ASBESTOS SURVEY FORM

HULL NO: FFG-29 NAME: EX-STEVEN W.GROVES

DATES:10/27&28/14,11/3/14

STATUS: DISPOSAL CUSTODIAN: NISMO BERTHED:NISMO PHILA

NO. REPAIRS:25 NO.SPACE DANGER SIGNS: 0

NO. SAMPLE LOCATION DANGER SIGNS: 0

NO. AIR SAMPLES:28 NO. BULK SAMPLES:25

COMPARTMENT	NOMENCLATURE	FRIABLE	NON FRIABLE	N/A	NUMBER SPACE DANGER SIGNS	NUMBER SAMPLE SITE DANGER SIGNS	BULK SAMPLE NUMBER	PUMP AND AIR SAMPLE NUMBER
01-100-0-L	C.O. Stateroom		X					
01-100-2-C	Missile Launch Control		X					
01-108-2-L	C.O. Head		X					
01-108-4-L	Passageway		X					
01-111-0-L	Passageway		X					
01-111-2-A	C.O. Storeroom		X					
01-113-0-C	CIC		X					
01-140-0-C	Sonar Control		X					
01-140-1-Q	CIC Admin		X					
01-151-0-Q	Electrical Cooling Equipment Room		X					
01-156-0-C	Radio		X					
01-156-1-C	Transmitter Room		X					
01-180-0-Q	NAV AIR		X					
01-180-1-Q	Fan Room		X					
01-180-4-L	Passageway		X					
01-193-0-Q	STIR		X					
01-204-2-A	CMC Office		X					
01-212-0-L	Passageway		X				FFG29-01	HV-7 FFG29-26
01-212-2-L	Passageway		X					
01-215-2-L	X.O. Stateroom		X					

ASBESTOS SURVEY FORM

HULL NO: FFG-29 NAME: EX-STEVEN W. GROVES

COMPARTMENT	NOMENCLATURE	FRIABLE	NON FRIABLE	N/A	NUMBER SPACE DANGER SIGNS	NUMBER SAMPLE SITE DANGER SIGNS	BULK SAMPLE NUMBER	PUMP AND AIR SAMPLE NUMBER
01-224-2-L	X.O. Head		X					
01-231-0-M	76MM Mag		X					
01-238-2-C	76MM Control Station		X					
01-250-1-Q	1A Intake			X				
01-250-2-Q	1B Intake			X				
01-278-0-L	Barrel Cooling Room		X					
01-278-1-A	Sonobouy Storeroom #2		X					
01-285-0-Q	Helo Dept Office		X					
01-294-0-Q	Fan Room		X					
01-305-0-M	CIWS Mag		X					
01-308-1-T	CIWS Vestibule		X					
01-317-0-C	CIWS LCS		X					
01-324-0-C	Helo Control		X					
02-100-0-C	Pilot House		X					
02-112-2-L	Passageway		X					
02-116-1-Q	MK-92 Equip. Room		X					
02-116-2-C	Chart Room		X				FFG29-03	HV-9 FFG29-28
02-120-2-L	Head		X				FFG29-02	HV-8 FFG29-27
02-124-2-Q	Fan Room		X					
02-182-0-A	Fueling At Sea Locker		X					
1-100-0-Q	RICER		X					
1-100-1-Q	Fan Room		X					

ASBESTOS SURVEY FORM

HULL NO: FFG-29 NAME: EX-STEVEN W. GROVES

COMPARTMENT	NOMENCLATURE	FRIABLE	NON FRIABLE	N/A	NUMBER SPACE DANGER SIGNS	NUMBER SAMPLE SITE DANGER SIGNS	BULK SAMPLE NUMBER	PUMP AND AIR SAMPLE NUMBER
1-100-2-Q	Fan Room		X					
1-108-2-L	Passageway		X					
1-132-1-Q	SPS-49 Cooling Room		X					
1-133-2-Q	Gear Locker		X					
1-136-2-Q	Cleaning Gear Locker		X					
1-140-0-L	Stateroom		X					
1-140-1-L	Passageway		X					
1-140-2-L	Stateroom		X					
1-148-0-L	Passageway		X				FFG29-05	HV-26 FFG29-30
1-151-1-L	DECON Sta/Female Head		X				FFG29-04	HV-25 FFG29-29
1-152-1-Q	Fan Room		X					
1-153-1-L	Head		X					
1-156-2-L	Stateroom		X					
1-164-1-L	Stateroom		X					
1-164-2-L	Stateroom		X					
1-171-1-L	Stateroom		X					
1-172-2-L	Stateroom		X					
1-180-0-L	Wardroom		X					
1-198-1-Q	Wardroom Pantry		X					
1-200-2-Q	Fan Room		X				FFG29-06	HV-27 FFG29-31
1-212-0-L	Passageway		X				FFG29-07	HV-22 FFG29-32
1-220-0-M	Torpedo Mag		X					

ASBESTOS SURVEY FORM

HULL NO: FFG-29 NAME: EX-STEVEN W. GROVES

COMPARTMENT	NOMENCLATURE	FRIABLE	NON FRIABLE	N/A	NUMBER SPACE DANGER SIGNS	NUMBER SAMPLE SITE DANGER SIGNS	BULK SAMPLE NUMBER	PUMP AND AIR SAMPLE NUMBER
1-220-1-T	Trunk		X					
1-232-1-M	MK-25 Mag		X					
1-236-1-A	HALON Cylinder Storeroom		X					
1-240-1-K	Paint Locker		X					
1-250-1-Q	Intake Trunk #1		X					
1-250-2-Q	Intake Trunk #2		X					
1-250-3-L	Passageway		X					
1-250-4-L	Passageway		X					
1-253-2-Q	Helo Workshop		X					
1-255-1-M	SUS Mag		X					
1-258-0-Q	Uptake Space			X				
1-258-1-Q	Aft 400HZ Room		X					
1-258-3-Q	Battery Charger Room		X					
1-261-1	Plenum Chamber 1A		X					
1-261-2	Plenum Chamber 1B		X					
1-266-2-A	Sonobouy Storeroom #1		X					
1-278-1-Q	Helo Hanger #1		X					
1-278-2-Q	Helo Hanger #2		X					
2-Z-0-A	Bos'n Storeroom #1		X					
2-20-0-A	Bos'n Storeroom #2		X					
2-32-0-Q	Windlass Room		X					
2-36-2-T	Trunk			X				
2-40-2-L	Passageway		X					
2-44-2-A	Storeroom		X					

ASBESTOS SURVEY FORM

HULL NO: FFG-29 NAME: EX-STEVEN W. GROVES

COMPARTMENT	NOMENCLATURE	FRIABLE	NON FRIABLE	N/A	NUMBER SPACE DANGER SIGNS	NUMBER SAMPLE SITE DANGER SIGNS	BULK SAMPLE NUMBER	PUMP AND AIR SAMPLE NUMBER
2-48-1-A	Armory		X					
2-48-2-A	Electrical Tool Issue		X					
2-55-1-A	Repair 2		X					
2-64-0-L	Passageway		X					
2-79-0-C	CSMC/IC Gyro		X				FFG29-08	HV-24 FFG29-33
2-79-1-A	Athletic Gear Storeroom		X					
2-84-1-T	Trunk		X					
2-92-2-T	Trunk		X					
2-100-01-L	Berthing		X				FFG29-09	HV-23 FFG29-34
2-100-0-L	Lounge		X					
2-100-1-L	Passageway		X					
2-100-4-L	Passageway		X					
2-113-0-L	Head		X					
2-119-1-L	Cleaning Gear Locker		X					
2-140-01-L	Passageway (STBD)		X				FFG29-10	HV-7 FFG29-35 FIELD BLANK FFG29-35A
2-140-01-L	Passageway (PORT)		X				FFG29-11	HV-8 FFG29-36
2-140-0-Q	Barber Shop		X					
2-140-1-Q	Post Office		X					
2-140-2-Q	Registered Pub Vault		X					
2-140-4-Q	Ship's Store		X					
2-152-0-L	CPO Dressing Room		X					
2-152-2-L	Medical		X					
2-154-0-L	CPO Head		X					
2-168-2-L	CPO Lounge		X					
2-171-0-L	CPO Berthing		X					

ASBESTOS SURVEY FORM

HULL NO: FFG-29 NAME: EX-STEVEN W.GROVES

COMPARTMENT	NOMENCLATURE	FRIABLE	NON FRIABLE	N/A	NUMBER SPACE DANGER SIGNS	NUMBER SAMPLE SITE DANGER SIGNS	BULK SAMPLE NUMBER	PUMP AND AIR SAMPLE NUMBER
2-171-1-L	CPO Berthing		X					
2-171-3-L	CPO Berthing		X					
2-180-0-Q	Galley		X					
2-180-1-L	Passageway		X					
2-180-2-L	CPO Mess		X					
2-180-4-L	Passageway		X					
2-184-1-L	Cleaning Gear Locker		X					
2-187-2-T	Trunk		X					
2-188-1-Q	Galley Annex		X				FFG29-12	HV-9 FFG29-37
2-203-2-Q	Scullery		X					
2-208-2-T	Trunk		X					
2-209-1-Q	Dumb Waiter		X					
2-212-0-L	Crew's Mess		X				FFG29-13	HV-25 FFG29-38
2-212-1-L	Passageway		X					
2-212-2-T	Trunk		X					
2-220-1-Q	AFFF Station #1		X					
2-223-1-T	Trunk		X					
2-225-1-A	Repair 5		X					
2-237-1-Q	Trash Disposal Room		X					
2-244-2-Q	Fan Room		X					
2-245-2-Q	Cleaning Gear Locker		X					
2-250-0-L	Passageway		X					
2-278-2-Q	AFFF Station #2		X					
2-292-01-C	CCS		X					

ASBESTOS SURVEY FORM

HULL NO: FFG-29 NAME: EX-STEVEN W. GROVES

COMPARTMENT	NOMENCLATURE	FRIABLE	NON FRIABLE	N/A	NUMBER SPACE DANGER SIGNS	NUMBER SAMPLE SITE DANGER SIGNS	BULK SAMPLE NUMBER	PUMP AND AIR SAMPLE NUMBER
2-171-1-L	CPO Berthing		X					
2-171-3-L	CPO Berthing		X					
2-180-0-Q	Galley		X					
2-180-1-L	Passageway		X					
2-180-2-L	CPO Mess		X					
2-180-4-L	Passageway		X					
2-184-1-L	Cleaning Gear Locker		X					
2-187-2-T	Trunk		X					
2-188-1-Q	Galley Annex		X				FFG29-12	HV-9 FFG29-37
2-203-2-Q	Scullery		X					
2-208-2-T	Trunk		X					
2-209-1-Q	Dumb Waiter		X					
2-212-0-L	Crew's Mess		X				FFG29-13	HV-25 FFG29-38
2-212-1-L	Passageway		X					
2-212-2-T	Trunk		X					
2-220-1-Q	AFFF Station #1		X					
2-223-1-T	Trunk		X					
2-225-1-A	Repair 5		X					
2-237-1-Q	Trash Disposal Room		X					
2-244-2-Q	Fan Room		X					
2-245-2-Q	Cleaning Gear Locker		X					
2-250-0-L	Passageway		X					
2-278-2-Q	AFFF Station #2		X					
2-292-01-C	CCS		X					
2-292-0-L	Passageway		X					

ASBESTOS SURVEY FORM

HULL NO: FFG-29 NAME: EX-STEVEN W. GROVES

COMPARTMENT	NOMENCLATURE	FRIABLE	NON FRIABLE	N/A	NUMBER SPACE DANGER SIGNS	NUMBER SAMPLE SITE DANGER SIGNS	BULK SAMPLE NUMBER	PUMP AND AIR SAMPLE NUMBER
2-292-2-Q	General Workshop		X					
2-301-1-T	Trunk		X					
2-316-2-Q	Electrical Shop		X				FFG29-14	HV-26 FFG29-39
2-325-0-T	Trunk		X					
2-328-0-Q	LAN Storeroom		X					
2-328-0-Q	Ship's Office		X				FFG29-15	HV-27 FFG29-40
2-328-0-Q	COC		X					
2-328-0-Q	LMRC		X					
2-328-0-Q	Disbursing Office		X					
2-328-2-L	Passageway		X					
2-328-4-T	Trunk		X					
2-328-6-Q	Supply Support		X					
2-344-2-A	Repair 3		X					
2-355-2-K	Gas Cylinder Storeroom		X					
2-358-0-Q	LAN Equipment Room		X					
2-360-1-C	RAST Control Station		X					
2-363-2-Q	Head		X					
2-368-0-E	RAST Machinery Room		X				FFG29-16	HV-23 FFG29-41
2-368-01-L	Passageway		X					
2-368-1-A	Aviation Storeroom #1		X					
2-368-2-Q	Oil Lab		X					
2-376-2-A	Medical Storeroom #2		X					
2-383-2-J	Helo Refueling Room		X					

ASBESTOS SURVEY FORM

HULL NO: FFG-29 NAME: EX-STEVEN W. GROVES

COMPARTMENT	NOMENCLATURE	FRIABLE	NON FRIABLE	N/A	NUMBER SPACE DANGER SIGNS	NUMBER SAMPLE SITE DANGER SIGNS	BULK SAMPLE NUMBER	PUMP AND AIR SAMPLE NUMBER
2-388-2-Q	TACTAS		X					
2-390-1-A	Aviation Storeroom #2		X					
2-397-1-Q	NIXIE Room		X					
2-407-0-A	Aviation Storeroom #3		X					
3-32-1-K	Flammable Liquid Storeroom		X					
3-32-2-A	Security Force Issue Room		X					
3-36-2-T	Trunk		X					
3-40-2-A	Storeroom		X					
3-43-0-L	Passageway		X					
3-46-1-A	Storeroom		X					
3-48-2-A	Medical Storeroom		X					
3-49-0-Q	Sonar Dome Pressurization Sta		X					
3-53-2-A	Storeroom		X					
3-56-0-A	Storeroom		X					
3-59-2-A	Storeroom		X					
3-84-0-E	A/C Machinery Room		X					
3-93-1-Q	Fwd 400 Hz Room		X					
3-100-0-L	Berthing		X					
3-100-1-L	Berthing		X					
3-113-0-L	Head		X					
3-140-0-L	Head		X					
3-140-1-L	Passageway		X					
3-140-2-L	Berthing		X					

ASBESTOS SURVEY FORM

HULL NO: FFG-29 NAME: EX-STEVEN W. GROVES

COMPARTMENT	NOMENCLATURE	FRIABLE	NON FRIABLE	N/A	NUMBER SPACE DANGER SIGNS	NUMBER SAMPLE SITE DANGER SIGNS	BULK SAMPLE NUMBER	PUMP AND AIR SAMPLE NUMBER
3-140-3-L	Cleaning Gear Locker		X					
3-144-0-L	Berthing		X				FFG29-17	HV-24 FFG29-42
3-144-0-L	Lounge		X					
3-144-0-L	Head		X					
3-154-1-Q	Piping Space		X					
3-156-2-Q	Piping Space		X					
3-180-0-A	Frozen Storeroom		X					
3-180-1-A	Chill Storeroom		X					
3-180-2-C	Switchboard #1		X					
3-180-3-A	Chill Storeroom		X					
3-180-5-A	Dry Provision Storeroom		X				FFG29-18	HV-22 FFG29-43
3-188-0-L	Passageway		X					
3-196-2-A	Ship's Store Storeroom		X					
3-200-2-E	Elevator Machinery Room		X				FFG29-19	HV--8 FFG29-44
3-250-1-T	Trunk		X					
3-250-2-T	Trunk		X					
3-325-0-T	Trunk		X					
3-328-0-A	Supply Storeroom (GSK)		X					
4-32-0-Q	Sonar Equipment Room		X					
4-48-1-Q	Sonar Cooling Equip Room		X					
4-48-2-L	Passageway		X					
4-56-0-M	Small Arms Mag		X					

ASBESTOS SURVEY FORM

HULL NO: FFG-29 NAME: EX-STEVEN W. GROVES

COMPARTMENT	NOMENCLATURE	FRIABLE	NON FRIABLE	N/A	NUMBER SPACE DANGER SIGNS	NUMBER SAMPLE SITE DANGER SIGNS	BULK SAMPLE NUMBER	PUMP AND AIR SAMPLE NUMBER
4-56-2-A	Deck Gear Storeroom		X					
4-64-0-Q	Mag Service Room		X					
4-100-0-E	APU Machinery Room		X					
4-140-0-Q	Laundry		X				FFG29-20	HV--9 FFG29-45 FIELD BLANK FFG29-45A
4-140-4-L	Passageway		X					
4-140-2-A	Laundry Storeroom #2		X					
4-140-3-A	Laundry Storeroom #1		X					
4-144-1-T	Trunk		X					
4-152-1-A	Chemical Warfare Storeroom		X					
4-160-0-Q	CHT Pump Room		X					
4-172-1-E	Fire Pump Room		X					
4-208-2-T	Trunk			X				
5-51-0-Q	Eductor Room		X					
5-180-0-E	Aux Machinery Room #1		X				FFG29-21	HV--25 FFG29-46
5-212-0-E	Aux Machinery Room #2		X				FFG29-22	HV--27 FFG29-47
5-250-0-E	Main Engine Room U/L		X				FFG29-23	HV--23 FFG29-48
5-250-0-E	Main Engine Room L/L		X				FFG29-24	HV--22 FFG29-49
5-292-0-E	Aux Machinery Room #3		X				FFG29-25	HV--24 FFG29-50 FIELD BLANK FFG29-50A
5-368-01-E	After Steering		X					
5-370-1-A	E-Division Storage Cage		X					
5-376-1-A	MP Division Storage Cage		X					
5-390-1-A	Storeroom		X					

OrderID: 041433218

EMSL ANALYTICAL INC.
CHAIN OF CUSTODY RECORD

RECEIVED
EMSL CINNAMINSON, NJ
2014 NOV -7 P 12:57

Client:
Global - NISMO
Building #545 Navy Yard
Philadelphia, PA 19112-5095

041433218

Point of Contact
James Sirles
Phone Number:
(215) 897-6745

Project I.D. EX Steven W. Groves
EX-GROVES (FFG 29)

TDL NO. 149-0501
(PRE/POST Asbestos Survey)

P.O. Number: PHL15-0050

Date & Time Results Required
1-week turn

Special Instructions / Comments:
FAX (215) 897-6297

Field Sample No.	Analyze	Sample Type	Analysis Requested	Description
FFG29-26	ASB	AIR	PCM	01-212-0-L PASSAGEWAY
FFG29-27	ASB	AIR	PCM	02-120-2-L HEAD
FFG29-28	ASB	AIR	PCM	02-116-2-C CHART ROOM
FFG29-29	ASB	AIR	PCM	1-151-1-L DECON STA / FEMALE HEAD
FFG29-30	ASB	AIR	PCM	1-148-0-L PASSAGEWAY
FFG29-31	ASB	AIR	PCM	1-200-2-Q FAN ROOM
FFG29-32	ASB	AIR	PCM	1-212-0-L PASSAGEWAY
FFG29-33	ASB	AIR	PCM	2-79-0-C CSMC / IC GYRO
FFG29-34	ASB	AIR	PCM	2-100-01-L BERTHING
FFG29-35	ASB	AIR	PCM	2-140-01-L PASSAGEWAY (STBD)
FFG29-35A	ASB	AIR	PCM	2-140-01-L FIELD BLANK PASSAGEWAY (STBD)
FFG29-36	ASB	AIR	PCM	2-140-01-L PASSAGEWAY (PORT)
FFG29-37	ASB	AIR	PCM	2-188-1-Q GALLEY ANNEX
FFG29-38	ASB	AIR	PCM	2-212-0-L CREW'S MESS
FFG29-39	ASB	AIR	PCM	2-316-2-Q ELECTRICAL SHOP
FFG29-40	ASB	AIR	PCM	2-328-0-Q SHIP'S OFFICE
FFG29-41	ASB	AIR	PCM	2-368-0-E RAST MACHINERY ROOM
FFG29-42	ASB	AIR	PCM	3-144-0-L BERTHING
FFG29-43	ASB	AIR	PCM	3-180-5-A DRY PROVISION STOREROOM
FFG29-44	ASB	AIR	PCM	3-200-2-E ELEVATOR MACHINERY ROOM
FFG29-45	ASB	AIR	PCM	4-140-0-Q LAUNDRY
FFG29-45A	ASB	AIR	PCM	4-140-0-LQ FIELD BLANK LAUNDRY
FFG29-46	ASB	AIR	PCM	5-180-0-E AUX MACHINERY ROOM # 1
FFG29-47	ASB	AIR	PCM	5-212-0-E AUX MACHINERY ROOM # 2

Collected by:
J. King /G. Goins/ R. Dorton

Received by/Chain of Custody Initiated by:jas

Date/Time:

Relinquished by:
JAMES SIRLES

Date: 11/7/14
Time: 1255

Received by:

Submitted to Lab by:
PICK – UP

Date: 11/7/14
Time: 12:55

Received at Lab by:
Chalen Courier

Pre-Logged by:

Prepared by:

Analyzed by:

Data Validated by:

Rush Report by:

Date/Time

Posted-Logged by:

Data Processed by:

Report Reviewed by:

Report Approved by:

280

OrderID: 041433218

EMSL ANALYTICAL INC.
CHAIN OF CUSTODY RECORD

RECEIVED
CINNAMINSON, N.J.
2014 NOV -7 P 12:57

Client:
Global Associates - NISMF
Building #545 Navy Yard
Philadelphia, PA 19112-5095

041433218

Point of Contact
James Sirles
Phone Number:
(215) 897-6297

Project I.D. EX STEVEN W. GROVES
~~EX-GROVES (FFG 29)~~

TDL NO. 149-0501
(PRE/POST Asbestos Survey)

P.O. Number: PHL15-0050

Date & Time Results Required
1 WEEK TURN

Special Instructions / Comments:
FAX (215) 897-5625

Field Sample No.	Analyze	Sample Type	Analysis Requested	Description
FFG29-48	ASB	AIR	PCM	5-250-0-E MAIN ENGINE ROOM U/L
FFG29-49	ASB	AIR	PCM	5-250-0-E MAIN ENGINE ROOM L/L
FFG29-50	ASB	AIR	PCM	5-292-0-E AUX MACHINERY ROOM # 3
FFG29-50A	ASB	AIR	PCM	5-292-0-E FIELD BLANK AUX MACHINERY ROOM # 3
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	
	ASB	AIR	PCM	

Collected by:
J. King /G. Goins

Received by/Chain of Custody Initiated by:JAS

Date/Time:

Relinquished by: JAMES SIRLES | Date | Time | Received by:

Submitted to Lab by: PICK – UP | Date | Time | Received at Lab by:

Pre-Logged by: | Prepared by: | Analyzed by:

Data Validated by: | Rush Report by: | Date/Time | Posted-Logged by:

Data Processed by: | Report Reviewed by: | Report Approved by:

OrderID: 041433218

ASBESTOS SURVEY FORM

EX - STEVEN W. GROVES 9/

SHIP: ~~EX-GROVES FFG-29~~ FFG-29

DATE: OCT 27-28, NOV 3, 2014

PUMP #: HV-7

AIR SAMPLE #: FFG29-26

AREA: 01-212-0-L PASSAGEWAY

BULK SAMPLE #: FFG29-01

START TIME: 0825

STOP TIME: 1025

FLOW RATE: 11.09

TOTAL VOLUME: 1330.8

PUMP #: HV-8

AIR SAMPLE #: FFG29-27

AREA: 02-120-2-L HEAD

BULK SAMPLE #: FFG29-02

START TIME: 0827

STOP TIME: 1027

FLOW RATE: 12.38

TOTAL VOLUME: 1485.6

PUMP #: HV-9

AIR SAMPLE #: FFG29-28

AREA: 02-116-2-C CHART ROOM

BULK SAMPLE #: FFG29-03

START TIME: 0829

STOP TIME: 1029

FLOW RATE: 14.24

TOTAL VOLUME: 1708.8

PUMP #: HV-25

AIR SAMPLE #: FFG29-29

AREA: 1-151-1-L DECON STA / FEMALE HEAD

BULK SAMPLE #: FFG29-04

START TIME: 0829

STOP TIME: 1029

FLOW RATE: 12.90

TOTAL VOLUME: 1548

J.KING / R.DORTON

PERSON CONDUCTING SURVEY

OrderID: 041433218

ASBESTOS SURVEY FORM

SHIP: ~~EX-GROVES~~ Ex-Steven W. Groves FFG-29 94 DATE: OCT 27-28, NOV 3, 2014

PUMP #: HV-26 AIR SAMPLE #: FFG29-30

AREA: 1-148-0-L PASSAGEWAY BULK SAMPLE #: FFG29-05

START TIME: 0830

STOP TIME: 1030

FLOW RATE: 11.96

TOTAL VOLUME: 1435.2

PUMP #: HV-27 AIR SAMPLE #: FFG29-31

AREA: 1-200-2-O FAN ROOM BULK SAMPLE #: FFG29-06

START TIME: 0831

STOP TIME: 1031

FLOW RATE: 12.14

TOTAL VOLUME: 1456.8

PUMP #: HV-22 AIR SAMPLE #: FFG29-32

AREA: 1-212-0-L PASSAGEWAY BULK SAMPLE #: FFG29-07

START TIME: 0830

STOP TIME: 1030

FLOW RATE: 11.59

TOTAL VOLUME: 1390.8

PUMP #: HV-24 AIR SAMPLE #: FFG29-33

AREA: 2-79-0-C CSMC / IC GYRO BULK SAMPLE #: FFG29-08

START TIME: 0838

STOP TIME: 1038

FLOW RATE: 11.44

TOTAL VOLUME: 1372.8

J.KING / R.DORTON

PERSON CONDUCTING SURVEY

OrderID: 041433218

EX-Steven W. Groves

ASBESTOS SURVEY FORM

SHIP: ~~EX-GROVES~~ FFG-29 DATE: OCT 27-28, NOV 3, 2014

PUMP #: HV-23 AIR SAMPLE #: FFG29-34

AREA: 2-100-01-L BERTHING BULK SAMPLE #: FFG29-09

START TIME: 0843

STOP TIME: 1043

FLOW RATE: 11.20

TOTAL VOLUME: 1344

PUMP #: HV-7 AIR SAMPLE #: FFG29-35

AREA: 2-140-01-L PASSAGEWAY (STBD) BULK SAMPLE #: FFG29-10

START TIME: 1232

STOP TIME: 1432

FLOW RATE: 11.09

TOTAL VOLUME: 1330.8

PUMP #: FIELD BLANK AIR SAMPLE #: FFG29-35A

AREA: 2-140-01-L PASSAGEWAY (STBD) BULK SAMPLE #: N/A

START TIME:

STOP TIME:

FLOW RATE:

TOTAL VOLUME:

PUMP #: HV-8 AIR SAMPLE #: FFG29-36

AREA: 2-140-01-L PASSAGEWAY (PORT) BULK SAMPLE #: FFG29-11

START TIME: 1235

STOP TIME: 1435

FLOW RATE: 12.38

TOTAL VOLUME: 1485.6

J.KING / R.DORTON
PERSON CONDUCTING SURVEY

OrderID: 041433218

ASBESTOS SURVEY FORM

EX-Steven W. Groves

SHIP: ~~EX-GROVES~~ FFG-29 DATE: OCT 27-28, NOV 3, 2014

PUMP #: HV-9 AIR SAMPLE #: FFG29-37

AREA: 2-188-1-Q GALLEY ANNEX BULK SAMPLE #: FFG29-12

START TIME: 1238

STOP TIME: 1438

FLOW RATE: 14.24

TOTAL VOLUME: 1708.8

PUMP #: HV-25 AIR SAMPLE #: FFG29-38

AREA: 2-212-0-L CREW'S MESS BULK SAMPLE #: FFG29-13

START TIME: 1229

STOP TIME: 1429

FLOW RATE: 12.90

TOTAL VOLUME: 1548

PUMP #: HV-26 AIR SAMPLE #: FFG29-39

AREA: 2-316-2-Q ELECTRICAL SHOP BULK SAMPLE #: FFG29-14

START TIME: 1231

STOP TIME: 1434

FLOW RATE: 11.96

TOTAL VOLUME: 1435.2

PUMP #: HV-27 AIR SAMPLE #: FFG29-40

AREA: 2-328-0-Q SHIP'S OFFICE BULK SAMPLE #: FFG29-15

START TIME: 1232

STOP TIME: 1432

FLOW RATE: 12.14

TOTAL VOLUME: 1456.8

J.KING / R.DORTON

PERSON CONDUCTING SURVEY

OrderID: 041433218

ASBESTOS SURVEY FORM

EX-Steven W. Groves

SHIP: ~~EX-GROVES~~ FFG-29 DATE: OCT 27-28, NOV 3, 2014

PUMP #: HV-23 AIR SAMPLE #: FFG29-41

AREA: 2-368-0-E RAST MACHINERY ROOM BULK SAMPLE #: FFG29-16

START TIME: 1235

STOP TIME: 1435

FLOW RATE: 11.20

TOTAL VOLUME: 1344

PUMP #: HV-24 AIR SAMPLE #: FFG29-42

AREA: 3-144-0-L BERTHING BULK SAMPLE #: FFG29-17

START TIME: 1247

STOP TIME: 1447

FLOW RATE: 11.44

TOTAL VOLUME: 1372.8

PUMP #: HV-22 AIR SAMPLE #: FFG29-43

AREA: 3-180-5-A DRY PROVISION STOREROOM BULK SAMPLE #: FFG29-18

START TIME: 1240

STOP TIME: 1440

FLOW RATE: 11.59

TOTAL VOLUME: 1390.8

PUMP #: HV-8 AIR SAMPLE #: FFG29-44

AREA: 3-200-2-E ELEVATOR MACHINERY ROOM BULK SAMPLE #: FFG29-19

START TIME: 1226

STOP TIME: 1426

FLOW RATE: 12.38

TOTAL VOLUME: 1485.6

J.KING / R.DORTON
PERSON CONDUCTING SURVEY

OrderID: 041433218

ASBESTOS SURVEY FORM

Ex-Steven W. Groves

SHIP: ~~EX-GROVES~~ FFG-29 **DATE:** OCT 27-28, NOV 3, 2014

PUMP #: HV-9 **AIR SAMPLE #:** FFG29-45

AREA: 4-140-0-Q LAUNDRY **BULK SAMPLE #:** FFG29-20

START TIME: 1230

STOP TIME: 1430

FLOW RATE: 14.24

TOTAL VOLUME: 1708.8

PUMP #: FIELD BLANK **AIR SAMPLE #:** FFG29-45A

AREA: 4-140-0-Q LAUNDRY **BULK SAMPLE #:** N/A

START TIME:

STOP TIME:

FLOW RATE:

TOTAL VOLUME:

PUMP #: HV-25 **AIR SAMPLE #:** FFG29-46

AREA: 5-180-0-E AUX MACHINERY ROOM #1 **BULK SAMPLE #:** FFG29-21

START TIME: 1226

STOP TIME: 1426

FLOW RATE: 12.90

TOTAL VOLUME: 1548

PUMP #: HV-27 **AIR SAMPLE #:** FFG29-47

AREA: 5-212-0-E AUX MACHINERY ROOM #2 **BULK SAMPLE #:** FFG29-22

START TIME: 1228

STOP TIME: 1428

FLOW RATE: 12.14

TOTAL VOLUME: 1456.8

J.KING / R.DORTON
PERSON CONDUCTING SURVEY

OrderID: 041433218

ASBESTOS SURVEY FORM

Ex-Steven W. Groves

SHIP: ~~EX-GROVES~~ FFG-29 DATE: OCT 27-28, NOV 3, 2014

PUMP #: HV-23 AIR SAMPLE #: FFG29-48

AREA: 5-250-0-E MAIN ENGINE ROOM U/L BULK SAMPLE #: FFG29-23

START TIME: 1230

STOP TIME: 1430

FLOW RATE: 11.20

TOTAL VOLUME: 1344

PUMP #: HV-22 AIR SAMPLE #: FFG29-49

AREA: 5-250-0-E MAIN ENGINE ROOM L/L BULK SAMPLE #: FFG29-24

START TIME: 1234

STOP TIME: 1434

FLOW RATE: 11.59

TOTAL VOLUME: 1390.8

PUMP #: HV-24 AIR SAMPLE #: FFG29-50

AREA: 5-292-0-E AUX MACHINERY ROOM #3 BULK SAMPLE #: FFG29-25

START TIME: 1241

STOP TIME: 1441

FLOW RATE: 11.44

TOTAL VOLUME: 1372.8

PUMP #: FIELD BLANK AIR SAMPLE #: FFG29-50A

AREA: 5-292-0-E AUX MACHINERY ROOM #3 BULK SAMPLE #: N/A

START TIME:

STOP TIME:

FLOW RATE:

TOTAL VOLUME:

J.KING / R.DORTON
PERSON CONDUCTING SURVEY

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
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http://www.EMSL.com cinnasblab@EMSL.com

EMSL Order:	041433218
CustomerID:	GLOB50
CustomerPO:	PHL15-0050
ProjectID:	

Jim Sirles
Global Associates
Naval Business Center
4701 S. 16th Street, Bldg. 545
Philadelphia, PA 19112-5095

Phone:	(215) 897-2097
Fax:	(215) 897-6297
Received:	11/07/14 12:55 PM
Analysis Date:	11/7/2014
Collected:	11/3/2014

Project: **Building #545 Navy Yard / Philadelphia, PA 19112-5095 / EX-STEVEN. W. GROVES (FFG 29) / TDL #149-0501**

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

Sample	*Location*	*Sample Date*	*Volume (liters)*	*Fibers*	*Fields*	*LOD (fib/cc)*	*Fibers/ mm²*	*Fibers/ cc*	*Notes*
FFG29-26 *041433218-0001*	- 01-212-0-L Passageway	10/27/2014	1330.80	<5.5	100	0.002	<7.0	<0.002	
FFG29-27 *041433218-0002*	- 02-120-2-L Head	10/27/2014	1485.60	<5.5	100	0.002	<7.0	<0.002	
FFG29-28 *041433218-0003*	- 02-116-2-C Chart Room	10/27/2014	1708.80	<5.5	100	0.002	<7.0	<0.002	
FFG29-29 *041433218-0004*	- 1-151-1-L Decon Sta / Female Head	10/27/2014	1548.00	<5.5	100	0.002	<7.0	<0.002	
FFG29-30 *'33218-0005*	- 1-148-0-L Passageway	10/27/2014	1435.20	<5.5	100	0.002	<7.0	<0.002	
FFG29-31 *041433218-0006*	- 1-200-2-Q Fan Room	10/27/2014	1456.80	<5.5	100	0.002	<7.0	<0.002	
FFG29-32 *041433218-0007*	- 1-212-0-L Passageway	10/27/2014	1390.80	7	100	0.002	8.92	0.002	
FFG29-33 *041433218-0008*	- 2-79-0-C CSMC / IC Gyro	10/27/2014	1372.80	<5.5	100	0.002	<7.0	<0.002	
FFG29-34 *041433218-0009*	- 2-100-01-L Berthing	10/27/2014	1344.00	<5.5	100	0.002	<7.0	<0.002	
FFG29-35 *041433218-0010*	- 2-140-01-L Passageway (STBD)	10/27/2014	1330.80	<5.5	100	0.002	<7.0	<0.002	

Analyst(s)

Susan Muir (28)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.31, 21-50 fibers = 0.30, 51-100 fibers = 0.25. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. The results in this report meet all requirements of the NELAC standards unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NYS ELAP 10872, AIHA-LAP, LLC--IHLAP Accredited #100194, NJ DEP 03036, PA ID# 68-00367

Report Amended: 11/10/2014 14:27:48 Replaces the Inital Report 11/08/2014 00:54:45. Reason Code: Client-Change to Project

EMSL Analytical, Inc.
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EMSL Order:	041433218
CustomerID:	GLOB50
CustomerPO:	PHL15-0050
ProjectID:	

Jim Sirles
Global Associates
Naval Business Center
4701 S. 16th Street, Bldg. 545
Philadelphia, PA 19112-5095

Phone:	(215) 897-2097
Fax:	(215) 897-6297
Received:	11/07/14 12:55 PM
Analysis Date:	11/7/2014
Collected:	11/3/2014

Project: **Building #545 Navy Yard / Philadelphia, PA 19112-5095 / EX-STEVEN. W. GROVES (FFG 29) / TDL #149-0501**

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc	Notes
FFG29-35A 041433218-0011	- 2-140-01-L Field Blank Passageway (STBD)	10/27/2014		<5.5	100		<7.0		Field Blank
FFG29-36 041433218-0012	- 2-140-01-L Passageway (Port)	10/28/2014	1485.60	<5.5	100	0.002	<7.0	<0.002	
FFG29-37 041433218-0013	- 2-188-1-Q Galley Annex	10/28/2014	1708.80	<5.5	100	0.002	<7.0	<0.002	
FFG29-38 041433218-0014	- 2-212-0-L Crew's Mess	10/28/2014	1548.00	<5.5	100	0.002	<7.0	<0.002	
FFG29-39 '33218-0015	- 2-316-2-Q Electrical Shop	10/28/2014	1435.20	<5.5	100	0.002	<7.0	<0.002	
FFG29-40 041433218-0016	- 2-328-0-Q Ship's Office	10/28/2014	1456.80	<5.5	100	0.002	<7.0	<0.002	
FFG29-41 041433218-0017	- 2-368-0-E Rast Machinery Room	10/28/2014	1344.00	<5.5	100	0.002	<7.0	<0.002	
FFG29-42 041433218-0018	- 3-144-0-L Berthing	10/28/2014	1372.80	6	100	0.002	7.64	0.002	
FFG29-43 041433218-0019	- 3-180-5-A Dry Provision Storeroom	10/28/2014	1390.80	<5.5	100	0.002	<7.0	<0.002	
FFG29-44 041433218-0020	- 3-200-2-E Elevator Machinery Room	10/28/2014	1485.60	<5.5	100	0.002	<7.0	<0.002	

Analyst(s)

Susan Muir (28)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.31, 21-50 fibers = 0.30, 51-100 fibers = 0.25. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. The results in this report meet all requirements of the NELAC standards unless otherwise noted. Samples received in good condition unless otherwise noted.

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Report Amended: 11/10/2014 14:27:48 Replaces the Inital Report 11/08/2014 00:54:45. Reason Code: Client-Change to Project

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EMSL Order:	041433218
CustomerID:	GLOB50
CustomerPO:	PHL15-0050
ProjectID:	

Jim Sirles
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4701 S. 16th Street, Bldg. 545
Philadelphia, PA 19112-5095

Phone:	(215) 897-2097
Fax:	(215) 897-6297
Received:	11/07/14 12:55 PM
Analysis Date:	11/7/2014
Collected:	11/3/2014

Project: **Building #545 Navy Yard / Philadelphia, PA 19112-5095 / EX-STEVEN. W. GROVES (FFG 29) / TDL #149-0501**

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94*

Sample	*Location*	*Sample Date*	*Volume (liters)*	*Fibers*	*Fields*	*LOD (fib/cc)*	*Fibers/ mm²*	*Fibers/ cc*	*Notes*
FFG29-45 *041433218-0021*	- 4-140-0-Q Laundry	10/28/2014	1708.80	<5.5	100	0.002	<7.0	<0.002	
FFG29-45A *041433218-0022*	- 4-140-0-Q Field Blank Laundry	10/28/2014		<5.5	100		<7.0		Field Blank
FFG29-46 *041433218-0023*	- 5-180-0-E Aux Machinery Room #1	11/3/2014	1548.00	7	100	0.002	8.92	0.002	
FFG29-47 *041433218-0024*	- 5-212-0-E Aux Machinery Room #2	11/3/2014	1456.80	<5.5	100	0.002	<7.0	<0.002	
FFG29-48 *'33218-0025*	- 5-250-0-E Main Engine Room U/L	11/3/2014	1344.00	6	100	0.002	7.64	0.002	
FFG29-49 *041433218-0026*	- 5-250-0-E Main Engine Room L/L	11/3/2014	1390.80	<5.5	100	0.002	<7.0	<0.002	
FFG29-50 *041433218-0027*	- 5-292-0-E Aux Machinery Room #3	11/3/2014	1372.80	13	100	0.002	16.6	0.005	
FFG29-50A *041433218-0028*	- 5-292-0-E Field Blank Aux Machinery Room #3	11/3/2014		<5.5	100		<7.0		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s)
Susan Muir (28)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². Intra-laboratory Sr values: 5-20 fibers = 0.31, 21-50 fibers = 0.30, 51-100 fibers = 0.25. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. The results in this report meet all requirements of the NELAC standards unless otherwise noted. Samples received in good condition unless otherwise noted.

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Report Amended: 11/10/2014 14:27:48 Replaces the Inital Report 11/08/2014 00:54:45. Reason Code: Client-Change to Project

THIS IS THE LAST PAGE OF THE REPORT.

OrderID: 041433277

EMSL ANALYTICAL INC.
CHAIN OF CUSTODY RECORD

Client:
Global Associates - NISMF
Building #545 Navy Yard
Philadelphia, PA 19112-5095

041433277

Point of Contact
James Sirles
Phone Number:
(215) 897-6745

Project I.D. and EX-STEVEN W. Groves TDL NO. 149-0501 P.O. Number: PHL15-0050
EX-GROVES (FFG 29) (PRE/POST Asbestos Survey)

Date & Time Results Required
1-WEEK TURN

Special Instructions / Comments:
FAX (215) 897-6297

Field Sample No.	Analyze	Sample Type	Analysis Requested	Description
FFG29-01	ASB	BULK	PLM	01-212-0-L PASSAGEWAY
FFG29-02	ASB	BULK	PLM	02-120-2-L HEAD
FFG29-03	ASB	BULK	PLM	02-116-2-C CHART ROOM
FFG29-04	ASB	BULK	PLM	1-151-1-L DECON STA / FEMALE HEAD
FFG29-05	ASB	BULK	PLM	1-148-0-L PASSAGEWAY
FFG29-06	ASB	BULK	PLM	1-200-2-Q FAN ROOM
FFG29-07	ASB	BULK	PLM	1-212-0-L PASSAGEWAY
FFG29-08	ASB	BULK	PLM	2-79-0-C CSMC / IC GYRO
FFG29-09	ASB	BULK	PLM	2-100-01-L BERTHING
FFG29-10	ASB	BULK	PLM	2-140-01-L PASSAGEWAY (STBD)
FFG29-11	ASB	BULK	PLM	2-140-01-L PASSAGEWAY (PORT)
FFG29-12	ASB	BULK	PLM	2-188-1-Q GALLEY ANNEX
FFG29-13	ASB	BULK	PLM	2-212-0-L CREW'S MESS
FFG29-14	ASB	BULK	PLM	2-316-2-Q ELECTRICAL SHOP
FFG29-15	ASB	BULK	PLM	2-328-0-Q SHIP'S OFFICE
FFG29-16	ASB	BULK	PLM	2-368-0-E RAST MACHINERY ROOM
FFG29-17	ASB	BULK	PLM	3-144-0-L BERTHING
FFG29-18	ASB	BULK	PLM	3-180-5-A DRY PROVISION STOREROOM
FFG29-19	ASB	BULK	PLM	3-200-2-E ELEVATOR MACHINERY ROOM
FFG29-20	ASB	BULK	PLM	4-140-0-Q LAUNDRY
FFG29-21	ASB	BULK	PLM	5-180-0-E AUX MACHINERY ROOM #1
FFG29-22	ASB	BULK	PLM	5-212-0-E AUX MACHINERY ROOM #2
FFG29-23	ASB	BULK	PLM	5-250-0-E MAIN ENGINE ROOM U/L
FFG29-24	ASB	BULK	PLM	5-250-0-E MAIN ENGINE ROOM L/L

Collected by:
J. King /G. Goins/ R. Dorton

Received by/Chain of Custody Initiated by: JAS
Date/Time:

Relinquished by: JAMES SIRLES — Date: 11/7/14 — Time: 0920 — Received by: Tracy Tabb

Submitted to Lab by: PICK – UP — Date — Time — Received at Lab by: Courier 11/7/14 1255

Pre-Logged by: Prepared by: Analyzed by:

Data Validated by: Rush Report by: Date/Time Posted-Logged by:

Data Processed by: Report Reviewed by: Report Approved by:

250p

OrderID: 041433277

EMSL ANALYTICAL INC.
CHAIN OF CUSTODY RECORD

Client:
Global Associates - NISMF
Building #545 Navy Yard
Philadelphia, PA 19112-5095

041433277

Point of Contact
James Sirles
Phone Number:
(215) 897-6745

Project I.D. gs EX-STEVEN W. GROVES
~~EX-GROVES~~ (FFG 29)

TDL NO. 149-0501
(PRE/POST Asbestos Survey)

P .O. Number: PHL15-0050

Date & Time Results Required
1 WEEK TURN

Special Instructions / Comments:
FAX (215) 897-6297

Field Sample No.	Analyze	Sample Type	Analysis Requested	Description
FFG29-25	ASB	BULK	PLM	5-292-0-E / AUX MACHINERY ROOM #3
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	
	ASB	BULK	PLM	

RECEIVED
CINNAMINSON, N.J.
2014 NOV -7 P 12:57

Collected by:
J. King /G. Goins/R. Dorton

Received by/Chain of Custody Initiated by:JAS
Date/Time:

Relinquished by: JAMES SIRLES | Date | Time | Received by:

Submitted to Lab by: PICK – UP | Date | Time | Received at Lab by:

Pre-Logged by: | Prepared by: | Analyzed by:

Data Validated by: | Rush Report by: | Date/Time | Posted-Logged by:

Data Processed by: | Report Reviewed by: | Report Approved by:

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EMSL Order:	041433277
CustomerID:	GLOB50
CustomerPO:	PHL15-0050
ProjectID:	

Jim Sirles
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Received:	11/07/14 12:55 PM
Analysis Date:	11/13/2014
Collected:	

Project: **Building #545 Navy Yard / Philadelphia, PA 19112-5095 / EX-STEVEN W. GROVES (FFG29) / 149-0501**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous		% Non-Fibrous	% Type
FFG29-01-Wrap *041433277-0001*	- 01-212-0-L Passageway	White Fibrous Homogeneous	30%	Glass	70% Non-fibrous (other)	**None Detected**
FFG29-01-Insulation *041433277-0001A*	- 01-212-0-L Passageway	Yellow Fibrous Homogeneous	95%	Glass	5% Non-fibrous (other)	**None Detected**
FFG29-02-Wrap *041433277-0002*	- 02-120-2-L Head	White/Green Fibrous Homogeneous	50%	Glass	50% Non-fibrous (other)	**None Detected**
FFG29-02-Insulation *3277-0002A*	- 02-120-2-L Head	White Non-Fibrous Homogeneous	95%	Glass	5% Non-fibrous (other)	**None Detected**
FFG29-03-Wrap *041433277-0003*	- 02-116-2-C Chart Room	White Non-Fibrous Homogeneous	30%	Glass	70% Non-fibrous (other)	**None Detected**
FFG29-03-Insulation *041433277-0003A*	- 02-116-2-C Chart Room	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
FFG29-04-Wrap *041433277-0004*	- 1-151-1-L Decon STA/Female Head	Tan/White/Black Fibrous Homogeneous	60%	Glass	40% Non-fibrous (other)	**None Detected**
FFG29-04-Insulation *041433277-0004A*	- 1-151-1-L Decon STA/Female Head	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**

Analyst(s)
Chelsey Bilhear (49)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY

Initial report from 11/14/2014 00:21:05