.170000	540.6	13.5	82	7.0	7.1												
19	375.2495	1.210000	630.7	15.4	82	7.0	7.0	58.0	583.6	339.3	3414.2	6.4	64.4	54.0	543.4	51.5	518.2	337.4	3395.0
20	426.2755	1.600000	821.5	19.9	80	7.0	7.0					6.5	86.5	73.0	971.3				
21	456.8793	1.730000	651.9	16.1	80	7.0	7.0												
22	445.6450	1.560000	742.0	18.6	82	7.0	7.0												
23	421.5209	1.600000	620.1	16.4	81	7.0	7.0												
24		0.560000	174.9	4.2	80	7.0	7.0												
25	414.2733	1.440000	556.5	13.1	82	7.0	7.0												
26	423.6283	1.490000	524.7	12.8	80	7.0	7.1												
27	414.3160	1.640000	779.1	19.9	82	7.0	7.1	118.5	1616.1	390.7	5328.5	6.9	94.1	73.0	995.6	53.0	722.8	374.6	5108.9
28	431.5386	1.600000	604.8	14.4	80	7.0	7.1					6.9	91.8	62.0	824.9				
29	424.6130	1.690000	720.8	18.3	80	7.0	7.0												
30	414.6589	1.320000	424.0	10.2	80	7.0	7.1												
TOT	10217.8127	38.510000	17336.9	431.6					3959.3		13204.5		803.2		7264.6		2326.2		16213.1
AVG	408.7125	1.327931	597.8	14.9	81			79.8	989.8	272.7	3301.2	8.0	100.4	72.0	908.1	47.9	581.5	332.8	4053.3

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FACILITY: STAR-KIST SAMOA TUNA CANNERY

LOCATION: ATU'U, MAOPUTASI
PAGO PAGO, AS 96799

ATTN: MR. JOE CARNEY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

AS0000019	001-S
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
1/1/2012	6/30/2012

Form Approved
OMB No. 2040-0004

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	1.725	1.725		******	106	106		0		
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	0.039	0.039		******	2.400	2.400		0–		
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	0.002522	0.002522		******	0.155	0.155		0		
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	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	7 13 12
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

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

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

06 April, 2012

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
09 April, 2012

Introduction

On April 06, 2012 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

0845: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0939: The *Blue Moon* entered the dumpzone circle @ 14*22.5' S x 170*38.7' W.

0949: The *Blue Moon* arrived at the dump-zone center, where observed light southeast (SE) winds and slight south (S) & SE swells initially indicated disposal operations be conducted in the southeastern dump-zone quadrant.

0957: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or SE 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 mixed S & SE swells to 1.5 meters and light SSE winds with the barometer reading 29.56. It was noted here that the current set and drift of the ship had now shifted somewhat from NW to due north at 0.9 knots indicating that disposal operations should be shifted accordingly to the southern zone quadrant. No floating materials or sea life were observed.

1009: The *Blue Moon* began disposal operations in the southeastern dump zone quadrant then, according to the change in current set, proceeded to the southern quadrant and continued discharging cargo (high strength waste water) with an East (E) to West (W) reciprocal, elongated elliptical pattern, approximately 2.2 miles long until completion at 1324 hrs. (See (Plot #1).

1330: 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 waste plume was not apparent at this position having already been moved off to the north by the current, which was GPS determined to be northerly @ 0.7

knots. No sea life or floating materials were observed.

1340: Station Two Monitoring. Station two was sampled with the same procedures as station one with measurements and observations being recorded in Table 1. The waste plume appeared here as elongate large area of heavy glassy surface sheen over clear blue and extending in a E to W direction for over 2 NM and moving steadily to the north. The average drift rate of the ship with current and wind was GPS determined to be northerly (N) at a rate of 0.6 knots between stations 2 & 3 (See Plot #1). No sea-life was noted at this position.

1350: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed the same heavy sheen as Station #2 with additional large (3 x 20 meter) swaths of floating scum and large brownish particles along with finer and lighter suspended particulates (See Table 1). Sea & wind (SSE @ 7kts.) conditions remained constant at this point and the drift rate of the ship between Stations #3 & 4 was 0.8 knots, again, to the north.

1400: Station Four monitoring. This area showed, in addition to the heavy surface sheen, more swaths of the floating brownish scum along with the finer suspended particulate material described more fully in Table 1. The northerly current/drift rate of the ship was noted here to be at 0.7 knots.

1415: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 1.1 NM north of the zone center. The leading edge of the waste plume was clearly visible at this location as a long east to west reaching narrow area of broken up old vessel track lines of heavy sheen with clear, natural appearing blue waters further down-current to the north. None of the floating scum or suspended particulates present at previous stations were noted here. 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 29.50 when monitoring activities were concluded at 1430 hrs. The *Blue Moon* exited the disposal zone at 1439 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1530 hours.

Prepared by M. Crook
Mike Crook, Principal Investigator

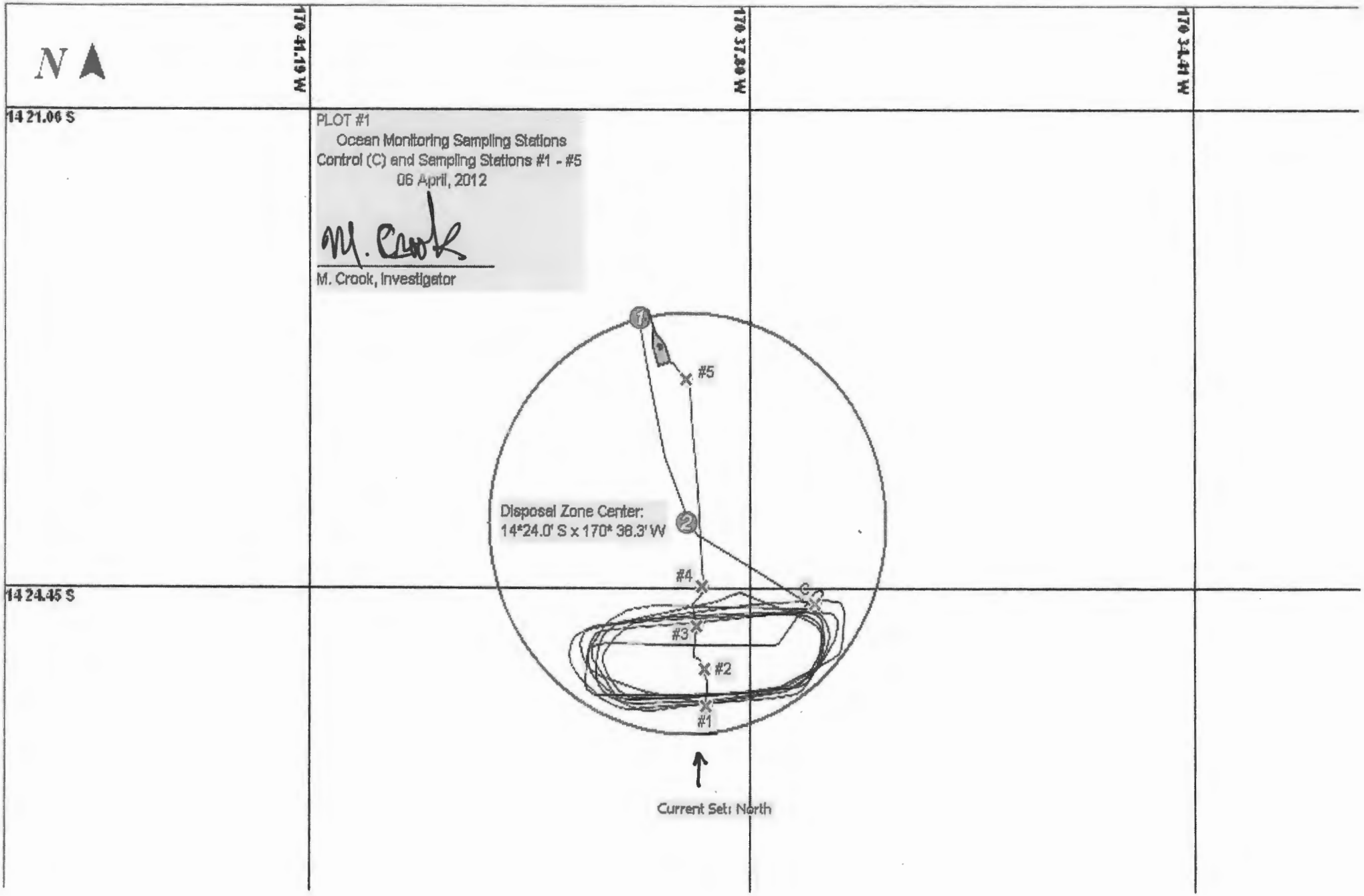
OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: 06 April, 2012	Sea Conditions: Slight w/ mixed south & SE swells to 1.5 meters. Wind: South-southeast @ 5 - 7 knots. Visibility: Very good to unlimited Barometer: 29.53 ↑ 29.56 ↓ 29.50 Current Set & Drift Rate: Northwest shift to north @ average 0.7 knots Sky: Partly cloudy 50 - 80%					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0957	Control	1	29.7	8.4	None	Clear and natural, deep pelagic blue w/ no floating or suspended materials.
		3	29.5	8.4		
		10	29.4	8.4		
1330	Station 1	1	30.8	8.4	None	Same as Control Station, as the current had already moved this edge of the waste plume off to the north.
		3	30.6	8.4		
		10	30.3	8.4		
1340	Station 2	1	30.3	8.4	Slightly Pungent	A large, continuous band of moderate surface sheen extending to the north, over deep, blue & clear water. No floating or suspended materials
		3	30.2	8.4		
		10	29.8	8.4		
1350	Station 3	1	30.9	8.4	Pungent	Several large (20 x 3 meters) swaths of floating brown scum amid the broad area of heavy surface sheen. Also present were fine, white/gray, suspended particulate materials to the limit of visibility (3 meters).
		3	29.8	8.4		
		10	29.8	8.4		
1400	Station 4	1	30.2	8.4	Pungent	Another large area of continuous heavy surface sheen with more floating swaths of large brownish particulates/scum, along with finer suspended gray/white particulates extending down to the limit of visibility (3-4 meters).
		3	30.1	8.4		
		10	29.6	8.4		
1415	Station 5	1	30.2	8.4	Slightly Pungent	Leading Edge of the waste plume, nearly 1.5 NM north of Station #4. Fairly distinct boundary of glassy surface sheen from old vessel discharge track lines and clear, natural blue seas further down-current to the north. No more floating or particulate materials present at this location.
		3	29.8	8.4		
		10	29.6	8.4		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control - C	14° 24.56'	South	170° 37.32'	West
Station 1	14° 25.25'	South	170° 38.15'	West
Station 2	14° 24.98'	South	170° 38.17'	West
Station 3	14° 24.76'	South	170° 38.22'	West
Station 4	14° 24.49'	South	170° 38.18'	West
Station 5	14° 22.95'	South	170° 38.33'	West


N
170 41.19 W
170 37.80 W
170 34.41 W
14 21.06 S
14 24.45 S
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
06 April, 2012
M. Crook, Investigator
Disposal Zone Center:
14°24.0' S x 170° 36.3' W
#5
#4
C
#3
#2
#1
Current Set: North

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

03 May, 2012

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
09 May, 2012

Introduction

On May 3, 2012 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

0528: The *Blue Moon* departed Pago Pago Harbor bound for the dump-site location with Master/Principal Investigator, Chief and Mate on board.

0619: The *Blue Moon* entered the dumpzone circle @ 14*22.7' S x 170*38.7' W.

0630: The *Blue Moon* arrived at the dump-zone center, where observed light westerly winds and slight mixed south/SW swell seas initially indicated disposal operations be conducted in the western dump-zone quadrant.

0640: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or west (W) 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 mixed, low south & SW swells to 1.5 meters and a 2 knot west wind with the barometer reading 29.49. Current set and drift of the ship were slow to the east at 0.3 knot. No floating materials or sea life were observed here.

0656: The *Blue Moon* began disposal operations in the western 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 until 1005 hrs. when the cargo discharge had been completed

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 light west winds had backed off to near calm conditions with still cloudy skies. The waste plume was not visually present here, having apparently already been moved off to the the east by the current. The current/wind drift of the ship was GPS determined to be easterly @ 0.6 knots. No sea life or floating 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. The waste plume appeared here as elongate large area of heavy glassy surface sheen extending in a N to S direction and moving gradually to the east. No sea life or floating materials were observed. The average drift rate of the ship with current and wind was GPS determined to be easterly (E) at a rate of 0.4 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 the same moderate sheen over clear sub-surface waters as Stations #2. Sea & wind conditions remained quite calm at this point and the drift rate of the ship between Stations #3 & 4 was 0.4 knots, again, to the east.

1040: Station Four monitoring. This area showed an even heavier surface sheen than the previous two stations but still had clear subsurface water. The easterly current/drift rate of the ship was 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 0.13 NM WNW (See Plot #1) of the zone center. The leading edge of the waste plume was clearly visible at this location as the edge of the large, continuous area of moderate surface sheen described earlier with clear, natural appearing blue waters just further down-current to the east. 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 1105 hrs. The *Blue Moon* exited the disposal zone at 1116 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1205 hours.

Prepared by M. Crook
Mike Crook, Principal Investigator

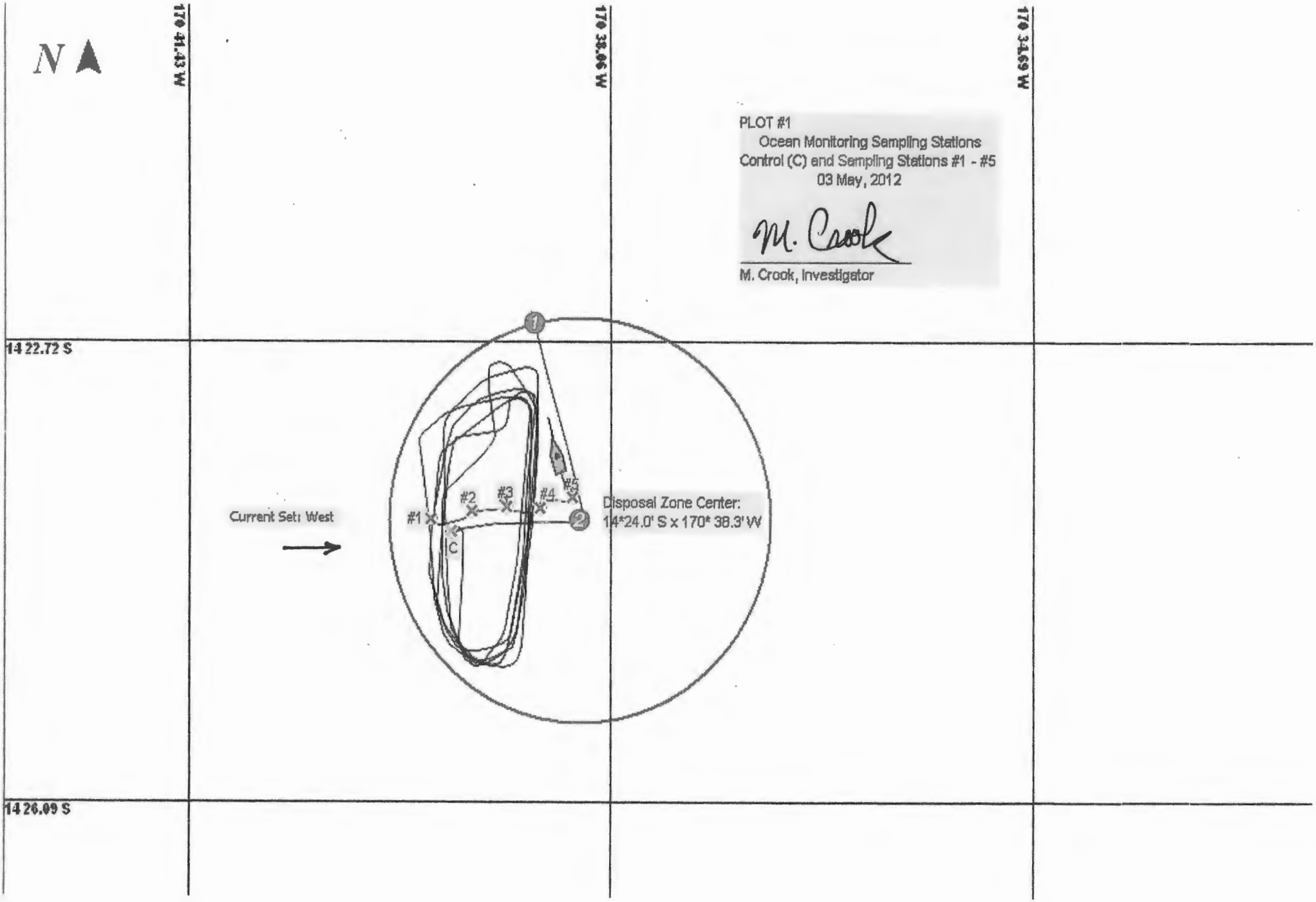
OCEAN DUMPING RESEARCH PERMIT: OD-93-01 & 02

Table 1

Date: 03 May, 2012	Sea Conditions: Slight with South/Southwest swells to 1.5 meters. Wind: Calm to West @ 2 knots Visibility: Unlimited Barometer: 29.48 ↑ 29.51 Current Set & Drift Rate: East @ average 0.5 knots Sky: Cloudy; 70 - 90%					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0640	Control	1	28.8	8.5	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	28.7	8.5		
		10	28.9	8.5		
1010	Station 1	1	30.2	8.5	None	Same color qualities as Control Station; clear and natural blue with no floating or suspended particulate material. Waste plume noted just east of this position having been moved off by the current
		3	30.0	8.5		
		10	29.6	8.5		
1020	Station 2	1	29.7	8.5	Slightly Pungent	Streaks and large patches of moderate glassy surface sheen from broken up, north to south running vessel discharge track lines. No sign of floating or particulate materials.
		3	29.5	8.5		
		10	29.3	8.5		
1030	Station 3	1	29.8	8.5	Slightly Pungent	Same color qualities as Station #2
		3	29.6	8.5		
		10	29.5	8.5		
1040	Station 4	1	29.7	8.5	Slightly Pungent	Large north to south extending area of heavy, glassy surface sheen over deep, clear blue. No floating or suspended particulate or other material.
		3	29.4	8.5		
		10	29.4	8.5		
1050	Station 5	1	29.7	8.5	Slightly Pungent	Leading edge of the waste plume: Same color & sheen observations as at Station #4 and located very close (0.13 NM) west-northwest of the disposal zone center.
		3	29.8	8.5		
		10	29.5	8.5		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control - C	14° 24.12'	South	170° 39.32'	West
Station 1	14° 24.07'	South	170° 39.49'	West
Station 2	14° 24.02'	South	170° 39.21'	West
Station 3	14° 23.95'	South	170° 38.93'	West
Station 4	14° 23.98'	South	170° 38.65'	West
Station 5	14° 23.87'	South	170° 38.36'	West


N
170 41.43 W
170 38.06 W
170 34.69 W
14 22.72 S
14 26.09 S
PLOT #1
Ocean Monitoring Sampling Stations
Control (C) and Sampling Stations #1 - #5
03 May, 2012
M. Crook, Investigator
Current Set: West
#1
#2
#3
#4
#5
C
1
2
Disposal Zone Center:
14°24.0' S x 170° 38.3' W

Ocean Disposal Site Monitoring Report

(OD Permit 93-01 & 93-02)

09 June, 2012

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
12 June, 2012

Introduction

On June 09, 2012 the tank-ship *Blue Moon* departed Starkist Samoa dock bound for the designated ocean disposal-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

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

0615: The *Blue Moon* entered the dumpzone circle @ 14*22.5' S x 170*38.7' W.

0626: The *Blue Moon* arrived at the dump-zone center, where observed southeast winds and slight east to southeasterly seas initially indicated disposal operations be conducted in the southeastern (SE) dump-zone quadrant.

0635: Control Station Monitoring. The *Blue Moon* arrived 1.1 nautical miles (NM) up-current or SE 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 SE winds at 7 knots (kts.) with the barometer reading 29.59. Current set and drift of the ship, by GPS, were to the west at 0.5 knots. No floating materials or sea life were observed here.

0650: The *Blue Moon* began disposal operations in the southeastern dump zone quadrant and continued discharging cargo (high strength waste water) with a northeast (NE) to southwest (SW) reciprocal, elongated elliptical pattern, approximately 2.25 miles long (see Plot 1) until 09:50 hrs.

1000: 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 SE wind had increased to 10 kts. with partly cloudy skies. The waste plume was visible here as broken patches of heavy glassy surface sheen over clear, blue sub-surface water. The current/wind drift of the ship was GPS determined to be northwesterly (NW) at 0.5 knots. No floating or suspended materials were noted here.

1015: 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 some light surface sheen of previous vessel track lines as the only visible indication of the waste plume. The average drift rate of the ship with current and wind was GPS determined here to be northwesterly (NW) at a rate of 0.6 knots between stations 2 & 3 (See Plot #1). No sea-life or floating materials were noted at this position.

1025: Station Three Monitoring. Seawater samples were collected and measurements taken as with Stations 1 & 2. This position showed a broad area of continuous streaks and patches of moderate to heavy surface sheen along with widespread floating and suspended brown particulates in dense concentration extending down to the limit of visibility (approx. 3 - 4 meters). 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 0.6 knots, again, to the northwest.

1035: Station Four monitoring. This position was in the same large area of heavy surface sheen as Station #3 and showed more floating and suspended particulate material but finer in size, less concentrated and of a lighter gray color. The northwesterly current/drift rate of the ship was again noted here to be at 0.6 knots. No sea-life was observed.

1045: Station Five monitoring. Sampling for this final station was conducted at the visual leading edge of the waste plume and approximately 0.24 NM south of the zone center (See Plot #1). The waste plume's leading edge was barely distinctive at this location as a few faint spots of light, glassy surface sheen with clear, natural appearing blue waters underneath and further down-current to the NW. No more of the fine floating or suspended particles were noted. The final drift rate of the ship was noted to be NW @ 0.8 kts. Other than a few random seabirds flying by, 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 1058 hrs. The *Blue Moon* exited the disposal zone at 1110 hours and arrived back in Pago Pago Harbor to deliver the collected samples to the Starkist Samoa Co. laboratory at 1200 hours.

Prepared by M. Crook
Mike Crook, Principal Investigator

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

Table 1

Date: 09 June, 2012	Sea Conditions: Slight w/ East & Southeast swells to 1.5 meters. Wind: Southeast @ 7 - 10 knots Visibility: Unlimited Barometer: 29.59 - 29.60 Current Set & Drift Rate: Northwest @ average 0.6 knots Sky: Partly Cloudy, 20 - 60%					
Time	**Station**	**Depth (meters)**	**Temp. (°C)**	**pH**	**Odor**	**Color**
0635	Control	1	27.9	8.6	None	Clear and natural deep pelagic blue w/ no floating or suspended materials.
		3	27.7	8.6		
		10	27.7	8.6		
1000	Station 1	1	28.7	8.6	Slightly Pungent	Broken patches of previous vessel track lines and streaks of heavy surface sheen over deep, clear blue water. No floating scum or other particulate type materials present.
		3	28.3	8.6		
		10	28.5	8.6		
1015	Station 2	1	28.4	8.6	Slightly Pungent	Light & broken surface sheen over deep, clear blue. Heavy surface sheen areas further down-current to the northwest. No particulates or floating scum.
		3	28.2	8.6		
		10	28.2	8.6		
1025	Station 3	1	28.4	8.8	Slightly Pungent	Moderate glassy surface sheen w/ fine, brownish particulate material, both suspended & floating and present down to the limit of visibility in dense concentration.
		3	28.4	8.8		
		10	28.3	8.8		
1035	Station 4	1	28.5	8.7	Slightly Pungent	Heavy glassy surface sheen w/ more floating & suspended particulate material, and present down to the limit of visibility. Lighter colored and less dense in concentration than Station #3.
		3	28.5	8.7		
		10	28.5	8.7		
1045	Station 5	1	28.7	8.6	Slightly Pungent	Leading edge of waste plume and 0.24 NM south of the disposal zone center (See Plot #1). Location showed just a few faint streaks of surface sheen over deep, clear, natural appearing blue water. No more suspended or floating particulate material or sea life noted.
		3	28.4	8.6		
		10	28.3	8.6		

SAMPLE STATIONS POSITIONS

	LATITUDE		LONGITUDE	
Control - C	14° 24.45'	South	170° 37.33'	West
Station 1	14° 24.89'	South	170° 37.16'	West
Station 2	14° 24.81'	South	170° 37.43'	West
Station 3	14° 24.63'	South	170° 37.59'	West
Station 4	14° 24.49'	South	170° 37.85'	West
Station 5	14° 24.25'	South	170° 38.26'	West

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6/9/2012
Page 1

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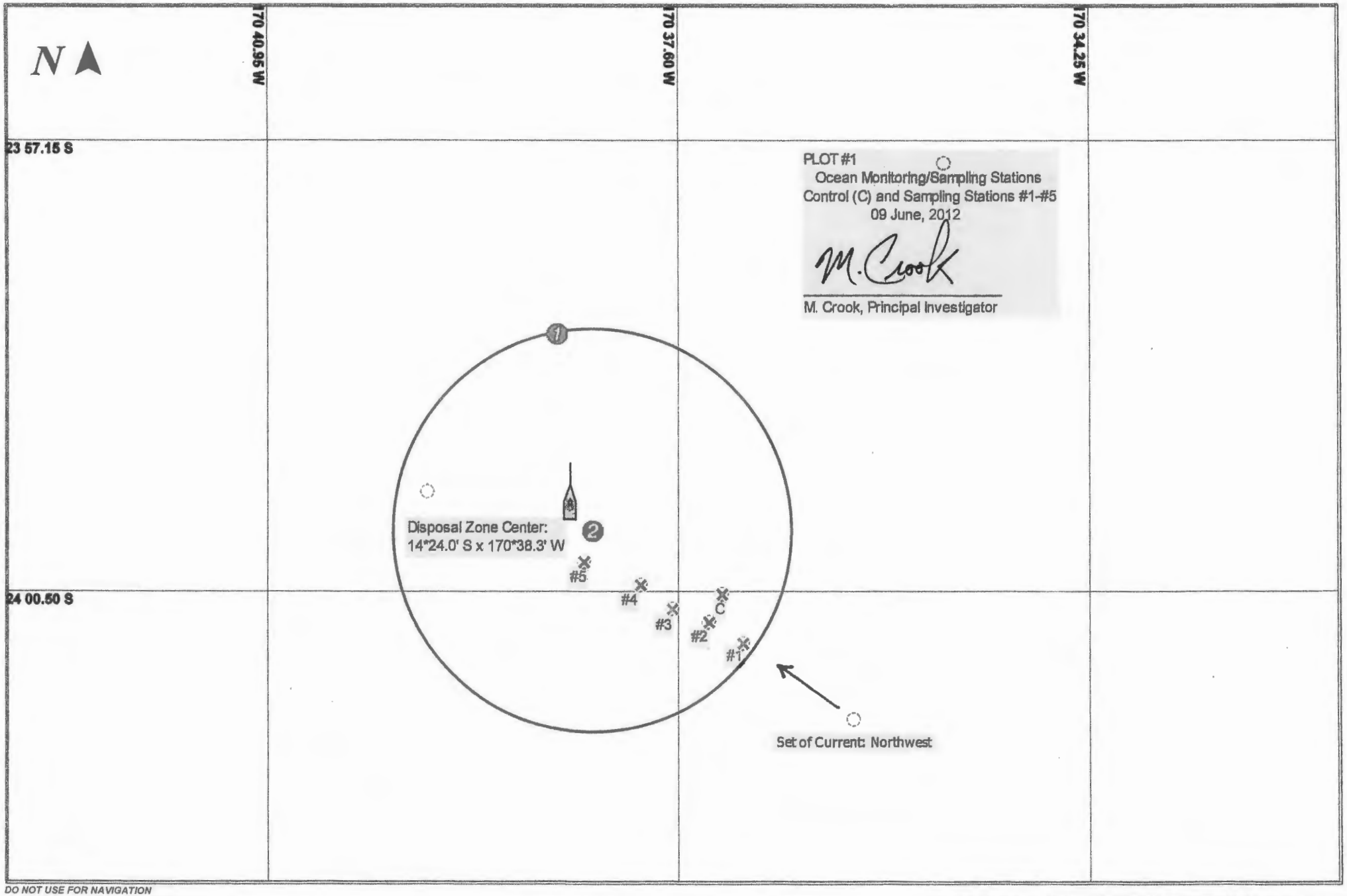

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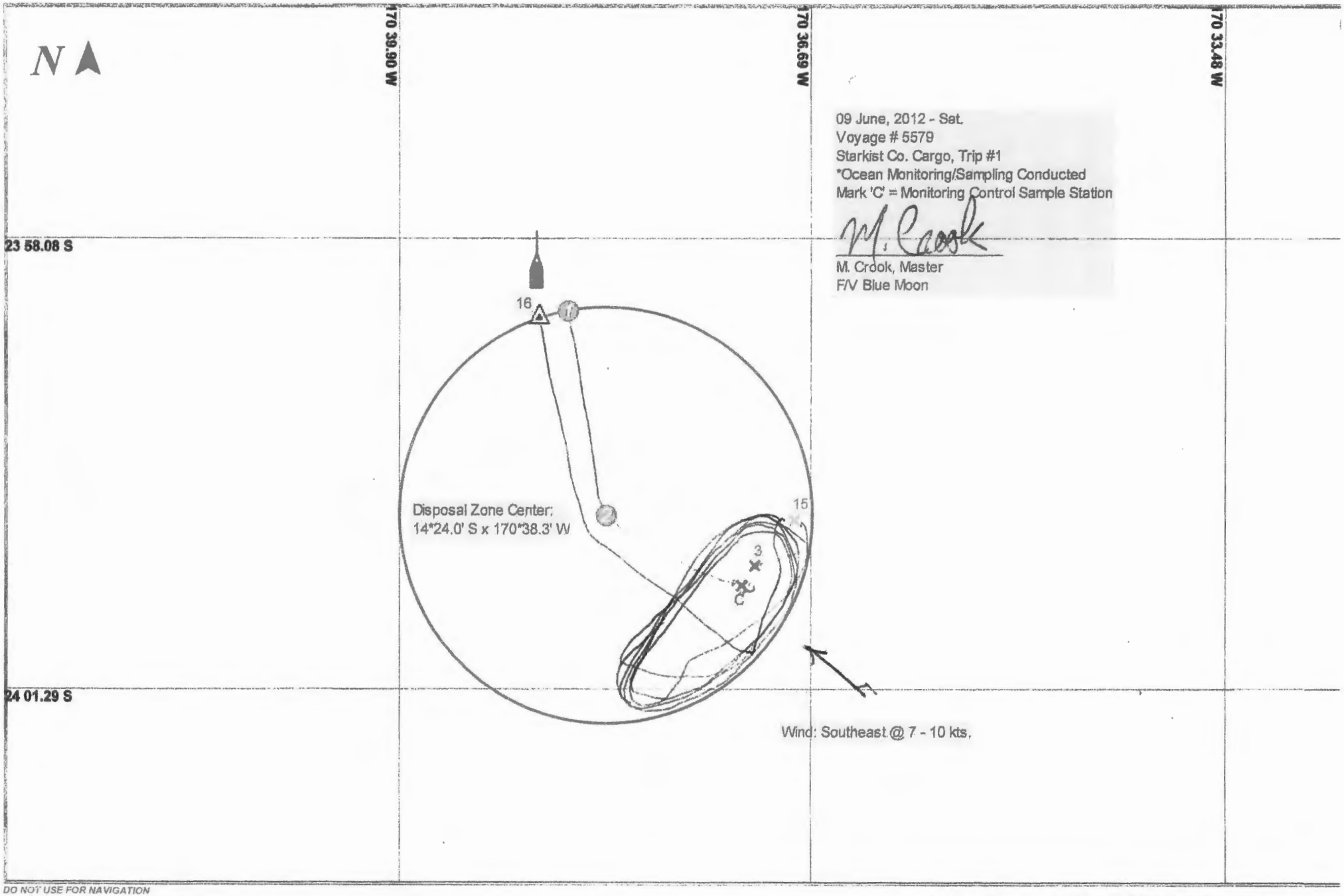

09 June, 2012 - Sat.
Voyage # 5579
Starkist Co. Cargo, Trip #1
*Ocean Monitoring/Sampling Conducted
Mark 'C' = Monitoring Control Sample Station

M. Crook, Master
F/V Blue Moon

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OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON April, 2012

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	10	0	0	**10**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	1,745,500	0	0	**1,745,500**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	1,745,500	**0**

RUNNING TIME ON TRIPS: **53.95 hours**

DISCHARGE TIME ON TRIPS: **30.6 hrs.**

AV. GPM DISCHARGE RATE: **107.1 gal/min/kt**

AV. TRIP TIME: **5.4 hrs.**

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

Starkist	Other
100.00%	**0.00%**

MASTER : M. Crook

M. Crook

Date: 04/02/12 Mon.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5552

Permit # OD 93-01 & OD 93-02

	Time	
4/1	1730	Begin 1st Loading SK
	2130	Finish 1st Loading SK
4/2	0100	Begin 2nd Loading SK
	0500	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	155,000	Gallons
Other	0	Gallons
Total	155,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0540	Depart Starkist		14*16.50' S	170* 41.2' W	East -7	60	29.51			
0629	Arrive Edge of Zone	# 1	14*22. S	170*38. W	" "	"	29.52	East-1.0	9.0	159
0638	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	50	"		9.0	160
0647	Begin Discharge	# 3	14*24.08' S	170*37.21' W	East -10	40	"	X	9.0	090
0702		# 4	14*23.60' S	170*37.66' W		"	"		8.9	178
" 17	Remarks:	# 5	14*24.42' S	170*36.93' W		30	29.53		8.4	006
" 32		# 6	14*23.39' S	170*37.74' W			"		8.7	182
" 47		# 7	14*24.35' S	170*36.91' W			"	5	8.9	009
0802		# 8	14*23.03' S	170*37.64' W			"		8.6	211
" 17		# 9	14*24.80' S	170*37.14' W			"		8.7	034
" 32		# 10	14*24.49' S	170*37.79' W			29.54		9.4	177
" 47		# 11	14*23.63' S	170*37.05' W			"		9.5	339
0902		# 12	14*25.29' S	170*37.76' W		25	"	10	8.9	187
" 17		# 13	14*24.98' S	170*37.30' W		"	29.55		8.5	024
" 32		# 14	14*23.13' S	170*37.29' W		"	"		9.2	278
" 47		# 15	14*2 S	170*3 W						
1002		# 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	#15	14*23.18' S	170*37.76' W	East -10	25%	29.55	East-1.0	9.5	336
0949	Exit Discharge Zone	#16	14*22.56' S	170*37.97' W	" "		29.56	" "	9.6	335
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: 178 mins. Average Speed During Discharge: 8.94 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: 97 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. Pooh

Date: 04/04/12 Weds. F/V Blue Moon Ocean Dumping Log Voyage #: 5553

Permit # OD 93-01 & OD 93-02

	Time	
4/3	1630	Begin 1st Loading SK
	2130	Finish 1st Loading SK
4/4	0100	Begin 2nd Loading SK
	0400	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 Metric	Speed kts	Course True*
0530	Depart Starkist		14*16.50' S	170* 41.2' W	North-3	100%	29.55			
0624	Arrive Edge of Zone	# 1	14*22.57' S	170*38.69' W	North-5	"	29.56	mix to 1.0	8.9	161
0633	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	NNE-5		"		8.9	167
0644	Begin Discharge	# 3	14*22.96 S	170*37.52' W	NNE-7		"	X	8.8	040
" 59		# 4	14*23.78' S	170*37.28' W			29.57		7.7	133
0714	Remarks:	# 5	14*22.64' S	170*38.06' W			"		8.5	274
" 29		# 6	14*23.80' S	170*36.92' W			29.58		8.4	008
" 44		# 7	14*22.97' S	170*38.19' W		90	"	5	8.6	136
" 59		# 8	14*23.74' S	170*36.85' W		"	29.59		8.7	382
0814		# 9	14*23.05' S	170*38.17' W	NNE-10	"	"		9.3	135
" 29		# 10	14*23.43' S	170*37.02' W	" "	"			8.9	328
" 44		# 11	14*23.35' S	170*37.88' W	" "	"			9.3	127
" 59		# 12	14*23.18' S	170*37.23' W	" "	"		10	9.2	321
0914		# 13	14*23.63' S	170*37.62' W		"			9.8	129
" 29		# 14	14*22.68' S	170*37.90' W	NNE-7	"			8.6	275
" 44		# 15	14*23.71' S	170*36.86' W	" "	85	29.60		8.9	011
" 59		# 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	#16	14*22.68' S	170*37.94' W	NNE-5	85 %	29.60	mix to 1.0	9.0	281
0956	Exit Discharge Zone	#17	14*22.49 S	170*38.13' W					9.1	336
1050	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: 191 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: 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

Date: 04/06/12 Fri.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5554

Permit # OD 93-01 & OD 93-02

	Time	
4/5	1600	Begin 1st Loading SK
	2130	Finish 1st Loading SK
	2300	Begin 2nd Loading SK
4/6	0100	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	Speed	Course
								Metric	kts	True*
0845	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	60	29.53			
0939	Arrive Edge of Zone	# 1	14*22. 50' S	170*38. 68' W	South-5	"	29.55	S+SE-1.5	8.5	163
0949	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	SE-7	"	29.56	" "	8.6	161
1009	Begin Discharge	# 3	14*24.47' S	170*37.31' W	SSE-7	50	"	X	7.4	215
24		# 4	14*25.04' S	170*38.95' W	" "	"	"		8.3	145
39	Remarks: Ocean	# 5	14*24.61' S	170*37.30' W		60	"		8.0	272
54	Monitoring	# 6	14*25.04 S	170*39.07 W		"	29.55		8.1	185
1109	Conducted:	# 7	14*24.63' S	170*37.43' W		70	"	5	8.4	274
24	Control Samples	# 8	14*25.22' S	170*38.77' W		"	29.54		8.8	091
39	drawn at: 0957hrs	# 9	14*24.61' S	170*37.34' W	South-5	80-Rain	29.53		8.7	273
54	at Position:	# 10	14*25.22' S	170*38.95' W	SSE-5	70	29.52		8.5	125
1209	14°24.56' S x	# 11	14*24.82' S	170*37.24' W	" "	"	"		9.1	000
24	170°37.32' W.	# 12	14*25.26' S	170*38.71' W	" "	"	"	10	8.9	090
39		# 13	14*24.55' S	170*37.40' W	" "	60	29.51		9.2	265
54		# 14	14*25.21' S	170*38.22' W	SSE-7	"	"		9.6	089
1309		# 15	14*24.48' S	170*37.85' W	" "	50	"		8.6	254
24		# 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						
1324	Finish Discharge	#16	14*25.22' S	170*38.40' W	SSE-7	50%	29.51	S+SE-1.5	8.6	094
1439	Exit Discharge Zone	#17	14*22.55 S	170*38.57' W	" "	"	29.50		6.7	343
1530	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center NW to North End of Discharge North Discharge Pattern Ellipse

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.6 kts. Total Time Run 6.75 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 113.3 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. Crook

Date: 04/10/12 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5555

Permit # OD 93-01 & OD 93-02

	Time	
4/10	0000	Begin 1st Loading SK
	0330	Finish 1st Loading SK
	0900	Begin 2nd Loading SK
	1200	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	142,500	Gallons
Other	0	Gallons
Total	142,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
1230	Depart Starkist		14*16.50' S	170* 41.2' W	SE - 7	50	29.54			
1324	Arrive Edge of Zone	# 1	14*22.53' S	170*38.66' W	SE - 8	60	29.53	SE - 1.0	8.3	162
1334	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	SE - 10	"	29.52	" "	8.2	163
1343	Begin Discharge	# 3	14*24.55 S	170*37.37 W	" "	"	"	" " X	8.5	135
" 58		# 4	14*24.46' S	170*37.85' W			"		8.4	215
1413	Remarks:	# 5	14*24.50' S	170*36.93' W			29.51		9.2	020
" 28		# 6	14*24.78' S	170*38.06' W			"		8.5	218
" 43		# 7	14*24.15' S	170*37.34' W			"	5	8.5	220
" 58		# 8	14*25.07' S	170*37.45' W			29.50		9.3	045
1513		# 9	14*24.16' S	170*37.39' W			"		8.5	214
" 28		# 10	14*24.94' S	170*37.50' W			"	SE - 1.5	9.5	043
" 43		# 11	14*24.62' S	170*37.86' W			"	" "	9.0	210
" 58		# 12	14*23.87' S	170*37.42' W			29.49	" " 10	9.1	235
1613		# 13	14*25.01' S	170*37.59' W			"		9.5	057
" 28		# 14	14*2 S	170*3 W						
" 43		# 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						
1624	Finish Discharge	#14	14*23.88' S	170*36.97' W	SE - 10	60%	29.49	SE - 1.5	9.5	337
1631	Exit Discharge Zone	#15	14*22.75' S	170*37.44' W	" "	"	"	" "	9.9	335
1725	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: 161 mins. Average Speed During Discharge: 8.96 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: 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. Crook

Date: 04/12/12 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5556

Permit # OD 93-01 & OD 93-02

	Time	
4/11	1630	Begin 1st Loading SK
	2030	Finish 1st Loading SK
4/11	2300	Begin 2nd Loading SK
4/12	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	183,000	Gallons
	Other	0	Gallons
	Total	183,000	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	60	29.60			
0615	Arrive Edge of Zone	# 1	14*22. 56' S	170*38.68' W	Calm	50	"	S/SE-1.5	8.4	163
0625	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	"	"	"		8.3	168
0634	Begin Discharge	# 3	14*24.65 S	170*37.38' W	"	60	"	X	8.6	135
49		# 4	14*24.16' S	170*37.57 W	"	"	29.61		8.5	214
0704	Remarks:	# 5	14*24.73' S	170*37.29' W	"	"	29.62		9.2	035
19		# 6	14*24.56' S	170*37.62' W		70	"		8.6	215
34		# 7	14*24.48 S	170*37.06' W		"	"	5	9.4	032
49		# 8	14*24.81' S	170*38.09' W		75	"		8.8	216
0804		# 9	14*24.47' S	170*37.11" W			"		9.3	037
19		# 10	14*24.71' S	170*38.03 W			"		8.8	214
34		# 11	14*24.26' S	170*36.92' W	East-2		"		9.7	029
49		# 12	14*24.95' S	170*38.12' W	SSE-3	70		10	9.2	216
0904		# 13	14*24.64' S	170*37.15' W	ESE-3	"			10.0	036
19		# 14	14*25.37' S	170*38.09' W	" "	60			8.5	090
34		# 15	14*23.92' S	170*36.86' W	East-5	50			9.5	358
49		# 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	#16	14*23.75' S	170*37.25' W	East-5	50 %	29.62	S/SE-1.5	8.3	202
0948	Exit Discharge Zone	#17	14*22.55' S	170*38.16' W	" "	"	"	" "	9.5	330
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: 184 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: 116.5 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

Date: 04/14/12 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5557

Permit # OD 93-01 & OD 93-02

	Time	
4/13	1700	Begin 1st Loading SK
	2130	Finish 1st Loading SK
4/14	0000	Begin 2nd Loading SK
	0300	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*
0525	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	25	29.60			
0620	Arrive Edge of Zone	# 1	14*22.58 S	170*38.69' W	SE-9	"	"	SE/S-1.5	8.4	164
0631	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	SE-5	35	"		8.4	160
0639	Begin Discharge	# 3	14*24.47' S	170*37.31 W	" "	50	29.61	X	8.8	135
" 54		# 4	14*24.60' S	170*37.78 W	" "	60	"		8.4	217
0709	Remarks:	# 5	14*24.43' S	170*37.03' W	SE-7	"	"		9.5	011
" 24		# 6	14*25.28' S	170*38.07' W	" "	"	29.62		8.0	115
" 39		# 7	14*24.03' S	170*37.34' W	" "			5	8.9	220
" 54		# 8	14*24.98' S	170*37.33' W	" "				9.4	046
0809		# 9	14*24.33' S	170*37.69' W	" "				9.0	211
" 24		# 10	14*24.62' S	170*37.03' W					9.6	003
" 39		# 11	14*24.70' S	170*37.95' W					9.1	213
" 54		# 12	14*24.16' S	170*36.56' W				10	9.9	359
0909		# 13	14*25.27' S	170*38.10' W					8.2	040
" 24		# 14	14*24.17' S	170*37.46' W					9.7	250
" 39		# 15	14*24.70' S	170*37.16' W	SE-10				9.7	039
" 54		# 16	14*25.00 S	170*38.11 W					9.5	210
		# 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						
1009	Finish Discharge	#17	14*24.53' S	170*37.01 W	SE -10	60 %	29.62	SE/S- 1.5	9.6	008
1045	Exit Discharge Zone	#18	14*22.59' S	170*37.87 W	" "	"	" "	" "	10.0	337
1140	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: 210 mins. Average Speed During Discharge: 9.15 kts. Total Time Run 6.25 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 97.6 Gallons/min/kt.

Unusual Occurrences? Pump Blackwater tank after cargo discharge

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

3

F/V Blue Moon Ocean Dumping Log

Date: 04/21/12 Sat.

Voyage #: 5558

Permit # OD 93-01 & OD 93-02

	Time	
1/20	1730	Begin 1st Loading SK
	2130	Finish 1st Loading SK
1/21	0200	Begin 2nd Loading SK
	0400	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	165,000	Gallons
Other	0	Gallons
Total	165,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0540	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	70	29.50			
0633	Arrive Edge of Zone	# 1	14*22. S	170*38. W	East-5	90	29.51	S/SE-1.5	9.2	162
0642	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"		8.9	168
0651	Begin Discharge	# 3	14*24.15 S	170*37.21' W	" "	"	"	X	8.7	090
0706		# 4	14*23.68' S	170*37.59' W	" "	"	"		8.9	181
" 21	Remarks:	# 5	14*24.31' S	170*36.85' W	East-7	100	"		8.4	007
" 36		# 6	14*23.43' S	170*37.74' W	" "		29.52		9.0	189
" 51		# 7	14*24.34' S	170*36.89' W			"	5	8.5	007
0806		# 8	14*23.49' S	170*37.59' W			"		9.5	182
" 21		# 9	14*24.26' S	170*36.87' W			29.53		9.3	358
" 36		# 10	14*23.64' S	170*37.66' W			"		9.7	178
51		# 11	14*24.28' S	170*36.94' W	East-10		"		9.4	356
0906		# 12	14*23.51' S	170*37.70' W	" "			10	9.3	183
21		# 13	14*24.48' S	170*36.95' W	East-7		29.54		9.6	011
36		# 14	14*2 S	170*3 W						
51		# 15	14*2 S	170*3 W						
1006		# 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						
0934	Finish Discharge	#14	14*23.07' S	170*37.40' W	East-7	100%	29.54	S/SE-1.5	9.4	291
0936	Exit Discharge Zone	#15	14*22.68' S	170*37.71' W	East-5	"	29.55	" "	9.4	328
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: 163 mins. Average Speed During Discharge: 9.14 kts. Total Time Run 4.8 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

90.

Date: 04/24/12 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5559

Permit # OD 93-01 & OD 93-02

	Time	
23	1800	Begin 1st Loading SK
	2130	Finish 1st Loading SK
24	0100	Begin 2nd Loading SK
	0400	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	Speed	Course
								Metric	kts	True*
0535	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	50	29.58			
0625	Arrive Edge of Zone	#1	14*22.54' S	170*38.69 W	East-7	60	29.59	SE-2.0	8.7	161
0635	Arrive Zone Center	#2	14*24.0 S	170*38.3 W	" "	"	"		8.5	157
0643	Begin Discharge	#3	14*24.02 S	170*37.19 W	" "	"	"	X	8.3	090
" 58		#4	14*23.31' S	170*37.81' W	East-10	75	29.60		8.7	182
0713	Remarks:	#5	14*24.89' S	170*37.36' W	" "	"			8.4	047
" 28		#6	14*23.00' S	170*37.28' W	" "	90			8.9	301
" 43		#7	14*24.90' S	170*37.75' W				5	8.7	153
" 58		#8	14*23.26' S	170*37.11' W			29.61		9.1	323
0813		#9	14*24.35' S	170*37.78' W					9.3	182
" 28		#10	14*23.93' S	170*36.96' W					9.0	023
" 43		#11	14*23.88' S	170*37.78 W					9.4	181
" 58		#12	14*24.56' S	170*37.26' W				10	9.3	021
0913		#13	14*23.18' S	170*37.68' W					8.7	174
" 28		#14	14*25.00' S	170*37.49' W					9.2	019
" 43		#15	14*2 S	170*3 W						
" 58		#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	#15	14*22.95' S	170*37.33' W	East-10	90	29.61	S/SE-2.0	~~317~~ 9.3	317
0945	Exit Discharge Zone	#16	14*22.78' S	170*37.44' W	" "	"	"		9.3	323
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: 180 mins. Average Speed During Discharge: 8.9 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: 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. Crook

Date: 04/26/12 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5560

Permit # OD 93-01 & OD 93-02

	Time	
4/25	1630	Begin 1st Loading SK
	2130	Finish 1st Loading SK
	0000	Begin 2nd Loading SK
4/26	0300	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*
1040	Depart Starkist		14*16.50' S	170* 41.2' W	SE-12	50	29.59			
1134	Arrive Edge of Zone	# 1	14*22.56' S	170*38.67' W	" "	"	"	SE to 2.0	8.4	162
1144	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.2	158
1154	Begin Discharge	# 3	14*24.61 S	170*37.39 W	" "	"	"	" " X	8.4	135
1209		# 4	14*24.75' S	170*37.87' W		"	"		8.8	228
24	Remarks:	# 5	14*24.16' S	170*36.89' W		60	29.58		8.3	353
39		# 6	14*24.98' S	170*37.54' W		"	"		8.6	064
54		# 7	14*24.62' S	170*37.85' W		"	29.57	5	8.9	212
1309		# 8	14*24.75' S	170*37.21' W		"	29.56		8.7	038
24		# 9	14*24.56' S	170*37.80' W	SE-10	75	29.55		9.0	220
39		# 10	14*23.98' S	170*36.93' W	" "		29.54		8.7	278
54		# 11	14*25.18 S	170*38.40' W	" "	"	29.53		9.5	214
1409		# 12	14*24.36' S	170*36.97' W	" "	"	"	10	9.6	007
24		# 13	14*25.22' S	170*37.92' W		"	"		8.6	044
39		# 14	14*23.85' S	170*37.26' W		80	29.52		8.7	226
54		# 15	14*24.50' S	170*37.86' W		"	"		9.4	023
1509		# 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						
1500	Finish Discharge	#16	14*24.04' S	170*37.54' W	SE-10	80%	29.51	SE-2.0	9.5	028
1510	Exit Discharge Zone	#17	14*22.52 S	170*38.10 W	" "	"	"	" "	10.0	330
1550	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: 186 mins. Average Speed During Discharge: 8.9 kts. Total Time Run 5.16 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

88.5

Date: 04/28/12 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5561

Permit # OD 93-01 & OD 93-02

	Time	
4/27	1630	Begin 1st Loading SK
	2130	Finish 1st Loading SK
	2200	Begin 2nd Loading SK
4/28	0100	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	180,000	Gallons
	Other	0	Gallons
	Total	180,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0535	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	90%	29.52			
0632	Arrive Edge of Zone	# 1	14*22.61' S	170*38.70' W	SE-2	"	29.54	SE-1.5	8.4	159
0642	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	29.55	" "	8.4	161
0651	Begin Discharge	# 3	14*24.61 S	170*37.37 W	SE-3	100	29.56	" " X	8.6	135
0706		# 4	14*24.26' S	170*37.75' W	SE-5	"	"		8.4	222
" 21	Remarks:	# 5	14*24.40' S	170*36.96' W	" "	"	"		8.9	349
" 36		# 6	14*24.96' S	170*37.17' W	" "	90	29.57		8.6	176
" 51		# 7	14*24.24' S	170*36.89' W	" "	"	"	5	9.1	004
0806		# 8	14*24.91' S	170*38.14' W	" "	"	"		8.8	193
" 21		# 9	14*24.07' S	170*36.96' W		"	"		9.2	358
" 36		# 10	14*25.00 S	170*38.22 W		80	"		8.9	226
" 51		# 11	14*24.09' S	170*37.05 W	SE-7	"	29.58		8.8	273
0906		# 12	14*25.16' S	170*37.73' W	" "	"		10	9.2	006
" 21		# 13	14*24.14' S	170*37.54' W		90			9.3	227
" 36		# 14	14*25.13' S	170*37.65 W		"			9.2	048
" 51		# 15	14*24.29' S	170*37.74 W		95			9.4	221
1006		# 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						
0959	Finish Discharge	# 16	14*23.94' S	170*37.31' W	SE-7	95%	29.58	SE-1.5	9.4	041
1009	Exit Discharge Zone	# 17	14*22.61' S	170*38.02' W	" "	"	"	" "	9.8	325
1055	Secure SK Dock		14*16.50' S	170*41.2' W						

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

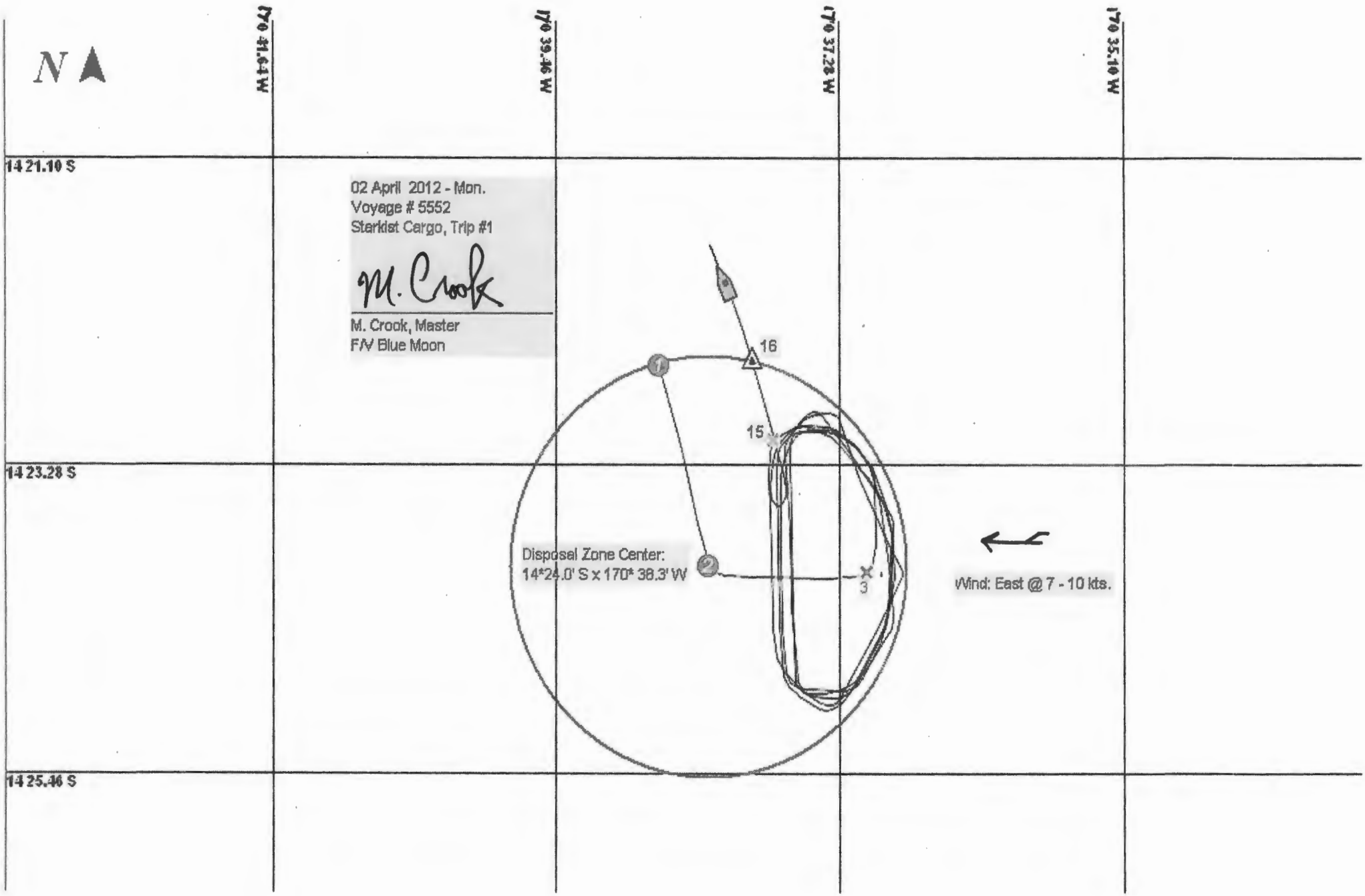
Total Discharge Time: 188 mins. Average Speed During Discharge: 9.0 kts. Total Time Run 5.33 hr.

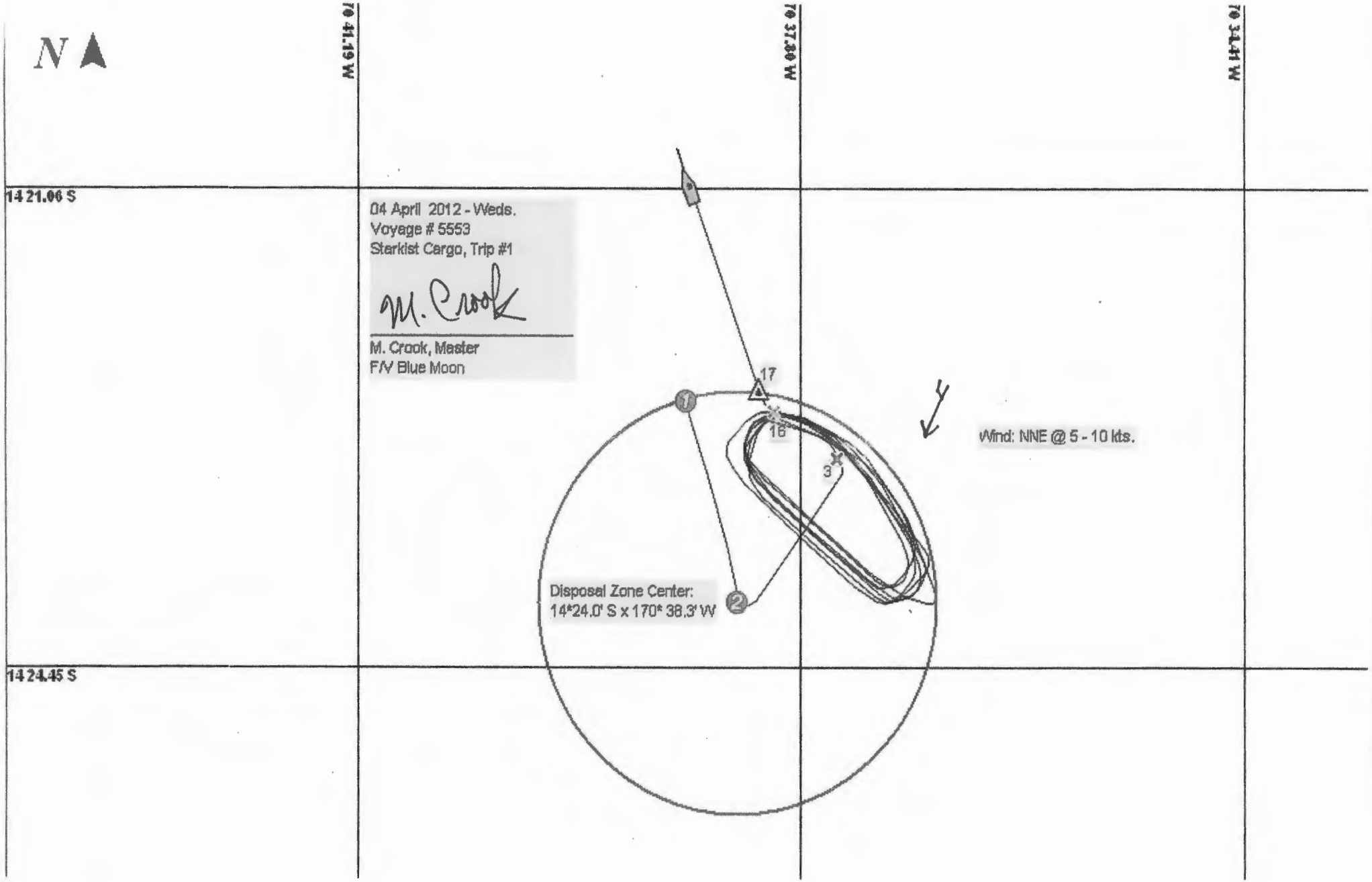
Navigational Plot made: Yes Presence of Plume? No

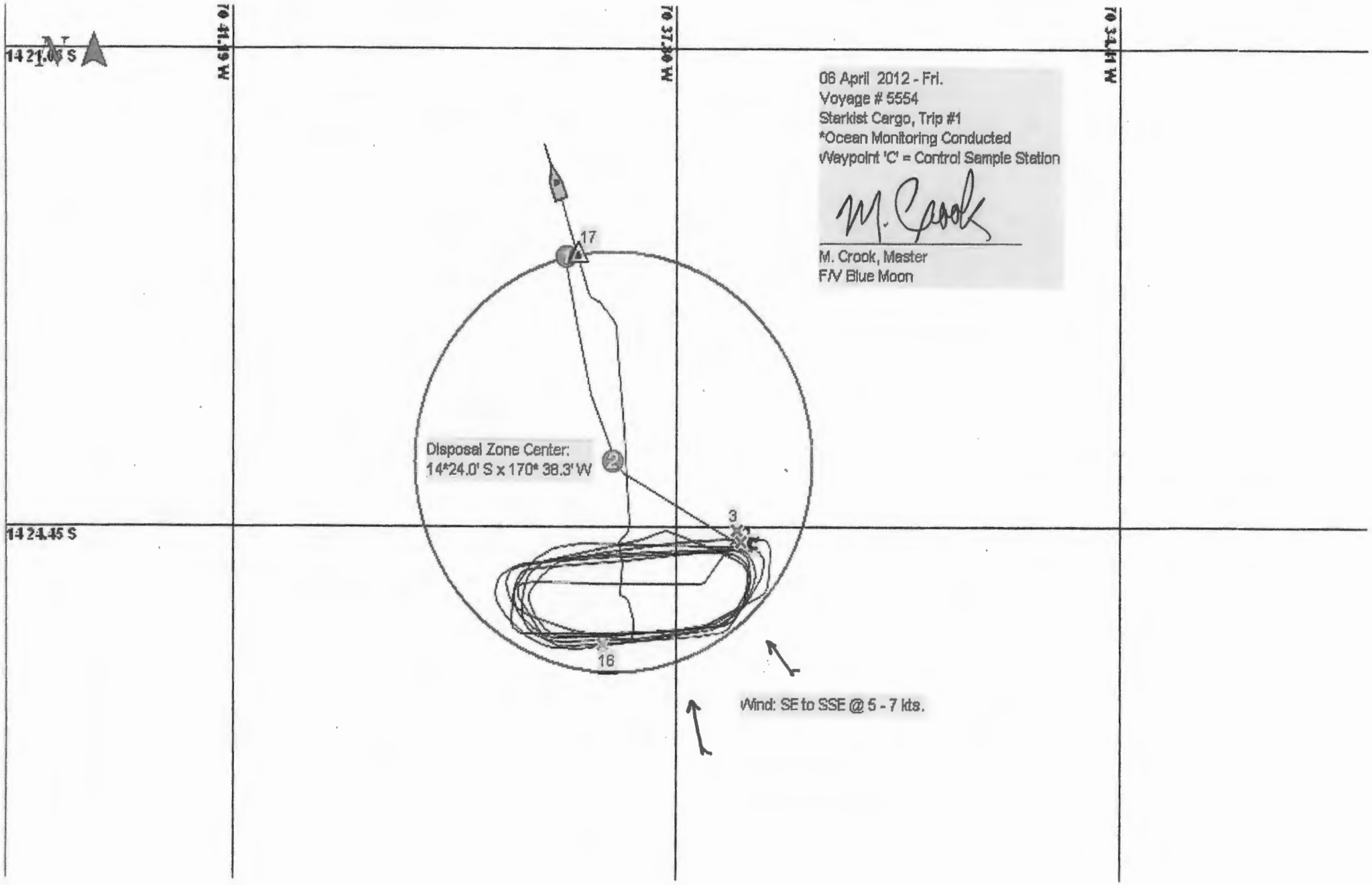
Time and position of any floating material: None Discharge Rate: 106.4 Gallons/min/kt.

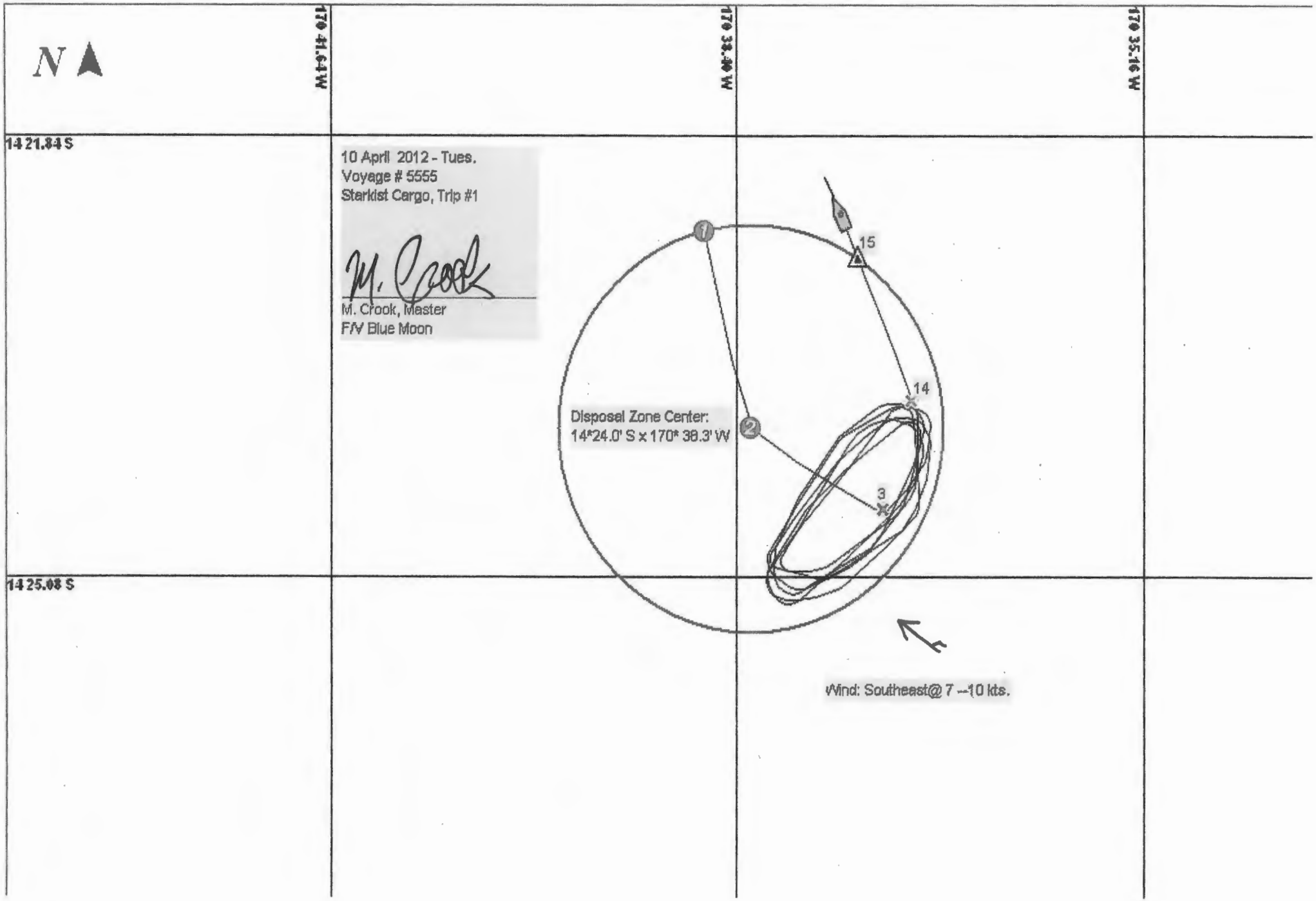
Unusual Occurrences? None

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

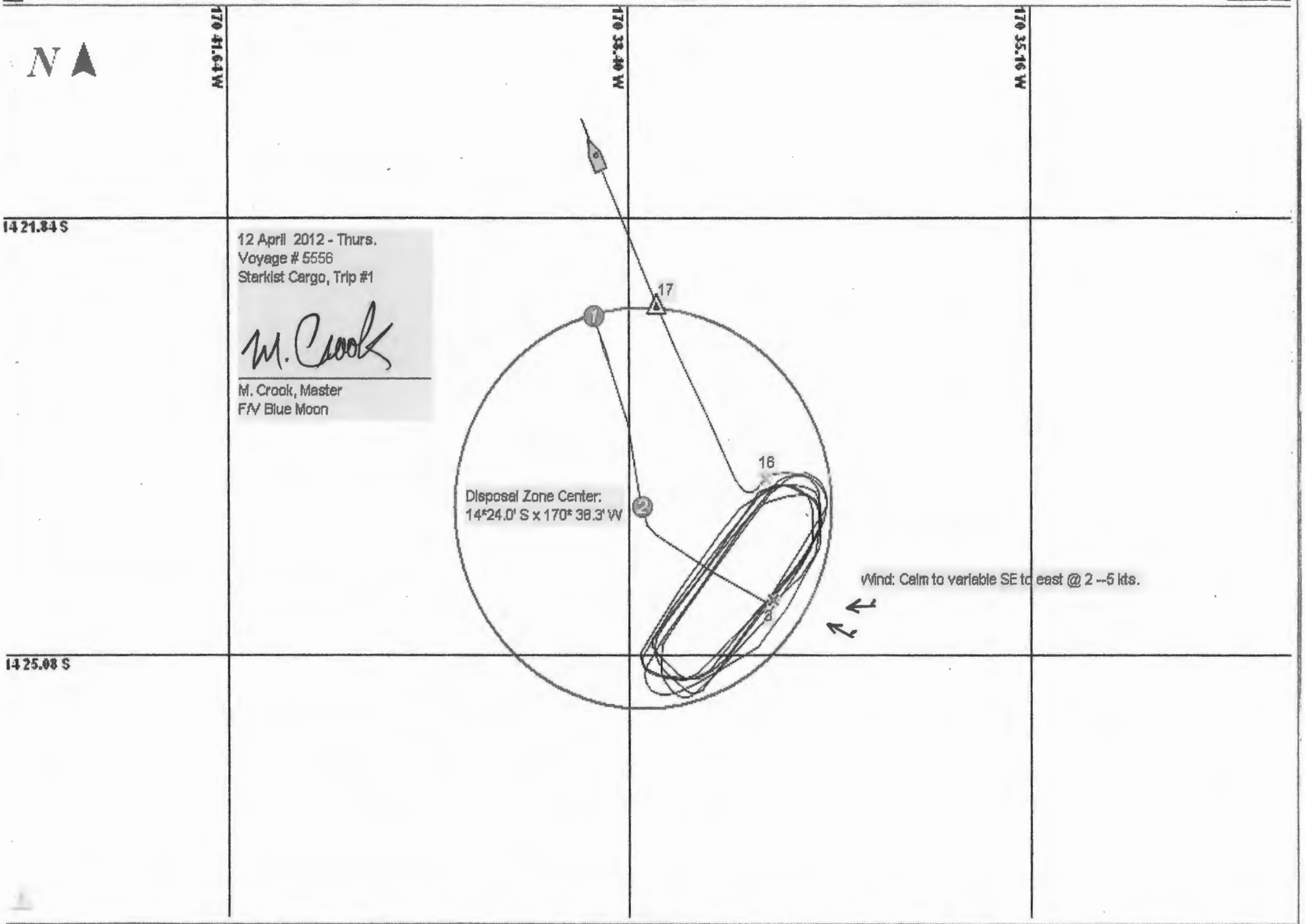

N
170 41.41 W
170 39.46 W
170 37.28 W
170 35.10 W
14 21.10 S
14 23.28 S
14 25.46 S
02 April 2012 - Mon.
Voyage # 5552
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
1
2
3
15
16
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: East @ 7 - 10 kts.

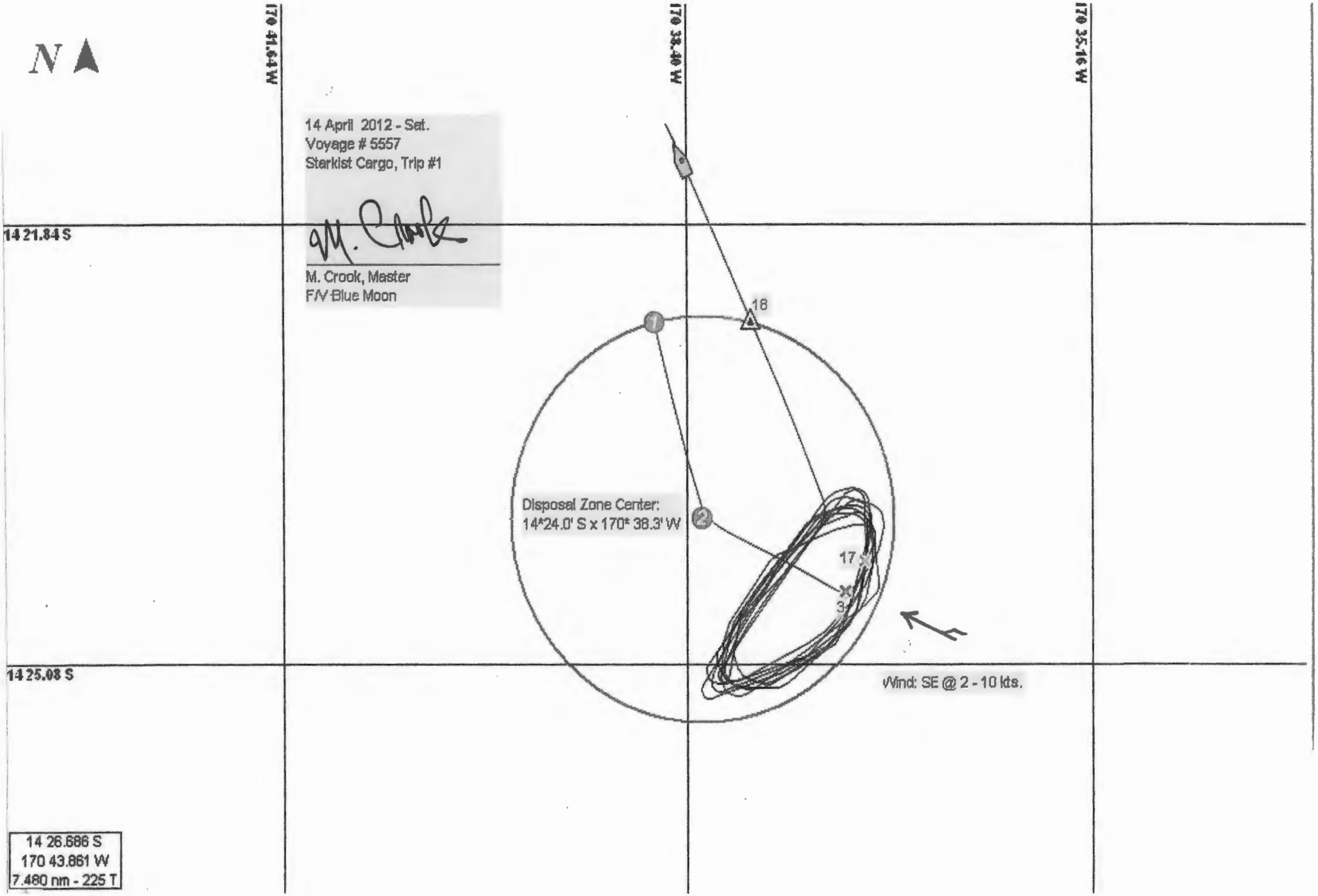

N
70 41.19 W
70 37.30 W
70 34.41 W
14 21.06 S
14 24.45 S
04 April 2012 - Weds.
Voyage # 5553
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
17
16
3
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: NNE @ 5 - 10 kts.


14 21.0 S
70 41.19 W
70 37.30 W
70 33.41 W
14 24.45 S
06 April 2012 - Fri.
Voyage # 5554
Starkist Cargo, Trip #1
*Ocean Monitoring Conducted
Waypoint 'C' = Control Sample Station
M. Crook, Master
F/V Blue Moon
17
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
2
3
16
Wind: SE to SSE @ 5 - 7 kts.


N
170 41.64 W
170 38.40 W
170 35.16 W
14 21.84 S
14 25.08 S
10 April 2012 - Tues.
Voyage # 5555
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
14
15
Wind: Southeast@ 7 --10 kts.

File Edit View Tools Radar Sounder Window Help




N
170 41.64 W
170 38.40 W
170 35.16 W
14 21.84 S
14 25.08 S
14 April 2012 - Sat.
Voyage # 5557
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
17
3
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: SE @ 2 - 10 kts.
14 26.686 S
170 43.861 W
7.480 nm - 225 T

N

170 41.64 W

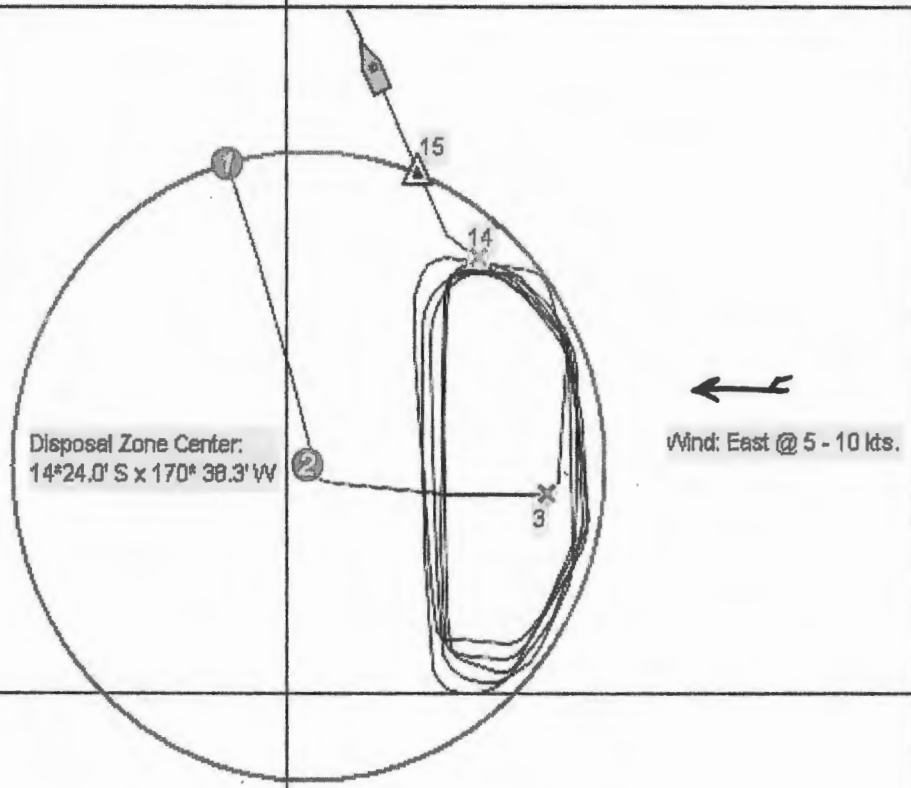
170 38.40 W

170 35.16 W

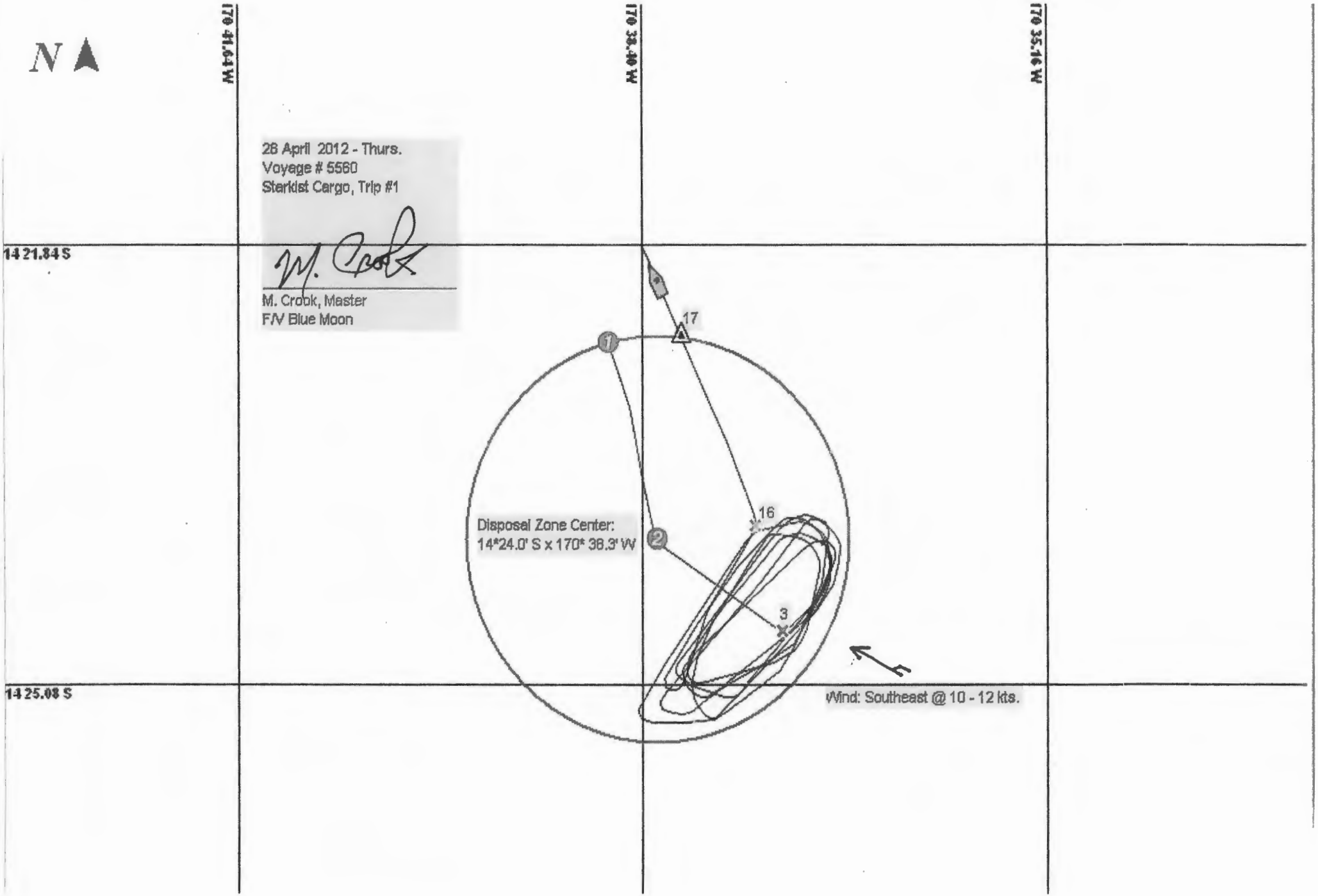
14 21.84 S

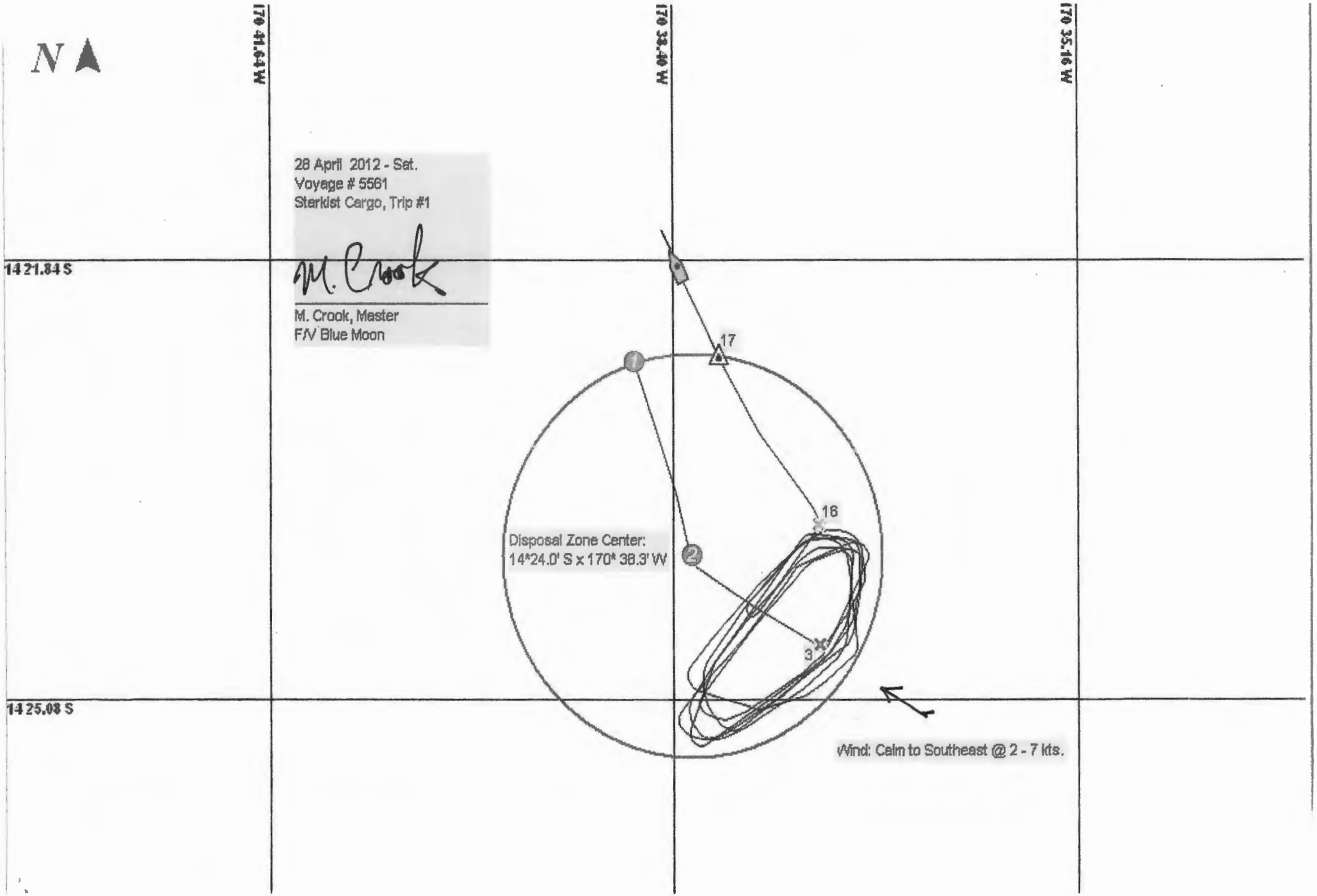
21 April 2012 - Sat.
Voyage # 5558
Starkist Cargo, Trip #1

M. Crook, Master
F/V Blue Moon



14 25.08 S


N
170 41.64 W
170 38.40 W
170 35.16 W
14 21.84 S
14 25.08 S
26 April 2012 - Thurs.
Voyage # 5560
Sterkist 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: Southeast @ 10 - 12 kts.


N
170 41.64 W
170 38.40 W
170 35.16 W
14 21.84 S
14 25.08 S
28 April 2012 - Set.
Voyage # 5561
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 Southeast @ 2 - 7 kts.

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON May, 2012

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	14	0	0	**14**

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	2,589,250	0	0	**2,589,250**

GALLONS FOR SOLO TRIPS:	Starkist	Other
	2,589,250	**0**

RUNNING TIME ON TRIPS: **78.87 hours**

DISCHARGE TIME ON TRIPS: **45.2 hrs.**

AV. GPM DISCHARGE RATE: **108.5 gal/min/kt**

AV. TRIP TIME: **5.63 hrs.**

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

Starkist	Other
100.00%	**0.00%**

MASTER : M. Crook

M. Crook

Date: 05/01/12 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5562

Permit # OD 93-01 & OD 93-02

	Time	
1/30	1800	Begin 1st Loading SK
	0000	Finish 1st Loading SK
	0200	Begin 2nd Loading SK
5/1	0400	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*
0530	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	70	29.52			
0625	Arrive Edge of Zone	# 1	14*22.60' S	170*38.68' W	"	60	"	S/SE-1.5	8.9	166
0635	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W		"	"		8.6	158
0643	Begin Discharge	# 3	14*24.61' S	170*37.32' W		"	"	X	8.5	135
" 58		# 4	14*24.95' S	170*38.21 W		50	29.53		8.7	223
0713	Remarks:	# 5	14*24.43' S	170*36.95' W		"			9.2	008
" 28		# 6	14*25.00' S	170*38.23' W		"			8.6	219
" 43		# 7	14*24.08' S	170*37.28' W		60		5	8.5	292
" 58		# 8	14*25.23' S	170*37.85' W					8.8	052
0813		# 9	14*24.11' S	170*37.26' W					8.6	227
" 28		# 10	14*24.98' S	170*37.68' W					9.5	034
" 43		# 11	14*24.53' S	170*37.74 W					9.3	222
" 58		# 12	14*24.45' S	170*36.99' W		50		10	9.6	011
0913		# 13	14*24.98' S	170*38.23' W		"			9.5	222
" 28		# 14	14*24.07' S	170*36.94' W		"			9.8	000
" 43		# 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						
0943	Finish Discharge	#15	14*24.11' S	170*37.29 W	Calm	50%	29.53	S/SE-1.5	9.7	036
0952	Exit Discharge Zone	#16	14*22.72' S	170*37.70' W	"	"	"	" "	9.8	334
1045	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: 180 mins. Average Speed During Discharge: 9.1 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: 108.4 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

Date: 05/03/12 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5563

Permit # OD 93-01 & OD 93-02

	Time	
5/2	1600	Begin 1st Loading SK
	2130	Finish 1st Loading SK
5/3	0130	Begin 2nd Loading SK
	0330	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*
0528	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	80	29.48			
0619	Arrive Edge of Zone	# 1	14*22.57 S	170*38.68 W	West-2	"	29.49	S/SW-1.5	8.8	162
0630	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	" "		8.7	167
0656	Begin Discharge	# 3	14*24.29 S	170*39.25 W	" "	90	" "	X	8.0	181
0711		# 4	14*23.75' S	170*38.72' W	" "	80	29.50		8.8	000
" 26	Remarks: Ocean	# 5	14*24.21' S	170*39.51' W	" "	90	"		8.6	185
" 41	Monitoring	# 6	14*23.93' S	170*38.69' W	" "	80			9.2	001
" 56	Control Samples	# 7	14*23.82' S	170*39.38' W	" "	"		5	8.8	181
0811	drawn: 0640 hrs	# 8	14*24.81' S	170*38.76' W		70			9.2	003
" 26	Position:	# 9	14*23.24' S	170*37.36' W		"			8.7	235
" 41	14°24.12'S x	# 10	14*25.07' S	170*38.94' W		"			8.2	010
" 56	170° 39.32' W	# 11	14*22.98' S	170*39.03' W		80			9.1	242
0911		# 12	14*24.73' S	170*39.36' W	Calm	"	29.51	10	9.3	179
" 26		# 13	14*23.29' S	170*38.65' W	W-2	90	"		9.9	001
" 41		# 14	14*24.52' S	170*39.37' W	" "	"			9.5	181
" 56		# 15	14*23.29 S	170*38.71 W	" "	80			9.7	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						
1005	Finish Discharge	#16	14*23.38' S	170*39.22 W	W-2	80%	29.51	S/SW-1.5	9.2	234
1116	Exit Discharge Zone	#17	14*22.57' S	170*38.73 W	" "	"	"	" "	9.1	347
1205	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: 189 mins. Average Speed During Discharge: 9.0 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: 104.4 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. Crowe

05-57

Date: 05/05/12 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5564

Permit # OD 93-01 & OD 93-02

Time		
	Begin 1st Loading SK	
	Finish 1st Loading SK	
	Begin 2nd Loading SK	
	Finish 2nd Loading SK	

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	190,500	Gallons
	Other	0	Gallons
	Total	190,500	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0525	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	60	29.51			
0616	Arrive Edge of Zone	# 1	14*22.57' S	170*38.69' W	SW-5	30	29.52	S/SW-2.0	8.8	160
0626	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	25	"	" "	9.0	158
0635	Begin Discharge	# 3	14*24.81' S	170*38.99 W	" "	"	"	" " X	8.9	225
" 50		# 4	14*24.16' S	170*39.20' W	" "	"	"	" "	8.7	305
0705	Remarks:	# 5	14*25.43' S	170*38.45' W	" "	30	29.53	" "	7.8	091
" 20		# 6	14*24.22' S	170*39.46' W	" "	35	"	" "	8.3	228
" 35		# 7	14*25.13' S	170*38.35' W				5	8.4	330
" 50		# 8	14*24.74' S	170*39.33' W					8.4	180
0805		# 9	14*24.30' S	170*38.91' W					8.4	318
" 20		# 10	14*25.23' S	170*38.63' W		30			9.1	127
" 35		# 11	14*24.17 S	170*39.08' W	SW-7				8.9	281
" 50		# 12	14*25.18' S	170*38.11' W	" "			10	8.7	323
0905		# 13	14*24.84' S	170*39.42' W	" "		29.54		9.0	136
" 20		# 14	14*24.71' S	170*38.39' W	" "		"		9.4	302
" 35		# 15	14*25.20' S	170*38.64' W	SW-5		"		8.4	125
" 50		# 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	# 16	14*24.22' S	170*38.86' W	SW-5	30%	29.54	S+SW-2.0	9.6	301
1001	Exit Discharge Zone	# 17	14*22.93' S	170*39.17' W	" "	"	29.55	" "	9.7	353
1050	Secure SK Dock		14*16.50' S	170*41.2' W						

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

Total Discharge Time: 195 mins. Average Speed During Discharge: 8.75 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: 111.6 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. Crooke

F/V Blue Moon Ocean Dumping Log

Date: 05/08/12 Tues. Voyage #: 5565

Permit # OD 93-01 & OD 93-02

	Time	
5/7	1730	Begin 1st Loading SK
	2200	Finish 1st Loading SK
		Begin 2nd Loading SK
5/8	0400	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*
0545	Depart Starkist		14*16.50' S	170* 41.2' W	SE-20	100	29.65			
0640	Arrive Edge of Zone	# 1	14*22.58' S	170*38.67' W	East-15	100-Rain	29.66	SE-2.0	8.6	162
0649	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	NE-15	" "			8.8	170
0658	Begin Discharge	# 3	14*23.71' S	170*37.24' W	" "	" "	29.67	X	8.3	045
0713		# 4	14*23.56' S	170*37.70' W	" "	" "	29.68		8.6	137
" 28	Remarks:	# 5	14*23.44' S	170*36.93' W	" "	100	"		8.1	309
" 43		# 6	14*23.61' S	170*37.68' W	" "	"	29.69		8.6	141
" 58		# 7	14*23.15' S	170*37.12' W				5	8.3	334
0813		# 8	14*23.48' S	170*37.74' W					8.7	140
" 28		# 9	14*23.31' S	170*37.14' W					8.7	305
" 43		# 10	14*23.59' S	170*37.73' W					9.2	131
" 58		# 11	14*23.18' S	170*37.54' W					8.8	314
0913		# 12	14*23.74' S	170*37.49' W				10	9.0	140
" 28		# 13	14*22.92' S	170*37.58' W					9.0	305
" 43		# 14	14*2 S	170*3 W						
" 58		# 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						
0943	Finish Discharge	#14	14*23.62' S	170*37.57' W	NE-15	100%	29.69	SE-2.0	8.5	336
0952	Exit Discharge Zone	#15	14*22.60' S	170*38.00' W	" "	"	"	" "	9.1	324
1155	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: 165 mins. Average Speed During Discharge: 8.65 kts. Total Time Run 6.2 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 94 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: 05/10/12 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5566

Permit # OD 93-01 & OD 93-02

	Time	
5/9	1600	Begin 1st Loading SK
	2130	Finish 1st Loading SK
	2200	Begin 2nd Loading SK
5/10	0300	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
	SK	195,000	Gallons
	Other	0	Gallons
	Total	195,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
0950	Depart Starkist		14*16.50' S	170* 41.2' W	East-7	70	29.57	Metric	kts	True*
1045	Arrive Edge of Zone	# 1	14*22.54 S	170*38.67' W	East-10	60	"	S/SE-2.5	8.1	160
1054	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "				8.3	167
1105	Begin Discharge	# 3	14*24.05' S	170*37.08' W	" "			X	8.0	090
"20		# 4	14*23.42' S	170*37.69' W	" "				8.4	183
"35	Remarks:	# 5	14*24.63' S	170*37.18' W	" "		29.58		8.1	037
"50		# 6	14*23.21' S	170*37.65' W					8.6	184
1205		# 7	14*24.88' S	170*37.43' W			29.57	5	8.4	062
"20		# 8	14*23.19' S	170*37.35' W			29.55	S/SE-2.0	8.9	271
"35		# 9	14*24.81' S	170*37.73 W			"	" "	8.8	154
"50		# 10	14*23.29' S	170*37.11 W		50	29.54	" "	9.0	336
1305		# 11	14*24.66' S	170*37.80' W		"	29.53	" "	9.3	183
"20		# 12	14*23.74' S	170*36.96' W	East-7	"	29.52	" " 10	9.2	358
"36		# 13	14*24.26' S	170*37.77' W			"		9.2	183
"50		# 14	14*24.02' S	170*36.96' W			29.51		9.3	356
1405		# 15	14*23.90' S	170*37.82' W			29.50		9.2	181
"20		# 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						
1418	Finish Discharge	#16	14*23.26' S	170*37.73' W	East-7	50%	29.50	S/SE-2.0	9.4	357
1422	Exit Discharge Zone	#17	14*22.65' S	170*37.86 W	" "	"	29.49	" "	9.5	345
1515	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: 8.84 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: 114.3 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

Date: 05/12/12 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5567

Permit # OD 93-01 & OD 93-02

	Time	
5/11	1430	Begin 1st Loading SK
	2400	Finish 1st Loading SK
		Begin 2nd Loading SK
		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*
0535	Depart Starkist		14*16.50' S	170* 41.2' W	East - 10	25	29.54			
0628	Arrive Edge of Zone	# 1	14*22.57 S	170*38.72 W	East - 15	"	29.56	E/SE - 2.0	8.2	163
0639	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	SE - 15	"	"		8.5	160
0647	Begin Discharge	# 3	14*24.66' S	170*37.43 W	" "	30	"	X	8.3	135
0702		# 4	14*24.69' S	170*37.84' W		"	"		8.7	223
17	Remarks:	# 5	14*25.01' S	170*37.30' W		"	29.57		8.1	042
32		# 6	14*24.70' S	170*38.01' W			"		9.0	221
47		# 7	14*24.51' S	170*36.98' W				5	8.6	003
0802		# 8	14*25.05' S	170*38.16 W					8.2	114
17		# 9	14*24.33' S	170*36.92 W	SE - 18				8.5	012
32		# 10	14*25.08' S	170*38.19' W	" "				8.3	140
47		# 11	14*24.01' S	170*37.27' W	" "				9.4	238
0902		# 12	14*25.34' S	170*38.41' W	" "			10	8.3	066
17		# 13	14*24.08' S	170*36.92' W	" "		29.56		8.9	004
32		# 14	14*28.26' S	170*38.02' W	" "		"		8.4	068
47		# 15	14*24.07' S	170*37.42' W	" "		"		9.3	220
1002		# 16	14*25.04' S	170*37.85' W	" "		"		8.6	057
		# 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	#17	14*24.02' S	170*37.07' W	SE - 18	30%	29.56	E/SE - 2.0	9.4	334
1021	Exit Discharge Zone	#18	14*22.70' S	170*37.71' W	" "	"	"	" "	9.6	329
1115	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: 205 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: 105 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

Date: 05/15/12 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5568

Permit # OD 93-01 & OD 93-02

	Time	
5/14	1830	Begin 1st Loading SK
5/15	0400	Finish 1st Loading SK
		Begin 2nd Loading SK
		Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	165,000	Gallons
Other	0	Gallons
Total	165,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0530	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100	29.50			
0609	Arrive Edge of Zone	# 1	14*22.59 S	170*38.64' W	East-5	90	29.51	E/SE-2.0	8.4	162
0619	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W		"	"		8.1	160
0628	Begin Discharge	# 3	14*24.09 S	170*37.21 W	East-7	"	"	X	8.0	090
43		# 4	14*23.32' S	170*37.78' W	" "	"	"		8.5	181
58	Remarks:	# 5	14*24.65' S	170*37.08' W	" "	80	"		8.6	009
0713		# 6	14*23.10 S	170*37.52' W	" "	"	"		8.2	220
28		# 7	14*24.94' S	170*37.40' W	" "	"		5	8.3	027
43		# 8	14*23.30' S	170*37.78' W	" "	75	29.52		8.3	186
58		# 9	14*24.95' S	170*37.77 W	" "		"		8.1	138
0813		# 10	14*23.40 S	170*37.02' W	" "		"		9.0	321
28		# 11	14*24.30 S	170*37.91' W	" "		"		9.1	191
43		# 12	14*24.29' S	170*37.04' W	" "		29.53	10	9.5	010
58		# 13	14*24.07' S	170*37.79' W	" "		"		9.1	173
0913		# 14	14*24.38' S	170*37.27' W					9.2	032
28		# 15	14*2 S	170*3 W						
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						
0925	Finish Discharge	15	14*23.08' S	170*37.26 W	East-7	75%	29.53	E/SE-2.0	9.3	329
0927	Exit Discharge Zone	16	14*22.84' S	170*37.38' W	" "	"	"	" "	9.3	329
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: 177 mins. Average Speed During Discharge: 8.7 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: 107 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

Date: 05/17/12 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5569

Permit # OD 93-01 & OD 93-02

	Time	
5/16	1600	Begin 1st Loading SK
	2130	Finish 1st Loading SK
5/17	0000	Begin 2nd Loading SK
	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*
0525	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	90	29.54			
0618	Arrive Edge of Zone	# 1	14*22.54' S	170*38.66' W	SE-5	"	29.56	S/SE-1.5	8.1	162
0629	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	SE-7		"	" "	8.5	162
0637	Begin Discharge	# 3	14*24.66' S	170*37.93 W	" "		29.57	" " X	8.3	130
" 52		# 4	14*24.54' S	170*37.78' W	" "	100	29.58		8.6	220
0707	Remarks:	# 5	14*24.79' S	170*37.19' W	S-7	"	"		8.9	032
" 22		# 6	14*24.52' S	170*37.90' W	" "	"	"		8.5	223
" 37		# 7	14*24.37' S	170*37.01' W	S/SE-7	"	29.59	5	9.1	011
" 52		# 8	14*24.61' S	170*38.00' W					8.5	224
0807		# 9	14*24.45' S	170*37.03' W					9.0	015
" 22		# 10	14*24.56' S	170*37.97' W					8.7	213
" 37		# 11	14*23.91' S	170*37.09' W					8.8	261
" 52		# 12	14*24.46' S	170*37.25' W				10	9.7	042
0907		# 13	14*24.27' S	170*37.63' W					9.0	217
" 22		# 14	14*24.96' S	170*37.48' W					9.4	038
" 37		# 15	14*24.44' S	170*37.74' W					8.9	219
" 52		# 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						
0954	Finish Discharge	#16	14*23.91' S	170*36.98 W	S/SE-7	100%	29.59	S/SE-1.5	9.6	332
1001	Exit Discharge Zone	#17	14*22.76' S	170*37.47 W	" "	"	"	" "	9.7	331
1055	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center NW End of Discharge NNW Discharge Pattern Ellipse

Total Discharge Time: 197 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: 112.6 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

F/V Blue Moon Ocean Dumping Log

Date: 05/19/12 Sat.

Voyage #: 5570

Permit # OD 93-01 & OD 93-02

	Time	
5/18	1600	Begin 1st Loading SK
	2130	Finish 1st Loading SK
	0200	Begin 2nd Loading SK
5/19	0500	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*
0610	Depart Starkist		14*16.50' S	170*41.2' W	Calm	90	29.52			
0702	Arrive Edge of Zone	# 1	14*22.58' S	170*38.67' W	ESE-7	75	29.54	S/SE/SW-2	8.3	164
0714	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	SE-7	70	"	" "	8.1	172
0722	Begin Discharge	# 3	14*24.57'S	170*37.40'W	SE-10	60	"	" " X	8.5	135
37		# 4	14*24.43'S	170*37.66'W	" "		"		8.3	220
52	Remarks:	# 5	14*24.67'S	170*37.04'W	" "		29.55		9.0	024
0807		# 6	14*24.40' S	170*37.77'W	"				8.5	221
" 22		# 7	14*24.68' S	170*37.16' W				5	9.3	033
" 37		# 8	14*24.69' S	170*38.03'W					8.6	211
" 52		# 9	14*24.24' S	170*36.92'W					9.6	009
0907		# 10	14*25.02' S	170*38.17' W					9.0	177
" 22		# 11	14*23.89' S	170*37.05'W					8.6	254
" 37		# 12	14*26.17' S	170*38.03' W				10	8.9	096
" 52		# 13	14*24.15' S	170*37.89'W					8.9	228
1007		# 14	14*26.26 S	170*38.14'W		70			9.0	062
" 22		# 15	14*23.95'S	170*37.41'W		"	29.54		9.1	226
" 37		# 16	14*25.06'S	170*38.18 W	SE-7	"	"		9.4	033
		# 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						
1046	Finish Discharge	#17	14*23.91' S	170*37.33' W	SE-7	70 %	29.54	S/SE/SW-2	9.8	013
1055	Exit Discharge Zone	#18	14*22.63' S	170*37.77' W	" "	"	"		9.7	332
1150	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: 204 mins. Average Speed During Discharge: 8.96 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: 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. Crook

Date: 05/22/12 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5571

Permit # OD 93-01 & OD 93-02

	Time	
5/21	1430	Begin 1st Loading SK
	2130	Finish 1st Loading SK
5/22	0100	Begin 2nd Loading SK
	0200	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	Speed	Course
								Metric	kts	True*
0530	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100	29.53			
0626	Arrive Edge of Zone	# 1	14*22.57' S	170*38.57 W	"	90	29.54	5/SW-2	8.4	166
0635	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	W-2	"	"	" "	8.3	180
0644	Begin Discharge	# 3	14*24.16 S	170*39.36 W	W-3	"	"	" " X	8.5	270
" 59		# 4	14*24.87 S	170*38.69' W	" "				8.3	359
0714	Remarks:	# 5	14*23.53' S	170*39.56' W	" "				8.7	201
" 29		# 6	14*24.80' S	170*38.84' W					8.6	002
" 44		# 7	14*23.24' S	170*39.80 W				5	8.2	226
" 59		# 8	14*23.19 S	170*38.92 W					9.1	137
0814		# 9	14*24.66' S	170*39.46 W					8.5	271
" 29		# 10	14*24.77' S	170*39.49' W			29.55		8.2	142
" 44		# 11	14*23.62' S	170*38.87 W	W-2		"		8.6	121
" 59		# 12	14*24.40' S	170*39.52' W	W-3		29.56	10	9.1	184
0914		# 13	14*24.00' S	170*38.82 W	W-5		29.57		9.5	002
" 29		# 14	14*24.81' S	170*39.40' W	W-7	95	29.58		9.4	141
" 44		# 15	14*23.90' S	170*38.70' W	" "		"		9.5	003
" 59		# 16	14*23.81' S	170*39.48 W					9.2	217
		# 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						
1004	Finish Discharge	#17	14*23.34 S	170*39.60' W	W-7	95 %	29.58	5/SW-2	9.7	006
1005	Exit Discharge Zone	#18	14*23.20' S	170*39.56' W	" "	"	"	" "	9.6	354
1100	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: 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: 107 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

Date: 05/24/12 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5572

Permit # OD 93-01 & OD 93-02

	Time	
5/23	1430	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	190,000	Gallons
Other	0	Gallons
Total	190,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0535	Depart Starkist		14*16.50' S	170* 41.2' W	SE-20	100	29.52			
0639	Arrive Edge of Zone	# 1	14*22.56' S	170*38.64' W	SE-22	"	"	SE-3.5	7.0	165
0650	Arrive Zone Center	# 2	14*24.0 , S	170*38.3 W	" "				7.2	166
0701	Begin Discharge	# 3	14*24.42 S	170*37.27 W	" "		29.53	X	6.9	115
" 16		# 4	14*25.11' S	170*38.07' W					7.0	122
" 31	Remarks:	# 5	14*24.19' S	170*37.94 W			29.54		6.9	098
" 46		# 6	14*24.65' S	170*37.67' W					8.6	260
0801		# 7	14*24.63' S	170*37.75' W				5	8.9	312
" 16		# 8	14*24.41 S	170*37.26' W					7.4	106
" 31		# 9	14*25.00' S	170*38.12' W					7.8	101
" 46		# 10	14*24.07 S	170*38.35 W	SE-25				8.9	307
0901		# 11	14*24.66' S	170*37.49' W	" "		29.53		9.4	253
" 16		# 12	14*25.13' S	170*37.68' W				10	8.8	022
" 31		# 13	14*24.31' S	170*37.63' W					6.8	111
" 46		# 14	14*24.72' S	170*38.23' W		95			9.3	260
1001		# 15	14*25.00 S	170*37.63' W		"			9.5	316
" 16		# 16	14*24.30 S	170*37.53' W					7.6	187
		# 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						
1021	Finish Discharge	17	14*24.06' S	170*37.96 W	SE-25	95%	29.53	SE-3.5	9.6	305
1031	Exit Discharge Zone	18	14*22.57' S	170*38.47 W					9.6	332
1125	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Figure 8

Total Discharge Time: 200 mins. Average Speed During Discharge: 8.2 kts. Total Time Run 5.8 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. Crooke

F/V Blue Moon Ocean Dumping Log

Date: 05/26/12 Sat.

Voyage #: 5573

Permit # OD 93-01 & OD 93-02

	Time	
5/26	1430	Begin 1st Loading SK
	2030	Finish 1st Loading SK
5/26	0400	Begin 2nd Loading SK
	0500	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:			
SK	195,000	Gallons
Other	0	Gallons
Total	195,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0900	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	50	29.46			
0958	Arrive Edge of Zone	# 1	14*22.52' S	170*38.70' W	SE-7	60	29.44	S/SE-4+	7.8	161
1010	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	29.43	" "	7.6	165
1020	Begin Discharge	# 3	14*24.60 S	170*37.37 W	" "	"	"	" " X	7.9	135
" 35		# 4	14*24.66' S	170*37.85' W		"	29.42		8.2	226
" 50	Remarks:	# 5	14*24.51' S	170*37.15' W		"	"		8.6	032
1105		# 6	14*24.73' S	170*38.08' W		70	29.41		8.2	225
" 20		# 7	14*24.21' S	170*36.93' W				5	8.0	011
" 35		# 8	14*24.86' S	170*38.21' W	SE-10				8.5	232
" 50		# 9	14*24.21' S	170*36.95' W	" "		29.40		9.1	008
1205		# 10	14*25.08' S	170*38.26' W	" "	60	"		8.7	216
20		# 11	14*23.94' S	170*37.05' W	SSE-10	"	29.39		8.4	273
35		# 12	14*25.26' S	170*38.02 W	" "	"		10	8.6	064
50		# 13	14*23.98' S	170*37.19 W	" "	70			8.7	236
1305		# 14	14*25.01' S	170*37.75' W	" "	"			9.4	041
20		# 15	14*24.09' S	170*37.49' W	" "	80			8.8	220
35		# 16	14*25.11' S	170*37.66' W	S-10	"			9.2	043
		# 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						
1345	Finish Discharge	#17	14*23.99' S	170*37.10' W	S-10	80%	29.39	S/SE-4+	9.6	334
1354	Exit Discharge Zone	#18	14*22.68' S	170*37.58' W	" "	"	"	" "	9.3	331
1460	Secure SK Dock		14*16.50' S	170*41.2' W						

Current Direction: At Center NW End of Discharge NW Discharge Pattern Eclipse

Total Discharge Time: 205 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 5.8 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 109.3 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

121 3

Date: 05/29/12 Tues. F/V Blue Moon Ocean Dumping Log Voyage #: 5574

Permit # OD 93-01 & OD 93-02

	Time	
5/27	1915	Begin 1st Loading SK
	2115	Finish 1st Loading SK
5/28	0900	Begin 2nd Loading SK
	2100	Finish 2nd Loading SK

Trip # 1 - X
Trip # 2

Volume Loaded:			
	SK	195,000	Gallons
	Other	0	Gallons
	Total	195,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0530	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	25	29.52			
0630	Arrive Edge of Zone	# 1	14*22. 55' S	170*38. 62 W	SW-3	35	29.53	S-2.5	8.5	162
0640	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	W-7	40	"	SW/S-2.5	8.6	167
0649	Begin Discharge	# 3	14*24.21 S	170*39.36 W	W-5	"	"	X	8.1	270
0704		# 4	14*24.58' S	170*38.64' W	" "		"		8.1	348
" 19	Remarks:	# 5	14*23.57' S	170*39.48' W	" "		29.54		8.8	185
" 34		# 6	14*24.83' S	170*38.63' W	" "				8.3	356
" 49		# 7	14*23.17' S	170*39.18' W				5	7.9	275
0804		# 8	14*24.83 S	170*39.36' W		30			8.5	150
" 19		# 9	14*23.59' S	170*38.76' W		"			8.9	343
" 34		# 10	14*24.54' S	170*39.30' W		40			8.9	182
49		# 11	14*24.30' S	170*38.65' W					9.3	003
0904		# 12	14*23.46' S	170*39.22' W				10	9.1	183
" 19		# 13	14*24.83' S	170*38.71 W	West-7		29.53		9.2	002
" 34		# 14	14*23.40' S	170*39.22 W	West-5			S/SW-2.0	9.0	200
" 49		# 15	14*25.05' S	170*38.84 W	W-3				8.9	019
1004		# 16	14*23.02' S	170*38.97 W	W-2				8.7	276
		# 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	#17	14*23.03' S	170*39.04 W	West-2	40%	29.53	S/SW-2.0	9.2	356
1011	Exit Discharge Zone	#18	14*2 S	170*3 W	" "	"	" "	"	9.3	355
1105	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: 201 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: 111.5 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

Date: 05/31/12 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5575

Permit # OD 93-01 & OD 93-02

	Time	
5/30	1600	Begin 1st Loading SK
	2100	Finish 1st Loading SK
5/31	0400	Begin 2nd Loading SK
	0530	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*
0525	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	75	29.51			
0623	Arrive Edge of Zone	# 1	14*22.58' S	170*38.69' W	West-7	"	29.53	S/SW-2	8.4	163
0635	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	West-10	"	29.54		8.0	165
0645	Begin Discharge	# 3	14*24.13 S	170*39.38' W	" "			X	7.9	270
0700		# 4	14*24.16 S	170*38.82' W	West-7				8.3	346
15	Remarks:	# 5	14*24.28' S	170*39.21' W	W-10		29.55		7.5	178
30		# 6	14*24.51' S	170*38.79' W	" "		29.56		9.0	002
45		# 7	14*24.03' S	170*39.58' W	" "		"	5	8.8	184
0800		# 8	14*24.30' S	170*38.80' W	" "		"		9.2	349
15		# 9	14*23.84' S	170*39.50' W	" "	80	29.57		8.9	183
30		# 10	14*24.47' S	170*38.80' W	" "	"	"		9.4	358
45		# 11	14*24.00' S	170*39.62' W	" "	90	29.58		8.9	162
0900		# 12	14*24.41' S	170*38.73' W		"	"	10	9.8	011
15		# 13	14*24.13' S	170*39.56' W		80	"		9.1	188
30		# 14	14*23.94' S	170*38.77' W		70	29.59		9.8	351
45		# 15	14*24.56' S	170*39.24' W		"	"		9.1	177
1000		# 16	14*23.84' S	170*38.82' W		"	"		9.9	355
		# 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						
1005	Finish Discharge	#17	14*23.26' S	170*39.03 W	West-10	75%	29.59	S/SW-2	8.9	294
1007	Exit Discharge Zone	#18	14*22.85' S	170*39.25' W	" "	"	"	" "	9.7	348
1100	Secure SK Dock		14*16.50' S	170*41.2' W						

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

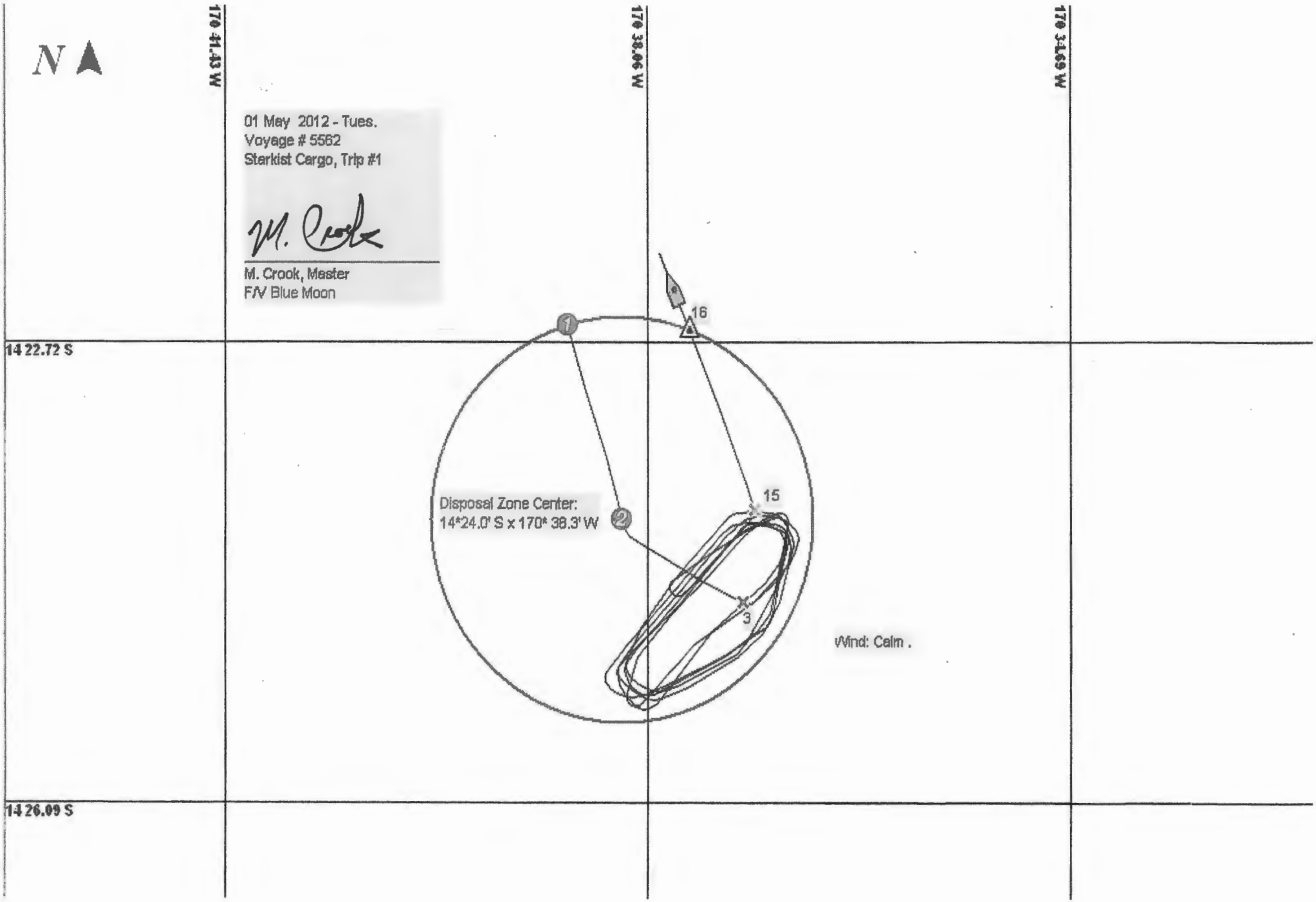
Total Discharge Time: 200 mins. Average Speed During Discharge: 8.96 kts. Total Time Run 5.6 hr.

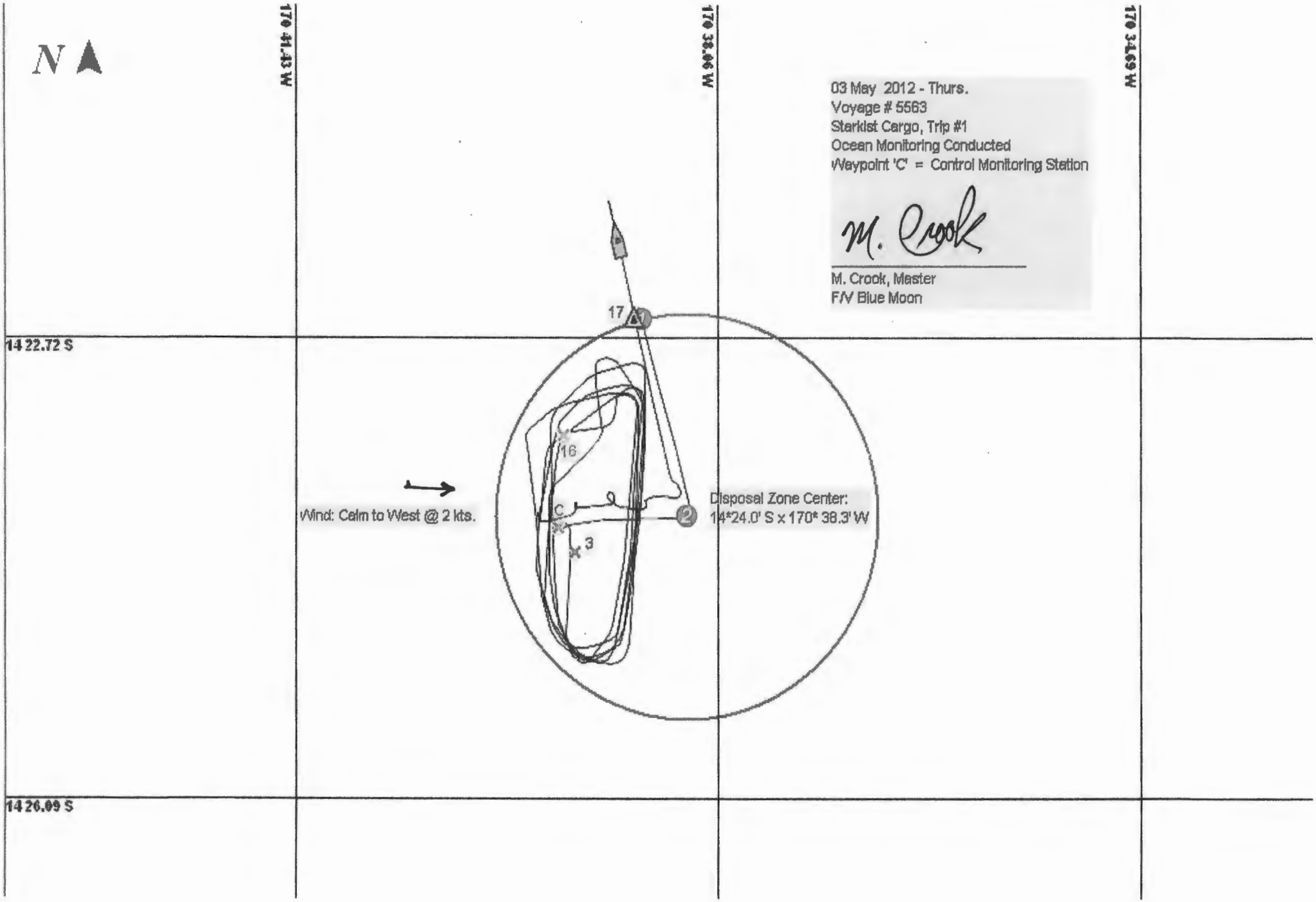
Navigational Plot made: yes Presence of Plume? No

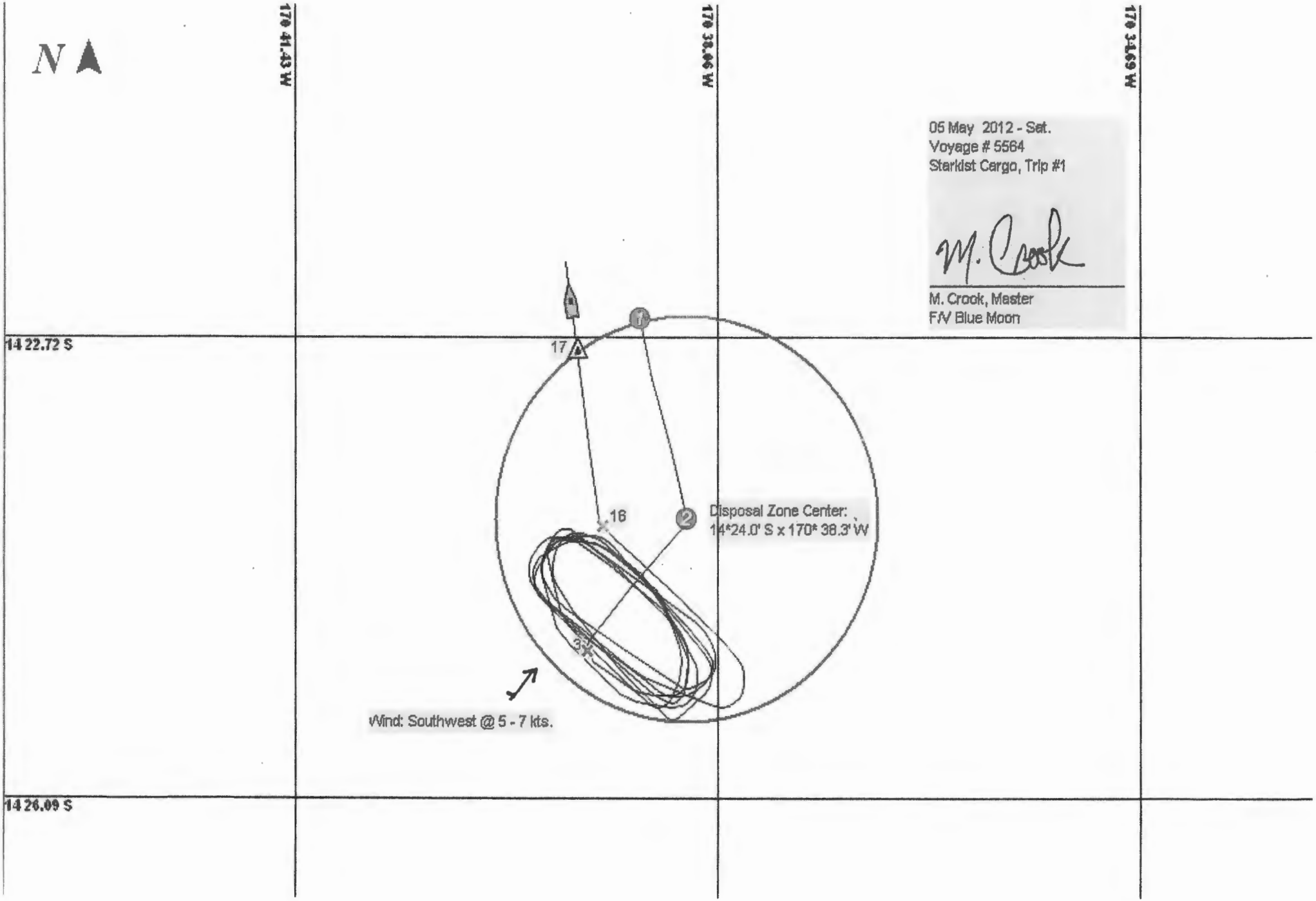
Time and position of any floating material: None Discharge Rate: 110.2 Gallons/min/kt.

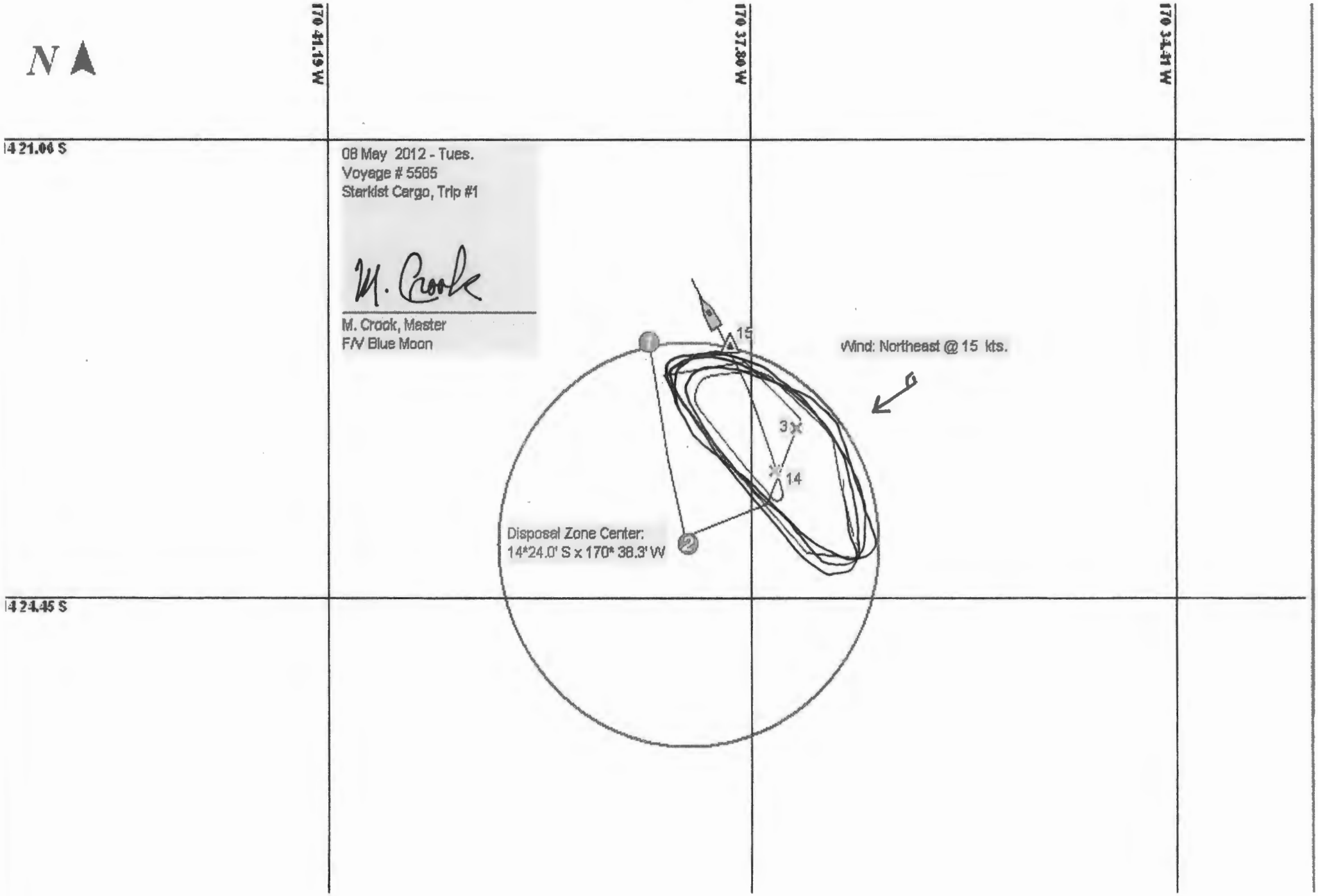
Unusual Occurrences? 0823 hrs. Slight out of zone (SW) to avoid long line fishing gear

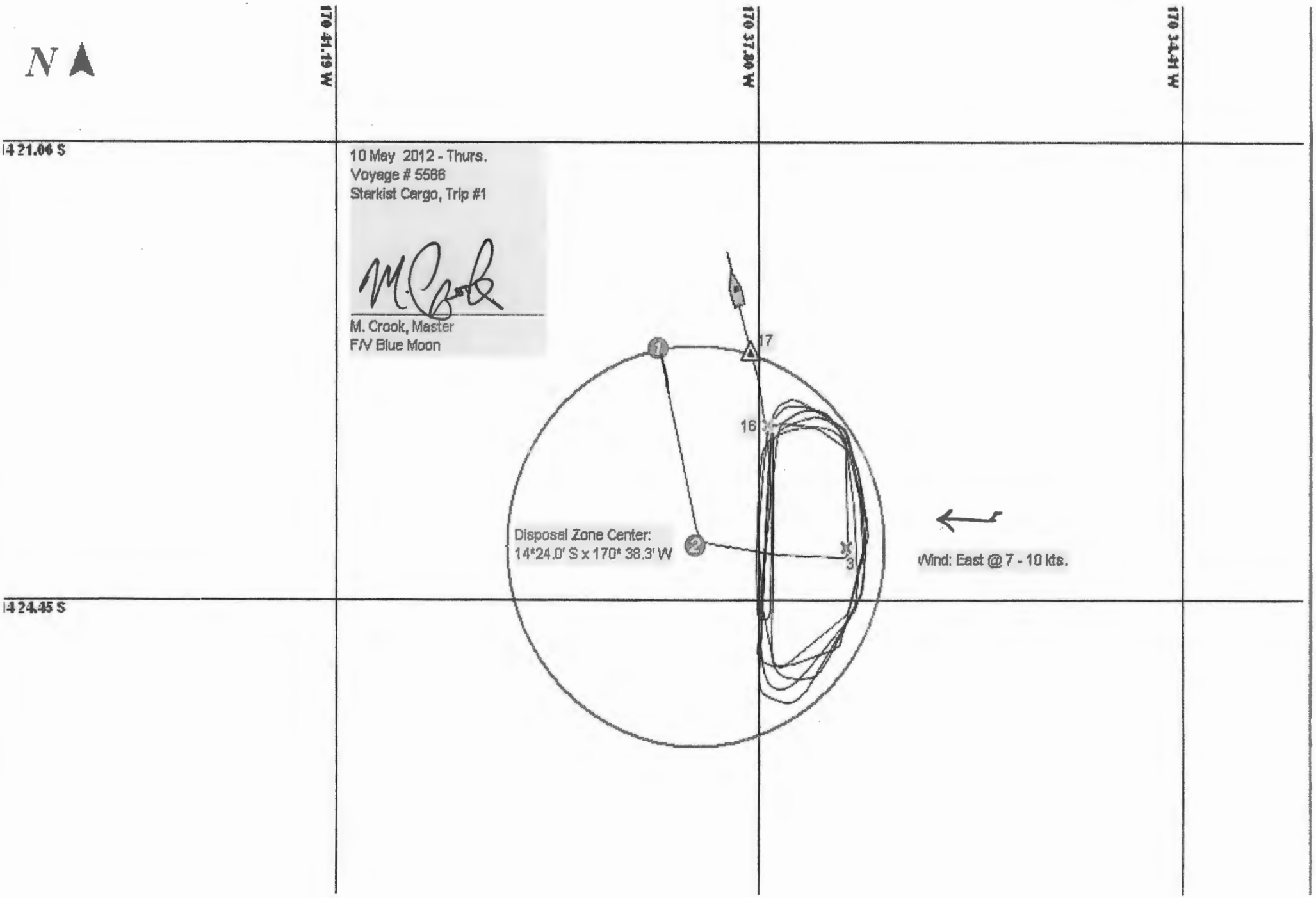
Notifications made: A.S.P.A. ✓ U.S.C.G.M.S.D. ✓ Master: F/V Blue Moon M. Crook

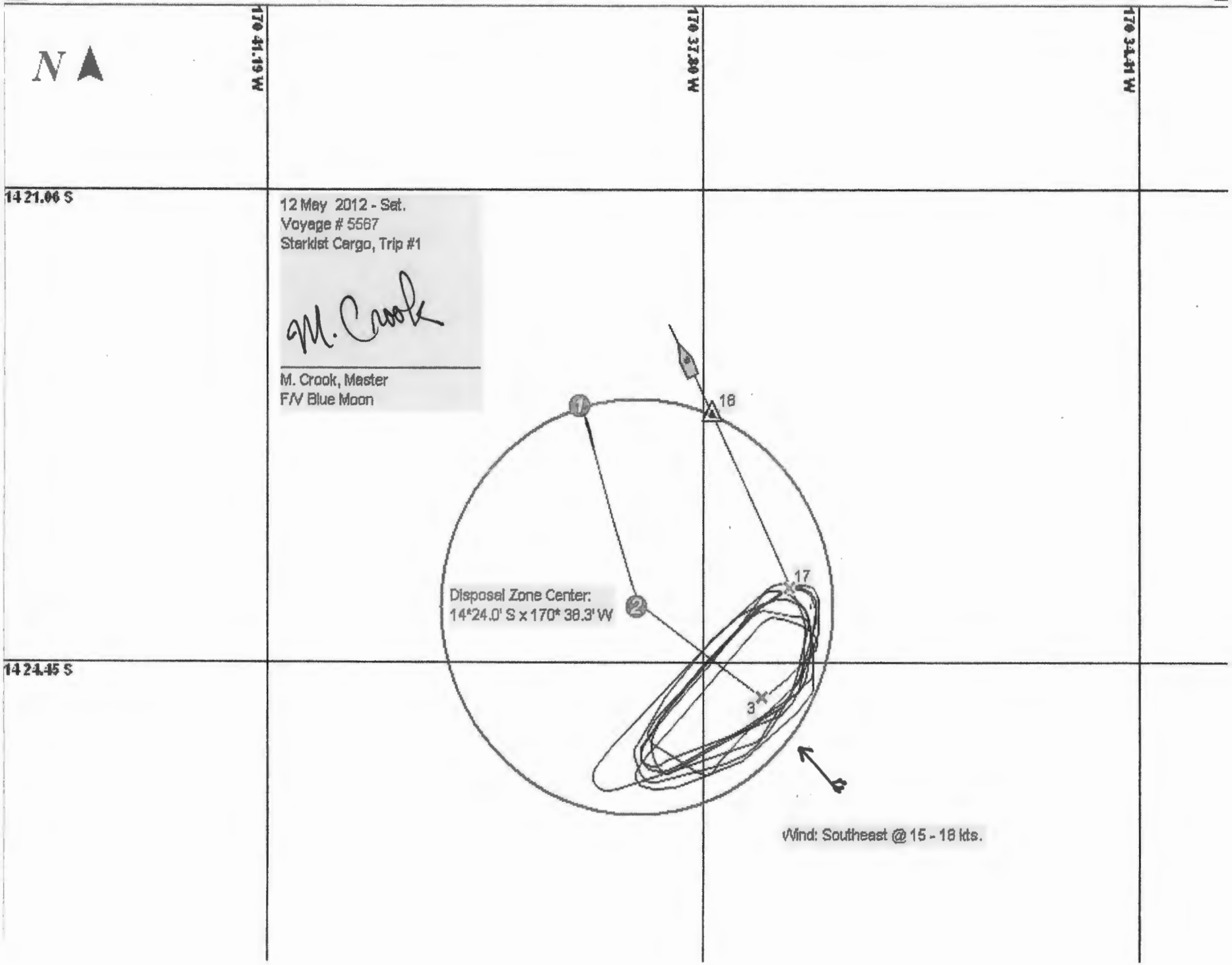

N
170 41.43 W
170 38.06 W
170 34.69 W
14 22.72 S
14 26.09 S
01 May 2012 - Tues.
Voyage # 5562
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
1
2
3
15
16
Wind: Calm .

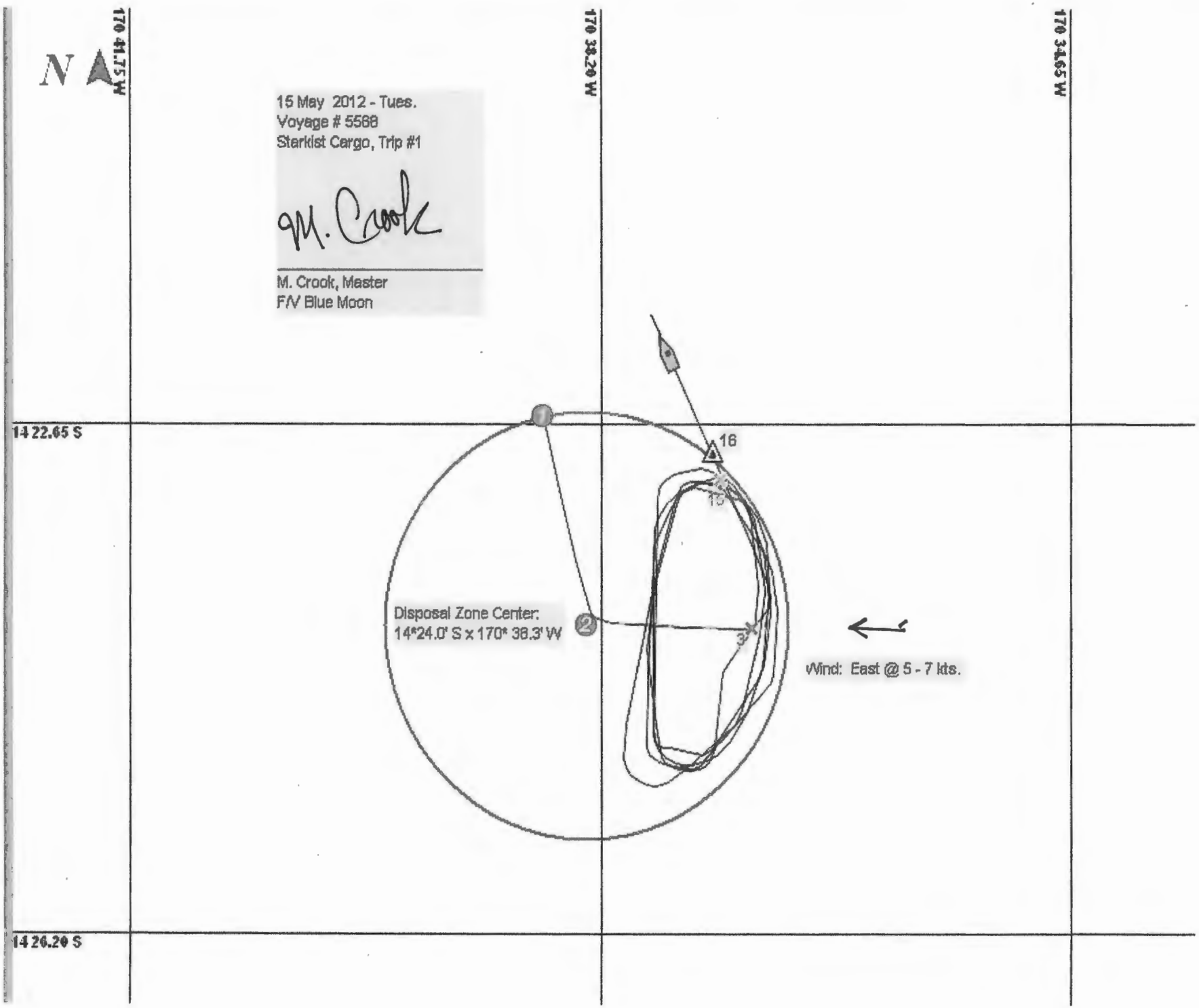

N
170 41.43 W
170 38.06 W
170 34.69 W
14 22.72 S
14 26.09 S
03 May 2012 - Thurs.
Voyage # 5563
Starkist Cargo, Trip #1
Ocean Monitoring Conducted
Waypoint 'C' = Control Monitoring Station
M. Crook, Master
F/V Blue Moon
17
16
C
3
Wind: Calm to West @ 2 kts.
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

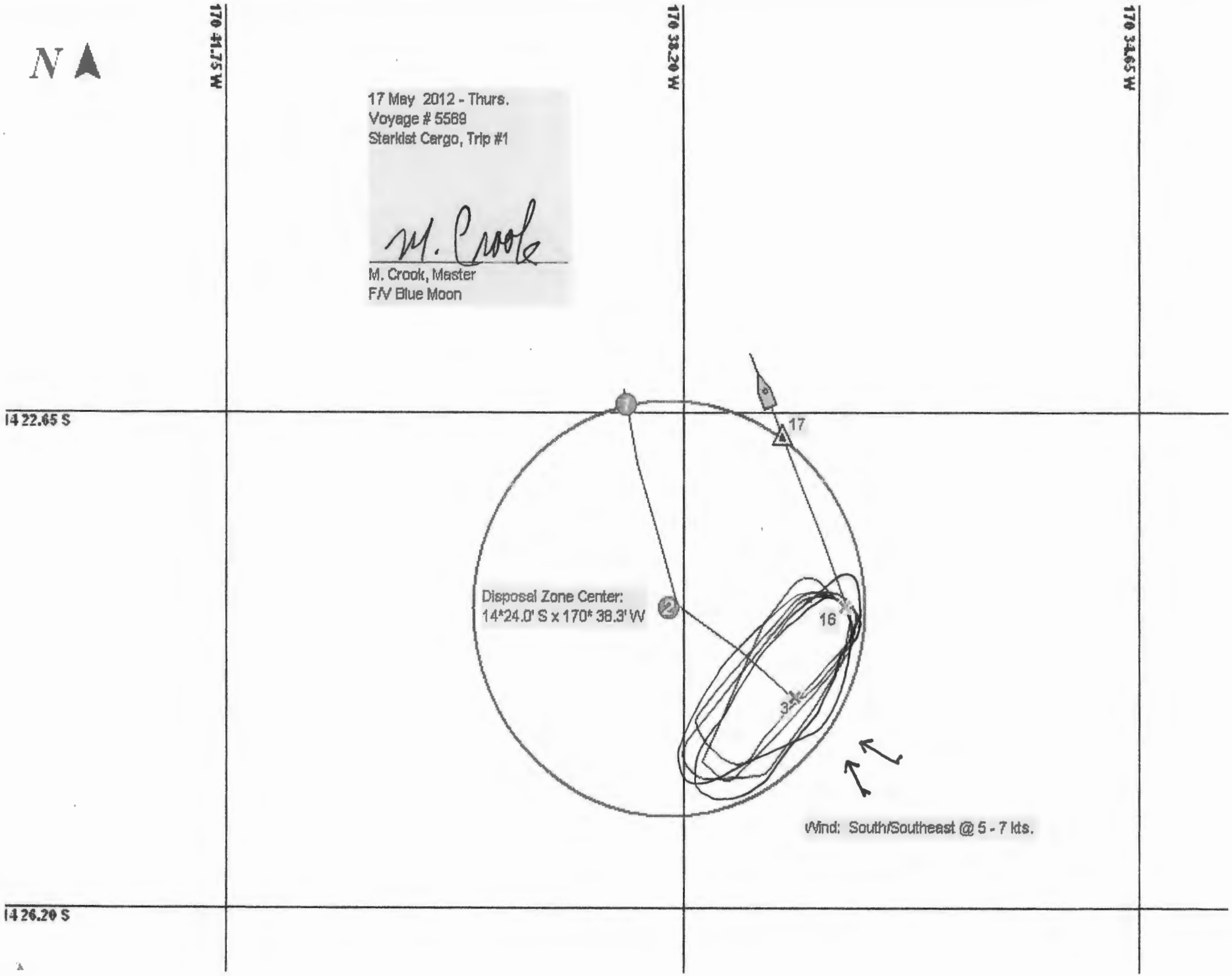

N
170 41.43 W
170 38.06 W
170 34.69 W
14 22.72 S
14 26.09 S
17
16
1
2
3
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: Southwest @ 5 - 7 kts.
05 May 2012 - Set.
Voyage # 5564
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon

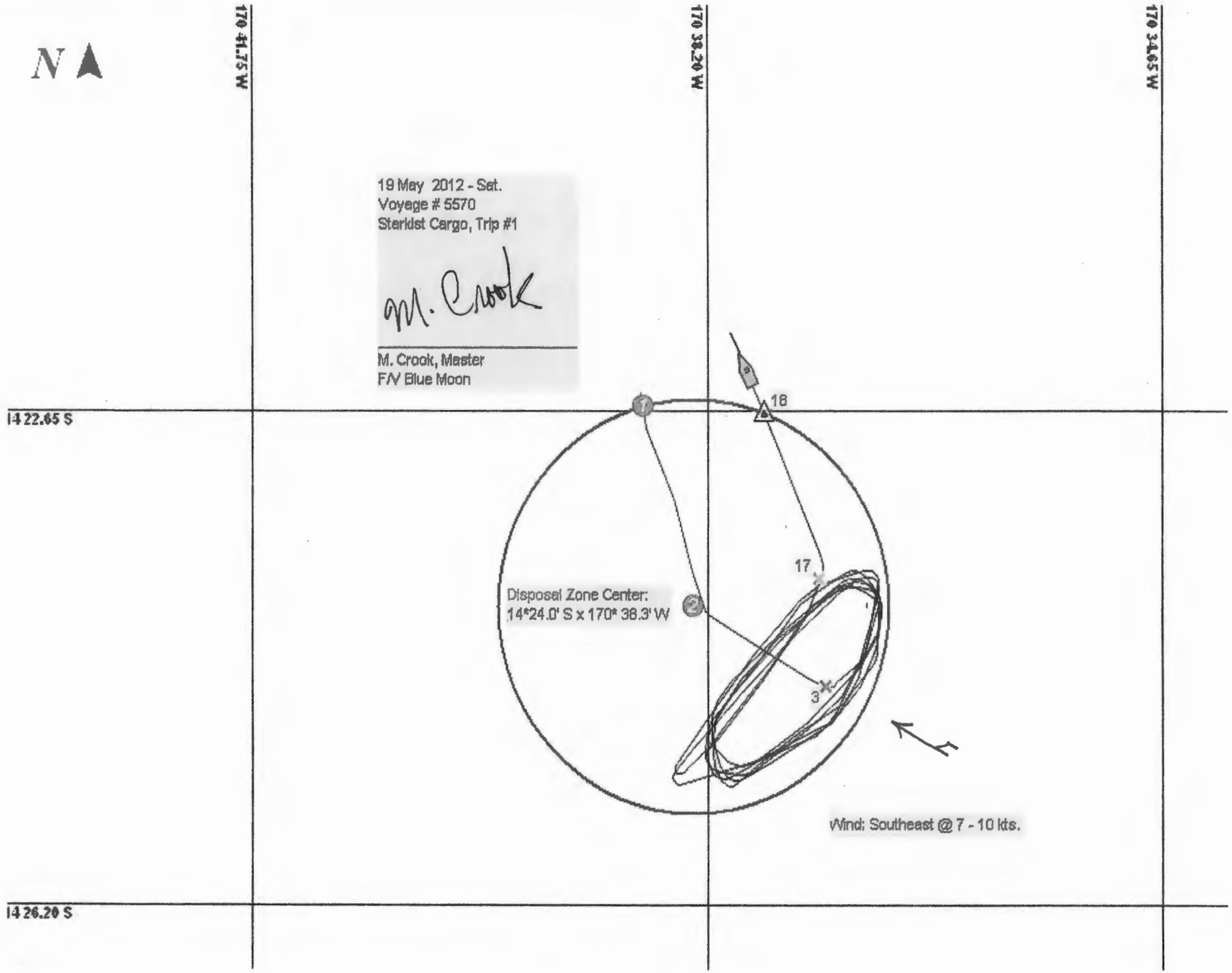

N
170 41.19 W
170 37.80 W
170 34.41 W
14 21.06 S
14 24.45 S
08 May 2012 - Tues.
Voyage # 5565
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Wind: Northeast @ 15 kts.
15
3
14
1
2
Disposal Zone Center:
14*24.0' S x 170* 38.3' W

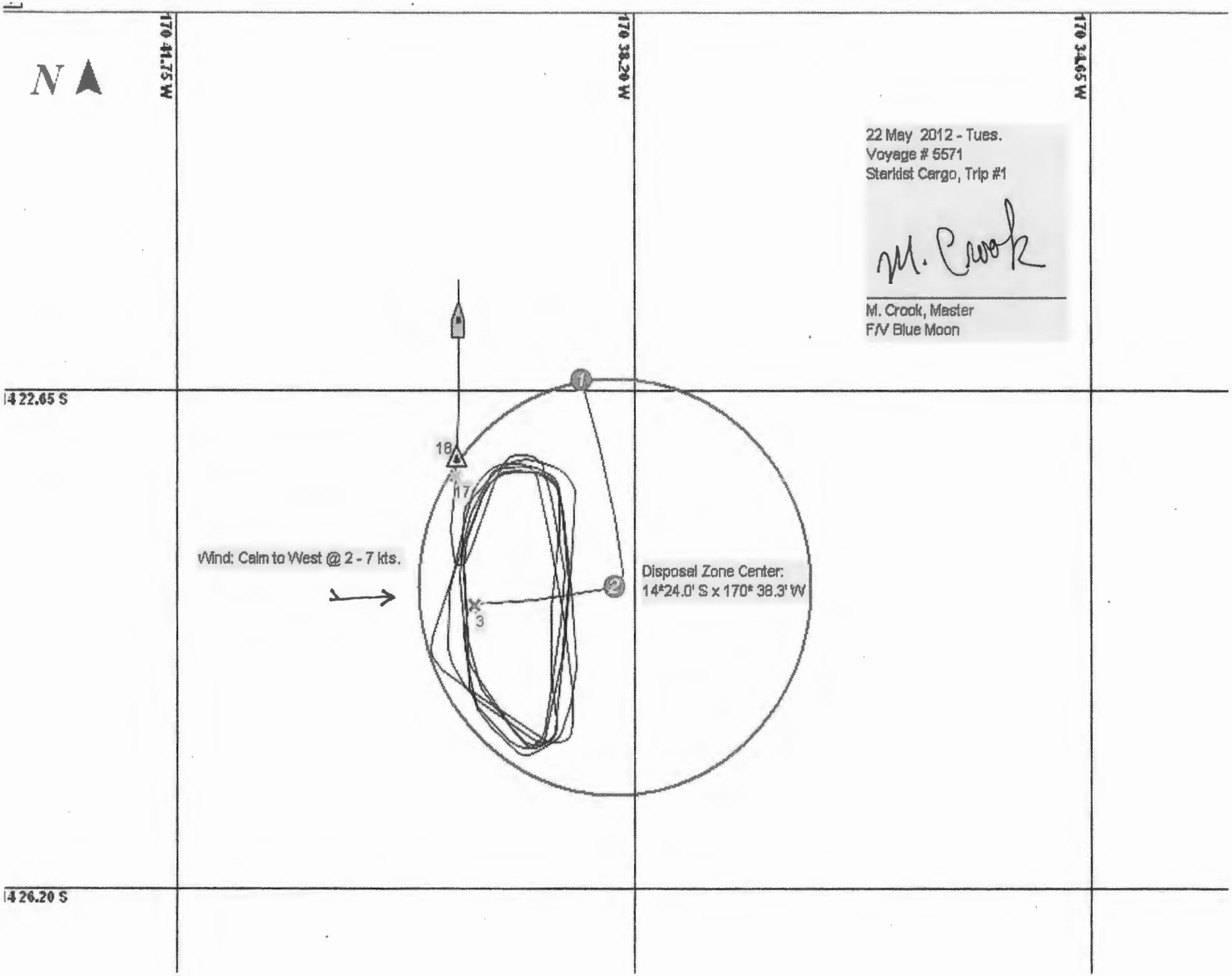

N
170 41.19 W
170 37.80 W
170 34.41 W
14 21.06 S
14 24.45 S
10 May 2012 - Thurs.
Voyage # 5586
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
1
2
3
16
17
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
Wind: East @ 7 - 10 kts.

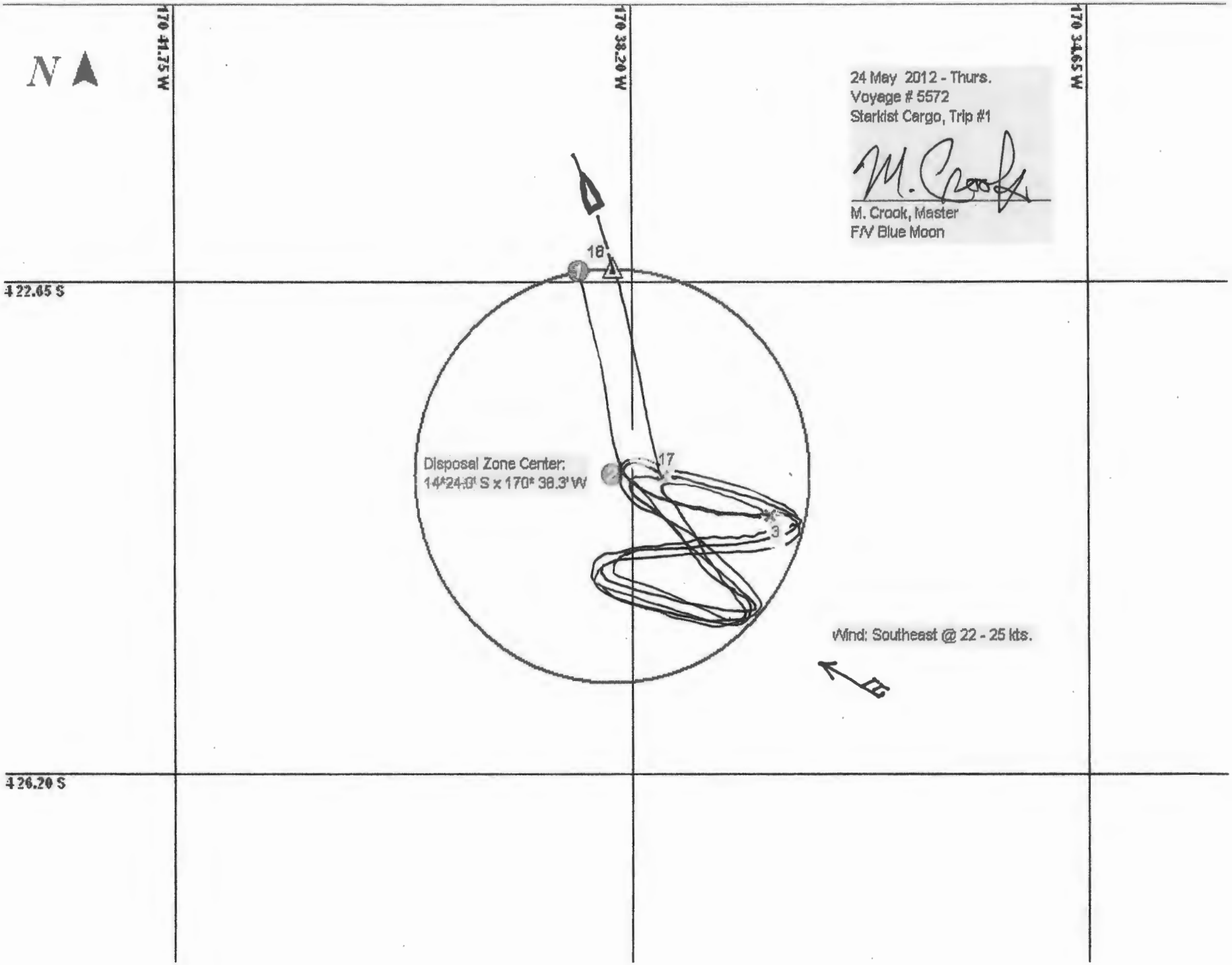

N
170 41.19 W
170 37.80 W
170 34.41 W
14 21.06 S
14 24.45 S
12 May 2012 - Sat.
Voyage # 5567
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
1
2
3
16
17
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
Wind: Southeast @ 15 - 18 kts.

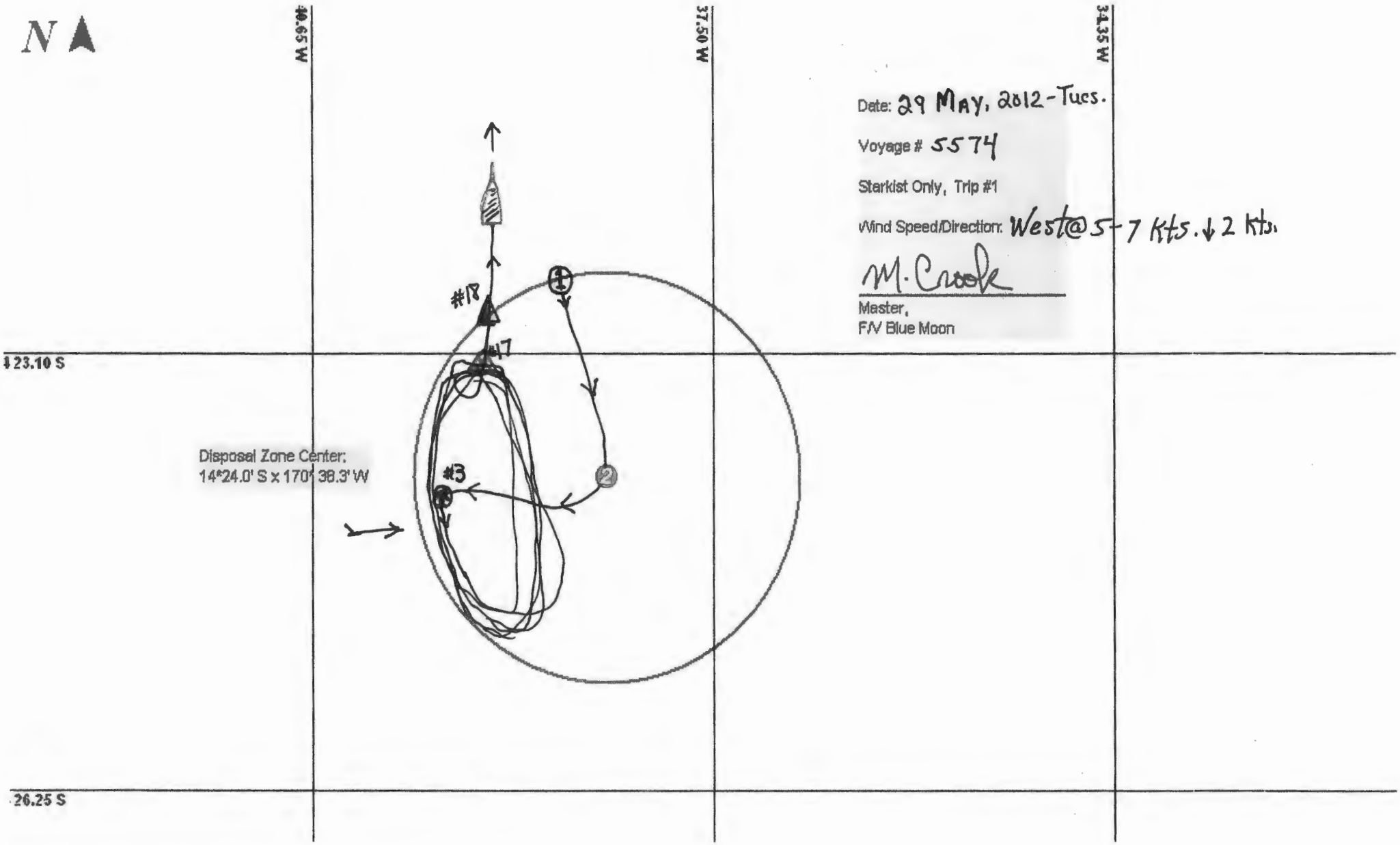

N
170 41.75 W
170 38.20 W
170 34.65 W
14 22.65 S
14 26.20 S
15 May 2012 - Tues.
Voyage # 5568
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
16
10
Disposal Zone Center:
14°24.0' S x 170° 38.3' W
2
Wind: East @ 5 - 7 kts.


N
170 41.75 W
170 38.20 W
170 34.65 W
14 22.65 S
14 26.20 S
17 May 2012 - Thurs.
Voyage # 5589
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
17
16
Wind: South/Southeast @ 5 - 7 kts.


N
170 41.75 W
170 38.20 W
170 34.65 W
14 22.65 S
14 26.20 S
19 May 2012 - Sat.
Voyage # 5570
Sterkist 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: Southeast @ 7 - 10 kts.


N
170 41.75 W
170 38.20 W
170 34.65 W
14 22.65 S
14 26.20 S
22 May 2012 - Tues.
Voyage # 5571
Starkist Cargo, Trip #1
M. Crook, Master
F/V Blue Moon
Wind: Calm to West @ 2 - 7 kts.
Disposal Zone Center:
14*24.0' S x 170* 38.3' W
1
2
3
17
18


N
170 41.75 W
170 38.20 W
170 34.65 W
4 22.65 S
4 26.20 S
24 May 2012 - Thurs.
Voyage # 5572
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: Southeast @ 22 - 25 kts.



Date: 29 May, 2012 - Tues.

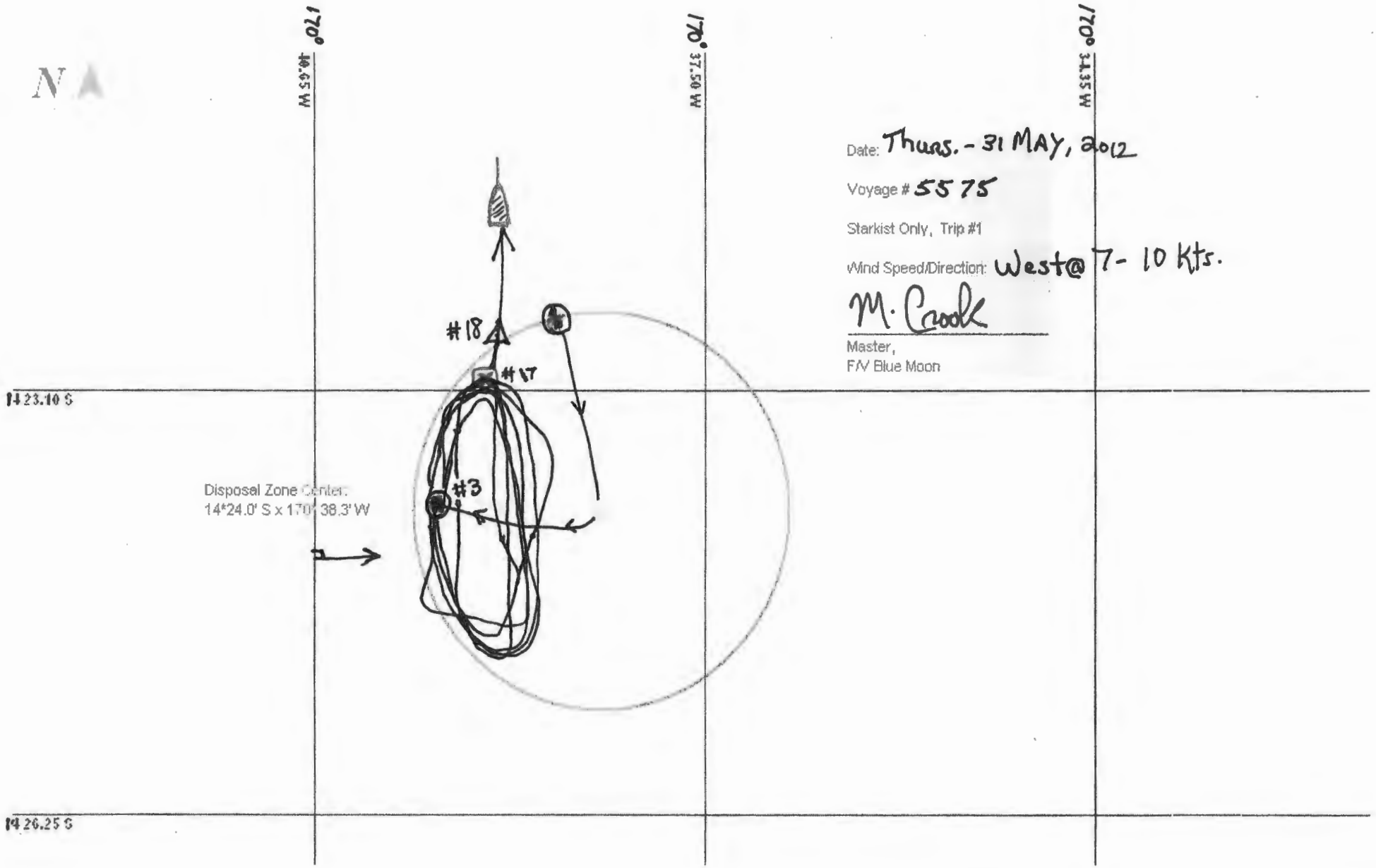
Voyage # 5574

Starkist Only, Trip #1

Wind Speed/Direction: West @ 5-7 Kts. ↓ 2 Kts.

M. Crooke

Master,
F/V Blue Moon



Date: Thurs. - 31 MAY, 2012

Voyage # 5575

Starkist Only, Trip #1

Wind Speed/Direction: West@ 7- 10 Kts.

M. Crook

Master,
F/V Blue Moon

OCEAN DUMPING MONTHLY SUMMARY

F/V BLUE MOON June, 2012

NUMBER OF TRIPS:	Starkist	Other	Joint	TOTAL:
	8	0	0	8

GALLONS-FOR THE MONTH:	Starkist	Other	Joint	TOTAL:
	1,104,000	0	0	1,104,000

GALLONS FOR SOLO TRIPS:	Starkist	Other
	1,104,000	0

RUNNING TIME ON TRIPS: **40.33 hours**

DISCHARGE TIME ON TRIPS: **20.93 hrs.**

AV. GPM DISCHARGE RATE: **95.85 gal/min/kt**

AV. TRIP TIME: **5.04 hrs.**

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

Starkist	Other
100.00%	0.00%

MASTER : M. Crook

M. Crook

Date: 06/02/12 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5576

Permit # OD 93-01 & OD 93-02

	Time	
6/1	0130	Begin 1st Loading SK
	0230	Finish 1st Loading SK
	1430	Begin 2nd Loading SK
6/2	1930	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	195,000	Gallons
Other	0	Gallons
Total	195,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0530	Depart Starkist		14*16.50' S	170* 41.2' W	SE-15	90	29.59			
0628	Arrive Edge of Zone	# 1	14*22.51' S	170*38.76' W	" "	100	29.60	SE-2.0	7.3	160
0639	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"		8.3	163
0647	Begin Discharge	# 3	14*24.61' S	170*37.47' W	" "	"	"	X	7.9	135
0702		# 4	14*24.32' S	170*37.68' W			"		8.6	216
" 17	Remarks:	# 5	14*24.49' S	170*37.18' W			29.61		8.4	045
" 32		# 6	14*24.81' S	170*38.16' W			"		8.6	221
" 47		# 7	14*24.37' S	170*36.99' W			"	5	8.4	024
0802		# 8	14*24.91' S	170*38.18' W			29.62		8.8	218
" 17		# 9	14*24.33' S	170*36.87' W			29.63		8.9	012
" 32		# 10	14*25.07' S	170*38.29' W			"		8.7	227
" 47		# 11	14*24.20' S	170*36.88' W			"		9.2	004
0902		# 12	14*25.11' S	170*38.01' W				10	9.1	051
" 17		# 13	14*24.08' S	170*37.01' W					9.4	280
" 32		# 14	14*24.84' S	170*37.86' W			29.64		9.0	072
" 47		# 15	14*24.24' S	170*37.66' W					8.8	224
1002		# 16	14*24.77' S	170*37.61' W					9.2	049
		# 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	#17	14*23.94' S	170*37.32' W	SE-15	0/C-100%	29.64	SE-2.0	9.7	335
1018	Exit Discharge Zone	#18	14*22.61' S	170*37.83' W	" "	"	" "	" "	9.8	338
1110	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: 203 mins. Average Speed During Discharge: 8.85 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: 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. Cooke

Date: 06/05/12 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5577

Permit # OD 93-01 & OD 93-02

	Time	
13	1500	Begin 1st Loading SK
	1700	Finish 1st Loading SK
	1500	Begin 2nd Loading SK
14	1900	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:

SK	198,000	Gallons
Other	0	Gallons
Total	198,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0525	Depart Starkist		14*16.50' S	170*41.2' W	SE-12	75	29.54			
0620	Arrive Edge of Zone	# 1	14*22.54' S	170*38.68' W	" "	90	29.55	SE-2.5	8.0	166
0631	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	100-Rain	29.56	" "	7.5	161
0641	Begin Discharge	# 3	14*24.63' S	170*37.42' W	" "	100	"	" " X	7.9	135
" 56		# 4	14*24.76' S	170*37.97' W	" "	95	"	" "	8.9	220
0711	Remarks:	# 5	14*24.73' S	170*37.16' W	" "		"		7.8	026
" 26		# 6	14*24.48' S	170*37.73' W	" "		"		8.7	227
" 41		# 7	14*24.92' S	170*37.33' W	SE-15		29.57	5	7.9	038
" 56		# 8	14*24.81' S	170*37.93' W	" "	90	"		9.2	221
0811		# 9	14*24.92' S	170*37.28' W	" "	"	29.58		8.0	041
" 26		# 10	14*24.81' S	170*37.94' W					9.1	220
" 41		# 11	14*24.50' S	170*37.02' W					8.6	010
" 56		# 12	14*25.07' S	170*38.30' W				10	9.3	221
0911		# 13	14*24.58' S	170*37.01' W					8.8	008
" 26		# 14	14*25.07' S	170*38.28' W					9.1	220
" 41		# 15	14*24.36' S	170*37.04' W					8.9	012
" 56		# 16	14*25.05 S	170*37.76' W			29.59		8.4	061
		# 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						
1011	Finish Discharge	#17	14*23.81' S	170*37.03' W	SE-15	90%	29.59	SE-2.5	9.3	327
1020	Exit Discharge Zone	#18	14*22.72' S	170*37.64' W	" "	"	" "	" "	9.4	329
1115	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: 210 mins. Average Speed During Discharge: 8.66 kts. Total Time Run 5.8 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

Date: 06/07/12 Thurs.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5578

Permit # OD 93-01 & OD 93-02

	Time	
15	2030	Begin 1st Loading SK
	2130	Finish 1st Loading SK
	1430	Begin 2nd Loading SK
16	1930	Finish 2nd Loading SK

6/7/ 0200 St. 0330 Fin.

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	186,000	Gallons
Other	0	Gallons
Total	186,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell Metric	Speed kts	Course True*
0535	Depart Starkist		14*16.50' S	170* 41.2' W	SE-15	100	29.60			
0631	Arrive Edge of Zone	# 1	14*22.55' S	170*38.72 W	" "	100- Rain	"	SE-2.0	7.6	162
0644	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W		" "	"	SE-3.0	7.1	157
0654	Begin Discharge	# 3	14*24.48' S	170*37.28 W		" "	29.61	" " X	7.4	115
0709		# 4	14*24.22' S	170*37.57' W		" "	"	" "	7.8	221
" 24	Remarks:	# 5	14*24.70' S	170*37.06' W		" "	"	SE-2.5	8.0	019
" 39		# 6	14*24.88' S	170*38.02 W	SE-12	" "	"	" "	9.0	220
" 54		# 7	14*24.04' S	170*36.98' W	" "	100%	29.62	5	8.8	272
0809		# 8	14*25.20' S	170*37.81' W	SE-15	95	"		7.5	043
" 24		# 9	14*24.45' S	170*37.64' W		"			9.2	273
" 39		# 10	14*24.68' S	170*37.20' W		"			7.7	061
" 54		# 11	14*24.70' S	170*37.92' W		"	29.61		9.6	221
0909		# 12	14*24.54' S	170*36.95' W		RAIN-100		10	8.3	010
24		# 13	14*25.13' S	170*37.72' W		" "			8.4	038
39		# 14	14*23.90' S	170*37.23' W	SE-18	100	29.60		8.8	227
54		# 15	14*24.89' S	170*37.20' W	SE-20	75	"		8.8	016
1009		# 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	#16	14*23.96 S	170*37.06 W	SE-20	75%	29.60	SE-2.5	9.4	332
1012	Exit Discharge Zone	#17	14*22.74' S	170*37.65' W					9.4	330
1105	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: 189 mins. Average Speed During Discharge: 8.5 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: 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. Crowe

Date: 06/09/12 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5579

Permit # OD 93-01 & OD 93-02

	Time	
1/7	1830	Begin 1st Loading SK
	2100	Finish 1st Loading SK
1/8	1200	Begin 2nd Loading SK
	1700	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	195,000	Gallons
Other	0	Gallons
Total	195,000	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	20%	29.59			
0615	Arrive Edge of Zone	# 1	14*22.54	S	170*38.70	W	East-7	15	"	E+SE-1.5	8.0	162
0626	Arrive Zone Center	# 2	14*24.0	S	170*38.3	W	SE-7	20	"	" "	8.5	163
0650	Begin Discharge	# 3	14*24.36	S	170*37.25	W	" "	"	"	X	7.4	035
0705		# 4	14*24.51	S	170*37.89	W	" "	"	"		8.4	225
20	Remarks:	# 5	14*24.06'	S	170*37.09'	W	" "	25	"		8.0	268
35	0535 hrs:	# 6	14*25.33'	S	170*37.81'	W		"			8.1	025
50	Monitoring	# 7	14*24.21'	S	170*37.12'	W		"		5	8.5	218
0805	Control Samples	# 8	14*25.06'	S	170*37.56'	W		"			7.0	327
20	Drawn at:	# 9	14*24.62'	S	170*37.85'	W		50			7.1	321
35	14°24'45" S	# 10	14*24.41'	S	170*37.04'	W		"			7.3	032
50	170°37'33" W	# 11	14*25.11'	S	170*37.86'	W		35			5.6	041
0905		# 12	14*24.00	S	170*37.17'	W	SE-10	40		10	8.8	253
20		# 13	14*24.99'	S	170*37.49'	W	" "	50			7.1	040
35		# 14	14*24.54'	S	170*37.68'	W	" "	60	27.60		7.6	214
50		# 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	#15	14*24.50'	S	170*36.95'	W	SE-7	60	29.60	E+SE-1.5	7.3	008
1110	Exit Discharge Zone	#16	14*22.71'	S	170*38.83'	W	" "	"	"	" "	8.7	341
1200	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: 180 mins. Average Speed During Discharge: 8.7 kts. Total Time Run 6.66 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: Discharge Rate: 124.5 Gallons/min/kt.

Unusual Occurrences? Monitoring Conducted

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

Date: 06/11/12 Mon.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5580

Permit # OD 93-01 & OD 93-02

	Time	
6/10	0900	Begin 1st Loading SK
	1230	Finish 1st Loading SK
6/11	0800	Begin 2nd Loading SK
	1200	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*
1335	Depart Starkist		14*16.50' S	170* 41.2' W	Calm	100-Rain	29.53			
1427	Arrive Edge of Zone	# 1	14*22.55' S	170*38.64' W	SE-7	100	29.51	SE-1.5	8.7	162
1436	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.5	160
1445	Begin Discharge	# 3	14*24.62 S	170*37.41 W	" "	"	"	" " X	8.4	135
1500		# 4	14*24.64' S	170*37.85' W	" "		"		9.1	221
15	Remarks:	# 5	14*24.70' S	170*37.03 W	" "		"		8.5	020
30		# 6	14*25.14' S	170*38.18 W	SE-10	95	"		7.9	193
45		# 7	14*24.07' S	170*37.28' W	" "	"	"	5	8.6	268
1600		# 8	14*25.37' S	170*38.23' W	" "	"	"		8.6	083
15		# 9	14*24.10' S	170*36.97' W	" "	"			9.0	000
30		# 10	14*25.18' S	170*37.78' W					8.7	056
45		# 11	14*24.39' S	170*37.59' W					9.6	217
1700		# 12	14*24.85' S	170*37.21' W				10	8.9	048
15		# 13	14*2 S	170*3 W						
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						
1709	Finish Discharge	#13	14*23.96' S	170*37.02' W	SE-10	95%	29.51	SE-1.5	9.6	327
1719	Exit Discharge Zone	#14	14*22.52' S	170*37.75' W	" "	"	29.52	" "	9.5	325
1810	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: 144 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 4.6 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. Crooke

Date: 06/12/12 Tues.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5581

Permit # OD 93-01 & OD 93-02

	Time	
6/11	2030	Begin 1st Loading SK
	2100	Finish 1st Loading SK
	0100	Begin 2nd Loading SK
6/12	0600	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	92,500	Gallons
Other	0	Gallons
Total	92,500	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	80	29.56			
0703	Arrive Edge of Zone	# 1	14*22.62' S	170*38.80' W	East - 7	75	29.58	E/SE - 1.5	8.8	159
0713	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	29.59		8.7	160
0722	Begin Discharge	# 3	14*24.16' S	170*37.23' W	" "	"	"	X	8.7	070
" 37		# 4	14*23.97' S	170*37.59' W	" "	"	"		9.0	181
" 52	Remarks:	# 5	14*23.77' S	170*37.01' W	" "	"	"		9.0	003
0807		# 6	14*25.45' S	170*37.62' W	" "	"	"		8.9	178
" 22		# 7	14*23.72' S	170*36.92' W	East - 10	"	"	5	9.1	325
" 37		# 8	14*24.51' S	170*37.61' W		70	"		9.2	182
" 52		# 9	14*23.63' S	170*36.98' W		"	29.58		9.3	341
0907		# 10	14*24.38' S	170*37.58' W		60			9.3	181
" 22		# 11	14*23.62' S	170*36.99' W		50			9.1	324
" 37		# 12	14*2 S	170*3 W				10		
" 52		# 13	14*2 S	170*3 W						
1007		# 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						
0926	Finish Discharge	# 12	14*23.13' S	170*37.30' W	East - 10	50%	29.58	E/SE - 1.5	9.3	322
0931	Exit Discharge Zone	# 13	14*22.70' S	170*37.58' W	" "	"	"		9.2	324
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: 124 mins. Average Speed During Discharge: 9.1 kts. Total Time Run 4.2 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 82 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: 06/16/12 Sat.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5582

Permit # OD 93-01 & OD 93-02

Time	
0730	Begin 1st Loading SK
1345	Finish 1st Loading SK
	Begin 2nd Loading SK
	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	60,000	Gallons
Other	0	Gallons
Total	60,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
1355	Depart Starkist		14*16.50' S	170* 41.2' W	SE-10	35	29.62			
1450	Arrive Edge of Zone	# 1	14*22.57' S	170*38.65' W	SE-12	"	29.61	SE-1.5	8.5	165
1459	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	" "	"	"	" "	8.6	158
1510	Begin Discharge	# 3	14*24.59' S	170*37.38 W	" "	40	"	X	8.3	135
25		# 4	14*24.62' S	170*37.82' W	" "	"	"		9.1	218
40	Remarks:	# 5	14*24.57' S	170*37.05' W	" "	"	"		8.6	005
55		# 6	14*25.35' S	170*37.97' W	" "	50	"		8.4	051
1610		# 7	14*24.12' S	170*36.87' W	" "	"	"	5	9.0	002
25		# 8	14*25.04' S	170*37.68' W		60	29.60		8.6	063
40		# 9	14*2 S	170*3 W						
55		# 10	14*2 S	170*3 W						
1710		# 11	14*2 S	170*3 W						
		# 12	14*2 S	170*3 W				10		
		# 13	14*2 S	170*3 W						
		# 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						
1636	Finish Discharge	#9	14*23.96' S	170*37.00' W	SE-12	60%	29.60	SE-1.5	9.5	334
1644	Exit Discharge Zone	#10	14*22.62' S	170*37.69' W	" "	"	"	" "	9.6	332
1735	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: 86 mins. Average Speed During Discharge: 8.8 kts. Total Time Run 3.66 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 79.3 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

Date: 06/17/12 Sun.

F/V Blue Moon Ocean Dumping Log

Voyage #: 5583

Permit # OD 93-01 & OD 93-02

Time	
0300	Begin 1st Loading SK
0820	Finish 1st Loading SK
/	Begin 2nd Loading SK
/	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	40,000	Gallons
Other	0	Gallons
Total	40,000	Gallons

		WP#	GPS Position		Wind	% Clouds	Barometer	Swell	Speed	Course
								Metric	kts	True*
0840	Depart Starkist		14*16.50' S	170* 41.2' W	SE-10	50	29.68			
0932	Arrive Edge of Zone	# 1	14*22.57' S	170*38.66' W	SE-15	"	"	SE-2.5	8.2	163
0943	Arrive Zone Center	# 2	14*24.0 S	170*38.3 W	SE-18	"	"	" "	8.1	161
0952	Begin Discharge	# 3	14*24.56' S	170*37.35' W	" "		29.67	" " X	8.0	115
1007		# 4	14*24.24' S	170*37.66' W	" "		"	" "	8.3	217
" 22	Remarks:	# 5	14*24.96' S	170*37.25' W	SE-20		29.66	" "	8.1	044
" 37		# 6	14*24.50' S	170*37.83' W	" "			" "	8.7	223
" 52		# 7	14*24.75' S	170*37.18' W				5	8.2	041
1107		# 8	14*24.58' S	170*37.93' W			29.65		8.7	221
" 22		# 9	14*24.36' S	170*37.02' W			"		8.9	028
" 37		# 10	14*24.87' S	170*38.09' W			"		8.7	220
" 52		# 11	14*2 S	170*3 W						
1207		# 12	14*2 S	170*3 W				10		
		# 13	14*2 S	170*3 W						
		# 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						
1152.	Finish Discharge	# 11	14*23.92' S	170*36.91' W	SE-20	50%	29.64	SE-2.5	9.3	351
1202	Exit Discharge Zone	# 12	14*22.77 S	170*37.41' W	" "	"	29.63	" "	9.5	340
1255	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: 120 mins. Average Speed During Discharge: 8.54 kts. Total Time Run 4.25 hr.

Navigational Plot made: yes Presence of Plume? No

Time and position of any floating material: None Discharge Rate: 39.0 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: 06/29/12

F/V Blue Moon Ocean Dumping Log

Voyage #: 5584

Permit # OD 93-01 & OD 93-02

Time	
No loading	Begin 1st Loading SK
	Finish 1st Loading SK
	Begin 2nd Loading SK
	Finish 2nd Loading SK

Trip # 1 - X

Trip # 2

Volume Loaded:		
SK	0	Gallons
Other	0	Gallons
Total	0	Gallons

		WP#	GPS Position				Wind	% Clouds	Barometer	Swell	Speed	Course
										Metric	kts	True*
0520	Depart Starkist		14*16.50'	S	170* 41.2'	W	SE-15	75	29.59			
0615	Arrive Edge of Zone	# 1	14*22.57'	S	170*38.69'	W	" "	70	29.60	SE-2.0	8.1	163
0625	Arrive Zone Center	# 2	14*24.0	S	170*38.3	W	SE-12	"	"		8.3	159
0635	Begin Discharge	# 3	14*24.58	S	170*37.36'	W	" "	75	"	X	8.0	135
		# 4	14*2	S	170*3	W						
	Remarks:	# 5	14*2	S	170*3	W						
		# 6	14*2	S	170*3	W						
		# 7	14*2	S	170*3	W				5		
		# 8	14*2	S	170*3	W						
		# 9	14*2	S	170*3	W						
		# 10	14*2	S	170*3	W						
		# 11	14*2	S	170*3	W						
		# 12	14*2	S	170*3	W				10		
		# 13	14*2	S	170*3	W						
		# 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						
1110	Finish Discharge	#4	14*24.55'	S	170*3 7.91'	W	SE-12	75	29.60	SE-2.0	7.5	021
1123	Exit Discharge Zone	#5	14*2 2.53'	S	170*3 8.38'	W	" "	"	"	" "	9.6	342
1215	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: N/A mins. Average Speed During Discharge: N/A kts. Total Time Run 6.9 hr.

Navigational Plot made: Yes Presence of Plume? No

Time and position of any floating material: Discharge Rate: Gallons/min/kt.

Unusual Occurrences? No Cargo - TANK Cleaning only

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

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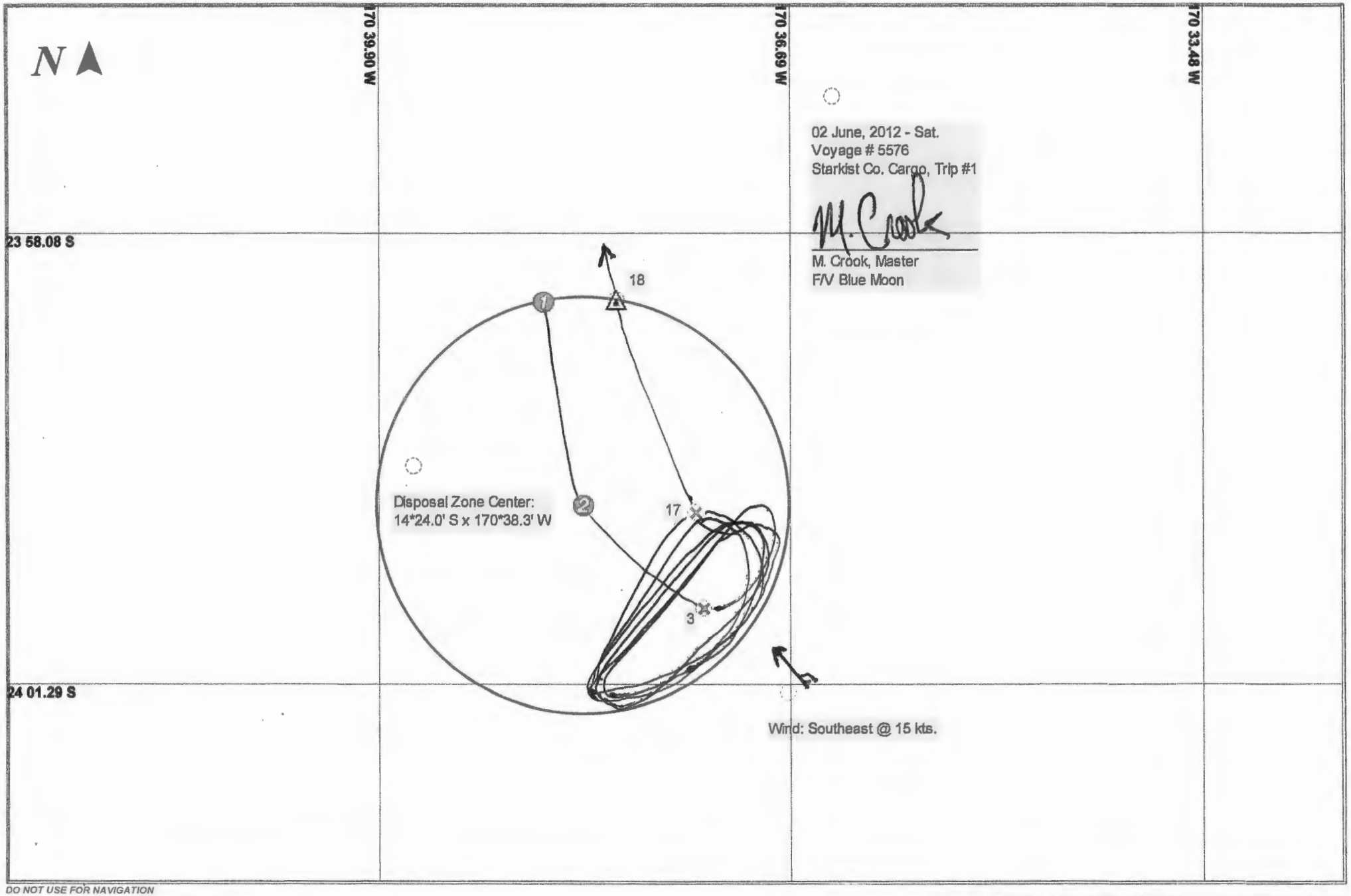
Page 1

191,000



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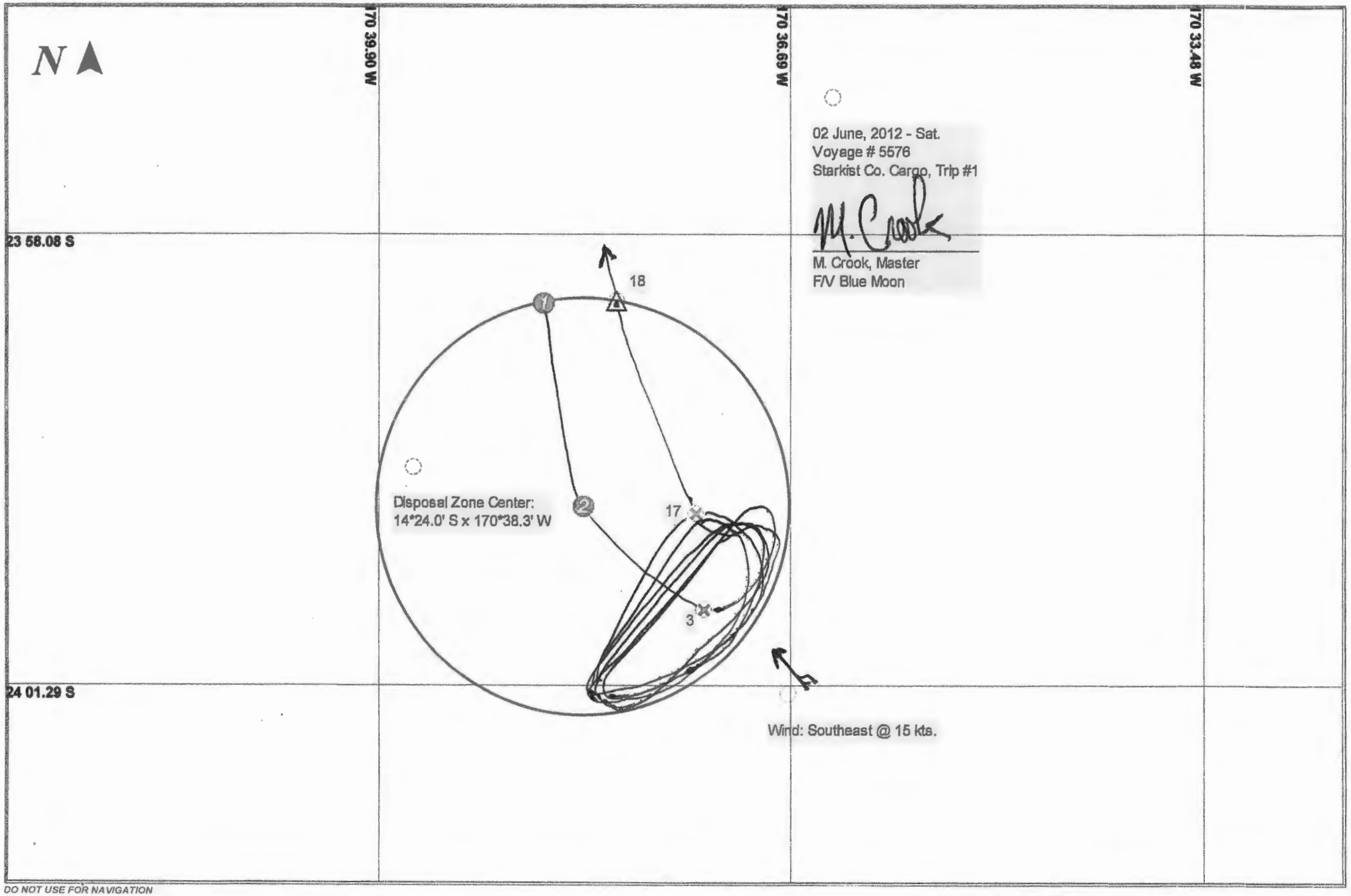

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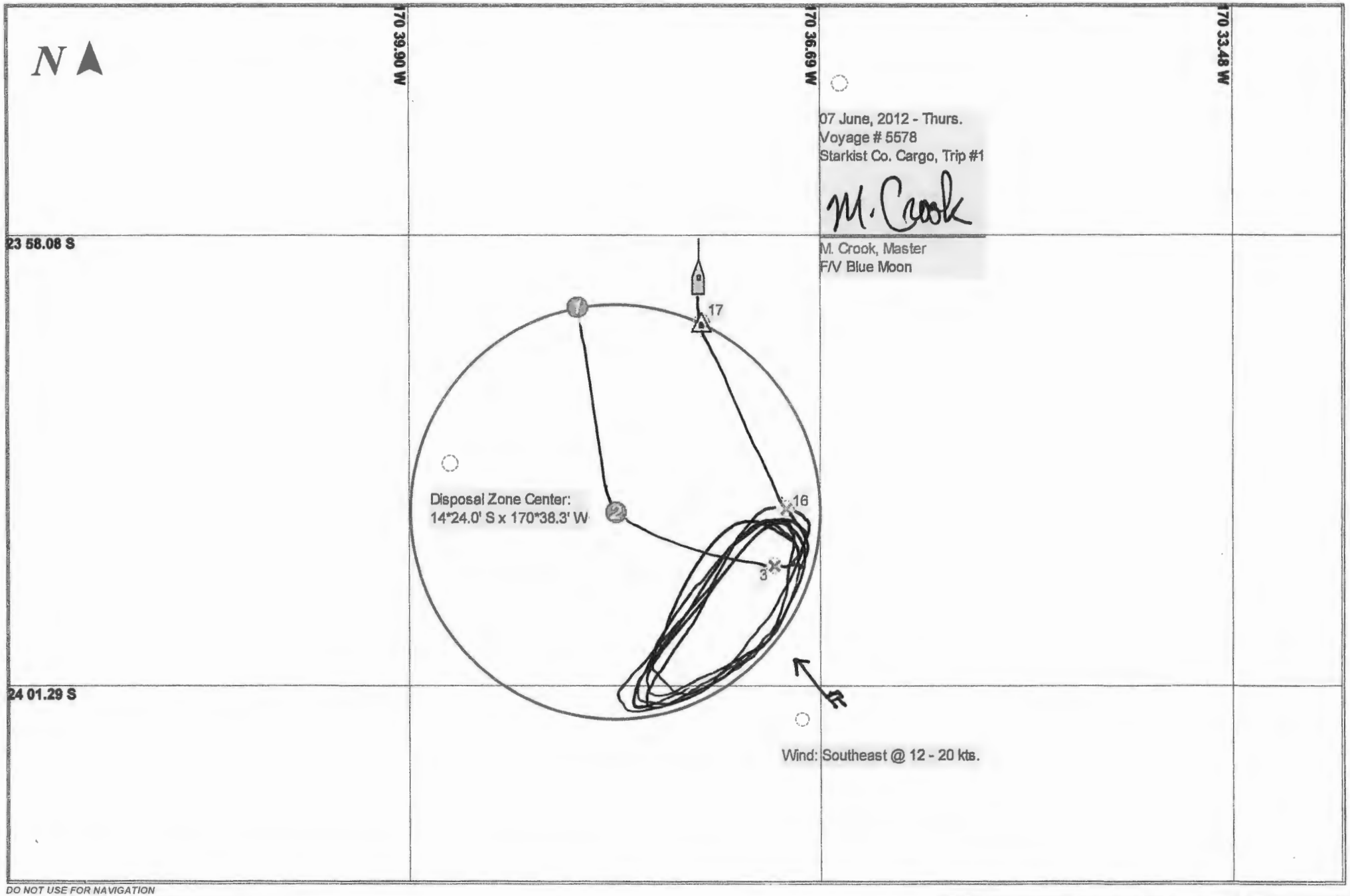

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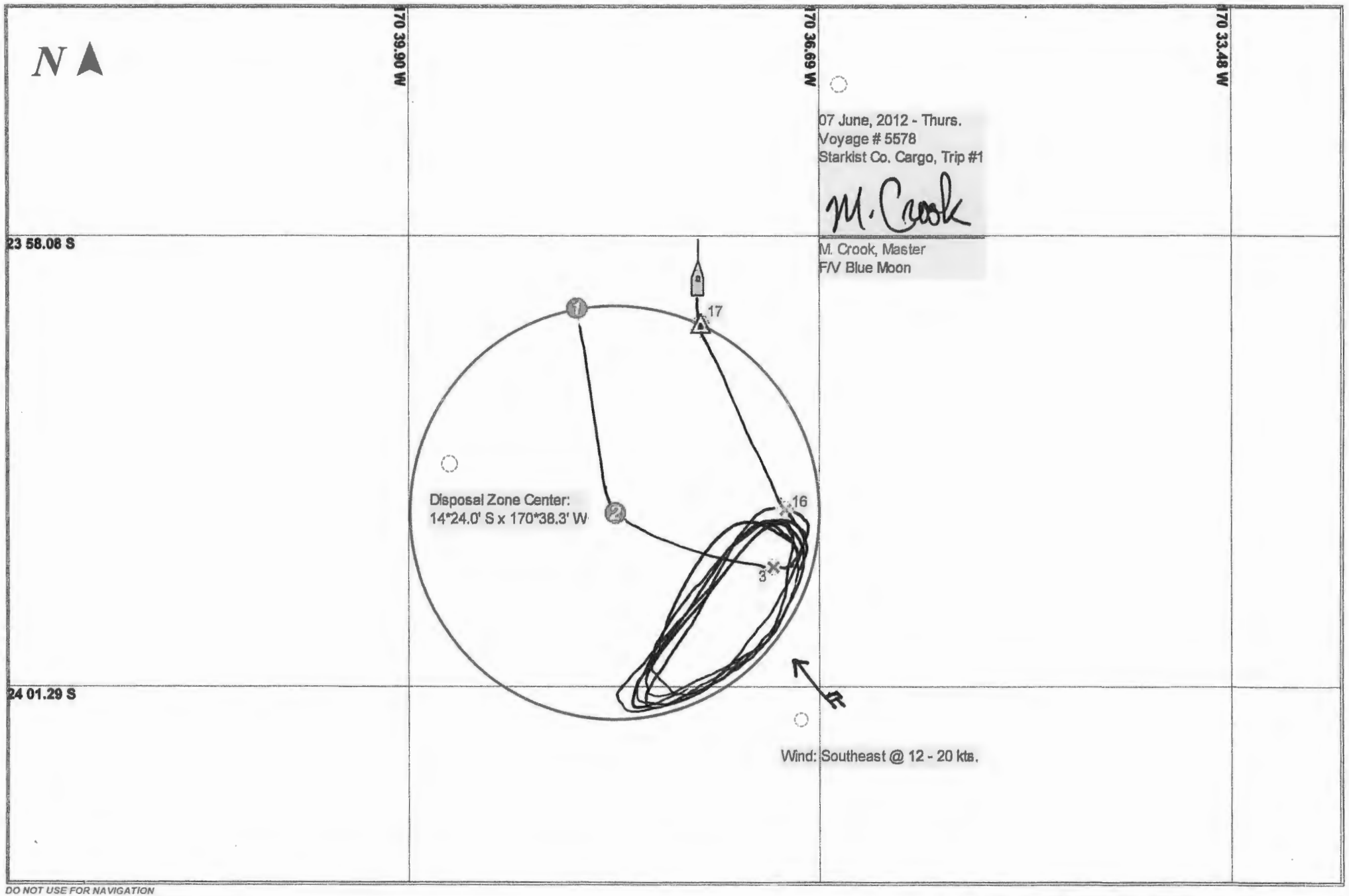

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File Edit View Tools Radar Sounder Window Help

N

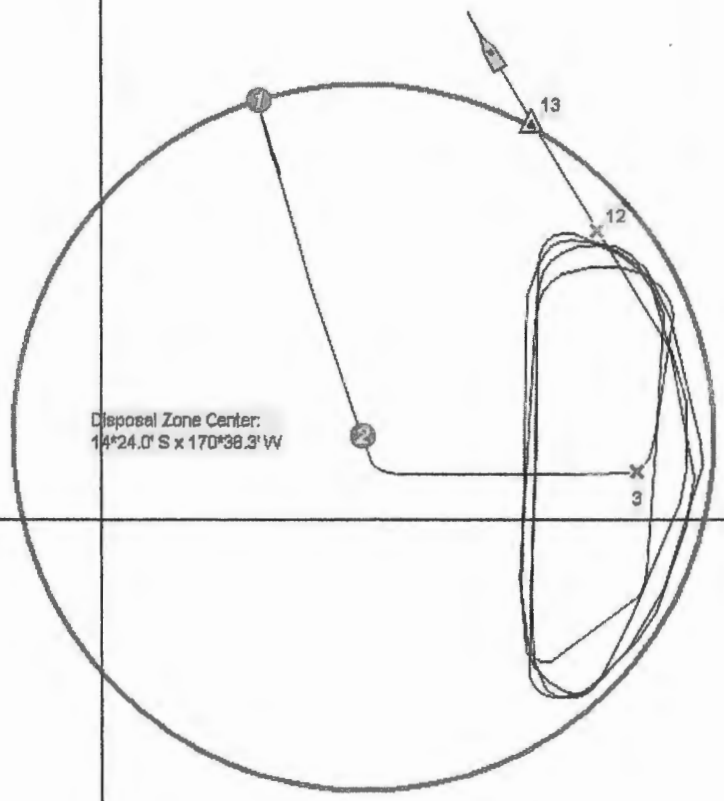
170 39.45 W

170 36.50 W

170 33.55 W

14 21.40 S

14 24.35 S



12 June, 2012 - Tues.
Voyage #5561
Starkist Cargo, Daily Trip #1

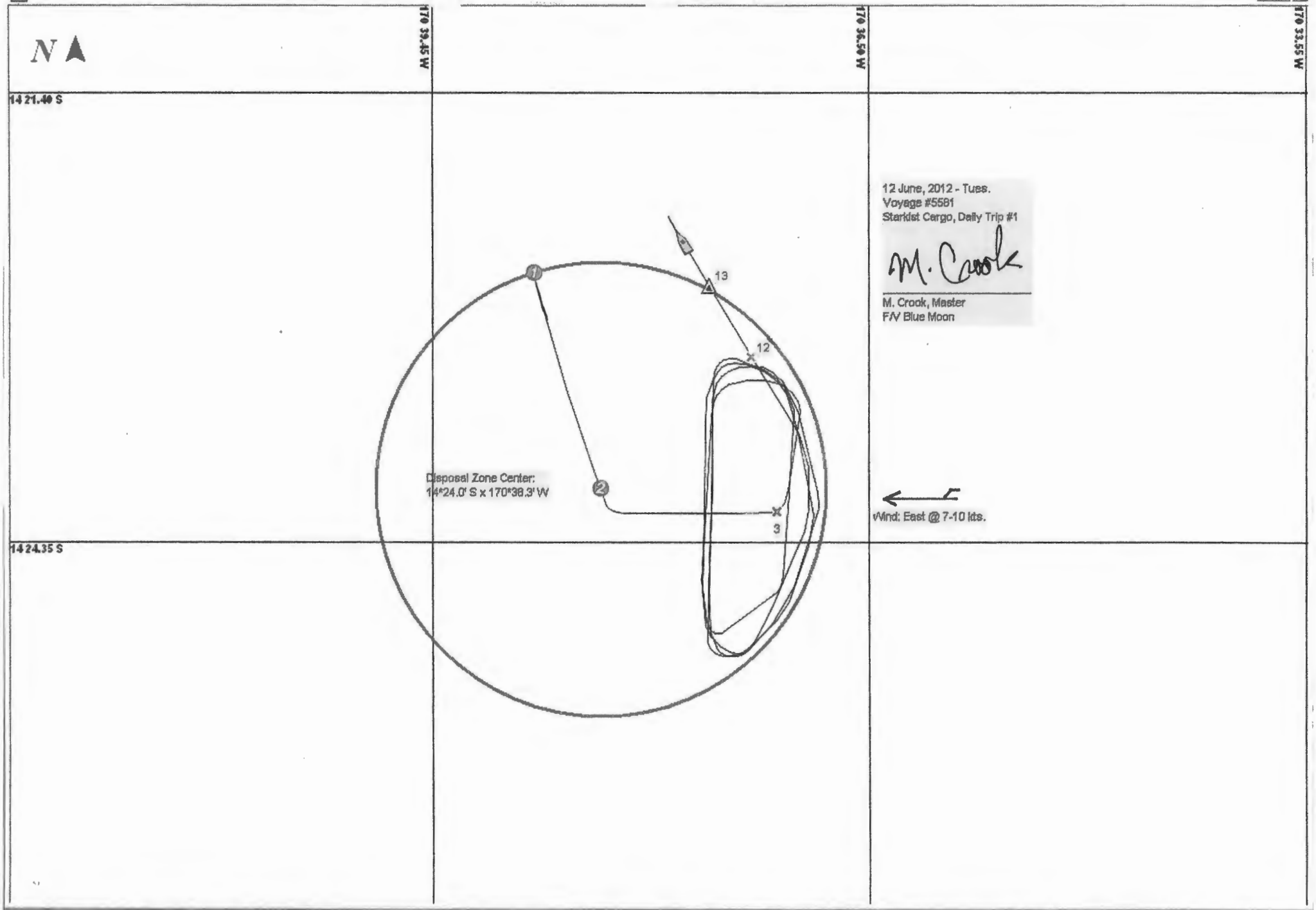
M. Crook

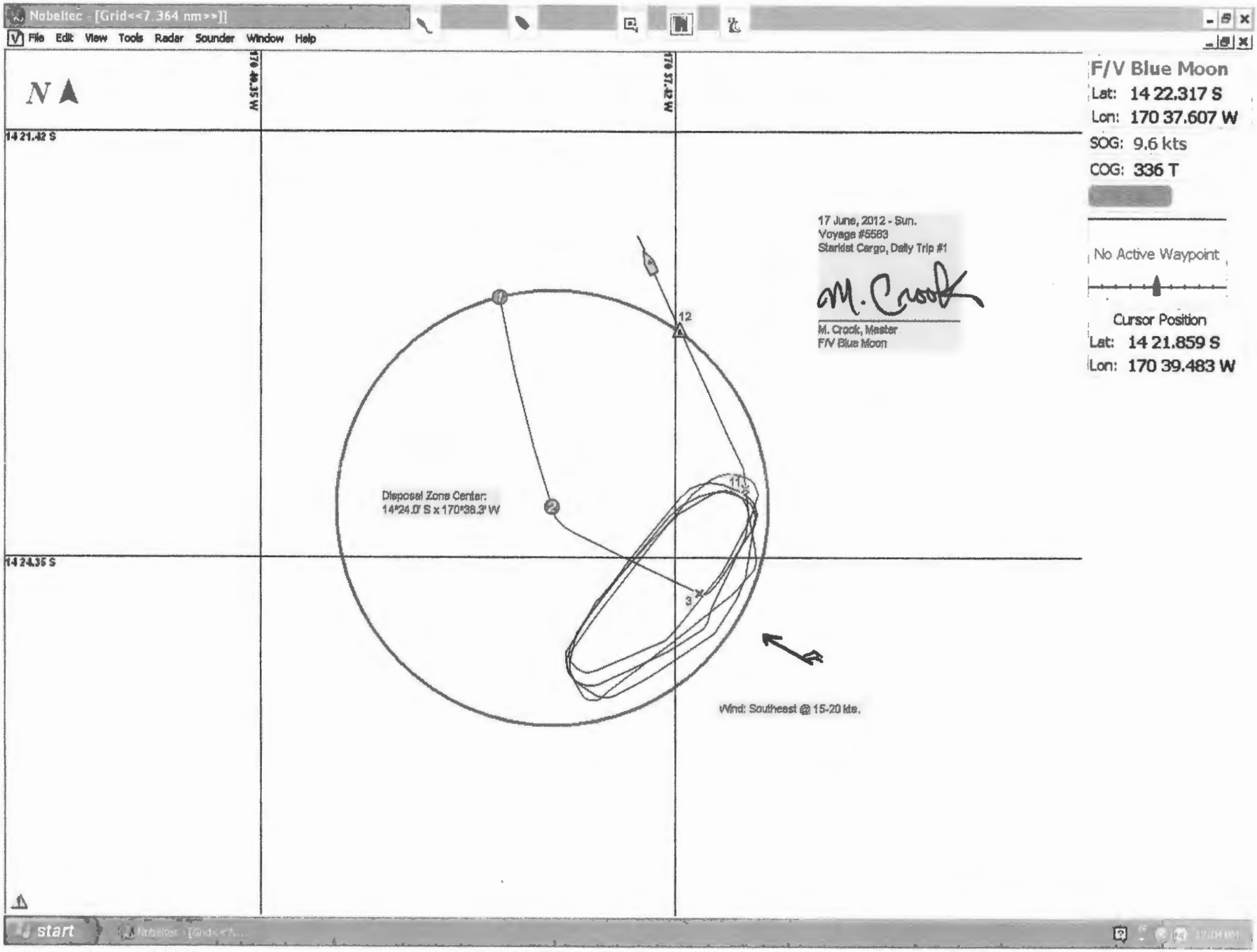
M. Crook, Master
F/V Blue Moon

Wind: East @ 7-10 kts.

start

File Edit View Tools Radar Sounder Window Help

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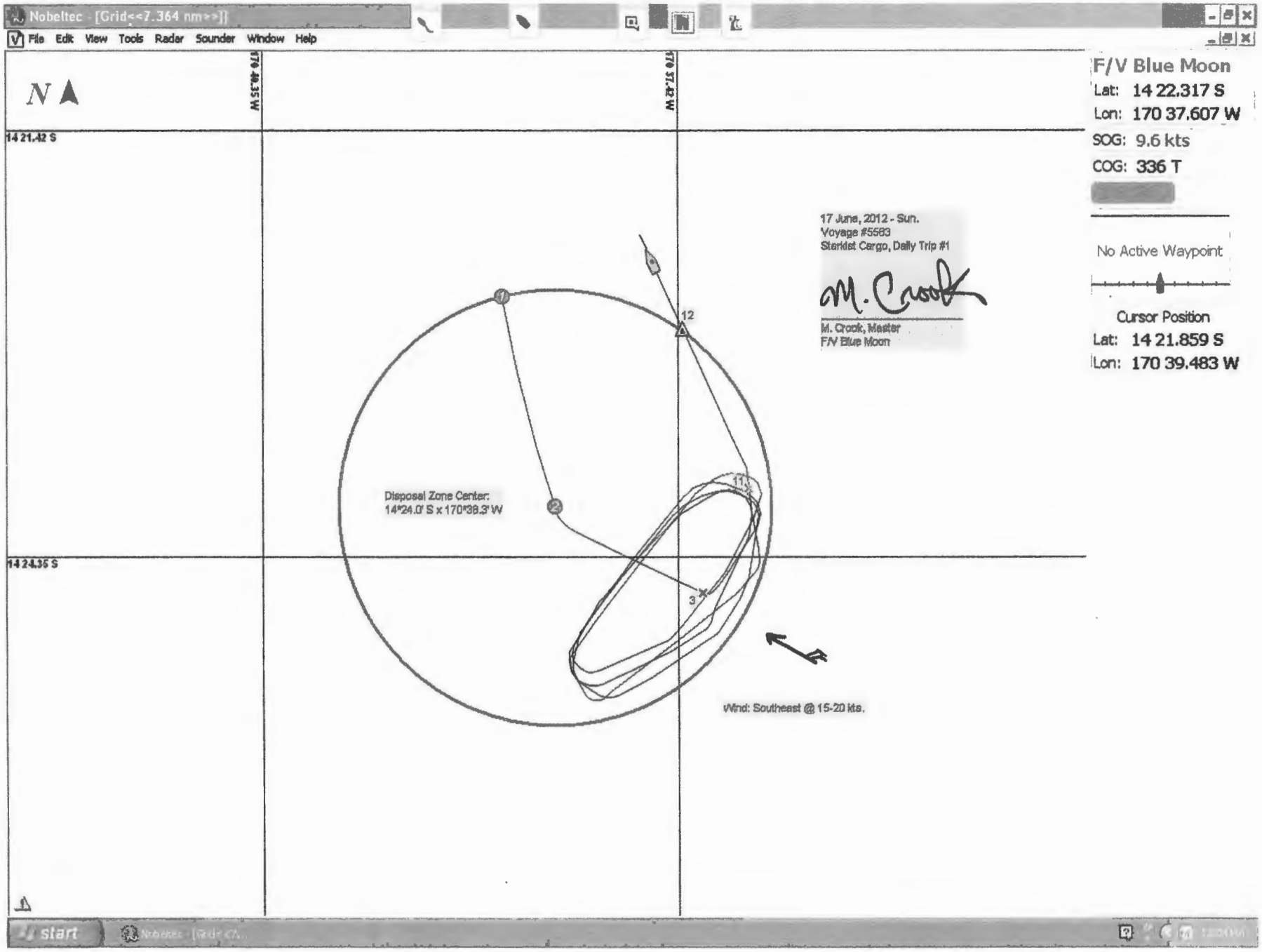
File Edit View Tools Radar Sounder Window Help
N
170 44.35 W
170 37.42 W
14 21.42 S
14 24.35 S
17 June, 2012 - Sun.
Voyage #5563
Starlist Cargo, Daily Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14°24.0' S x 170°38.3' W
Wind: Southeast @ 15-20 kts.
F/V Blue Moon
Lat: 14 22.317 S
Lon: 170 37.607 W
SOG: 9.6 kts
COG: 336 T
No Active Waypoint
Cursor Position
Lat: 14 21.859 S
Lon: 170 39.483 W
start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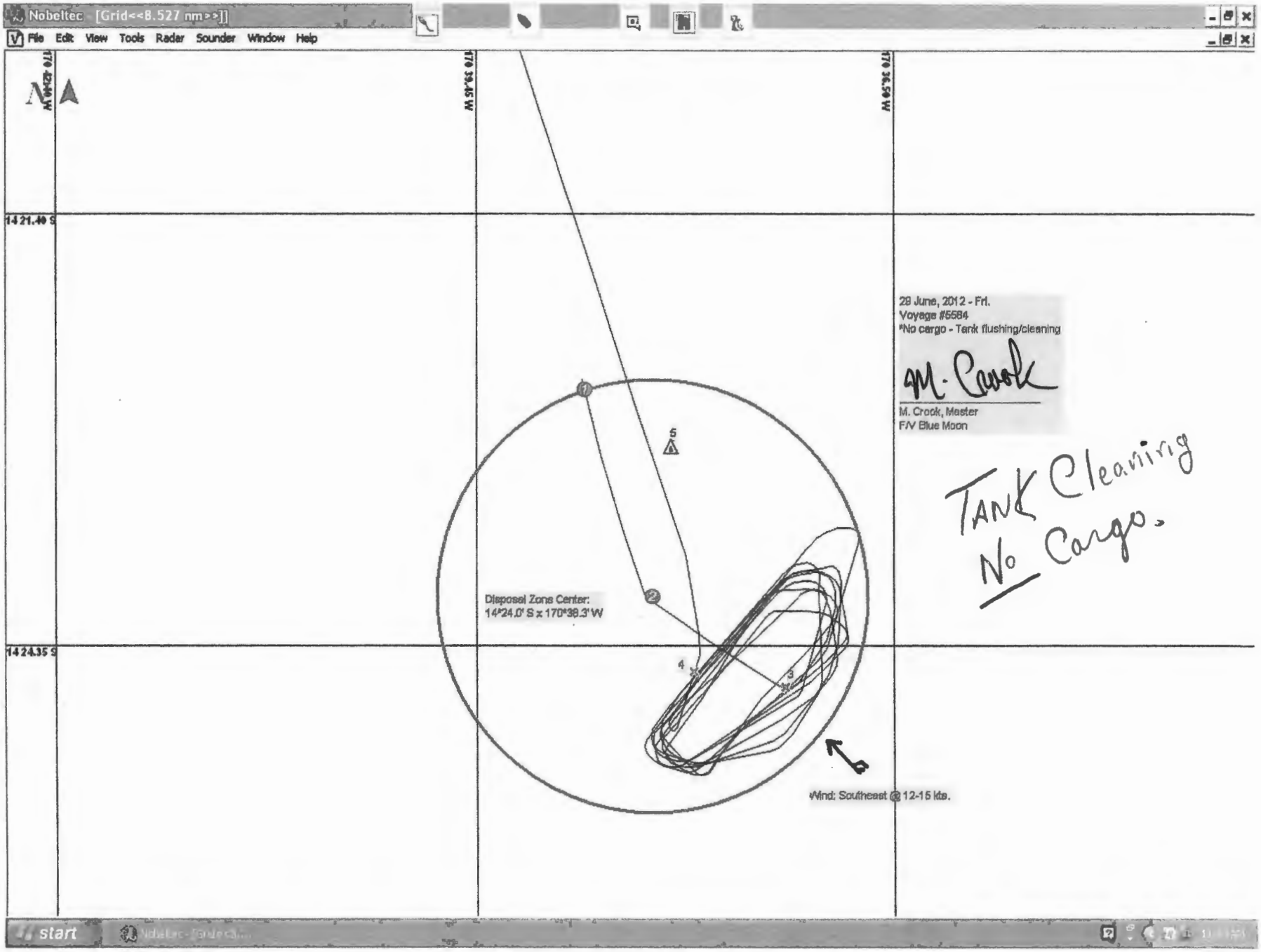
File Edit View Tools Radar Sounder Window Help
N
14 21.42 S
14 24.35 S
170 38.35 W
170 37.15 W
F/V Blue Moon
Lat: 14 22.317 S
Lon: 170 37.607 W
SOG: 9.6 kts
COG: 336 T
No Active Waypoint
Cursor Position
Lat: 14 21.859 S
Lon: 170 39.483 W
17 June, 2012 - Sun.
Voyage #5583
Starkist Cargo, Daily Trip #1
M. Crook, Master
F/V Blue Moon
Disposal Zone Center:
14°24.0' S x 170°38.3' W
Wind: Southeast @ 15-20 kts.
start



TANK Cleaning
No Cargo.