



**Hampton Roads Sanitation District  
Industrial Wastewater Discharge Permit No. 0102**

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In accordance with all terms and conditions of the Hampton Roads Sanitation District Industrial Wastewater Discharge Regulations, and in accordance with any applicable provision of Federal or State law or regulation;

Permission is Hereby Granted to: **Department of the Navy, Commander, Navy Region Mid-Atlantic, 1510 Gilbert Street, Norfolk, VA 23511-2737 for Joint Expeditionary Base, Little Creek, Norfolk, Virginia 23521**

Classified by NAICS No. **928110 - Significant Industrial User**

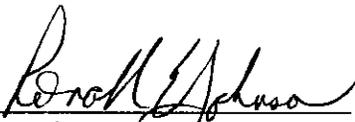
For the contribution of **Industrial Wastes (Amphibious Training Support, Steam Plant Complex)**

into the Hampton Roads Sanitation District at **Shore Drive, Virginia Beach, Virginia**

This Permit is based on information provided in the Permit application, which together with the following conditions and requirements is considered a part of this Permit. This Permit is not transferable.

Effective **1st day of March 2010**

To Expire **28th day of February 2013**

  
\_\_\_\_\_  
General Manager  
(By Direction)



**Hampton Roads Sanitation District  
Industrial Wastewater Discharge Permit No. 0102**

**EFFLUENT DISCHARGE LIMITATIONS**

The following referenced parameters are known to exist in the Permittee's discharge through information provided in the Permit application. The limitations set forth below shall be met at all times. In addition, all other effluent limitations and general discharge prohibitions set forth in the Hampton Roads Sanitation District's Industrial Wastewater Discharge Regulations (7/1/99 Ed.) and all applicable Federal and State limitations shall be met.

Sampling Point Name: <b>751 (Pump Station)</b>		
Parameter (reported in mg/L unless otherwise indicated)	Calendar Month Average <sup>1</sup>	Calendar Day Maximum <sup>2</sup>
Arsenic (As)	0.1	0.1
Cadmium (Cd)	0.1	0.1
Chromium, Total (Cr)	2.0	5.0
Copper (Cu)	2.0	5.0
Cyanide (CN <sup>-</sup> )	0.5	1.0
Lead (Pb)	1.0	2.0
Mercury (Hg)	0.01	0.02
Nickel (Ni)	1.0	2.0
Phenolic Compounds	1.0	2.0
Silver (Ag)	0.25	0.5
Zinc (Zn)	2.0	5.0
Oil & Grease (SGT-HEM) (O&G) <sup>3</sup>	100	100
pH (s.u.)	≥5.0	≥5.0
Flow (GPD) <sup>4</sup>	23,000	46,000
Toxic Organics (TO) <sup>5</sup>		2.13

<sup>1</sup> Average of any number of daily values obtained during a calendar month.

<sup>2</sup> Maximum for any sample obtained during any calendar day.

<sup>3</sup> There shall be no visible free oil present.

<sup>4</sup> The flow quantities listed are not enforced as Permit limitations.

<sup>5</sup> No single parameter or BTEX concentration shall exceed 1.0 mg/L.



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Sampling Point Name: <b>2115 (Pump Station)</b>		
Parameter (reported in mg/L unless otherwise indicated)	Calendar Month Average <sup>1</sup>	Calendar Day Maximum <sup>2</sup>
Arsenic (As)	0.1	0.1
Cadmium (Cd)	0.1	0.1
Chromium, Total (Cr)	2.0	5.0
Copper (Cu)	2.0	5.0
Cyanide (CN <sup>-</sup> )	0.5	1.0
Lead (Pb)	1.0	2.0
Mercury (Hg)	0.01	0.02
Nickel (Ni)	1.0	2.0
Phenolic Compounds	1.0	2.0
Silver (Ag)	0.25	0.5
Zinc (Zn)	2.0	5.0
Oil & Grease (SGT-HEM) (O&G) <sup>3</sup>	100	100
pH (s.u.)	≥5.0	≥5.0
Flow (GPD) <sup>4</sup>	43,000	56,000
Toxic Organics (TO) <sup>5</sup>		2.13

<sup>1</sup> Average of any number of daily values obtained during a calendar month.

<sup>2</sup> Maximum for any sample obtained during any calendar day.

<sup>3</sup> There shall be no visible free oil present.

<sup>4</sup> The flow quantities listed are not enforced as Permit limitations.

<sup>5</sup> No single parameter or BTEX concentration shall exceed 1.0 mg/L.



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Sampling Point Name: <b>NRTH (Manhole)</b>		
Parameter (reported in mg/L unless otherwise indicated)	Calendar Month Average <sup>1</sup>	Calendar Day Maximum <sup>2</sup>
Arsenic (As)	0.1	0.1
Cadmium (Cd)	0.1	0.1
Chromium, Total (Cr)	2.0	5.0
Copper (Cu)	2.0	5.0
Cyanide (CN <sup>-</sup> )	0.5	1.0
Lead (Pb)	1.0	2.0
Mercury (Hg)	0.01	0.02
Nickel (Ni)	1.0	2.0
Phenolic Compounds	1.0	2.0
Silver (Ag)	0.25	0.5
Zinc (Zn)	2.0	5.0
Oil & Grease (SGT-HEM) (O&G) <sup>3</sup>	100	100
pH (s.u.)	≥5.0	≥5.0
Flow (GPD) <sup>4</sup>	143,000	162,000
Toxic Organics (TO) <sup>5</sup>		2.13

<sup>1</sup> Average of any number of daily values obtained during a calendar month.

<sup>2</sup> Maximum for any sample obtained during any calendar day.

<sup>3</sup> There shall be no visible free oil present.

<sup>4</sup> The flow quantities listed are not enforced as Permit limitations.

<sup>5</sup> No single parameter or BTEX concentration shall exceed 1.0 mg/L.



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Sampling Point Name: <b>EAST (Manhole)</b>		
Parameter (reported in mg/L unless otherwise indicated)	Calendar Month Average <sup>1</sup>	Calendar Day Maximum <sup>2</sup>
Arsenic (As)	0.03	0.03
Cadmium (Cd)	0.03	0.03
Chromium, Total (Cr)	0.7	1.5
Copper (Cu)	0.8	1.5
Cyanide (CN <sup>-</sup> )	0.2	0.3
Lead (Pb)	0.3	0.6
Mercury (Hg)	0.003	0.007
Nickel (Ni)	0.3	0.6
Phenolic Compounds	0.3	0.6
Silver (Ag)	0.12	0.3
Zinc (Zn)	0.8	1.6
Oil & Grease (SGT-HEM) (O&G) <sup>3</sup>	50	50
pH (s.u.)	≥5.0	≥5.0
Flow (GPD) <sup>4</sup>	422,000	476,200
Toxic Organics (TO) <sup>5</sup>		2.13

<sup>1</sup> Average of any number of daily values obtained during a calendar month.

<sup>2</sup> Maximum for any sample obtained during any calendar day.

<sup>3</sup> There shall be no visible free oil present.

<sup>4</sup> The flow quantities listed are not enforced as Permit limitations.

<sup>5</sup> No single parameter or BTEX concentration shall exceed 1.0 mg/L.



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Sampling Point Name: <b>STH6 (South Lagoon)</b>		
Parameter (reported in mg/L unless otherwise indicated)	Calendar Month Average <sup>1</sup>	Calendar Day Maximum <sup>2</sup>
Arsenic (As)	0.1	0.1
Cadmium (Cd)	0.1	0.1
Chromium, Total (Cr)	2.0	5.0
Copper (Cu)	2.0	5.0
Cyanide (CN-)	0.5	1.0
Lead (Pb)	1.0	2.0
Mercury (Hg)	0.01	0.02
Nickel (Ni)	1.0	2.0
Phenolic Compounds	1.0	2.0
Silver (Ag)	0.25	0.5
Zinc (Zn)	2.0	5.0
Oil & Grease (SGT-HEM) (O&G) <sup>3</sup>	100	100
pH (s.u.)	≥5.0 - ≤11.0	≥5.0 - ≤11.0
Flow (GPD) <sup>4</sup>	60,000	60,000

<sup>1</sup> Average of any number of daily values obtained during a calendar month.

<sup>2</sup> Maximum for any sample obtained during any calendar day.

<sup>3</sup> There shall be no visible free oil present.

<sup>4</sup> The flow quantities listed are not enforced as Permit limitations.



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**MONITORING REQUIREMENTS**

The following sample(s) shall be collected as specified:

Sampling Point	Quantity	Type	Frequency	Parameter(s)
<b>EAST (Manhole) near Fire Station Bldg. 3848 and NRTH (North Manhole) near Bldg. 3856</b>	1	Composite <sup>7</sup>	Monthly <sup>2</sup>	Cu, Zn
<b>EAST (Manhole) near Fire Station Bldg. 3848 and NRTH (North Manhole) near Bldg. 3856</b>	1	Grab	Monthly <sup>2</sup>	pH
<b>2115 (Pump Station) Wetwell</b>	1	Grab	Quarterly <sup>1</sup>	Cu, Zn
<b>2115 (Pump Station) Wetwell</b>	1	Grab	Quarterly <sup>1</sup>	pH
<b>751 (Pump Station) Wetwell</b>	1	Grab	Bi-Monthly <sup>8</sup>	pH
<b>2115 (Pump Station) Wetwell, EAST (Manhole) and NRTH (Manhole)</b>	1	Composite <sup>3</sup>	Semi-Annually by June 30 <sup>th</sup> and December 31 <sup>st</sup> <sup>6</sup>	TO <sup>9</sup>
<b>STH6 (South Lagoon)</b>	1	Grab <sup>5</sup>	Each batch	As
<b>STH6 (South Lagoon) Discharge at the Manhole NE of the Lagoons</b>	1	Grab	Each discharge day	pH <sup>4</sup>

<sup>1</sup> First sample collected between **January** and **March**, the second sample collected between **April** and **June**, the third sample collected between **July** and **September**, and the fourth sample collected between **October** and **December** of each calendar year in varying months.

<sup>2</sup> On varying process discharge days throughout the month, including weekends when process discharges occur.

<sup>3</sup> Comprised of a minimum of four (4) grab samples collected at two (2) hour intervals during an eight (8) hour discharge day and composited for laboratory analysis. Volatile organic samples are comprised of minimum of four (4) grab samples collected at two (2) hour intervals during an eight (8) hour discharge day which must be composited in the analytical laboratory or the four (4) samples can be analyzed separately and the results averaged.

<sup>4</sup> To be analyzed during the discharge.

<sup>5</sup> Composed of at least four (4) aliquots taken from different areas of the lagoon.

<sup>6</sup> First sample collected between **January** and **June** and the second sample collected between **July** and **December** of each calendar year in varying months.

<sup>7</sup> Comprised of at least fifteen (15) minute aliquots composited for the twenty-four (24) hour process discharge day obtained in no fewer than 22 hours and no more than 26 hours.

<sup>8</sup> First sample collected during **January** or **February**, the second sample collected during **March** or **April**, the third sample collected during **May** or **June**, etc... of each calendar year in varying months.

<sup>9</sup> All interference checks must be performed.



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**MONITORING REQUIREMENTS (Cont'd)**

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Results of *all* analyses for samples collected from the *permitted* sampling points in a calendar month must be received in this office by the tenth (10th) day of the following month (advanced due date). Transmitting data by facsimile is an acceptable method for meeting this deadline. However, all data must be received in this office within thirty (30) days following the advanced due date, accompanied by an appropriately executed certification statement.

If no discharge from the South Lagoon occurs during the month, then a “**No Discharge**” statement must be received in this office by the tenth (10th) day of the following month. A statement transmitted by facsimile is an acceptable method for meeting this deadline. However, all statements must be received in this office within thirty (30) days following this date accompanied by an appropriately executed certification statement.

All analyses shall be performed in accordance with Section 402 of the HRSD Industrial Wastewater Discharge Regulations.



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**METERING REQUIREMENTS**

Metering shall be as follows:

Quantity	Type	Purpose
1	Effluent	Billing for 3879 (Pump Station)
1	Effluent	Billing for 751 (Pump Station)
1	Effluent	Billing for 1518 (Pump Station)
1	Effluent	Billing for 2115 (Pump Station)
1	Process	STH6 (South Lagoon)

Billing for the South Lagoon discharge shall be included in the billing for Pump Station 751.

The effluent and process meters shall be certified as accurate to manufacturer's specifications annually and a copy of the certification shall be received in this office no later than December 31st of each year accompanied by an appropriately executed certification statement.

A monthly effluent meter totalizer reading for each pump station and a monthly summary of daily process meter readings from the South Lagoon must be received in this office by the tenth (10th) day of the following month. Transmitting summaries by facsimile is an acceptable method for meeting this deadline. However, all summaries must be received in this office within thirty (30) days following this date accompanied by an appropriately executed certification statement.



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**METERING REQUIREMENTS (Cont'd)**

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An annual discharge volume report generated by utilizing 7 daily effluent meter readings from pump station 3879 minus effluent meter readings from the NORTH and EAST discharges must be accomplished. This report must be received in this office by December 31<sup>st</sup> of each year accompanied by an appropriately executed certification statement.



**Hampton Roads Sanitation District  
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**SPECIAL CONDITIONS**

The following active pretreatment devices shall be inspected as specified in the Wastewater Pretreatment Device Management Plan dated June 2009 and maintained according to the manufacturer's specifications at all times. An inspection/service log must be maintained for these pretreatment devices indicating the inspector's initials, inspection date/time, sanitary/storm sewer valve direction (if applicable), and if residual removal is required, actions taken to service the device. Residual material removed from any industrial pretreatment device shall not be discharged directly or indirectly into the HRSD system.

Type <sup>1</sup>	Facility	Operation	Valve <sup>2</sup>
OWS	LC-1-OWS-01	Equipment Maintenance/Washing Equipment	SAN/STM
NT	LC-104-NT-01	Battery Shop	
OWS	LC-126-OWS-01	Boat Maintenance	SAN/STM
ST	LC-126-ST-01	Boat Maintenance	SAN/STM
ST	LC-1516-ST-01	Marina	SAN/STM
OWS	LC-1522-OWS-01	Boat Maintenance	
OWS	LC-1558-OWS-01	Cable Maintenance	
OWS	LC-1558-OWS-02	Cable Maintenance	
OWS	LC-3084-OWS-01	NEX Citco Carwash	
OWS	LC-3144-OWS-02	Vehicle Maintenance	
OWS	LC-3144-OWS-03	Vehicle Maintenance	
OWS	LC-3165D-OWS-01	Equipment Maintenance	
AT	LC-3505-AT-01	Dental Clinic	
ST	LC-3505-ST-01	Dental Clinic (Plaster Moulding)	
OWS	LC-3511-OWS-01	Vehicle Maintenance (EWTG)	SAN/STM
OWS	LC-3514-OWS-01	Equipment Maintenance	SAN/STM
OWS	LC-3524-OWS-01	Training Command	SAN/STM
OWS	LC-3528-OWS-01	MWR Carwash	
ST	LC-3528-ST-01	MWR Carwash	
OWS	LC-3530-OWS-01	MWR Maintenance Shop	
PULP	LC-3607-PULP-01	Food Service (Galley)	
OWS	LC-3616-OWS-01	Vehicle Maintenance	
ST	LC-3675-ST-01	Golf Course Equipment/Outdoor Washrack	SAN/STM
OWS	LC-3661-OWS-01	Vehicle Maintenance	
OWS	LC-3816-OWS-01	LCAC Fuel Loading Racks	
OWS	LC-3816-OWS-02	Vehicle Maintenance	
OWS	LC-3816-OWS-03	Vehicle Maintenance	
OWS	LC-3816-OWS-04	Vehicle Maintenance	
NT	LC-3817-NT-01	Battery Shop	



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**SPECIAL CONDITIONS (Cont'd)**

The following active pretreatment devices shall be inspected as specified in the Wastewater Pretreatment Device Management Plan dated June 2009 and maintained according to the manufacturer's specifications at all times. An inspection/service log must be maintained for these pretreatment devices indicating the inspector's initials, inspection date/time, sanitary/storm sewer valve direction (if applicable), and if residual removal is required, actions taken to service the device. Residual material removed from any industrial pretreatment device shall not be discharged directly or indirectly into the HRSD system.

Type <sup>1</sup>	Facility	Operation	Valve <sup>2</sup>
OWS	LC-3826-OWS-01	Fuel Truck Loading Rack	
OWS	LC-3827-OWS-01	Outdoor LCAC Washrack	
OWS	LC-3859-OWS-01	Outdoor Equipment/Vehicle Washrack	SAN/STM
NT	LC-757-NT-02	Steam Plant	SAN
NT	LC-757-NT-03	Steam Plant	
OWS	LC-777-OWS-01	Steam Plant	SAN/STM
OWS	LC-CB301-OWS-01	Vehicle Maintenance	
OWS	LC-CB301-OWS-02	Vehicle Maintenance	
OWS	LC-CB301-OWS-03	Vehicle Maintenance	

<sup>1</sup> Key to Pretreatment Facility Types:

- AT - Amalgam Trap
- NT - Neutralization Tank
- OWS - Oil/Water Separator
- ST - Sedimentation Trap
- PULP - Pulper

<sup>2</sup> Key to Valve Position:

SAN/STM – A diversion valve used to direct rainwater to storm drain and washwater to the sanitary sewer system. Valves shall be routed to the sanitary sewer only during process discharges.



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**SPECIAL CONDITIONS**

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**Little Creek:**

A weekly oil & grease (non-saponifiable) inspection log must be maintained for all waterfront pump stations. The inspection log must show inspector's initials, date/time, positive or negative entry for the presence of oil & grease (non-saponifiable), action taken if oil & grease (non-saponifiable) is present.

Food service grease traps shall be maintained according to the manufacturer's specifications at all times. Food Service Grease Trap residuals shall not be discharged directly into the HRSD system, however, food service grease trap residuals may be discharged indirectly by waste haulers holding HRSD Indirect Wastewater Discharge Permits at locations authorized by HRSD.

Permit violations must be reported to the HRSD Pretreatment & Pollution Prevention Division in accordance with Section 302 of the HRSD Industrial Wastewater Discharge Regulations.

The Permittee is responsible for resampling and analysis of any violated parameter based on self-monitoring within thirty (30) days of becoming aware of the violation.

Discharge of CHT hydroblast wastes shall require prior approval of the HRSD Pretreatment & Pollution Prevention Division. If so desired, CHT hydroblast must be reported, sampled, and analyzed according to instructions given by the HRSD Pretreatment & Pollution Prevention Division.

The Permittee must notify the HRSD Pretreatment & Pollution Prevention Division, in writing, no less than two (2) weeks prior to any major sanitary sewer line cleaning in order to determine appropriate wastewater treatment, disposal, or monitoring requirements.

There shall be no discharge of wastewater that has been in contact with Aqueous Film Forming Foam (AFFF) either directly or indirectly into the HRSD system.

In accordance with Section 206 of the HRSD Industrial Wastewater Discharge Regulations, a permit renewal application must be received in this office at least 180 days prior to the expiration date of the existing Permit.



**Hampton Roads Sanitation District  
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**SPECIAL CONDITIONS**

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**Little Creek:**

Weekly grab samples for total oil & grease (with non-saponifiable fraction obtained if the total oil and grease concentration exceeds 50 ppm) and a weekly composite sample for Copper (Cu) and Zinc (Zn) shall be obtained from manhole 207. The data shall not be submitted to HRSD, but shall remain on file for a minimum of three years for review by HRSD staff.

Monthly grab samples for total oil & grease (with non-saponifiable fraction obtained if the total oil and grease concentration exceeds 100 ppm) and a monthly grab sample for Copper (Cu) and Zinc (Zn) shall be obtained from vessel discharges at varying sanitary sewer entry points upline of total pier discharge manhole located near Pump Station 1518. The data shall not be submitted to HRSD, but shall remain in file for a minimum of three years for review by HRSD staff.



**Hampton Roads Sanitation District  
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**SPECIAL CONDITIONS**

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**South Lagoon:**

Each South Lagoon batch discharge must receive prior authorization from the HRSD Pretreatment & Pollution Prevention Division. The HRSD Pretreatment & Pollution Prevention Division must be notified at least twenty-four (24) hours in advance of any discharge from the South Lagoon so that appropriate sampling may be accomplished.

Should the pH of the South Lagoon discharge fall below 5.0 or exceed 11.0 then the discharge must cease immediately and the HRSD Pretreatment & Pollution Prevention Division must be notified as soon as possible.

All pretreatment equipment (equalization, retention, pH adjustment and chemical precipitation equipment) shall be operated according to the manufacturer's specifications at all times. All residual material removed from the pretreatment system shall not be discharged directly or indirectly into the HRSD system.

The automatic pH monitoring system, including alarm system, for the South Lagoon shall be in operation at all times during discharge periods. In the event that the system becomes inoperative, the HRSD Pretreatment & Pollution Prevention Division must be notified as soon as possible.

The pH monitoring systems for the South Lagoon shall be calibrated daily during Lagoon discharges. A monthly calibration log shall be maintained and shall be accessible for inspection by representatives of the HRSD Pretreatment & Pollution Prevention Division at all times.

A log of discharge compliance shall be maintained for Lagoon discharges. This log shall be available for inspection by HRSD personnel at all times.

Permit violations must be reported to the HRSD Pretreatment & Pollution Prevention Division in accordance with Section 302 of the HRSD Industrial Wastewater Discharge Regulations.

The Permittee is responsible for resampling and analysis of any violated parameter based on self-monitoring within thirty (30) days of becoming aware of the violation.