



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE

5636 Southern Boulevard, Virginia Beach, Virginia 23462

(757) 518-2000 Fax (757) 518-2009

www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Maria R. Nold
Regional Director

Permit Number: VA0025216
Effective Date: September 1, 2015
Expiration Date: August 31, 2020

AUTHORIZATION TO DISCHARGE UNDER THE
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this cover page, and Parts I and II of this permit, as set forth herein.

Owner: Joint Base Langley Eustis - Eustis
Facility Name: Joint Base Langley Eustis - Eustis
City: Fort Eustis
County: N/A
Facility Location: 1407 Washington Boulevard, ATZF-PWE
Fort Eustis, Virginia 23604

The owner is authorized to discharge to the following receiving stream:

Stream: See Attachment I
River Basin:
River Subbasin:
Section:
Class:
Special Standards:

Maria R. Nold

Date

ATTACHMENT I

Outfall Numbers

Receiving Stream(s)

051, 064, 065, 114, 115, 116
123, and 144 (Eustis Lake)

James River

036-041, 047-049, 050, 090,
and 141

Milstead Island Creek

042-045, 046 (Browns Lake),
052-060, 062, 063, 066-068,
078, 091, 111-113, 117-122,
124-128, and 136

Warwick River

009, 011, 013-015, 018, 084-
087, 093-103, 142

Bailey Creek

006-007, 079, 080, 083, 092,
137-139

Skiffes Creek

069-074, and 129-133

Morrison's Creek

023-035, 077, 089, 104-110,
134, 135, 140, and 143

Eustis Lake

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall: 006, 080, 139 (storm water runoff from industrial activities; SIC 9711, Major Groups 37 and 44).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS [a]</u>	
	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow - Precipitation Event (MG)	NA	NL	1/6 Months	Estimate [b]
pH (S.U.)	NL	NL	1/6 Months	Grab
Total Suspended Solids (mg/l) [c] [d]	NA	NL	1/6 Months	Grab
Nitrite plus Nitrate Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Kjeldahl Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Nitrogen (mg/l) [e]	NA	NL	1/6 Months	Calculate
Total Phosphorus (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Recoverable Copper (ug/l) [c]	NA	NL	1/Year	Grab
Total Recoverable Zinc (ug/l) [c]	NA	NL	1/Year	Grab
Total Petroleum Hydrocarbons (mg/l) [c] [f]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required

NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30);
2nd half (July 1 - December 31).

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

- [a] See Part I.C.1. for additional storm water sampling and reporting requirements. All other requirements specified under Part I.C.3. shall apply, including the Quarterly Visual Examinations of Part I.C.3.e.
- [b] Estimate of the total volume of the discharge during the storm event.
- [c] See Parts I.B.3. and I.B.4. for quantification levels and reporting requirements, respectively. See Part I.C.2. for Benchmark Concentration Values.
- [d] See Part I.B.12. for additional information, calculations, reporting, and other requirements pertaining to total nitrogen, total phosphorus and total suspended solids. See Part I.B.12.a.(2) regarding when monitoring for nitrite plus nitrate nitrogen, total Kjeldahl nitrogen, total nitrogen and total phosphorus will cease. Monitoring for total suspended solids shall continue throughout the entire term of this permit per Part I.B.12.a.(3).
- [e] Total nitrogen, which is the sum of TKN and nitrite + nitrate, shall be derived from the results of those tests.
- [f] The permittee may use any method listed in 40 CFR 136 or any other EPA-approved method. Total petroleum hydrocarbons (TPH) is the sum (DRO + GRO) of individual gasoline range organics (TPH-GRO) and diesel range organics (TPH-DRO).
2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME USAF - Joint Base Langely - Eustis
 ADDRESS 1407 Washington Blvd Fort Eustis
 Newport News VA 23604
 FACILITY LOCATION 1407 Washington Blvd, Fort Eustis, VA 23604

**COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
 DISCHARGE MONITORING REPORT(DMR)**

Industrial Minor 06/10/2015

DEPT. OF ENVIRONMENTAL QUALITY
 (REGIONAL OFFICE)

Tidewater Regional Office
 5636 Southern Boulevard

Virginia Beach VA 23462

VA0025216			080		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM

TO

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
257 PETROLEUM HYDROCARBONS, TOTAL RECOVERED	REPORTD	*****	*****		*****	*****					
	REQMNT	*****	*****		*****	*****	NL	MG/L		1/YR	GRAB
389 NITRITE+NITRATE-N, TOTAL	REPORTD	*****	*****		*****	*****					
	REQMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
	REPORTD										
	REQMNT									*****	
	REPORTD										
	REQMNT									*****	
	REPORTD										
	REQMNT									*****	
	REPORTD										
	REQMNT									*****	
	REPORTD										
	REQMNT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

QLs = TSS - 1.0 mg/l, TPH (DRO+GRO) - 1.0 mg/l, TR COPPER - 1.0 ug/l, TR ZINC - 10 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE			
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY	
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.				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE					
				TYPED OR PRINTED NAME	SIGNATURE					
					TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall: 024, 025 (storm water runoff from industrial activities; SIC 9711, Major Group 42).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS [a]</u>	
	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow - Precipitation Event (MG)	NA	NL	1/6 Months	Estimate [b]
pH (S.U.)	NL	NL	1/6 Months	Grab
Total Suspended Solids (mg/l) [c] [d]	NA	NL	1/6 Months	Grab
Nitrite plus Nitrate Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Kjeldahl Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Nitrogen (mg/l) [e]	NA	NL	1/6 Months	Calculate
Total Phosphorus (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Petroleum Hydrocarbons (mg/l) [c] [f]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required

NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30);
2nd half (July 1 - December 31).

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

- [a] See Part I.C.1. for additional storm water sampling and reporting requirements. All other requirements specified under Part I.C.3. shall apply, including the Quarterly Visual Examinations of Part I.C.3.e.
- [b] Estimate of the total volume of the discharge during the storm event.
- [c] See Parts I.B.3. and I.B.4. for quantification levels and reporting requirements, respectively. See Part I.C.2. for Benchmark Concentration Values.
- [d] See Part I.B.12. for additional information, calculations, reporting, and other requirements pertaining to total nitrogen, total phosphorus and total suspended solids. See Part I.B.12.a.(2) regarding when monitoring for nitrite plus nitrate nitrogen, total Kjeldahl nitrogen, total nitrogen and total phosphorus will cease. Monitoring for total suspended solids shall continue throughout the entire term of this permit per Part I.B.12.a.(3).
- [e] Total nitrogen, which is the sum of TKN and nitrite + nitrate, shall be derived from the results of those tests.
- [f] The permittee may use any method listed in 40 CFR 136 or any other EPA-approved method. Total petroleum hydrocarbons (TPH) is the sum (DRO + GRO) of individual gasoline range organics (TPH-GRO) and diesel range organics (TPH-DRO).

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall: 042, 101 (storm water runoff from industrial activities; SIC 9711, Major Group 42).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS [a]</u>	
	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow - Precipitation Event (MG)	NA	NL	1/6 Months	Estimate [b]
pH (S.U.)	NL	NL	1/6 Months	Grab
Total Suspended Solids (mg/l) [c] [d]	NA	NL	1/6 Months	Grab
Nitrite plus Nitrate Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Kjeldahl Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Nitrogen (mg/l) [e]	NA	NL	1/6 Months	Calculate
Total Phosphorus (mg/l) [d]	NA	NL	1/6 Months	Grab

NL = No limit, however, reporting is required

NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30);
2nd half (July 1 - December 31).

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

- [a] See Part I.C.1. for additional storm water sampling and reporting requirements. All other requirements specified under Part I.C.3. shall apply.
- [b] Estimate of the total volume of the discharge during the storm event.
- [c] See Parts I.B.3. and I.B.4. for quantification levels and reporting requirements, respectively. See Part I.C.2. for Benchmark Concentration Values.
- [d] See Part I.B.12. for additional information, calculations, reporting, and other requirements pertaining to total nitrogen, total phosphorus and total suspended solids. See Part I.B.12.a.(2) regarding when monitoring for nitrite plus nitrate nitrogen, total Kjeldahl nitrogen, total nitrogen, total phosphorus, total suspended solids and all other parameters on this page will cease.
- [e] Total nitrogen, which is the sum of TKN and nitrite + nitrate, shall be derived from the results of those tests.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME USAF - Joint Base Langely - Eustis
 ADDRESS 1407 Washington Blvd Fort Eustis
 Newport News VA 23604
 FACILITY LOCATION 1407 Washington Blvd, Fort Eustis, VA 23604

COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
 DISCHARGE MONITORING REPORT(DMR)

Industrial Minor 06/10/2015

DEPT. OF ENVIRONMENTAL QUALITY
 (REGIONAL OFFICE)

Tidewater Regional Office
 5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

VA0025216	042				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
002 pH	REPORTD	*****	*****			*****					
	REQRMNT	*****	*****		NL	*****	NL	SU		1/6M	GRAB
004 TSS	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	CALC
068 TKN (N-KJEL)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
199 FLOW, PRECIPITATION EVENT	REPORTD	*****			*****	*****	*****				
	REQRMNT	*****	NL	MG	*****	*****	*****			1/6M	EST
389 NITRITE+NITRATE-N, TOTAL	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
	REPORTD										
	REQRMNT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

QLs = TSS - 1.0 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE					
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY			
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.				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE					
				TYPED OR PRINTED NAME			SIGNATURE			YEAR MO. DAY		
				TYPED OR PRINTED NAME			SIGNATURE			YEAR MO. DAY		

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall: 046 and 144 (Point source discharges from Browns Lake and Lake Eustis, respectively; SIC 9711).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD)	NA	NA	NA	NL	1/Year	Estimate
pH (S.U.)	NA	NA	NL	NL	1/Year	Grab
Total Suspended Solids (mg/l) [a]	NA	NA	NA	NL	1/Year	Grab
Nitrite plus Nitrate (mg/l) [a]	NA	NA	NA	NL	1/Year	Grab
Total Kjeldahl Nitrogen (mg/l) [a]	NA	NA	NA	NL	1/Year	Grab
Total Nitrogen (mg/l) [b]	NA	NA	NA	NL	1/Year	Calculate
Total Phosphorus (mg/l) [a]	NA	NA	NA	NL	1/Year	Grab

NA = Not Applicable.

NL = No limitation, however, reporting is required.

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

[a] See Part I.B.4.e. for nutrient parameter reporting requirements.

[b] Total nitrogen, which is the sum of TKN and nitrite + nitrate, shall be derived from the results of those tests.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME USAF - Joint Base Langely - Eustis
 ADDRESS 1407 Washington Blvd Fort Eustis
 Newport News VA 23604
 FACILITY LOCATION 1407 Washington Blvd, Fort Eustis, VA 23604

**COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
 DISCHARGE MONITORING REPORT(DMR)**

Industrial Minor 06/10/2015

DEPT. OF ENVIRONMENTAL QUALITY
 (REGIONAL OFFICE)

Tidewater Regional Office
 5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

VA0025216	046					
PERMIT NUMBER	DISCHARGE NUMBER					
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
002 pH	REPORTD	*****	*****			*****					
	REQRMNT	*****	*****		NL	*****	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/YR	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/YR	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/YR	CALC
068 TKN (N-KJEL)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/YR	GRAB
199 FLOW, PRECIPITATION EVENT	REPORTD	*****			*****	*****	*****				
	REQRMNT	*****	NL	MG	*****	*****	*****			1/YR	EST
389 NITRITE+NITRATE-N, TOTAL	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
 QLS = TSS - 1.0 mg/l; OUTFLOW FROM BROWNS LAKE

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE:			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
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.				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME USAF - Joint Base Langely - Eustis
 ADDRESS 1407 Washington Blvd Fort Eustis
 Newport News VA 23604
 FACILITY LOCATION 1407 Washington Blvd, Fort Eustis, VA 23604

COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
 DISCHARGE MONITORING REPORT(DMR)

Industrial Minor 06/10/2015

DEPT. OF ENVIRONMENTAL QUALITY
 (REGIONAL OFFICE)

Tidewater Regional Office
 5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

VA0025216	144				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
002 pH	REPORTD	*****	*****			*****					
	REQRMNT	*****	*****		NL	*****	NL	SU		1/YR	GRAB
004 TSS	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/YR	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/YR	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/YR	CALC
068 TKN (N-KJEL)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/YR	GRAB
199 FLOW, PRECIPITATION EVENT	REPORTD	*****			*****	*****	*****				
	REQRMNT	*****	NL	MG	*****	*****	*****			1/YR	EST
389 NITRITE+NITRATE-N, TOTAL	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/YR	GRAB
	REPORTD										
	REQRMNT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

QLs = TSS - 1.0 mg/l; OUTFLOW FROM LAKE EUSTIS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE			
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY	
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.				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE					
				TYPED OR PRINTED NAME	SIGNATURE					
					TYPED OR PRINTED NAME	SIGNATURE				

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall: 051, 114 (storm water runoff from industrial activities; SIC 9711, Major Groups 37 and 44).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS [a]</u>	
	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow - Precipitation Event (MG)	NA	NL	1/6 Months	Estimate [b]
pH (S.U.)	NL	NL	1/6 Months	Grab
Total Suspended Solids (mg/l) [c] [d]	NA	NL	1/6 Months	Grab
Nitrite plus Nitrate Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Kjeldahl Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Nitrogen (mg/l) [e]	NA	NL	1/6 Months	Calculate
Total Phosphorus (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Recoverable Copper (ug/l) [c]	NA	NL	1/Year	Grab
Total Recoverable Zinc (ug/l) [c]	NA	NL	1/Year	Grab
Total Petroleum Hydrocarbons (mg/l) [c] [f]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required

NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30);
2nd half (July 1 - December 31).

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

- [a] See Part I.C.1. for additional storm water sampling and reporting requirements. All other requirements specified under Part I.C.3. shall apply.
- [b] Estimate of the total volume of the discharge during the storm event.
- [c] See Parts I.B.3. and I.B.4. for quantification levels and reporting requirements, respectively. See Part I.C.2. for Benchmark Concentration Values.
- [d] See Part I.B.12. for additional information, calculations, reporting, and other requirements pertaining to total nitrogen, total phosphorus and total suspended solids. See Part I.B.12.a.(2) regarding when monitoring for nitrite plus nitrate nitrogen, total Kjeldahl nitrogen, total nitrogen, total phosphorus, total suspended solids and all other parameters on this page will cease.
- [e] Total nitrogen, which is the sum of TKN and nitrite + nitrate, shall be derived from the results of those tests.
- [f] The permittee may use any method listed in 40 CFR 136 or any other EPA-approved method. Total petroleum hydrocarbons (TPH) is the sum (DRO + GRO) of individual gasoline range organics (TPH-GRO) and diesel range organics (TPH-DRO).

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME USAF - Joint Base Langely - Eustis
 ADDRESS 1407 Washington Blvd Fort Eustis
 Newport News VA 23604
 FACILITY LOCATION 1407 Washington Blvd, Fort Eustis, VA 23604

**COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)**

Industrial Minor 06/10/2015

DEPT. OF ENVIRONMENTAL QUALITY
 (REGIONAL OFFICE)

Tidewater Regional Office
 5636 Southern Boulevard

Virginia Beach VA 23462

VA0025216	114				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM

TO

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
257 PETROLEUM HYDROCARBONS, TOTAL RECOVERED	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/YR	GRAB
389 NITRITE+NITRATE-N, TOTAL	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
	REPORTD										
	REQRMNT									*****	
	REPORTD										
	REQRMNT									*****	
	REPORTD										
	REQRMNT									*****	
	REPORTD										
	REQRMNT									*****	
	REPORTD										
	REQRMNT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

QLs = TSS - 1.0 mg/l, TPH (DRO+GRO) - 1.0 mg/l, TR COPPER - 1.0 ug/l, TR ZINC - 10 ug/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE			
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY	
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.				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE			
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY	
					TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall: 064, 065 (storm water runoff from industrial activities; SIC 9711, Major Group 45).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS [a]</u>	
	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow - Precipitation Event (MG)	NA	NL	1/6 Months	Estimate [b]
pH (S.U.)	NL	NL	1/6 Months	Grab
Total Suspended Solids (mg/l) [c] [d]	NA	NL	1/6 Months	Grab
Nitrite plus Nitrate Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Kjeldahl Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Nitrogen (mg/l) [e]	NA	NL	1/6 Months	Calculate
Total Phosphorus (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Petroleum Hydrocarbons (mg/l) [c] [f]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required

NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30);
2nd half (July 1 - December 31).

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

- [a] See Part I.C.1. for additional storm water sampling and reporting requirements. All other requirements specified under Part I.C.3. shall apply, including the Quarterly Visual Examinations of Part I.C.3.e.
- [b] Estimate of the total volume of the discharge during the storm event.
- [c] See Parts I.B.3. and I.B.4. for quantification levels and reporting requirements, respectively. See Part I.C.2. for Benchmark Concentration Values.
- [d] See Part I.B.12. for additional information, calculations, reporting, and other requirements pertaining to total nitrogen, total phosphorus and total suspended solids. See Part I.B.12.a.(2) regarding when monitoring for nitrite plus nitrate nitrogen, total Kjeldahl nitrogen, total nitrogen and total phosphorus will cease. Monitoring for total suspended solids shall continue throughout the entire term of this permit per Part I.B.12.a.(3).
- [e] Total nitrogen, which is the sum of TKN and nitrite + nitrate, shall be derived from the results of those tests.
- [f] The permittee may use any method listed in 40 CFR 136 or any other EPA-approved method. Total petroleum hydrocarbons (TPH) is the sum (DRO + GRO) of individual gasoline range organics (TPH-GRO) and diesel range organics (TPH-DRO).

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)**

Industrial Minor 06/10/2015

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

NAME USAF - Joint Base Langely - Eustis
ADDRESS 1407 Washington Blvd Fort Eustis
Newport News VA 23604
FACILITY LOCATION 1407 Washington Blvd, Fort Eustis, VA 23604

VA0025216	065				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
002 pH	REPORTD	*****	*****			*****					
	REQMNT	*****	*****		NL	*****	NL	SU		1/6M	GRAB
004 TSS	REPORTD	*****	*****		*****	*****					
	REQMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*****	*****		*****	*****					
	REQMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD	*****	*****		*****	*****					
	REQMNT	*****	*****		*****	*****	NL	MG/L		1/6M	CALC
068 TKN (N-KJEL)	REPORTD	*****	*****		*****	*****					
	REQMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
199 FLOW, PRECIPITATION EVENT	REPORTD	*****			*****	*****	*****				
	REQMNT	*****	NL	MG	*****	*****	*****			1/6M	EST
257 PETROLEUM HYDROCARBONS, TOTAL RECOVERED	REPORTD	*****	*****		*****	*****					
	REQMNT	*****	*****		*****	*****	NL	MG/L		1/YR	GRAB
389 NITRITE+NITRATE-N, TOTAL	REPORTD	*****	*****		*****	*****					
	REQMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

QLs = TSS - 1.0 mg/l, TPH (DRO+GRO) - 1.0 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
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.				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall: 072, 074, 132 (storm water runoff from industrial activities; SIC 9711, Major Group 45).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS [a]</u>	
	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow - Precipitation Event (MG)	NA	NL	1/6 Months	Estimate [b]
pH (S.U.)	NL	NL	1/6 Months	Grab
Total Suspended Solids (mg/l) [c] [d]	NA	NL	1/6 Months	Grab
Nitrite plus Nitrate Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Kjeldahl Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Nitrogen (mg/l) [e]	NA	NL	1/6 Months	Calculate
Total Phosphorus (mg/l) [d]	NA	NL	1/6 Months	Grab

NL = No limit, however, reporting is required

NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30);
2nd half (July 1 - December 31).

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

- [a] See Part I.C.1. for additional storm water sampling and reporting requirements. All other requirements specified under Part I.C.3. shall apply.
- [b] Estimate of the total volume of the discharge during the storm event.
- [c] See Parts I.B.3. and I.B.4. for quantification levels and reporting requirements, respectively. See Part I.C.2. for Benchmark Concentration Values.
- [d] See Part I.B.12. for additional information, calculations, reporting, and other requirements pertaining to total nitrogen, total phosphorus and total suspended solids. See Part I.B.12.a.(2) regarding when monitoring for nitrite plus nitrate nitrogen, total Kjeldahl nitrogen, total nitrogen, total phosphorus, total suspended solids and all other parameters on this page will cease.
- [e] Total nitrogen, which is the sum of TKN and nitrite + nitrate, shall be derived from the results of those tests.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME USAF - Joint Base Langely - Eustis
 ADDRESS 1407 Washington Blvd Fort Eustis
 Newport News VA 23604
 FACILITY LOCATION 1407 Washington Blvd, Fort Eustis, VA 23604

COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
 DISCHARGE MONITORING REPORT(DMR)

Industrial Minor 06/10/2015

DEPT. OF ENVIRONMENTAL QUALITY
 (REGIONAL OFFICE)

Tidewater Regional Office
 5636 Southern Boulevard

Virginia Beach VA 23462

VA0025216	072
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
YEAR MO DAY	YEAR MO DAY
FROM	TO

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
002 pH	REPORTD	*****	*****			*****					
	REQRMNT	*****	*****		NL	*****	NL	SU		1/6M	GRAB
004 TSS	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	CALC
068 TKN (N-KJEL)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
199 FLOW, PRECIPITATION EVENT	REPORTD	*****			*****	*****	*****				
	REQRMNT	*****	NL	MG	*****	*****	*****			1/6M	EST
389 NITRITE+NITRATE-N, TOTAL	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
	REPORTD										
	REQRMNT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
 QLS = TSS - 1.0 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
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.				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME USAF - Joint Base Langely - Eustis
ADDRESS 1407 Washington Blvd Fort Eustis
Newport News VA 23604
FACILITY LOCATION 1407 Washington Blvd, Fort Eustis, VA 23604

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

Industrial Minor 06/10/2015

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach VA 23462

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

VA0025216	074				
PERMIT NUMBER	DISCHARGE NUMBER				
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
002 pH	REPORTD	*****	*****			*****					
	REQRMNT	*****	*****		NL	*****	NL	SU		1/6M	GRAB
004 TSS	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
012 PHOSPHORUS, TOTAL (AS P)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
013 NITROGEN, TOTAL (AS N)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	CALC
068 TKN (N-KJEL)	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
199 FLOW, PRECIPITATION EVENT	REPORTD	*****			*****	*****	*****				
	REQRMNT	*****	NL	MG	*****	*****	*****			1/6M	EST
389 NITRITE+NITRATE-N, TOTAL	REPORTD	*****	*****		*****	*****					
	REQRMNT	*****	*****		*****	*****	NL	MG/L		1/6M	GRAB
	REPORTD										
	REQRMNT									*****	

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
QLs = TSS - 1.0 mg/l

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
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.				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS - STORM EVENT MONITORING

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall: 108, 109, 111 (storm water runoff from industrial activities; SIC 9711, Major Group 42).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS [a]</u>	
	<u>Minimum</u>	<u>Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow - Precipitation Event (MG)	NA	NL	1/6 Months	Estimate [b]
pH (S.U.)	NL	NL	1/6 Months	Grab
Total Suspended Solids (mg/l) [c] [d]	NA	NL	1/6 Months	Grab
Nitrite plus Nitrate Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Kjeldahl Nitrogen (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Nitrogen (mg/l) [e]	NA	NL	1/6 Months	Calculate
Total Phosphorus (mg/l) [d]	NA	NL	1/6 Months	Grab
Total Petroleum Hydrocarbons (mg/l) [c] [f]	NA	NL	1/Year	Grab

NL = No limit, however, reporting is required

NA = Not Applicable

1/6 Months = In accordance with the following schedule: 1st half (January 1 - June 30);
2nd half (July 1 - December 31).

1/Year = Between January 1 and December 31.

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

- [a] See Part I.C.1. for additional storm water sampling and reporting requirements. All other requirements specified under Part I.C.3. shall apply.
- [b] Estimate of the total volume of the discharge during the storm event.
- [c] See Parts I.B.3. and I.B.4. for quantification levels and reporting requirements, respectively. See Part I.C.2. for Benchmark Concentration Values.
- [d] See Part I.B.12. for additional information, calculations, reporting, and other requirements pertaining to total nitrogen, total phosphorus and total suspended solids. See Part I.B.12.a.(2) regarding when monitoring for nitrite plus nitrate nitrogen, total Kjeldahl nitrogen, total nitrogen, total phosphorus, total suspended solids and all other parameters on this page will cease.
- [e] Total nitrogen, which is the sum of TKN and nitrite + nitrate, shall be derived from the results of those tests.
- [f] The permittee may use any method listed in 40 CFR 136 or any other EPA-approved method. Total petroleum hydrocarbons (TPH) is the sum (DRO + GRO) of individual gasoline range organics (TPH-GRO) and diesel range organics (TPH-DRO).

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluid/tape' is not allowed.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces have a requirement or limitation, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading".
 $KG/DAY = \text{Concentration (mg/L)} \times \text{Flow (MGD)} \times 3.785$ $G/D \text{ (Grams/Day)} = \text{Concentration (mg/L)} \times \text{Flow (MGD)} \times 3785$
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. For all parameters enter the number of samples which do not comply with the maximum and/or minimum permit requirements in the "reported" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field. Include any Maximum 7-Day Average and Maximum Weekly Average violations in this field. Permittees with continuous pH, or temperature monitoring requirements should consult the permit for what constitutes an exceedance and report accordingly.
7. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit.
8. Enter the actual frequency of analysis for each parameter (number of times per day, week, month, etc.) in the "reported" space in the column marked "Frequency of Analysis".
9. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "reported" space in the column marked "Sample Type".
10. Enter additional required data or comments in the space marked "additional permit requirements or comments". If additional required data or comments are appended to the DMR, reference appended correspondence in this field.
11. Record the number of bypasses during the month, the total flow in million gallons (MG) and BOD5 in kilograms (KG) in the proper columns in the section marked "Bypasses and Overflows".
12. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator or if the operator in responsible charge of the facility is a licensed operator, the operator's signature and certificate number must be reported in the spaces provided.
13. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. Every page of the DMR must have an original signature.
14. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of each month unless otherwise specified in the permit.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each separate violation by date.
17. If you have any questions, contact the Department of Environmental Quality Regional Office listed on the DMR.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfalls: 007, 009, 079, 083, 137, and 138 (storm water runoff from industrial activities - water transportation, ship and boat repair and maintenance, operations of Vessels of the Armed Forces; SIC codes 9711, and Major Groups 37 and 44).

Such discharges shall be limited and monitored by the permittee as specified below:

THESE OUTFALLS SHALL CONTAIN STORM WATER RUNOFF ASSOCIATED WITH INDUSTRIAL ACTIVITIES, AND WHERE NO CHEMICAL MONITORING, BIOLOGICAL TOXICITY TESTING, OR QUARTERLY VISUAL OBSERVATIONS (PART I.C.3.e.) ARE REQUIRED.

SEE PARTS I.B.7., I.C.6. AND I.C.7: FOR SPECIFIC REQUIREMENTS, AND SECTOR SPECIFIC OPERATIONAL CONTROLS REGARDING STORM WATER AND POLLUTANT MANAGEMENT ACTIVITIES.

THERE SHALL BE NO DISCHARGE OF ANY PROCESS WASTEWATERS [PART I.B.7.d.(2)] FROM THESE OUTFALLS THAT ORIGINATE FROM SHORE-BASED SOURCES, OR FROM VESSELS IN A NON-DEPLOYABLE/INOPERABLE CONDITION OR REPAIR STATUS.

WASTEWATER DISCHARGES FROM PROPERLY FUNCTIONING VESSELS OF THE ARMED FORCES AS DEFINED BY THE UNIFORM NATIONAL DISCHARGE STANDARDS (UNDS) ARE ALLOWED, WITHOUT FURTHER RESTRICTION, BY FINAL RULES UNDER 40 CFR 1700. ADDITIONAL BEST MANAGEMENT CONDITIONS FOR MINOR VESSEL MAINTENANCE ACTIVITIES UNDER PARTS I.B.7. AND I.B.10. OF THIS PERMIT, ALSO APPLY TO VESSEL OPERATIONS AT THIS FACILITY.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfalls: 026, 034, 035, 036, 037, 040, 110, 112, and 116 (storm water runoff from industrial activities - land transportation and/or mechanized vehicle maintenance and operations; SIC Codes 9711, Major Group 42).

Such discharges shall be limited and monitored by the permittee as specified below:

THESE OUTFALLS SHALL CONTAIN STORM WATER RUNOFF ASSOCIATED WITH INDUSTRIAL ACTIVITIES, AND WHERE NO CHEMICAL MONITORING, BIOLOGICAL TOXICITY TESTING, OR QUARTERLY VISUAL OBSERVATIONS (PART I.C.3.e.) ARE REQUIRED.

SEE PARTS I.B.8. AND I.C.5. FOR SPECIFIC REQUIREMENTS, AND SECTOR SPECIFIC OPERATIONAL CONTROLS REGARDING STORM WATER AND POLLUTANT MANAGEMENT ACTIVITIES.

THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER(S) FROM THESE OUTFALLS.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfalls: 069, 070, 073, 123, 129, 130, and 133 (storm water runoff from industrial activities - air transportation, and operations and maintenance of fixed and rotary winged aircraft; SIC Codes 9711 and Major Group 45).

Such discharges shall be limited and monitored by the permittee as specified below:

THESE OUTFALLS SHALL CONTAIN STORM WATER RUNOFF ASSOCIATED WITH INDUSTRIAL ACTIVITIES AND WHERE NO CHEMICAL MONITORING, BIOLOGICAL TOXICITY TESTING, OR QUARTERLY VISUAL OBSERVATIONS (PART I.C.3.e.) ARE REQUIRED.

SEE PARTS I.B.9. AND I.C.8. FOR SPECIFIC REQUIREMENTS, AND SECTOR SPECIFIC OPERATIONAL CONTROLS REGARDING STORM WATER AND POLLUTANT MANAGEMENT ACTIVITIES.

THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER(S) FROM THESE OUTFALLS.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfalls: 011, 013-015, 018, 023, 027-033, 038, 039, 041, 043-045, 047-050, 052-060, 062, 063, 066-068, 071, 077, 078, 084-087, 089-100, 102-107, 113, 115, 117-122, 124-128, 131, 134-136, 140-143 (storm water runoff from non-industrial locations and activities; SIC Code 9711).

Such discharges shall be limited and monitored by the permittee as specified below:

THESE OUTFALLS SHALL CONTAIN STORM WATER RUNOFF NOT ASSOCIATED WITH A SPECIFIC INDUSTRIAL ACTIVITY, AND WHERE NO CHEMICAL MONITORING, BIOLOGICAL TOXICITY TESTING, OR REGULAR VISUAL OR PHYSICAL INSPECTIONS ARE REQUIRED UNDER THE TERMS AND CONDITIONS OF THIS PERMIT. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER(S) FROM THESE OUTFALLS.

THIS DESIGNATION APPLIED TO THE OUTFALLS NOTED ABOVE DOES NOT RELIEVE THE PERMITTEE FROM THE RESPONSIBILITY OF FILING FOR, OBTAINING, AND COMPLYING WITH THE TERMS AND CONDITIONS OF ANY ADDITIONAL VPDES PERMITS OR ALLOWANCES AFFORDED UNDER THE SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT, REQUIRED BY 40 CFR 122.32, THAT HAS BEEN ISSUED TO THIS FACILITY (VAR040035).

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

**ATTACHMENT A
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
SUPPLEMENTAL CHEMICAL DATA COVER SHEET**

Complete and submit this form for each report of chemical testing required to characterize discharges associated with HVAC/cooling system discharges.

VPDES PERMIT NUMBER: VA0025216

THE REPORT SHALL CONTAIN THE FOLLOWING ITEMS	
	COMPLETED CHAIN OF SAMPLE CUSTODY
	CERTIFICATE OF ANALYSIS (ES)

FACILITY NAME: Joint Base Langley/
Eustis - Eustis

FACILITY LOCATION: 1407 Washington Boulevard, JBLE-Eustis, Virginia 23604-5218

DISCHARGE SOURCE(S) DESIGNATION(S): (circle one or more)

BUILDING (BLDG) 648 BLDG 576-A BLDG 576-B BLDG 923
 BLDG 2715 BLDG 2716 BLDG 3307

REPORTING PERIOD (ex: 2011 Annual): _____

SAMPLING DATE AND WASTEWATER SOURCE(S): _____

(provide a brief description of WW source and identify additives in use, if additives believed present)

DISCHARGE DESIGNATION: _____		DISCHARGE DESIGNATION: _____	
PARAMETERS	RESULTS	PARAMETERS	RESULTS
FLOW	MGD	FLOW	MGD
pH	SU	pH	SU
TEMPERATURE	°C	TEMPERATURE	°C
AMMONIA-NITROGEN	mg/l	AMMONIA-NITROGEN	mg/l
TOTAL RESIDUAL CHLORINE	mg/l	TOTAL RESIDUAL CHLORINE	mg/l
HARDNESS (as CaCO ₃)	mg/l	HARDNESS	mg/l
TOTAL PHOSPHORUS	mg/l	TOTAL PHOSPHORUS	mg/l
TOTAL RECOVERABLE COPPER	ug/l	TOTAL RECOVERABLE COPPER	ug/l
TOTAL RECOVERABLE SILVER	ug/l	TOTAL RECOVERABLE SILVER	ug/l
TOTAL RECOVERABLE ZINC	ug/l	TOTAL RECOVERABLE ZINC	ug/l
WET TESTING	TU _a	WET TESTING	TU _a

CERTIFICATION:

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. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name & Title of Principal Officer or Authorized Agent / Signature / Date

**ATTACHMENT B
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
TMP SUBMITTAL COVER SHEET**

Complete and submit this form for each report of biological toxicity testing.

VPDES PERMIT NUMBER: VA0025216
 FACILITY NAME: Joint Base
Langley/Eustis-
Eustis

THIS REPORT SHALL CONTAIN THE FOLLOWING ITEMS	
	COMPLETED CHAIN OF SAMPLE CUSTODY
	CERTIFICATE OF ANALYSIS (ES)
	COMPLETE REPORT OF TOXICITY TESTING

FACILITY LOCATION: 1407 Washington Boulevard, JBLE-Eustis, Virginia 23604-5218

DISCHARGE SOURCE (S) DESIGNATION(S): (circle one or more)

BUILDING (BLDG) 648 BLDG 576-A BLDG 576-B BLDG 923
 BLDG 2715 BLDG 2716 BLDG 3307

REPORTING PERIOD (ex: CY 2015 Annual): _____

SAMPLE TYPE (circle one): HVAC/Cooling System Wastewater(s)

SAMPLING DATE AND WASTEWATER SOURCE (S): _____

(provide a brief description of WW source and identify additives in use, if additives believed present)

SAMPLE EVENT INFORMATION (if applicable):

Sample Date and Time of Collection: _____

Time discharge began: _____

Storm event measurement (inches): _____

Time between sampling and last measurable storm event (hours): _____

ADDITIONAL INFORMATION:

If this sample is a **make-up** sample or **retest**, indicate which category of test and the reporting period this submittal applies to:

Report Type: _____
 (e.g., makeup, retest, etc.)

Reporting Period: _____

If the required TMP sample(s) were not collected provide a reason/rationale:

CERTIFICATION:

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. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Signature, printed name and title of Principal Officer or Authorized Agent / Date

ATTACHMENT C
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
PROCESS WASTEWATER (WW) GENERATION, DESCRIPTION, AND MANAGEMENT REPORT

Facility Name: US - Joint Base Langley Eustis - Eustis

VPDES Permit Number: VA0025216

Address: 1407 Washington Boulevard, ATZF-PWE, Fort Eustis, Virginia 23604

Report Period: FROM: ___/___/___ TO: ___/___/___

Page ___ of ___

DESCRIPTION OF WASTEWATER GENERATING ACTIVITY

DATE OF WW ACTIVITY	DESCRIBE VESSEL OR EQUIPMENT BEING WASHED	LOCATION OF PROCESS WASTEWATER ACTIVITY	ADDITIVES USED (ATTACH MSDS)		DURATION (HOURS, DAYS, ETC.)	ESTIMATE OF FINAL VOLUME (IN GALLONS)	CLOSEST OUTFALL	DESCRIPTION OF BMPS, FINAL WASTEWATERS & DISPOSITION. (ATTACH ADDITIONAL PAGES AS REQ'D)
			YES	NO				

CHARACTERIZATION OF FINAL WASTEWATERS BY REPRESENTATIVE EFFLUENT SAMPLING

DATE OF WW SAMPLING	pH (SU)	TOTAL SUSPENDED SOLIDS (mg/l)	TOTAL NITROGEN (mg/l)	TOTAL PHOSPHOROUS (mg/l)	DISSOLVED COPPER (µg/l)	DISSOLVED ZINC (µg/l)	DISSOLVED LEAD (µg/l)	RELEVANT OBSERVATIONS AND COMMENTS (TIME OF SAMPLING, COLOR OF WW, TYPE OF DEBRIS ENTRAINED, ETC)

Name and Title of Principal Executive Officer or Authorized Agent

Signature

Date Signed

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. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

ATTACHMENT D
DEPARTMENT OF ENVIRONMENTAL QUALITY
BEST MANAGEMENT PRACTICES INSPECTION REPORT (05/2015)

Facility Name: Joint Base Langley Eustis - Eustis
 Address: 1407 Washington Boulevard, JBLE-Eustis, Virginia 23604-5218
 VPDES Permit Number: VA0025216

Report Period: From ____/____/____ to ____/____/____

BMP INSPECTION STATUS

LOCATION

NO DEFICIENCIES / DEFICIENCIES *
 (check as appropriate)

Third Port Oil/Water
 Separator Operations

Third Port Piers, Moorings
 & Wetslips

Third Port – Upland Sites of Vessel
 Washing/Rinsing & Maintenance

Outfall 051
 (Materials Storage/Lay-Down)

Modular Pier Storage and
 Maintenance Area(s)

Process Wastewaters Generated: YES _____ NO _____

If YES, complete Attachment C and submit with this report.

All Vessel & Water Transportation
 Washing/Rinsing & Maintenance

* Comments on Corrections to Deficiencies (provide details on attachment to this form)

CERTIFICATION:

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. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name & Title of Principal Officer or Authorized Agent / Signature / Date

B. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. Permit Reopeners

a. Water Quality Standards Reopener

Should effluent monitoring indicate the need for any water quality based limitation, this permit may be modified or, alternatively, revoked and reissued to incorporate appropriate limitations.

b. Total Maximum Daily Load (TMDL) Reopener

This permit shall be modified or, alternatively, revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

2. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

- (1) One hundred micrograms per liter (100 ug/l);
- (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
- (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
- (4) The level established by the State Water Control Board.

b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

- (1) Five hundred micrograms per liter (500 ug/l);
- (2) One milligram per liter (1 mg/l) for antimony;
- (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application.
- (4) The level established by the State Water Control Board.

3. Quantification Levels Under Part I.A.

- a. Unless otherwise noted in Part I.B.4.e. below, the maximum quantification levels (QL) shall be as follows:

<u>Effluent Characteristic</u>	<u>Quantification Level</u>
Chlorine	0.1 mg/l (1)
Total Phosphorus	0.1 mg/l (1) (2)
Total Nitrogen	0.2 mg/l (2)
Ammonia-N	0.2 mg/l (1)
Total Suspended Solids (TSS)	1.0 mg/l (2) (3)
Total Petroleum Hydrocarbons (TPH)	1.0 mg/l (3)
Copper	1.0 µg/l (1) (2) (3)
Silver	1.0 µg/l (1)
Lead	10 µg/l (2)
Zinc	10 µg/l (1) (2) (3)

- (1) Attachment A (HVAC, Cooling System Monitoring)
 (2) Attachment C (Process Wastewater Monitoring)
 (3) Part I.A. Effluent Monitoring

- b. The permittee may use any approved method which has a QL equal to or lower than the (QL) listed in Part I.B.3.a. above. The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method.

4. Compliance Reporting Under Part I.A.

- a. Compliance with the daily maximum limitations or reporting requirements for the parameters listed in Part I.B.3.a. shall be determined as follows: All data below the quantification level (QL) listed in Part I.B.3.a. above shall be treated as zero. All data equal to or above the QL shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including the defined zeros, collected for each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL, then the average shall be reported as <QL.
- b. Any single datum required shall be reported as "<QL" if it is less than the QL listed in Part I.B.3.a. above. Otherwise, the numerical value shall be reported.
- c. Where possible, all limit values on the Part I.A. limits page(s) are expressed in two significant figures. As a result, single, trailing zeros occurring after any single digit are significant. Effluent limits of 10 or greater are rounded to two significant whole numbers, with the exception that loading limits are expressed as whole numbers.
- d. The permittee shall report at least the same number of significant figures as the permit limit for a given

parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

e. Total Phosphorus and Total Nitrogen - Outfalls 046, 144

- (1) For non-storm water discharges and total phosphorus, all daily concentration data below the quantification level (QL), selected by the permittee for the analytical method used, should be treated as half the QL. All daily concentration data equal to or above the QL for the analytical method used shall be treated as it is reported.
- (2) For non-storm water discharges and total nitrogen (TN), if none of the daily concentration data for the respective species (i.e., TKN, nitrates/nitrites) are equal to or above the QL, selected by the permittee for the respective analytical methods used, the daily TN concentration value reported shall equal one half of the largest QL used for the respective species. If one of the data is equal to or above the QL, the daily TN concentration value shall be treated as that data point is reported. If more than one of the data are above the QL, the daily TN concentration value shall equal the sum of the data points as reported.

5. Materials Handling and Storage

Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes and/or other wastes to State waters, except as expressly authorized.

6. Cooling Water and Boiler Additives

- a. If at any time during the term of this permit, the permittee decides to treat any non-contact cooling water unit(s), boiler system(s), or heating, ventilation, and cooling (HVAC) systems with chemical additives other than those additives currently in use and on file with the DEQ Tidewater Regional Office, the following requirements shall be satisfied.

At least thirty (30) days prior to implementing any chemical addition to the cooling water and/or boiler equipment, the permittee shall notify the Tidewater Regional Office, in writing, of the following:

- (1) The chemical additives to be employed and their purpose. Provide to the staff for review, a Material Safety Data Sheet (MSDS) for each additive;
 - (2) Schedule of additive usage, including the identification of wastewater treatment and/or retention to be provided during the use of additives; and
 - (3) The owner shall not use tributyltin, any chemical additives containing tributyltin, or any hexavalent chromium-based water treatment chemicals in the cooling water systems.
- b. Should the addition of treatment chemicals significantly alter the characteristics of the effluent from the cooling water and/or boiler unit(s) or their usage becomes persistent or continuous, this permit shall be modified or, alternatively, revoked and reissued to include appropriate permit conditions, monitoring requirements, or effluent limitations.
- c. The permittee shall properly operate and maintain all cooling water systems that are active and discharging a chemically treated wastewater to surface waters. The permittee, or a designated representative, shall inspect cooling towers at least once per year to ensure that they are properly operated and maintained. The results of these annual inspections shall be maintained on-site, incorporated into the facility's storm water pollution prevention plan, and provided to Department staff upon request.
- d. **The permittee shall characterize a representative wastewater discharge from selected HVAC/cooling water systems, identified in the application and the table below, once during the term of this permit.**
- (1) The permittee shall obtain a grab sample of the HVAC/cooling water discharges at a representative point, at each building's location, in accordance with the schedule provided below. The sampling of wastewaters shall occur prior to their commingling with storm water runoff or other wastewaters that may be present in associated conveyances leading to surface waters.

<u>Calendar Year</u>	<u>Wastewater Source</u>	<u>Final Outfall</u>
CY 2016	Building 648	077
	Building 576-A	068
CY 2017	Building 576-B	068
	Building 923	062
	Building 2716	042
CY 2018	Building 2715	042
	Building 3307	046

(2) Sampling shall be in accordance with Parts I.B.6.d.(3) and I.B.6.d.(4), below. Attachment A, is the reporting form for submission of the resulting chemical test data. Attachment B shall be used for submission of results from Whole Effluent Toxicity (WET) testing.

(3) Chemical Monitoring

(a) The constituents listed below shall be characterized for each HVAC/cooling water unit discharge noted in the table above, for the stipulated monitoring period:

<u>Constituent</u>	<u>Reported as</u>
Flow	MGD
pH	Standard Units
Temperature	Degrees Celsius
Ammonia-Nitrogen	mg/l
Total Residual Chlorine	mg/l
Hardness	mg/l (as CaCO ₃)
Total Phosphorus	mg/l
Total Recoverable Silver	µg/l
Total Recoverable Copper	µg/l
Total Recoverable Zinc	µg/l
Whole Effluent Toxicity Testing (WET)	LC ₅₀ /TUa

(b) The permittee may use any approved method which has a QL equal to or lower than the (QL) listed in Part I.B.3.a. of this permit.

(4) Whole Effluent Toxicity (WET) Monitoring

WET monitoring of the discharges, identified in the table in Part I.B.6.d.(1), shall be performed once per permit term in accordance with the schedule in the table.

(a) Toxicity samples shall be taken at the same time and location as the chemical monitoring required in Part I.B.6.d.(3). Acute toxicity tests shall be conducted with the species Americamysis bahia and Cyprinodon variegatus using 48-hour static acute tests.

(b) These acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for calculation of a valid LC₅₀. Express as the results as Acute Toxic Units (TU_a), by dividing 100/LC₅₀ for DMR reporting. The test dilutions should be able to determine compliance with the following endpoint:

Acute LC₅₀ of 100% equivalent to a TU_a of 1.0

(c) A complete report for toxicity shall be submitted with the annual report required by

this section. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, all chains of custody, and Attachment B.

(d) If any of the discharges from the cooling water systems are found to be toxic ($TU_a > 1.0$), the permittee shall investigate the conditions that may have resulted in this finding. If a discrete cause is identified, the permittee shall include this information with the annual report and propose any operational changes to mitigate that finding.

e. The permittee shall prepare and submit an annual report addressing all boiler and cooling tower water discharges, and cooling tower blow-down discharges associated with heating, ventilation and air conditioning (HVAC) equipment where the discharges have the reasonable potential to enter surface waters.

The report shall provide the following information:

- (1) the location(s) and size(s) of all boilers and HVAC equipment with a potential to discharge wastewater to surface waters;
- (2) the affected outfall(s) under this permit;
- (3) the volume(s) of wastewater(s) discharged during the preceding calendar year;
- (4) the volume(s) and type(s) of treatment chemical(s) used and their purpose, the timing of the treatment and the status of the HVAC equipment (active, inactive, installed, removed, planned, etc.);
- (5) the report shall include, as discrete content, the results of wastewater characterization required by Parts I.B.6.d.(3) and (4), (Attachments A & B); and
- (6) the report shall also discuss any investigations or actions taken, planned, or scheduled to reclaim HVAC wastewaters in lieu of discharge to surface waters for beneficial reuse including but not limited to landscape irrigation, boiler feed water, equipment/vehicle/aircraft washwaters, or other similar uses.

First Annual Report Due: No later than February 10, 2017, for calendar year (CY) 2016, and annually thereafter for the term of this permit.

7. Vessels of the Armed Forces - Discharges Allowed by the Uniform National Discharge Standards (UNDS), and Other Requirements

a. Authorized Non-Storm Water Discharges from Vessels of the Armed Forces

In addition to those point source vessel discharges authorized by the UNDS, the regulation and monitoring of underwater ship husbandry does not need to be included in this permit. Section 325 of the National Defense Authorization Act for Fiscal Year (FY) 1996 amended Section 312 of the Clean Water Act (CWA) by adding a section on Uniform National Discharge Standards (UNDS) for Vessels of the Armed Forces. Phase I of the UNDS rulemaking was completed in FY99, with the Environmental Protection Agency (EPA) and the Department of Defense (DoD) jointly identifying 25 specific liquid discharges from vessels that require shipboard Marine Pollution Control Devices (MPCDs). Phase II of the UNDS has concluded and DoD and the USEPA are now planning to promulgate performance standards for seven UNDS discharges, including underwater ship husbandry, under Phase III of the UNDS.

b. Tributyltin (TBT) Exclusion

The removal and/or application (hereafter referred to as use) of hull coatings, or maintenance or repair of other hull features or materials on vessels that contain any amount of the biocide tributyltin or related compounds are prohibited at this permitted facility. Should the permittee consider using materials that contain TBT during the term of this permit, the permit must be modified or, alternatively, revoked and reissued to incorporate a numeric limitation and monitoring requirements which addresses the State's water quality standards for tributyltin, prior to its use.

c. Allowable Non-Storm Water Discharges - Security and Mission-Essential Vessels of the Armed Forces

When and where it is necessary to rinse security craft or other mission-essential Vessels of the Armed Forces following necessary deployment in marine waters, all suitable and appropriate operational controls, or best management practices (BMP), shall be employed to prevent, or minimize to the maximum extent practicable, the release of wastewaters, solids, biocides, or other potentially deleterious materials to storm water conveyance systems, or directly to surface waters. Management practices, BMPs, and operational controls to consider include:

- (1) Limit hull rinsing activities to those vessels' wetted hulls and submerged hull features that are not coated with anti-foulant systems formulated with toxic biocides (tributyltin, cuprous oxide, etc.) and the washing does not disturb or remove existing biological growth or blistered and poorly adhered hull coatings (if present);

- (2) Whenever possible, limit hull rinsing activities to locations where designated wash-racks exist, and wastewaters generated at that/those location(s) are collected for appropriate disposal or diverted to the sanitary sewer system, in lieu of direct discharge to surface waters;
- (3) In the absence of designated washracks, limit hull rinsing activities to those areas with impervious surfaces where wastewaters can be confined and allowed to evaporate, or collected for appropriate disposal in lieu of a discharge to surface waters via on-site drainage structures;
- (4) All debris and biological growth removed as a result of this allowable activity shall be collected for appropriate disposal in lieu of a discharge to surface waters via on-site drainage structures; and
- (5) Identify all locations where security craft and other mission-essential Vessels of the Armed Forces, not in a repair status, are rinsed in the SWPPP [Part I.C.4.b.(3)], in addition to describing management practices, BMPs, and operational controls to be imposed and maintained during those activities.

d. Non-Storm Water Discharges Associated with Water Transportation Equipment and Vessel Maintenance and Repair Activities

- (1) This permit does not authorize direct discharges of any process wastewaters from vessel and water transportation equipment repair or maintenance activities performed at shore-side locations or upland sites equitable to dry docking.
- (2) For the purpose of this permit, process wastewater(s) related to hull work shall be any water used on a vessel's hull for any purpose regardless of application pressure, including but not limited to the activities of removing marine salts, sediments, marine growth, hull coatings and paint, or other hull, weather deck, or super-structure cleaning activities using water such as preparing those areas for inspection or work (e.g., cutting, welding, grinding, etc.).
- (3) Should the permittee consider it necessary to generate a defined process wastewater [Part I.B.7.d.(2)] that will result in a permanent point source discharge to surface waters, this permit must be modified or, alternatively, revoked and reissued to incorporate appropriate effluent limitations, monitoring requirements and necessary permit conditions.

- e. **Characterization of Potential Process Wastewater Discharges Identified on Application Form 2C - Washing, and Cleaning of Vessels of the Armed Forces, Harbor and Oil Booms, and Modular Pier Sections**
- (1) **Using Attachment C to this permit, the permittee shall report, on a quarterly basis, the details of each process wastewater generating activity performed at JBLE-Eustis across the term of this permit.**
 - (2) Perform representative sampling of each wastewater generating event under this section for the constituents appearing on Attachment C, using any approved method which has a QL equal to or lower than the (QL) listed in Part I.B.3.a. of this permit;
 - (3) In addition to reporting the chemical data resulting from representative sampling of process wastewaters generated under this condition, the following information shall also be reported:
 - (a) Identify the specific activity that will generate a process wastewater, the equipment or vessel(s) involved, and the purpose of wastewater generation;
 - (b) Identify the location(s) where process wastewater(s) will be generated, an estimate of the total volume of wastewater generated and the outfall(s) that would receive the final wastewater discharge, should a potential for a point source discharge exist;
 - (c) Provide details of operational controls or BMPs imposed to prevent, or reduce to the maximum extent practicable, all discharges of final wastewaters to surface waters; and
 - (d) Provide details, in the form of material safety data sheets (MSDS), specific to chemical solutions or additives that may be used during these activities, the duration of wastewater generation, and the means of final disposition of all wastewaters generated, in lieu of a discharge to surface waters.
 - (4) **Using Attachment C as the reporting form, the permittee shall submit the completed report at a frequency of once per three months, on a CY basis, as follows:**
 - 1/3 Months = In accordance with the schedule below:
 - 1st Quarter (January 1 - March 31);
 - 2nd Quarter (April 1 - June 30);
 - 3rd Quarter (July 1 - September 30); and
 - 4th Quarter (October 1 - December 31).

(5) Following an evaluation of the required information, this permit may be modified or, alternatively, revoked and reissued in order to incorporate additional or different permit conditions.

8. Vehicle and Mechanized Equipment Maintenance

- a. This permit does not authorize any discharges of non-storm water discharges that may be generated at those locations associated with vehicle and equipment maintenance shops (vehicle and equipment rehabilitation, mechanical repairs, painting, fueling and lubrication) or equipment cleaning operations. See Parts I.C.3.f. and I.C.5.b. for additional information and requirements in this regard.
- b. For the purposes of this permit, non-storm water discharges include process wastewaters associated with vehicle or equipment repair or maintenance. Process wastewaters related to vehicle and equipment maintenance shall be any water used on a vehicle or piece of equipment for any purpose, including but not limited to the removal of dirt and debris, greases, oils, marine salts, and paints, or other cleaning activities using water including the wash down of impervious surfaces at the location where vehicle and equipment maintenance are regularly performed.
- c. Identify all locations where vehicles and mechanized equipment, including mobile canteens, heavy trucks and industrially related heavy equipment, are regularly maintained, serviced, and repaired in the SWPPP [Part I.C.4.b.(3)], in addition to describing operational controls or other management practices to be imposed and maintained during these activities.

9. Aircraft Maintenance and Cold Weather Activities

- a. Non-Storm Water Discharges
For the purpose of this permit, the following discharges are not "authorized" non-storm water discharges under this permit, and if present, may require additional controls, limitations, or prohibitions:
 - (1) aircraft, ground vehicle, runway and equipment washwaters; and
 - (2) dry weather discharges of deicing/anti-icing chemicals.
- b. Identify all locations where private, contracted, and government owned and operated rotary and fixed-wing aircraft, and other airfield support equipment are trained upon, maintained, serviced, and repaired in the SWPPP [Part I.C.4.b.(3)]. In addition, describe

management practices, to be imposed and maintained during these activities. See Part I.C.8.c. for additional information.

- c. For all washracks associated with aircraft maintenance, that have a potential to release contaminated runoff to surface waters, the permittee shall develop and maintain current, a system of sufficiently detailed log books and records that document the following actions by on-site uniformed service personnel, or other authorized persons:

- (1) Identifies the date and time of aircraft washing;
- (2) Identifies the date and time of diversion valve positioning/realignment to ensure process wastewaters are routed to the sanitary sewer, the date and time the valves were restored, and the identity of the service personnel responsible for performing these actions;
- (3) Identifies the type of cleaners, soaps, or chemical solutions (e.g., material safety data sheets) that may be used during aircraft washing/maintenance;
- (4) Identifies the date when automatic and manual diversion valves were inspected, calibrated, maintained, and if necessary, repaired and returned to service;
- (5) Identifies the date when oil/water separators or other treatment equipment associated with aircraft maintenance activities are inspected, maintained, and if necessary, repaired and returned to service; and
- (6) Identifies the date(s) and time(s) when water program representatives of JBLE-Eustis have inspected the contents of all washracks logs and records to confirm compliance with this permit condition and the requirements of Parts I.C. and I.C.8. of this permit.
- (7) Once developed, these logbooks and records shall be maintained at a central location at the facility and must be readily accessible to JBLE-Eustis environmental staff for inspection, review, and confirmation of compliance with JBLE-Eustis instructions, directives, guidance, and this permit. These logbooks and records shall also be made readily available to Department staff upon request, to confirm compliance with the terms and conditions of this permit.

- d. Aircraft Cold Weather Activities

- (1) The expected season for anti-icing and deicing activities is during the months of November,

December, January, February, and March. For the purpose of this section, the term "deicing" is defined as the process to remove frost, snow, or ice from aircraft surfaces and "anti-icing" is the process that prevents the accumulation of frost, snow, or ice, primarily on surfaces of fixed-wing aircraft.

- (2) This permit does not permit discharges resulting from anti-icing or deicing activities of aircraft, or the use or discharge of solutions applied to prevent, retard, or remove icing on runway surfaces at JBLE-Eustis Felker Airfield.

10. Water Transportation Equipment and Shipyard Best Management Practices (BMPs)

a. The permittee shall comply with the following:

- (1) For vessels in which sanitary waste tanks (holding tanks) are installed, all sewage from the vessels shall be removed and disposed of by a commercial waste disposal company or discharged into the Installation's sanitary waste system.
- (2) For vessels without sanitary waste holding tanks installed, the vessel's sanitary systems shall not be permitted to discharge sewage overboard into adjacent surface waters. Vessels without holding tanks shall be connected to a holding tank or shoreside system in compliance with Virginia Department of Health Regulations.
- (3) The JBLE-Eustis Third Port shore-side facilities shall be cleaned on a regular basis to minimize the possibility that runoff will carry spent abrasives, paints, solvents, cleaners, anti-corrosive compounds, paint chips, scrap metal, trash, garbage, petroleum products or other debris into surface waters. Cleanup of areas contributing runoff shall consist of mechanical or manual methods to sweep up and collect the debris.

Mechanical cleanup may be accomplished by mechanical sweepers, front end loaders, vacuum cleaners or other innovative equipment. Manual methods include the use of shovels and brooms.

- (4) Fixed or floating platforms shall be used as work surfaces when working at the water surface. These platforms shall be used to provide a surface to catch spent abrasive, slag, paint, trash and other debris/pollutants, and shall be cleaned at the end of each work shift.
- (5) Dust and overspray from abrasive blasting and painting in yard facilities shall be controlled to minimize the spreading of wind-blown materials.

- Frequent cleanup of these areas shall be practiced to prevent abrasive blasting waste from being washed into storm sewers or adjacent surface waters.
- (6) Cleaning procedures shall be employed to remove waste materials in order to prevent their introduction into the storm drainage system at JBLE-Eustis Third Port.
 - (7) The sediment traps in the stormwater drainage system(s) for JBLE-Eustis Third Port piers, wharfs and other vessel mooring and maintenance locations shall be inspected on a regular basis [see Parts I.C.3.e., I.C.4.b.(6)(b)v., I.C.4.d., I.C.6.c.(2)(c), I.C.7.c.(2)(c)] and cleaned as necessary to ensure the interception and retention of solids entering the drainage system.
 - (8) During vessel(s) mooring, oil, grease or fuel spills shall be prevented from reaching surface waters. Cleanup shall be carried out promptly after an oil, grease or fuel spill is detected. Oil containment booms shall be conveniently stored so as to be immediately deployable in the event of a spill.
 - (9) Drip pans or other protective devices shall be required for all oil or oily waste transfer operations to catch incidental spillage and drips from hose nozzles, hose racks, drums or barrels.
 - (10) Solid chemicals, chemical solutions, paints, oils, solvents, acids, caustic solutions and waste materials, including used batteries, shall be plainly labeled and stored in a manner which will prevent the entry of these materials into waters of the State, including ground waters. Storage shall be in a manner that will prevent entry into State waters by overflowing, tipping, rupture, or other accidents within the storage area.
 - (11) The mixing of paints and solvents shall be carried out in locations and under conditions such that no spill shall enter surface waters.
 - (12) Drip pans or other protective devices shall be required for all paint mixing and solvent transfer operations, unless the mixing operation is carried out in controlled areas away from storm drains, surface waters, shorelines and piers. Drip pans, drop cloths or tarpaulins shall be used whenever paints and solvents are mixed. Sorbents must be on hand to soak up liquid spills. Paints and solvents shall not be mixed in areas where spillage would have direct access to surface waters unless containment measures are employed.

- (13) Paint and solvent spills shall be treated as oil spills and shall be prevented from reaching storm drains or deck drains and subsequent discharge into surface waters.
- (14) Trash receptacles shall be provided on each pier and on board each vessel. These receptacles shall be emptied as necessary to prevent trash from entering surface waters.
- (15) Leaking connections, valves, pipes, hoses and soil chutes carrying wastewater shall be replaced or repaired immediately. Soil chute and hose connections to vessels and to receiving lines or containers shall be tightly connected and leak free.
- (16) Uncontaminated bilge and ballast or oil contaminated bilge and ballast treated by an onboard oil/water separator system may be discharged to surface waters (see Part I.B.7.). Any other contaminated bilge and ballast shall not be discharged except as limited by Part I.A. Effluent Limitations.
- (17) Vessels which have been fitted to collect gray water, either with sewage or separately, shall not discharge the gray water into surface waters unless specifically addressed as a permitted discharge in Part I.A. Effluent Limitations.
- (18) For commercial vessels that may be moored at JBLE-Eustis Third Port on a temporary basis, and where mechanical and/or electrical systems remain operational, and where associated wastewater discharges from the vessel(s) are necessary, those discharges are conditionally allowed under the provisions of the EPA's Vessel General Permit (VGP) for Discharges Incidental to the Normal Operation of Vessels. This allowance is only applicable if the vessel involved has received and maintains current, coverage under the EPA's VGP.

b. Reporting

The permittee shall **submit quarterly (1/3 Months), on a calendar year (CY) basis, a detailed report** certifying compliance or noncompliance with all conditions of the preceding BMP's and other permit conditions pertaining to piers, wet slips, vessel haul-outs, shore-side work areas (equitable to dry docking), and other locations where water transportation equipment or vessel repair and maintenance activities are performed (see Parts I.B.7., I.C.6, and I.C.7). The report shall be legible, include a weekly audit checklist for those areas and a narrative description of observations of non-compliance and corrective actions taken to return to compliance with the permit BMPs. The weekly facility audits shall

be conducted by personnel not routinely associated with the aforementioned activities. **The reporting form is provided as Attachment D to this permit.**

1/3 Months = In accordance with the following schedule:

- 1st Quarter (January 1 - March 31);
- 2nd Quarter (April 1 - June 30);
- 3rd Quarter (July 1 - September 30); and
- 4th Quarter (October 1 - December 31).

11. Reverse Osmosis Water Purification Units (ROWPU)

- a. Point source discharges of treated (disinfected) product water, and equipment cleaning wastewaters associated with training or maintenance of ROWPUs at this facility, with the potential for those discharges to enter State waters, including groundwaters, are all prohibited. Should the permittee desire to operate ROWPUs at this facility with potentially contaminated discharges directed to State waters, then this permit must be modified or, alternatively, revoked and reissued to incorporate appropriate monitoring requirements, effluent limitations, and/or additional BMPs.
- b. ROWPU training and temporary discharges of untreated product waters and brine reject wastewaters are allowed subject to the following permit conditions.
 - (1) Within sixty (60) days from the effective date of this permit, the permittee shall prepare and submit to the Tidewater Regional Office for review and approval, Standard Operating Procedures (SOP) for ROWPUs and Multi-Functional Modular Fluid Filtration Systems (MMFFS) that may be present at the JBLE-Eustis and utilized for training, or other contingencies.
 - (2) The SOP shall provide management practices, operational controls, prohibitions, and other specific protocols necessary to ensure:
 - (a) That no direct discharges of brine reject and untreated product water(s) occur to surface waters or associated wetland systems, located at JBLE-Eustis; and
 - (b) The SOP shall also provide information regarding the ultimate fate, disposition, and disposal, in lieu of any point source discharge to State waters, of all treated product waters, ROWPU equipment and membrane cleaning wastewaters and chemically treated brine reject wastewaters.
 - (3) The SOP shall clearly identify all probable locations where ROWPUs may be operated and maintained, and provide operational controls and

wastewater management practices that will result in compliance with this permit condition.

- (4) The SOP shall include adequate record keeping requirements to track the number and locations of ROWPU activities, including sources of waters receiving treatment by ROWPU systems, and estimated volumes of all allowable ROWPU discharges realized across the term of this permit
- (5) Once approved, the SOP will become an enforceable condition of this permit.

12. Discharges to Surface Waters in the Chesapeake Bay Watershed

a. Owners of facilities in the Chesapeake Bay watershed shall monitor their facility's storm water and process wastewater discharges for total nitrogen (TN), total phosphorus (TP), and total suspended solids (TSS) to characterize the contributions from their facility's specific industrial sector for these parameters.

- (1) Samples for nutrients and sediments shall be collected and analyzed in accordance with Part I.A. of this permit for outfalls 006, 024, 025, 042, 051, 064, 065, 072, 074, 080, 101, 108, 109, 111, 114, 132, and 139. Monitoring results shall be reported in accordance with Parts I.B.4. and I.B.12., and retained in accordance with Part II.B. of this permit. Samples required by Part I.A., for the outfalls noted above, shall be collected during each of the first four semi-annual monitoring periods (e.g., across the first two [2] years of permit coverage). Calendar year (CY) semi-annual monitoring periods are defined as:

1st Half - January 1 - June 30; and
2nd Half - July 1 - December 31,

- (2) Upon completion of two-years of semi-annual monitoring for nutrients required by Parts I.A. and I.B.12.a., monitoring for nitrite plus nitrate, TKN, TN, TP, TSS, and all other required parameters at outfalls 042, 051, 072, 074, 101, 108, 109, 111, 114, and 132, shall cease for the remaining term of this permit.
- (3) Semi-annual monitoring for total suspended solids (TSS), and all remaining and required parameters under Part I.A. effluent monitoring (e.g., metals, TPH), if applicable, shall continue for the entire permit term at representative outfalls 006, 024, 025, 064, 065, 080, and 139. In this regard, TSS is used to verify imposition of BMPs and other operational control measures required by this permit for ongoing industrial activities (e.g., land, water, and air transportation).

b. Chesapeake Bay TMDL Wasteload Allocations and Chesapeake Bay TMDL Action Plans

- (1) EPA's Chesapeake Bay TMDL (December 29, 2010) includes wasteload allocations for VPDES permitted industrial storm water facilities as part of the regulated storm water aggregate load. EPA used data submitted by Virginia with the Phase I Chesapeake Bay TMDL Watershed Implementation Plan (WIP), including the number of industrial storm water permits per county and the number of urban acres regulated by industrial storm water permits, as part of their development of the aggregate load. Aggregate loads for industrial storm water facilities were appropriate because actual facility loading data were not available at that time to develop individual facility wasteload allocations. Virginia estimated the loadings from industrial storm water facilities using actual and estimated facility acreage information, and TP, TN, and TSS loading values from the Northern Virginia Planning District Commission (NVPDC) Guidebook for Screening Urban Nonpoint Pollution Management Strategies, prepared for the Metropolitan Washington Council of Governments (Annandale, Virginia, November, 1979).

The loading values used were as follows:

Total Phosphorus:

High (80%) imperviousness industrial; 1.5 lb/ac/yr

Total Nitrogen:

High (80%) imperviousness industrial; 12.3 lb/ac/yr

Total Suspended Solids:

High (80%) imperviousness industrial; 440 lb/ac/yr

The actual facility area information, and the TP, TN and TSS data collected for this permit will be used by DEQ to quantify the nutrient and sediment loads from VPDES permitted industrial storm water facilities, and will be submitted to EPA to aid them in further refinements to their Chesapeake Bay TMDL model. The loading information will also be used by DEQ to determine any additional load reductions needed for industrial storm water facilities for the next reissuance of this permit.

- (2) Data Analysis and Chesapeake Bay TMDL Action Plans

The permittee shall analyze the nutrient and sediment data collected in accordance with Part I.B.12.a. to determine if additional action is needed for this permit term. The permittee shall average the data collected at the facility for each of the pollutants of concern (POC) (e.g., TP, TN and TSS) and compare the results to the loading

values for TP, TN and TSS presented in Part I.B.12.b.(1). To calculate the facility's loadings, the permittee shall use either the actual annual average rainfall data for the facility location (in inches/year) or the Virginia annual average rainfall of 44.3 inches/year. The following formula, or a site specific DEQ-approved calculation, shall be used to determine the loading value:

Equation (1)

$$L = 0.226 \times R \times C$$

where:

L = the Pollutant of Concern (POC) loading value (lb/acre/year)

C = the POC average concentration of all facility samples (mg/L)

0.226 = unit conversion factor

R = annual runoff (in/yr), calculated as:

$$R = P \times P_j \times R_v$$

where:

P = annual rainfall (in/yr) [use the Virginia annual average of 44.3 in/yr, or site specific annual rainfall for your area of the State].

P_j = the fraction of annual events that produce runoff (usually 0.9)

R_v = the runoff coefficient, which can be expressed as: $R_v = 0.05 + (0.9 \times I_a)$

I_a = the impervious fraction [the ratio of facility impervious area to the total facility area] or,

$$I_a = \text{AREA IMPERVIOUS} / \text{AREA TOTAL}$$

Substituting in Equation (1):

Equation (2)

$$L = 0.226 \times P \times P_j \times (0.05 + [0.9 \times I_a]) \times C$$

(3) Calculations and Required Actions

- (a) If the calculated facility loading value for TP, TN or TSS is less than the corresponding loading value presented in Part I.B.12.b.(1) of this permit, then the calculations demonstrating that no reduction is necessary **shall be submitted within 90 days from the end of the second year's monitoring period.** The calculations shall include a site map with the total site area, the areas associated with industrial activity and the total impervious area.

- (b) If the calculated facility loading value for TP, TN or TSS exceeds the corresponding loading value presented in Part I.B.12.b.(1) of this permit, then the permittee shall develop and submit a Chesapeake Bay TMDL Action Plan to DEQ for review and approval. The plan shall include a site map with the total site area, the areas associated with industrial activity and the total impervious area. The permittee shall implement the applicable elements of the approved plan over the remaining term of this permit and achieve all the necessary reductions by June 30, 2024. **The plan shall be submitted within 90 days from the end of the second year's monitoring period.** The action plan shall include:
- i. A determination of the total pollutant load reductions for TP, TN and TSS (as appropriate) necessary to reduce the annual loads from industrial activities. This shall be determined by calculating the difference between the loading values listed in Part I.B.12.b.(1) and the average of the sampling data for TP, TN or TSS (as appropriate) for the entire facility. The reduction applies to the total difference calculated for each pollutant of concern;
 - ii. The means and methods, such as management practices and retrofit programs, that will be utilized to meet the required reductions determined in Part I.B.12.b.(3)(b)(i), and a schedule to achieve those reductions by June 30, 2024. The schedule should include annual benchmarks to demonstrate the ongoing progress in meeting those reductions;
 - iii. The permittee may consider utilization of any pollutant trading or offset program in accordance with §§ 62.1-44.19:20 through 62.1-44.19:23 of the Code of Virginia, governing trading and offsetting, to meet the required reductions.
- (4) Permittees required to develop and implement a Chesapeake Bay TMDL Action Plan shall submit an annual report to the department by June 30th of each year describing the progress in meeting the required reductions.

C. STORM WATER MANAGEMENT CONDITIONS

1. Sampling Methodology - Specific Outfalls 006, 024, 025, 042, 051, 064, 065, 072, 074, 080, 101, 108, 109, 111, 114, 132, and 139

Due to the nature of the effluent discharged at these outfalls (potentially contaminated storm water associated with a regulated industrial activity), the following shall be required when obtaining samples required by Part I.A. of this permit:

- a. At the time of sampling, the permittee shall ensure that the effects of tidal influences are kept to an absolute minimum. This can be achieved by:
- (1) Sampling at low tide and/or
 - (2) Sampling at a representative point which has been demonstrated to be free of tidal influences
- b. In the event that sampling of an outfall is not possible due to the absence of effluent flow during a particular testing period, the permittee shall provide written notification to DEQ's TRO with the DMR for the month following the period in which samples were to be collected.

2. Benchmark Concentration Values

The following parameters have benchmark concentration values for all storm water outfalls listed in Part I.A. of the permit.

<u>POTENTIAL POLLUTANTS</u>	<u>BENCHMARK CONCENTRATION VALUES</u>
Total Suspended Solids	100 mg/l
Total Petroleum Hydrocarbons	15 mg/l
Total Recoverable Copper	18 µg/l
Total Recoverable Zinc	120 µg/l

3. General Storm Water Conditions

a. Sample Type

For all storm water monitoring required in Part I.A. or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that occurs at least 72 hours from the previously measurable storm event (a "measurable storm event" is defined as a storm event that results in an actual discharge from the site). The required 72-hour storm event interval is waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is

impracticable, a grab sample can be taken during the first three hours of the discharge, and the permittee shall submit with the monitoring report a description of why a grab sample during the first 30 minutes was impracticable. If storm water discharges associated with industrial activity commingle with process or non-process water, then where practicable permittees must attempt to sample the storm water discharge before it mixes with the non-storm water discharge.

b. Recording of Results

For each storm event monitored under Part I.A. of this permit, the permittee shall record and retain on site with the SWPPP the following information:

- (1) The date and duration (in hours) of the storm event(s) sampled;
- (2) The rainfall total (in inches) of the storm event which generated the sampled discharge; and
- (3) The duration between the storm event sampled and the end of the previous measurable storm event.

c. Sampling Waiver

When a permittee is unable to collect storm water samples required in Part I.A. or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative Outfalls - Substantially Identical Discharges

If the facility has two or more outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, the permittee may conduct monitoring on the effluent of just one of the outfalls and report that the observations also apply to the substantially identical outfall(s). The substantially identical outfall monitoring provisions apply to quarterly visual monitoring, benchmark monitoring and impaired waters monitoring. The substantially identical outfall

monitoring provisions are not available for numeric effluent limits monitoring. The permittee shall include the following information in the SWPPP:

- (1) The locations of the outfalls;
- (2) Why the outfalls are expected to discharge substantially identical effluents, including evaluation of monitoring data, where available; and,
- (3) Estimates of the size of the drainage area (in square feet) for each of the outfalls.

e. Quarterly Visual Examination of Storm water Quality - Specific and Representative Outfalls 006, 024, 025, 064, 065, 080, and 139

Unless another more frequent schedule is established elsewhere within this permit, the permittee shall perform and document a visual examination of a storm water discharge associated with industrial activity from each outfall, except discharges exempted below. The examination(s) must be made at least once in each of the following three-month periods (Quarterly), on a calendar year (CY) basis:

1/3 Months = In accordance with the following schedule:

- 1st Quarter (January 1 - March 31);
- 2nd Quarter (April 1 - June 30);
- 3rd Quarter (July 1 - September 30); and
- 4th Quarter (October 1 - December 31).

The visual examination shall be made during normal working hours. If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no runoff occurred. The documentation must be signed and certified in accordance with Part II.K. of this permit.

- (1) Visual Examinations shall be made of samples collected in accordance with Part I.C.1.a. The examination shall document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well lit area. No analytical tests are required to be performed on the samples.
- (2) Visual examination reports must be maintained onsite with the SWPPP. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual

quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.

f. Allowable Non-Storm water Discharges

- (1) The following non-storm water discharges are authorized by this permit.
 - (a) Discharges from fire fighting activities;
 - (b) Fire hydrant flushings;
 - (c) Potable water including water line flushings;
 - (d) Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
 - (e) Irrigation drainage;
 - (f) Landscape watering provided all pesticides, herbicides, and fertilizers have been applied in accordance with the approved labeling;
 - (g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
 - (h) Routine external building wash down which does not use detergents;
 - (i) Uncontaminated ground water or spring water;
 - (j) Foundation or footing drains where flows are not contaminated with process materials such as solvents;
 - (k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains); and
- (1) Those non-storm water discharges identified in Parts I.B.6., I.B.7.a., I.B.7.c. and I.B.9.c., where Part I.A. monitoring and reporting are required, or sufficient operational controls are in-place to segregate and divert contaminated process wastewaters to sanitary sewer collection systems, in lieu of discharge to surface waters.

- (2) All other non-storm water discharges are not authorized and shall either be eliminated, covered under a separate VPDES permit, or Part I.A. of this permit.

g. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities

The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable SWPPP for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an onsite spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 or §62.1-44.34:19 of the Code of Virginia. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period:

- (1) The permittee is required to notify the DEQ in accordance with the requirements of Part II.G. as soon as he or she has knowledge of the discharge;
- (2) Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner or the MS4; and
- (3) The SWPPP required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

h. Water Quality Protection

The discharges authorized by this permit shall be controlled as necessary to meet applicable water quality standards. The DEQ expects that compliance with the conditions in this permit will control discharges as necessary to meet applicable water quality standards.

i. Corrective Actions

- (1) Data Exceeding Benchmarks Concentration Values
 - (a) If the benchmark monitoring result exceeds the benchmark concentration value (Part I.C.2.) for that parameter, the permittee shall review the SWPPP and modify it as necessary to address any deficiencies that caused the exceedance. Revisions to the SWPPP shall be completed within 30 days after an exceedance is discovered. When control measures need to be modified or added (distinct from regular preventive maintenance of existing control measures described in Part I.C.4.c., implementation shall be completed before the next anticipated storm

event if possible, but no later than 60 days after the exceedance is discovered, or as otherwise provided or approved by the DEQ's TRO. In cases where construction is necessary to implement control measures, the permittee shall include a schedule in the SWPPP that provides for the completion of the control measures as expeditiously as practicable, but no later than three years after the exceedance is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure. Any control measure modifications shall be documented and dated, and retained with the SWPPP, along with the amount of time taken to modify the applicable control measure or implement additional control measures.

(b) Natural Background Pollutant Levels

If the concentration of a pollutant exceeds a benchmark concentration value, and the permittee determines that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background, corrective action is not required provided that:

- i. the concentration of the benchmark monitoring result is less than or equal to the concentration of that pollutant in the natural background;
- ii. the permittee documents and maintains with the SWPPP the supporting rationale for concluding that benchmark exceedences are in fact attributable solely to natural background pollutant levels. The supporting rationale shall include any data previously collected by the facility or others (including literature studies) that describe the levels of natural background pollutants in the facility's storm water discharges; and
- iii. the permittee notifies the DEQ's TRO on the DMR that the benchmark exceedences are attributable solely to natural background pollutant levels.

Natural background pollutants include those substances that are naturally occurring in soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on the facility's site, or pollutants in run-on from neighboring sources which are not naturally occurring.

(2) Additional Corrective Actions

The permittee shall take corrective action whenever:

- (a) Routine facility inspections, comprehensive site compliance evaluations, inspections by local, state or federal officials, or any other process, observation or event result in a determination that modifications to the storm water control measures are necessary to meet the permit requirements; or
- (b) There is any exceedance of an effluent limitation (including coal pile runoff), or TMDL wasteload allocation; or
- (c) The DEQ's TRO determines, or the permittee becomes aware, that the storm water control measures are not stringent enough for the discharge to meet applicable water quality standards.

The permittee shall review the SWPPP and modify it as necessary to address any deficiencies. Revisions to the SWPPP shall be completed within 30 days following the discovery of the deficiency. When control measures need to be modified or added (distinct from regular preventive maintenance of existing control measures described in Part I.C.4.c., implementation shall be completed before the next anticipated storm event if possible, but no later than 60 days after the deficiency is discovered, or as otherwise provided or approved by the DEQ's TRO. In cases where construction is necessary to implement control measures, the permittee shall include a schedule in the SWPPP that provides for the completion of the control measures as expeditiously as practicable, but no later than three years after the deficiency is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure. The amount of time

taken to modify a control measure or implement additional control measures shall be documented in the SWPPP.

Any corrective actions taken shall be documented and retained with the SWPPP. Reports of corrective actions shall be signed in accordance with Part II.K.

(3) Follow-up Reporting

If at any time monitoring results indicate that discharges from the facility exceed an effluent limitation or a TMDL wasteload allocation, or the DEQ's TRO determines that discharges from the facility are causing or contributing to an exceedance of a water quality standard, immediate steps shall be taken to eliminate the exceedances in accordance with the above Part I.C.3.i.(2). Within 30 calendar days of implementing the relevant corrective action(s) an exceedance report shall be submitted to the DEQ's TRO. The following information shall be included in the report: permit number; facility name, address and location; receiving water; monitoring data from this event; an explanation of the situation; description of what has been done and the intended actions (should the corrective actions not yet be complete) to further reduce pollutants in the discharge; and an appropriate contact name and phone number.

j. Additional Requirements for Salt Storage

Storage piles of salt or piles containing salt used for deicing or other commercial or industrial purposes shall be enclosed or covered to prevent exposure to precipitation. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. All salt storage piles shall be located on an impervious surface. All runoff from the pile, and/or runoff that comes in contact with salt, including under drain systems, shall be collected and contained within a bermed basin lined with concrete or other impermeable materials, or within an underground storage tank(s), or within an above ground storage tank(s), or disposed of through a sanitary sewer (with the permission of the treatment facility). A combination of any or all of these methods may be used. In no case shall salt contaminated storm water be allowed to discharge directly to the ground or to state waters.

4. Storm Water Pollution Prevention Plan (SWPPP)

In addition to the requirements below, refer to Parts I.C.5. through I.C.8 for sector-specific storm water management requirements.

A storm water pollution prevention plan (SWPPP) for the facility was required to be developed and implemented under the previous permit. The existing storm water pollution prevention plan shall be reviewed and modified, as appropriate, to conform to the requirements of this section.

a. Deadlines for SWPPP Preparation and Compliance

(1) The facility shall update and implement any revisions to the SWPPP as expeditiously as practicable, but not later than ninety (90) days from the effective date of the permit.

(2) Measures That Require Construction

In cases where construction is necessary to implement measures required by the plan, the plan shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of this permit. Where a construction compliance schedule is included in the plan, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.

b. Contents of the SWPPP

The contents of the SWPPP shall comply with the requirements listed below and those in Parts I.C.5. through I.C.8 of this permit. The SWPPP shall include, at a minimum, the following items.

(1) Pollution Prevention Team

The plan shall identify the staff individuals by name or title who comprise the facility's storm water pollution prevention team. The pollution prevention team is responsible for assisting the facility or plant manager in developing, implementing, maintaining, revising, and ensuring compliance with the facility's SWPPP. Specific responsibilities of each staff individual on the team shall be identified and listed.

(2) Site Description

The SWPPP shall include the following:

(a) Activities at the Facility

A description of the nature of industrial activities at the facility.

(b) General Location Map

A general location map (e.g., USGS quadrangle or other map) with enough detail to identify the location of the facility and the receiving waters within one mile of the facility.

(c) Site Map

A site map identifying the following:

- i. The boundaries of the property and the size of the property (in acres);
- ii. The location and extent of significant structures and impervious surfaces (roofs, paved areas and other impervious areas);
- iii. Locations of all storm water conveyances including ditches, pipes, swales, and inlets, and the directions of storm water flow (use arrows to show which ways storm water will flow);
- iv. Locations of all existing structural and source control measures, including BMPs;
- v. Locations of all surface water bodies, including wetlands;
- vi. Locations of potential pollutant sources identified under Part I.C.4.b.(3);
- vii. Locations where significant spills or leaks identified under Part I.C.4.b.(4) have occurred;
- viii. Locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and cleaning areas; loading and unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; processing and storage areas; access roads, rail cars and tracks; transfer areas for substances in bulk; and machinery;
- ix. Locations of storm water outfalls and an approximate outline of the area draining to each outfall, and location of municipal storm sewer systems, if the storm water from the facility discharges to them;
- x. Location and description of all non-storm water discharges;

- xi. Location of any storage piles containing salt used for deicing or other commercial or industrial purposes;
- xii. Locations and sources of run-on to the site from adjacent property where the run-on contains significant quantities of pollutants; and
- xiii. Locations of all storm water monitoring points.

(d) Receiving Waters and Wetlands

The name of all surface waters receiving discharges from the site, including intermittent streams, dry sloughs, and arroyos. Provide a description of wetland sites that may receive discharges from the facility. If the facility discharges through a municipal separate storm sewer system (MS4), identify the MS4 operator, and the receiving water to which the MS4 discharges.

(3) Summary of Potential Pollutant Sources

The plan shall identify each separate area at the facility where industrial materials or activities are exposed to storm water. Industrial materials or activities include, but are not limited to: material handling equipment or activities, industrial machinery, raw materials, industrial production and processes, intermediate products, byproducts, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each separate area identified, the description shall include:

(a) Activities in the Area

A list of the industrial activities exposed to storm water (e.g., material storage, equipment fueling and cleaning, cutting steel beams);

(b) Pollutants

A list of the pollutant(s) or pollutant constituents (e.g., crankcase oil, zinc, sulfuric acid, cleaning solvents, etc.) associated with each industrial activity. The pollutant list shall include all significant materials handled, treated, stored or disposed that have been exposed to storm water in the three years prior to the

date this SWPPP was prepared or amended. The list shall include any hazardous substances ~~or oil~~ at the facility.

(4) Spills and Leaks

The SWPPP shall clearly identify areas where potential spills and leaks that can contribute pollutants to storm water discharges can occur and their corresponding outfalls. The plan shall include a list of significant spills and leaks of toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a storm water conveyance during the three-year period prior to the date this SWPPP was prepared or amended. The list shall be updated if significant spills or leaks occur in exposed areas of the facility during the term of the permit. Significant spills and leaks include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

(5) Sampling Data

The plan shall include a summary of existing storm water discharge sampling data taken at the facility. The summary shall include, at a minimum, any data collected during the previous permit term.

(6) Storm Water Controls

- (a) Control measures shall be implemented for all the areas identified in Part I.C.4.b.(3) to prevent or control pollutants in storm water discharges from the facility. Regulated storm water discharges from the facility include storm water run-on that commingles with storm water discharges associated with industrial activity at the facility. The SWPPP shall describe the type, location and implementation of all control measures for each area where industrial materials or activities are exposed to storm water. Selection of control measures shall take into consideration:
- i. That preventing storm water from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from storm water;
 - ii. Control measures generally shall be used in combination with each other for most effective water quality protection;
 - iii. Assessing the type and quantity of pollutants, including their potential to

impact receiving water quality, is critical to designing effective control measures;

- iv. That minimizing impervious areas at the facility can reduce runoff and improve groundwater recharge and stream base flows in local streams (however, care must be taken to avoid ground water contamination);
- v. Flow attenuation by use of open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;
- vi. Conservation or restoration of riparian buffers will help protect streams from storm water runoff and improve water quality; and
- vii. Treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

(b) Nonnumeric Technology-Based Effluent Limits

The permittee shall implement the following types of control measures to prevent and control pollutants in the storm water discharges from the facility, unless it can be demonstrated and documented that such controls are not relevant to the discharges (e.g., there are no storage piles containing salt).

i. Good Housekeeping

The permittee shall keep clean all exposed areas of the facility that are potential sources of pollutants to storm water discharges. Typical problem areas include areas around trash containers, storage areas, loading docks, and vehicle fueling and maintenance areas. The plan shall include a schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and containers.

ii. Eliminating and Minimizing Exposure

To the extent practicable, manufacturing, processing and material storage areas (including loading and unloading; storage, disposal, cleaning, maintenance, and fueling operations)

shall be located inside, or protected by a storm-resistant covering to prevent exposure to rain, snow, snowmelt, and runoff. Note: Eliminating exposure at all industrial areas may make the facility eligible for the "Conditional Exclusion for No Exposure" provision of 9VAC25-31-120 E, thereby eliminating the need to have a permit.

iii. Preventive Maintenance

The permittee shall have a preventive maintenance program that includes regular inspection, testing, maintenance and repairing of all industrial equipment and systems to avoid situations that could result in leaks, spills and other releases of pollutants in storm water discharge from the facility. This program is in addition to the specific control measure maintenance required under Part I.C.4.c.

iv. Spill Prevention and Response Procedures

The plan shall describe the procedures that will be followed for preventing and responding to spills and leaks, including:

- preventive measures, such as barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling;
- response procedures, including notification of appropriate facility personnel, emergency agencies, and regulatory agencies, and procedures for stopping, containing and cleaning up spills. Measures for cleaning up hazardous material spills or leaks shall be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265. Employees who may cause, detect or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of

these individuals shall be a member of the Pollution Prevention Team;

- procedures for plainly labeling containers (e.g., "used Oil," "Spent Solvents," "Fertilizers and Pesticides," etc.) that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur; and
- contact information for individuals and agencies that must be notified in the event of a spill shall be included in the SWPPP, and in other locations where it will be readily available.

v. Routine Facility Inspections

Facility personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who can also evaluate the effectiveness of control measures shall regularly inspect all areas of the facility where industrial materials or activities are exposed to storm water. These inspections are in addition to, or as part of, the comprehensive site evaluation required under Part I.C.4.d. At least one member of the Pollution Prevention Team shall participate in the routine facility inspections. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit or written approval is received from the DEQ for less frequent intervals. At least once each calendar year, the routine facility inspection must be conducted during a period when a storm water discharge is occurring.

Any deficiencies in the implementation of the SWPPP that are found shall be corrected as soon as practicable, but not later than within 30 days of the inspection, unless permission for a

later date is granted in writing by the Director. The results of the inspections shall be documented in the SWPPP, and shall included at a minimum:

- the inspection date and time;
- the name and signature of the inspector(s);
- weather information and a description of any discharges occurring at the time of the inspection;
- any previously unidentified discharges of pollutants from the site;
- any control measures needing maintenance or repairs;
- any failed control measures that need replacement;
- any incidents of noncompliance observed; and
- any additional control measures needed to comply with the permit requirements.

vi. Employee Training

The permittee shall implement a storm water employee training program for the facility. The SWPPP shall include a schedule for all types of necessary training, and shall document all training sessions and the employees who received the training. Training shall be provided for all employees who work in areas where industrial materials or activities are exposed to storm water, and for employees who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel, etc.). The training shall cover the components and goals of the SWPPP, and include such topics as spill response, good housekeeping, material management practices, control measure operation and maintenance, etc. The SWPPP shall include a summary of any training performed.

vii. Sediment and Erosion Control

The plan shall identify areas at the facility that, due to topography, land disturbance (e.g., construction, landscaping, site grading), or other factors, have a potential for soil erosion. The permittee shall identify and implement structural, vegetative, and stabilization control measures to prevent or control on-site and off-site erosion and sedimentation. Flow velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel if the flows would otherwise create erosive conditions.

viii. Management of Runoff

The plan shall describe the storm water runoff management practices (i.e., permanent structural control measures) for the facility. These types of control measures are typically used to divert, infiltrate, reuse, or otherwise reduce pollutants in storm water discharges from the site. Structural control measures may require a separate permit under §404 of the CWA and the Virginia Water Protection Permit Program Regulation (9 VAC 25-210) before installation begins.

ix. Dust Suppression and Vehicle Tracking of Industrial Materials

The permittee shall implement control measures to minimize the generation of dust and off-site tracking of raw, final, or waste materials. Storm water collected on site may be used for the purposes of dust suppression or for spraying stockpiles. Potable water, well water and uncontaminated reuse water may also be used for this purpose. There shall be no direct discharge to surface waters from dust suppression activities or as a result of spraying stockpiles.

c. Maintenance

The SWPPP shall include a description of procedures and a regular schedule for preventive maintenance of all control measures, and shall include a description of the back-up practices that are in place should a runoff

event occur while a control measure is off-line. The effectiveness of nonstructural control measure shall also be maintained by appropriate means (e.g., spill response supplies available and personnel trained, etc.). All control measures identified in the SWPPP shall be maintained in effective operating condition and shall be observed at least annually during active operation (i.e., during a storm water runoff event) to ensure that they are functioning correctly. Where discharge locations are inaccessible, nearby downstream locations shall be observed. The observations shall be documented in the SWPPP.

If site inspections required by Part I.C.4.b.(6)(b)v. or Part I.C.4.d. identify control measures that are not operating effectively, repairs or maintenance shall be performed before the next anticipated storm event. If maintenance prior to the next anticipated storm event is not possible, maintenance shall be scheduled and accomplished as soon as practicable. In the interim, back-up measures shall be employed and documented in the SWPPP until repairs or maintenance is complete. Documentation shall be kept with the SWPPP of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, date(s) for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance or repair schedules.

d. Comprehensive Site Compliance Evaluation

The permittee shall conduct comprehensive site compliance evaluations at least once each calendar year. The evaluations shall be done by qualified personnel who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at the facility, and who can also evaluate the effectiveness of control measures. The personnel conducting the evaluations may be either facility employees or outside personnel hired by the facility.

(1) Scope of the Compliance Evaluation

Evaluations shall include all areas where industrial materials or activities are exposed to storm water, as identified in Part I.C.4.b.(3). The personnel shall evaluate:

- (a) Industrial materials, residue or trash that may have or could come into contact with storm water;
- (b) Leaks or spills from industrial equipment, drums, barrels, tanks or other containers that have occurred within the past three years;

- (c) Off-site tracking of industrial or waste materials or sediment where vehicles enter or ~~exit the site;~~
 - (d) Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas;
 - (e) Evidence of, or the potential for, pollutants entering the drainage system;
 - (f) Evidence of pollutants discharging to surface waters at all facility outfalls, and the condition of and around the outfall, including flow dissipation measures to prevent scouring;
 - (g) Review of storm water related training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of control measures, including BMPs;
 - (h) Results of both visual and any analytical monitoring done during the past year shall be taken into consideration during the evaluation.
- (2) Based on the results of the evaluation, the SWPPP shall be modified as necessary (e.g., show additional controls on the map required by Part I.C.4.b.(2)(c); revise the description of controls required by Part I.C.4.b.(6) to include additional or modified control measures designed to correct problems identified). Revisions to the SWPPP shall be completed within 30 days following the evaluation, unless permission for a later date is granted in writing by the Director. If existing control measures need to be modified or if additional control measures are necessary, implementation shall be completed before the next anticipated storm event, if practicable, but not more than 60 days after completion of the comprehensive site evaluation, unless permission for a later date is granted in writing by the DEQ;
- (3) Compliance Evaluation Report
- A report shall be written summarizing the scope of the evaluation, name(s) of personnel making the evaluation, the date of the evaluation, and all observations relating to the implementation of the SWPPP, including elements stipulated in Part I.C.4.d.(1)(a) through (h) above. Observations shall include such things as: the location(s) of discharges of pollutants from the site; location(s) of previously unidentified sources of pollutants;

location(s) of control measures that need to be maintained or repaired; location(s) of failed control-measures that need replacement; and location(s) where additional control measures are needed. The report shall identify any incidents of noncompliance that were observed. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the SWPPP and this permit. The report shall be signed in accordance with Part II.K. and maintained with the SWPPP.

- (4) Where compliance evaluation schedules overlap with routine inspections required under Part I.C.4.b.(6)(b)v., the annual compliance evaluation may be used as one of the routine inspections.

e. Signature and Plan Review.

- (1) Signature and Location

The SWPPP, including revisions to the SWPPP to document any corrective actions taken as required by Part I.C.3.i., shall be signed in accordance with Part II.K., dated, and retained on-site at the facility covered by this permit in accordance with Part II.B.2. All other changes to the SWPPP, and other permit compliance documentation, shall be signed and dated by the person preparing the change or documentation.

- (2) Availability

The permittee shall retain a copy of the current SWPPP required by this permit at the facility, and it shall be immediately available to the DEQ, EPA, or the operator of an MS4 receiving discharges from the site at the time of an onsite inspection or upon request.

- (3) Required Modifications

The permittee shall modify the SWPPP whenever necessary to address any corrective actions required by Part I.C.3.i.

Changes to the SWPPP shall be made in accordance with the corrective action deadlines in Part I.C.3.i., and shall be signed and dated in accordance with Part II.K.

The Director may notify the permittee at any time that the SWPPP, control measures, or other components of the facility's storm water program do not meet one or more of the requirements of this permit. The notification shall identify specific provisions of the permit that are not being met, and may include required modifications to the storm

water program, additional monitoring requirements, and special reporting requirements. The permittee shall make any required changes to the SWPPP within 60 days of receipt of such notification, unless permission for a later date is granted in writing by the Director, and shall submit a written certification to the Director that the requested changes have been made.

f. Maintaining an Updated SWPPP

- (1) The permittee shall review and amend the SWPPP as appropriate whenever:
 - (a) There is construction or a change in design, operation, or maintenance at the facility that has a significant effect on the discharge, or the potential for the discharge, of pollutants from the facility;
 - (b) Routine inspections or compliance evaluations determine that there are deficiencies in the control measures, including BMPs;
 - (c) Inspections by local, state, or federal officials determine that modifications to the SWPPP are necessary;
 - (d) There is a spill, leak or other release at the facility; or
 - (e) There is an unauthorized discharge from the facility.
- (2) SWPPP modifications shall be made within 30 calendar days after discovery, observation or event requiring a SWPPP modification. Implementation of new or modified control measures (distinct from regular preventive maintenance of existing control measures described in Part I.C.4.b.(6)(b)iii. shall be initiated before the next storm event if possible, but no later than 60 days after discovery, or as otherwise provided or approved by the Director. The amount of time taken to modify a control measure or implement additional control measures shall be documented in the SWPPP.
- (3) If the SWPPP modification is based on a release or unauthorized discharge, include a description and date of the release, the circumstances leading to the release, actions taken in response to the release, and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements of Part II.G. of this permit.

5. Facility-Specific Storm Water Conditions - Land Transportation and Warehousing (Sector P)

a. Discharges Covered Under This Section

The requirements listed under this section apply to stormwater discharges associated with industrial activity from ground transportation facilities and rail transportation facilities, that have vehicle and equipment maintenance shops (vehicle and equipment rehabilitation, mechanical repairs, painting, fueling and lubrication) or equipment cleaning operations. Also covered under this section are facilities associated with public warehousing and storage that do not have vehicle and equipment maintenance shops or equipment cleaning operations.

b. Special Conditions

Prohibition of Non-Stormwater Discharges

This permit does not authorize the discharge of vehicle, equipment, or surface washwater, including tank-cleaning operations. Such discharges must be authorized under a separate VPDES permit, discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements, or recycled on-site.

c. Stormwater Pollution Prevention Plan Requirements

In addition to the requirements of Part I.C.4., the SWPPP shall include, at a minimum, the following items.

(1) Site Description - Site Map

The site map shall identify the locations of any of the following activities and indicate whether the activities may be exposed to precipitation or surface runoff: fueling stations; vehicle and equipment maintenance or cleaning areas; storage areas for vehicle and equipment with actual or potential fluid leaks; loading and unloading areas; areas where treatment, storage or disposal of wastes occur; liquid storage tanks; processing areas; and storage areas.

(2) Summary of Potential Pollutant Sources

The plan shall describe and assess the potential for the following to contribute pollutants to stormwater discharges: on-site waste storage or disposal; dirt or gravel parking areas for vehicles awaiting maintenance; plumbing connections between shop floor drains and the stormwater conveyance system; and fueling areas.

(3) Stormwater Controls

(a) Good Housekeeping

i. Vehicle and Equipment Storage Areas

The storage of vehicles and equipment awaiting maintenance with actual or potential fluid leaks shall be confined to designated areas (delineated on the site map). The permittee shall consider the following measures (or their equivalents): the use of drip pans under vehicles and equipment; indoor storage of vehicles and equipment; installation of berms or dikes; use of absorbents; roofing or covering storage areas; and cleaning pavement surface to remove oil and grease.

ii. Fueling Areas

The permittee shall describe and implement measures that prevent or minimize contamination of the stormwater runoff from fueling areas. The permittee shall consider the following measures (or their equivalents): covering the fueling area; using spill and overflow protection and cleanup equipment; minimizing stormwater runoff and runoff to the fueling area; using dry cleanup methods; and treating or recycling collected stormwater runoff.

iii. Material Storage Areas

Storage vessels of all materials (e.g., for used oil or oil filters, spent solvents, paint wastes, hydraulic fluids) shall be maintained in good condition, so as to prevent contamination of stormwater, and plainly labeled (e.g., "used oil," "spent solvents," etc.). The permittee shall consider the following measures (or their equivalents): indoor storage of the materials; installation of berms and dikes around the areas, minimizing runoff of stormwater to the areas; using dry cleanup methods; and treating or recycling the collected stormwater runoff.

iv. Vehicle and Equipment Cleaning Areas

The permittee shall describe and implement measures that prevent or minimize contamination of stormwater runoff from all areas used for vehicle and equipment cleaning. The permittee

shall consider the following measures (or their equivalents): performing all cleaning operations indoors; covering the cleaning operation; ensuring that all washwaters drain to a proper collection system (i.e., not the stormwater drainage system unless VPDES permitted); and treating or recycling the collected stormwater runoff.

v. Vehicle and Equipment Maintenance Areas

The permittee shall describe and implement measures that prevent or minimize contamination of the stormwater runoff from all areas used for vehicle and equipment maintenance. The permittee shall consider the following measures (or their equivalents): performing maintenance activities indoors; using drip pans; keeping an organized inventory of materials used in the shop; draining all parts of fluids prior to disposal; prohibiting wet clean up practices where the practices would result in the discharge of pollutants to stormwater drainage systems; using dry cleanup methods; treating or recycling collected stormwater runoff; and minimizing runoff and runoff of stormwater to maintenance areas.

vi. Locomotive Sanding (loading sand for traction) Areas

The plan shall describe measures that prevent or minimize contamination of the stormwater runoff from areas used for locomotive sanding. The permittee shall consider the following measures (or their equivalents): covering sanding areas; minimizing stormwater runoff and runoff; or appropriate sediment removal practices to minimize the off-site transport of sanding material by stormwater.

(b) Routine Facility Inspections

The following areas and activities shall be included in all inspections: storage area for vehicles and equipment awaiting maintenance; fueling areas; indoor and outdoor vehicle and equipment maintenance

areas; material storage areas; vehicle and equipment cleaning areas; and loading and unloading areas.

(c) Employee Training

Employee training shall take place, at a minimum, annually (once per calendar year). Employee training shall address the following as applicable: used oil and spent solvent management; fueling procedures; general good housekeeping practices; proper painting procedures; and used battery management.

d. Benchmark Monitoring and Reporting Requirements

Land transportation and warehousing facilities are required to monitor their stormwater discharges for the pollutants of concern listed in Parts I.A. and I.C.2.

6. Facility-Specific Storm Water Conditions - Water Transportation (Sector Q)

a. Discharges Covered Under This Section

The requirements listed under this section apply to stormwater discharges associated with industrial activity from water transportation that have vehicle (vessel) maintenance shops or equipment cleaning operations. The water transportation industry includes facilities engaged in foreign or domestic transport of freight or passengers in deep sea or inland waters; marine cargo handling operations; ferry operations; towing and tugboat services; and marinas.

b. Special Conditions

Prohibition of Non-Stormwater Discharges

In addition to the general non-stormwater prohibition in Part I.C.3.f., the following discharges are not covered by this permit: bilge and ballast water, sanitary wastes, pressure wash water, and cooling water originating from vessels.

c. Stormwater Pollution Prevention Plan Requirements

In addition to the requirements of Part I.C.4., the SWPPP shall include, at a minimum, the following items.

(1) Site Description - Site Map

- (a) The site map shall identify the locations where any of the following activities may be exposed to precipitation or surface runoff: fueling; engine maintenance or repair; vessel maintenance or repair; pressure washing; painting; sanding; blasting; welding; metal fabrication; loading and unloading areas; locations used for the treatment, storage or

disposal of wastes; liquid storage tanks; liquid storage areas (e.g., paint, solvents, resins); and material storage areas (e.g., blasting media, aluminum, steel, scrap iron).

(b) Summary of Potential Pollutant Sources

The plan shall describe the following additional sources and activities that have potential pollutants associated with them: outdoor manufacturing or processing activities (i.e., welding, metal fabricating); and significant dust or particulate generating processes (e.g., abrasive blasting, sanding, painting).

(2) Stormwater Controls

(a) Good Housekeeping

For the following industrial activities under this specific Sector, refer to Part I.B.10.a. for applicable best management practices (BMP) and other operation controls:

- i. Pressure Washing Area;
- ii. Blasting and Painting Areas;
- iii. Material Storage Areas;
- iv. Engine Maintenance and Repair Areas;
- v. Material Handling Areas;
- vi. Drydock Activities; and
- vii. General Yard Area

(b) Preventative Maintenance

As part of the facility's preventive maintenance program, stormwater management devices shall be inspected and maintained in a timely manner (e.g., oil/water separators and sediment traps cleaned to ensure that spent abrasives, paint chips and solids are intercepted and retained prior to entering the storm drainage system). Facility equipment and systems shall also be inspected and tested to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.

(c) Routine Facility Inspections

The following areas shall be included in all quarterly inspections: pressure washing area; blasting, sanding, and painting areas; material storage areas; engine maintenance and repair areas; material handling areas; drydock area; and general yard area. The

requirement for routine facility inspections is waived for facilities that have maintained an active VEEP E3/E4 status.

(d) Employee Training

Training shall address, at a minimum, the following activities (as applicable): used oil management; spent solvent management; disposal of spent abrasives; disposal of vessel wastewaters; spill prevention and control; fueling procedures; general good housekeeping practices; painting and blasting procedures; and used battery management.

d. Benchmark Monitoring and Reporting Requirements

Water transportation facilities are required to monitor their stormwater discharges for the pollutants of concern listed in Parts I.A. and I.C.2.

7. Facility-Specific Storm Water Conditions - Ship and Boat Building or Repair Yards (Sector R)

a. Discharges Covered Under This Section

The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities engaged in ship building and repairing and boat building and repairing. According to the U.S. Coast Guard (USCG), a vessel 65 feet or greater in length is referred to as a ship and a vessel smaller than 65 feet is a boat.

b. Special Conditions - Prohibition of Non-Storm Water Discharges

In addition to the general non-storm water prohibition in Part I.C.3.f., the following discharges are not covered by this permit unless addressed elsewhere in this permit: bilge and ballast water, pressure wash water, sanitary wastes, and cooling water originating from vessels.

c. Storm Water Pollution Prevention Plan Requirements

In addition to the requirements of Part I.C.4., the SWPPP shall include, at a minimum, the following items.

(1) Site Description

(a) Site Map

The site map shall identify the locations where any of the following activities may be exposed to precipitation or surface runoff: fueling; engine maintenance or repair; vessel maintenance or repair; pressure washing; painting; sanding; blasting; welding; metal fabrication; loading and unloading areas;

locations used for the treatment, storage or disposal of wastes; liquid storage tanks; liquid storage areas (e.g., paint, solvents, resins); and material storage areas (e.g., blasting media, aluminum, steel, scrap iron).

(b) Potential Pollutant Sources

The plan shall include a description of the following additional sources and activities that have potential pollutants associated with them (if applicable): outdoor manufacturing and processing activities (e.g., welding, metal fabricating); and significant dust and particulate generating processes (e.g., abrasive blasting, sanding, painting).

(2) Stormwater Controls

(a) Good Housekeeping

For the following industrial activities under this specific Sector, refer to Part I.B.10.a. for applicable best management practices (BMP) and other operation controls:

- i. Pressure Washing Area;
- ii. Blasting and Painting Areas;
- iii. Material Storage Areas;
- iv. Engine Maintenance and Repair Areas;
- v. Material Handling Areas;
- vi. Drydock Activities; and
- vii. General Yard Area

(b) Preventative Maintenance

As part of the facility's preventive maintenance program, storm water management devices shall be inspected and maintained in a timely manner (e.g., oil/water separators and sediment traps cleaned to ensure that spent abrasives, paint chips and solids are intercepted and retained prior to entering the storm drainage system). Facility equipment and systems shall also be inspected and tested to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.

(c) Routine Facility Inspections

The following areas shall be included in all quarterly routine facility inspections: pressure washing area; blasting, sanding, and painting areas; material storage areas; engine maintenance or repair areas; material

handling areas; drydock area; and general yard area. The requirement for routine facility inspections is waived for facilities that have achieved and maintained an active status in the DEQ's Virginia Environmental Excellence Program (VEEP) E3/E4.

(d) Employee Training

Training shall address, at a minimum, the following activities (as applicable): used oil management; spent solvent management; proper disposal of spent abrasives; proper disposal of vessel wastewaters, spill prevention and control; fueling procedures; general good housekeeping practices; painting and blasting procedures; and used battery management.

d. Benchmark Monitoring and Reporting Requirements

Ship and boat building or repairing yards are required to monitor their storm water discharges for the pollutants of concern listed in Parts I.A. and I.C.2.

8. Facility-Specific Storm Water Conditions - Air Transportation (Sector S)

a. Discharges Covered Under This Section

The requirements listed under this section apply to stormwater discharges associated with industrial activity from air transportation facilities including airports, airport terminal services, air transportation (scheduled and nonscheduled), flying fields, air courier services, and establishments engaged in operating and maintaining airports, and servicing, repairing or maintaining aircraft (generally classified under SIC Code 45), which have vehicle maintenance shops, material handling facilities, equipment cleaning operations, or airport or aircraft deicing or anti-icing operations. For the purpose of this section, the term "deicing" is defined as the process to remove frost, snow, or ice and "anti-icing" is the process which prevents the accumulation of frost, snow, or ice. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, or deicing or anti-icing operations are addressed under this section.

b. Special Definitions

The following definitions are only for this section of the permit:

"Aircraft deicing fluid" or "ADF" means a fluid (other than hot water) applied to aircraft to remove or prevent any accumulation of snow or ice on the aircraft. This includes deicing and anti-icing fluids.

"Airfield pavement" means all paved surfaces on the airside of an airport.

"Airside" means the part of an airport directly involved in the arrival and departure of aircraft, including runways, taxiways, aprons, and ramps.

"Annual non-propeller aircraft departures" means the average number of commercial turbine-engine aircraft that are propelled by jet (i.e., turbojet or turbofan) that take off from an airport on an annual basis, as tabulated by the Federal Aviation Administration (FAA).

"Available ADF" means 75% of the normalized Type I aircraft deicing fluid and 10% of the normalized Type IV aircraft deicing fluid, excluding aircraft deicing fluids used for defrosting or deicing for safe taxiing.

"Collection requirement" means, for new sources, the requirement for permittee to collect available ADF.

"Defrosting" means the removal of frost contamination from an aircraft when there has been no active precipitation.

"Deicing" mean procedures and practices to remove or prevent any accumulation of snow or ice on:

- (1) An aircraft; or
- (2) Airfield pavement

"Normalized Type I or Type IV aircraft deicing fluid" means ADF less any water added by the manufacturer or customer before ADF application.

"Primary airport" means an airport defined at 49 USC § 47102 (15).

c. Special Conditions - Prohibition of Non-Stormwater Discharges

In addition to the general non-stormwater prohibition in Part I.C.3.f., the following discharges are not covered by this permit: aircraft, ground vehicle, runway and equipment washwaters, and dry weather discharges of deicing or anti-icing chemicals. These discharges must be covered by a separate VPDES permit. Note: Discharge resulting from snowmelt is not a dry weather discharge.

d. Stormwater Pollution Prevention Plan Requirements

SWPPPs developed for areas of the facility occupied by tenants of the airport shall be integrated with the plan for the entire airport. For the purposes of this permit, tenants of the airport facility include airline

passenger or cargo companies, fixed based operators and other parties who have contracts with the airport authority to conduct business operations on airport property and whose operations result in stormwater discharges associated with industrial activity. In addition to the requirements of Part I.C.4., the SWPPP shall include, at a minimum, the following items.

(1) Site Description

(a) Site Map

The site map shall identify the location of the following activities and indicate any of the activities that may be exposed to precipitation or surface runoff: aircraft and runway deicing or anti-icing operations; fueling stations; aircraft, ground vehicle and equipment maintenance and cleaning areas; and storage areas for aircraft, ground vehicles and equipment awaiting maintenance.

(b) Summary of Potential Pollutant Sources

The plan shall include a narrative description of the potential pollutant sources from the following activities: aircraft, runway, ground vehicle and equipment maintenance and cleaning.

(c) Deicing Season

See Part I.B.9. regarding anti-icing, deicing, and application of chemical solutions to runway surfaces across the term of this permit.

(2) Stormwater Controls

(a) Good Housekeeping

i. Aircraft, Ground Vehicle and Equipment Maintenance Areas

The permittee shall describe and implement measures that prevent or minimize the contamination of stormwater runoff from all areas used for aircraft, ground vehicle and equipment maintenance (including the maintenance conducted on the terminal apron and in dedicated hangars). Appropriate control measures (or their equivalents) shall be implemented, such as the following practices: performing maintenance activities indoors; maintaining an organized inventory of materials used in the maintenance areas; draining all parts of fluids prior to disposal;

preventing the practice of hosing down the apron or hangar floor; using dry cleanup methods; and collecting the stormwater runoff from the maintenance area and providing treatment or recycling.

ii. Aircraft, Ground-Vehicle and Equipment Cleaning Areas

Permittees shall ensure that cleaning of equipment is conducted in designated areas only and clearly identify these areas on the ground and delineate them on the site map. The permittee shall describe and implement measures that prevent or minimize the contamination of the stormwater runoff from cleaning areas.

iii. Aircraft, Ground Vehicle and Equipment Storage Areas

The storage of aircraft, ground vehicles and equipment awaiting maintenance shall be confined to designated areas (delineated on the site map).

Appropriate control measures, including any BMPs (or their equivalents) shall be implemented, such as the following practices: indoor storage of aircraft and ground vehicles; the use of drip pans for the collection of fluid leaks; and perimeter drains, dikes or berms surrounding storage areas.

iv. Material Storage Areas

Storage vessels of all materials (e.g., used oils, hydraulic fluids, spent solvents, and waste aircraft fuel) shall be maintained in good condition, so as to prevent or minimize contamination of stormwater, and plainly labeled (e.g., "used oil," "Contaminated Jet A," etc.).

The permittee shall describe and implement measures that prevent or minimize contamination of precipitation or runoff from storage areas.

Appropriate control measures (or their equivalents) shall be implemented, such as the following practices: indoor storage of materials; centralized storage areas for waste materials; and installation of berms and dikes around storage areas.

v. Airport Fuel System and Fueling Areas

The permittee shall describe and implement measures that prevent or minimize the discharge of fuels to the storm sewer or surface waters resulting from fuel servicing activities or other operations conducted in support of the airport fuel system. Appropriate control measures (or their equivalents) shall be implemented, such as the following practices: implementing spill and overflow practices (e.g., placing absorptive materials beneath aircraft during fueling operations); using dry cleanup methods; and collecting the stormwater runoff.

e. Benchmark Monitoring and Reporting Requirements

Stormwater discharges from those portions of air transportation facilities where vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), and equipment cleaning is performed shall be sampled for the parameters listed in Parts I.A. and I.C.2.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.
4. All analysis for compliance with effluent limitations shall be in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records

1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit.

Monitoring results shall be submitted to:

Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, Virginia 23462

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.
3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.
4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II.F.; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F., shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the un-authorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extra-ordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
 - a. Any unanticipated bypass; and
 - b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I. if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II.I.1. or 2., in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II.G., H. and I. may be made to the Department's Regional Office at (757) 518-2000 (voice), and to report online:

<http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/PollutionReportingForm.aspx>

For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Management maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
 - (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
 - (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part II.K.1.;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - c. The written authorization is submitted to the Department.
3. Changes to Authorization. If an authorization under Part II.K.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
4. Certification. Any person signing a document under Parts II.K.1. or 2. shall make the following certification:

"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."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. The permittee shall comply with

effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or

auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II.U.2. and U.3.

2. Notice

- a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
- b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass

- a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part II.U.2.

- b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required in Part II.I.; and
 - d. The permittee complied with any remedial measures required under Part II.S.
3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2., a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II.Y.1. this permit may be automatically transferred to a new permittee if:

- a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
- b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
- c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.