KINDER MORGAN BULK TERMINALS / PIER IX

O & M MANUAL

MARCH 15, 2011

O & M MANUAL

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Storm Water Collection and Treatment System

I. Introduction

Kinder Morgan Pier IX Terminal is a bulk material-handling terminal located on the James River in the east end of Newport News, VA. The products transferred through Pier IX Terminal are coal, petroleum coke and Portland cement. (Pet coke was handled early on in the terminals history but has not been handled in the past ten years) Coal is stockpiled on a 60-acre site with a total storage capacity of 1.2 million tons and permitted capacity of 1 million tons at any given time. The Portland cement is stored in three silos with a total capacity of 35,000 tons.

This manual has been prepared to meet the requirements of Section B.3 in VPDES Permit No. VA 0057142.

II. State Discharge Requirements

Wastewater and stormwater discharges from Pier IX Terminal are authorized under VPDES Permit No. VA 0057142. Discharges are monitored regularly as required by the permit.

III. Description of Storm Water and Waste Water Treatment Facility

Storm Water Collection

There are two separate storm-water collection systems at Pier IX. The first system collects storm water runoff from the coal storage yard and the second collects storm water runoff from the pier and immediately adjacent shore area. Both storm-water collection systems direct storm water flow to the retention pond. See Appendix 2 for a detailed flow chart of the two systems.

The storage yard system collects water from the area inside the facility's loop rail track system through a perimeter drainage ditch. All storm water runoff in this area flows into the perimeter drainage ditch. The storm water collected in the perimeter ditch achieved either through runoff or a pumping system and water originates specifically from the following areas:

1. coal pile runoff
2. the conveyor tunnel sumps
3. the shop floor drain
4. the areas adjacent to the maintenance building, warehouse building and all buildings inside the loop rail track system
5. the area adjacent to and inside the dumper building
6. the dumper sump and pit areas
7. automobile access tunnel sump
8. pier IX sumps
9. silo area and shoreline roadway at silo area

The perimeter ditch encircles the coal storage area gathering all storm water runoff from the coal piles and draining directly toward the retention pond. The perimeter ditches are graded to provide drainage toward the southern end of the facility(see drawing in Appendix 2). Drainage and flow from the perimeter ditch to the retention pond occurs by one of two methods: gravity flow or pumping..

Gravity flow from the perimeter ditch to the retention pond occurs through a culvert pipe. The culvert pipe has a sluice gate installed that remains open for gravity flow from the ditch to the pond. Gravity flow will not allow maximum retention pond levels nearing the one foot freeboard limit.

Pumped flow from the perimeter ditch to the pond occurs through a portable pump drawing water from the ditch and pumping through a permanent piping system leading to the retention pond. Pumping perimeter

ditch water to the pond would occur when the culvert pipe sluice gate is closed. This typically occurs when maximum retention pond levels are necessary and usually takes place during significant storm events.

Oil booms are used in the perimeter ditch as a precaution for preventing any oil from entering the pond. The oil booms are usually located at the dozer parking area and at the pond inlet but are often located in other areas of the perimeter ditch as well.

Pier IX Storm Water Collection System

The Pier IX system handles storm water runoff from the pier and the shoreward area immediately adjacent to the pier. Storm water from the pier is contained within a ten-inch curb around the pier and is directed to one of two sump/pump systems (#3,#5) on the pier. Water from the pier sumps (#3,#5) are pumped to two shoreward sump/pump systems (#1,#2) located in the parking lot at the foot of Pier IX. The storm water runoff from the shoreward area driveways and parking areas between the silo and the taxi stand drains to the shoreward sump/pump systems (#1,#2). All storm water from these areas are pumped to the perimeter ditch and ultimately into the retention pond.

Retention Pond

All storm water from the areas defined above and coal pile runoff water (wastewater) is contained in the retention pond. The retention pond serves two purposes:

1) to settle all suspended solids (typically coal fines) and
2) to serve as water supply for a pump system that provides water for the coal pile wet suppression system.

Normally, pH in the retention pond remains neutral between 6.0 and 9.0 unless rainfall is experienced in excess. If necessary, the pH can be adjusted with caustic soda or other basic materials such as soda ash.

When and if the retention pond volume becomes extremely low, well water is pumped to the perimeter ditch to supplement retention pond volume. This to make certain that volume is sufficient to supply coal pile wet suppression water. Well water is supplied from seven shallow wells (Columbia Aquifer) and one deep well (Well 1-Potomac Aquifer).

Wastewater Treatment

Wastewaters at the facility are classified as such:

1. coal pile wet suppression water (if treated w/ caustic or soda ash)
2. vehicle or equipment washdown water
3. other ancillary wastewater flows

All wastewater flows(identical to stormwater) to and is contained within the retention pond.

IV. Specific / Detailed Description of the Equipment & Facility

As outlined above, the storm-water/wastewater collection system for the facility is comprised of a perimeter ditch, sumps, pumps, a culvert and a retention pond. The retention pond is lined with concrete and has a storage capacity of 4.5 million gallons.

The pond pump station consists of a 1000-gpm pump (150 HP) and a 1900-gpm pump (125HP). The pumps are used for two primary purposes:

1. charging the water supply loop piping for coal pile wet suppression and wash down
2. discharging the retention pond water through Outfall 001 to the James River.

V. Emergency Operation

During flood conditions, excessive storm water flows through the emergency by-pass storm drain located at the highest ground level in the south yard between the perimeter ditch and the rail loop. This storm drain directs water directly through Outfall 003 to the James River.

VI. Process Chemicals

There are no process chemicals used at Pier IX.

VII. Personnel Responsibilities

Appendix 1 contains a list of the personnel and their responsibilities.

VIII. Operation of the Treatment Facility

Storm water is collected and retained by means as described above. The pond provides the capacity to collect and treat large quantities of storm water from the facility area. Typically, treatment of the water is unnecessary unless pH quality goes beyond the neutral parameters between 6.0 and 9.0. This usually occurs when excessive rainfalls are experienced. The pond also provides water needed for controlling dust emissions from the coal stockpiles and washing down areas of the facility

Appendix 2 contains a map that outlines the layout of the terminal.

The water level in the pond must be maintained for supply reasons as outlined above. If the water level in the pond gets too low, the wells are used as a supplemental water supply. The lowest level of the pond is at the point where there is a maximum freeboard of 4' 6". This level provides a 1' 6" water level above the pump inlets.

If there is a failure of the supplemental well water supply and/or if the well water supply cannot sustain the volume needed (during extreme dry conditions), it is possible to switch to the City of Newport News water supply. The procedures for switching to the city water supply are given in Appendix 4 and a copy of the procedures is posted at the dumper building pump house. When switching to city water, the Terminal Manager is to be notified for contacting the City of Newport News Water Works.

If excessive rainfall increases the pond water level to within two feet from the top of the pond's retaining wall, the Operations Supervisor will evaluate the weather conditions to determine whether pond water should be discharged to the James River. The Operations Supervisor will collaborate with management to decide.

If a discharge is necessary, the Operations Supervisor must:

- Check to make sure there are no sheens or visible material solids in the pond water.
- Check pumping systems to ensure proper operation.
- Record start and stop times in the Daily Operations Log Book.

If it is necessary to have the discharge sampled, the Operations Supervisor must:

- Call the laboratory to come out and collect a sample (or contact Pier IX employee facilitating waterworks at the terminal).
- Begin pumping from the pond to the river through outfall 001
- Be on hand of possible to monitor the sampling process.

- If the laboratory fails to respond during the discharge, the Operations Supervisor must collect four, one-quart –grab samples after 30 minutes of flow. Be sure the sample container is clean prior to sampling.
- Check and record the pH of the grab sample.
- Place the grab sample on ice for preservation until the laboratory can pick it up.

The procedure explaining this process is given in Appendix 5. Appendix 6 also includes a schematic design of the piping for the pumps.

The operating procedure for the Pier IX Area Water System is as follows:

- The storm-water collection system is automated
- There are four sump and pumping locations
- two sump/pump locations on the pier and two located on shore
- Appendix 6 shows the location of the pumps and the designated numbering system
- The four pumps are responsible for moving the storm water from the pier to the perimeter ditch on the inside of the railroad tracks
- The pier pumps transfer the pier water to the shore sump tanks.
- The shore sump/pumps then transfer the water through piping located on Transfer Tower T-8, over the road and then discharging to the perimeter ditch at the southwest corner.
- The controls for the pumps are located in the lean-to building on the west side of Tower 9.

  The pump control panel has six (6) switches; each switch has three (3) positions:
  Hand / Auto / Off.

- Hand: When the controls are turned to the “Hand” position, the pumps will immediately start pumping and will continue to pump until the water level in the sump gets low enough to trigger the automatic float switch in the sump.

- Auto: When the controls are turned to the “Auto” position, the pumps will begin pumping automatically when the water level in the sump is about two-thirds of the way full. The pumps will automatically shut off when the water level gets below the two-thirds level in the sumps.

- Off: When the controls are in the “Off” position, the pumps will not start pumping.

Retention Pond Monitoring & Capacities

The retention pond water level is monitored by the Operations Supervisor and a specific facility worker designated to facility waterworks. Monitoring is to ensure sufficient water supply for dust suppression and preventing storm water from over burdening the pond.

The total capacity of the Pier Storm-water collection System is approximately 414,000 gallons, as compared with the 4.5 million gallons capacity of the pond. If the 414,000 gallons were pumped to the pond, the increase in the water level in the pond would be approximately 8.25 inches. This must be taken into account with the knowledge that if the pond level reaches the two-foot monitoring point. At this time, management will evaluate conditions and whether to alter valving and pumping to prevent overburdening the pond

All Kinder Morgan field employees have been trained and are knowledgeable regarding water flows and containment at the facility. If an employee notices an unusually low or an unusually high water level in the settling pond, it is their responsibility to report the condition to their immediate supervisor.

The Operations Supervisor is required to evaluate if a discharge from the pond is necessary and/or if the Pier Storm-Water Collection System pumps should be de-activated. If the pier storm-water pumps are

deactivated, the curbing around the pier and shore can contain a significant volume of stormwater. Pier containment should suffice until normal collection and pumping conditions are resumed.

VIII. Maintenance

The designated Facility Worker and the Operations Supervisor inspects all areas and equipment on a routine basis. All Kinder Morgan employees are instructed to report any problems observed to their supervisor. All major issues are recorded in the Daily Operations Log, the Daily Environmental Log and a daily email from the designated Facility Worker facilitating environmental control maintenance. All issues reported are either repaired when found or a Repair Order (RO) is generated to address the item by a priority status that is determined by the Operations Supervisor.

Pier IX's Computerized Maintenance Management System (CMMS-Dossier) tracks and documents all scheduled and unscheduled environmental control maintenance.

The CMMS-Dossier administrator and the maintenance supervisor track al maintenance action and RO's on a daily basis.

IX. Sampling and Laboratory Testing

Pier IX Terminal has three point source outfalls:

- Outfall 001
- Outfall 002
- Outfall 003

A. Outfall 001 – from Retention Pond

Sampling of water discharged through outfall 001 is required once per month only if a discharge(s) to the James River occur during the specific month. The sampling method and parameters are outlined in Pier IX's VPDES Permit No. VA 0057142. It is the responsibility of the designated facility worker or Operations Supervisor to arrange for the samples to be taken. A sample from outfall 001 is collected and analyzed by a selected local laboratory. Currently the lab of records is: Universal Laboratories, 20 Research Drive, Hampton, Virginia 23666. All questions concerning laboratory protocol and techniques are addressed to Universal Laboratories.

The characteristics, parameters and quantification levels analyzed are listed on the Discharge Monitoring Report (DMR) sheet provided by the Va Department of Environmental Quality.

The Terminal Manager completes the discharge monitoring report electronically and online at the DEQ website for such (https://edmr.deq.virginia.gov/edmr). Appendix 8 provides an example copy of a competed DMR. The DMR is completed and filed electronically with the Tidewater office of the DEQ by the 10th day following the month of the report. All environmental documents, including DMR's, are to be retained in the files for a period of three (3) years.

B. Outfalls 002, 003 (Storm Water Outfalls)

Outfalls 002 and 003 are sampled and tested quarterly as required by VPDES Permit No. VA 0057142. Samples are collected by Universal Laboratories. The characteristics, parameters and quantification levels analyzed are listed on the DMR sheet provided by the Va Departement of Environmental Quality.

The Terminal Manager completes the discharge monitoring report electronically and online at the DEQ website for such (https://edmr.deq.virginia.gov/edmr). Appendix 8 provides an example copy of a competed DMR. The DMR is completed and filed electronically with the Tidewater office of the DEQ

by the 10th day following the last month of the quarterly report. All environmental documents, including DMR's, are to be retained in the files for a period of three (3) years

X. Equipment Records

All equipment records are stored electronically in our Computerized Maintenance Management System. These records will be retained for a period of three (3) years.

XI. Plant Safety

The retention pond water can be treated with caustic soda or soda ash to raise the pH characteristic of the water. Caustic soda is stored in the phase 4 warehouse building as needed. (Appendix 2 shows the location of this building.) Employees are trained in handling treatment chemicals and must exercise caution when working around this area. Refer to the MSDS vault prior to treatment chemical use.

All employees shall follow good housekeeping practices, which will result in a cleaner working area and a safer facility.

XII. Emergency Telephone Numbers

DEQ – State Water Control Board

5636 Southern Blvd.

Virginia Beach, VA 23462

Information: (757) 518-2000

DEQ – State Air Pollution Control Board

5636 Southern Blvd.

Virginia Beach, VA 23462

Information: (757) 518-2000

Newport News Police Dept.

EMERGENCY 911

2600 Washington Avenue

Newport News, VA 23607

Information: (757) 926-8700

Peninsula Health Center

416 J. Clyde Morris Blvd.

Newport News, VA 23606

Information: (757) 594-7300

Newport News Fire & Emergency Medical

EMERGENCY 911

2400 Washington Avenue

Newport News, VA 23607

Information: (757) 926-8404

United States Coast Guard

Marine Safety Center

200 Granby Mall, Suite 700

Norfolk, VA 23510

Information: (757) 668-5555

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Appendix 1

PERSONNEL RESPONSIBILITIES

I. Terminal Manager

1) Overall responsibility for terminal operation, maintenance and governmental compliance with all laws and regulations.
2) Maintains the O&M Manual, VPDES permit and the SWPPP.

II. Operations Supervisor, Designated Facility Worker

1) Responsible for operation of the storm-water collection and treatment system
2) Calls testing lab
3) Monitors pond level
4) Authorizes Start / Stop of well
5) Authorizes Start / Stop of Pier Collection System
6) Monitors safety of system operations
7) Maintains and monitors maintenance of system

Contact the Terminal telephone 757-928-1520

1) Starts and stops Pier pumps as needed
2) Starts and stops pond pumping to the river during off hours and on weekends.
3) Records all start and stop times during his shift of operations
4) Inspects ditch-line and settling pond on a shift-by-shift basis.
5) Records items needing attention in the Daily Operations Log

IV. Maintenance Supervisor and CMMS Administrator

1) Organizes the repairs and adjustments as required

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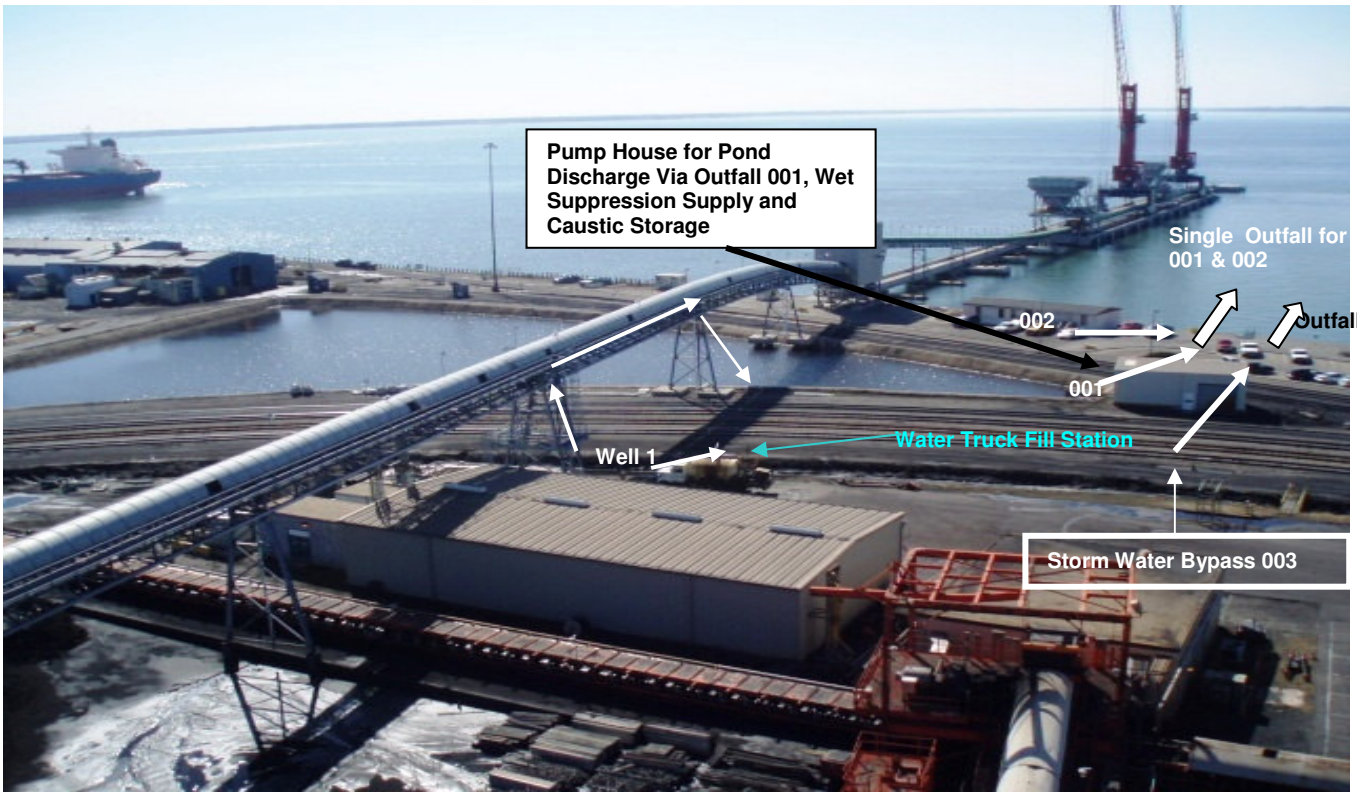
Appendix 2

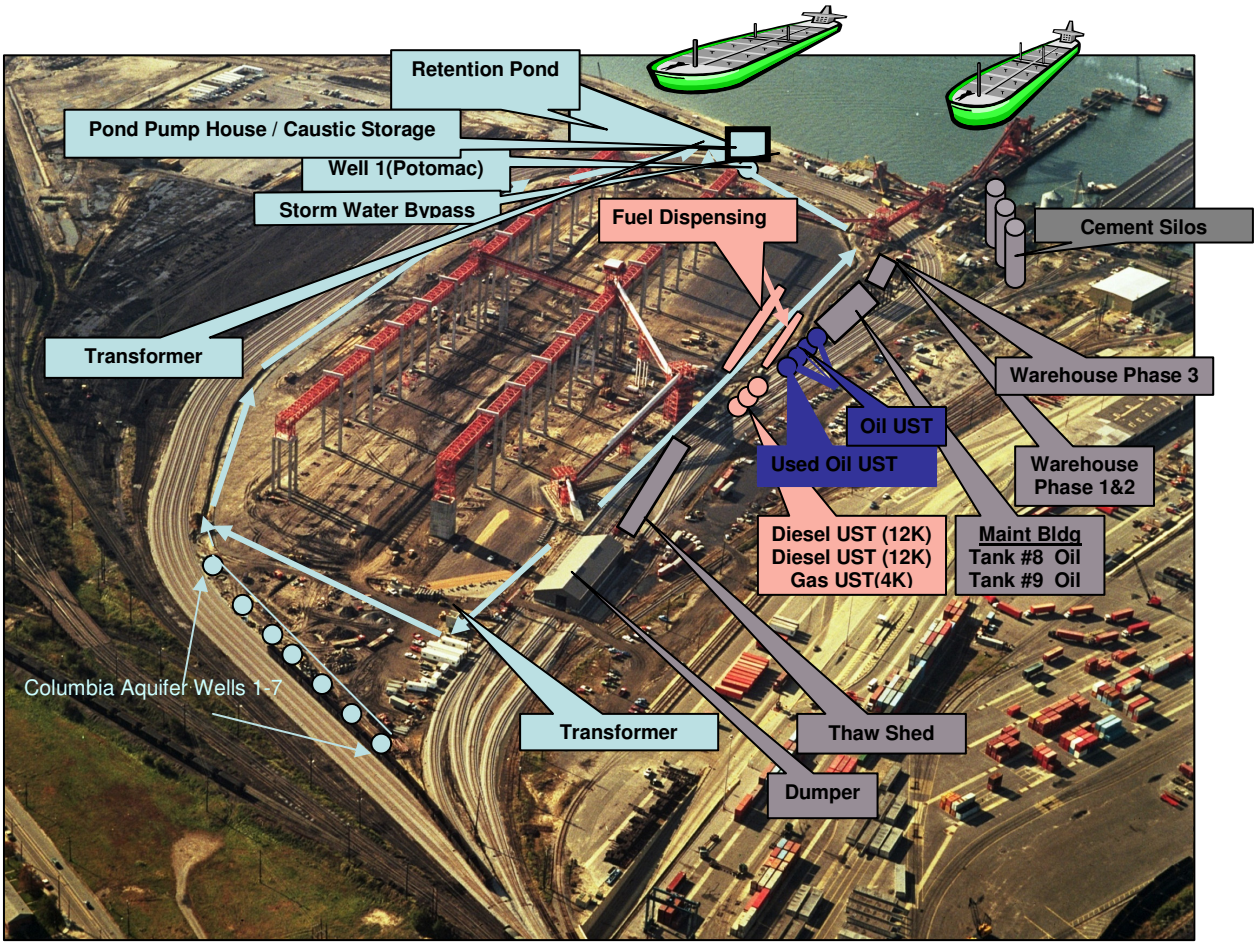
Facility map showing the following:

1) ***Pier IX and Pier X storm water collection tanks***
2) ***Pier IX routing of water from pier collection tanks to shore collection tanks and then pumping to perimeter ditch line with drainage to pond***
3) ***Pier X routing of water from pier collection tanks to shore collection tank and then to retention pond***
4) ***Storm water by-pass***
5) ***Well location***
6) ***Caustic storage tank location***
7) ***Underground storage tank location***
8) ***Aboveground storage tank location***
9) ***Transformer location***
10) ***Fuel dock location***

Pier IX & Pier X Storm Water Collection and Pump Routing To Retention Pond

Retention Pond and Outfall Layout




Retention Pond
Pond Pump House / Caustic Storage
Well 1(Potomac)
Storm Water Bypass
Fuel Dispensing
Cement Silos
Transformer
Warehouse Phase 3
Oil UST
Used Oil UST
Warehouse Phase 1&2
Diesel UST (12K)
Diesel UST (12K)
Gas UST(4K)
Maint Bldg
Tank #8 Oil
Tank #9 Oil
Columbia Aquifer Wells 1-7
Transformer
Thaw Shed
Dumper

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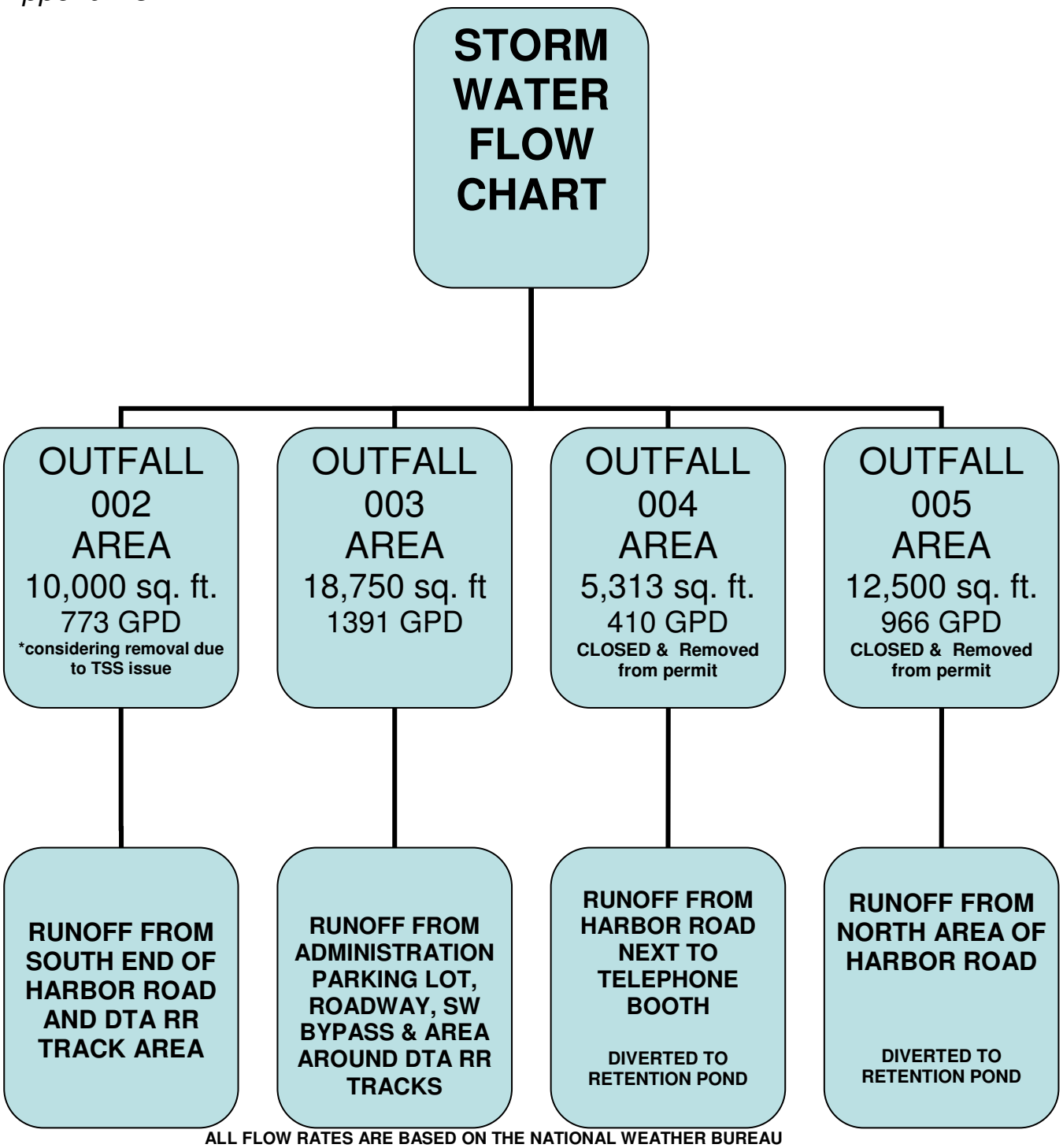
Appendix 3



ALL FLOW RATES ARE BASED ON THE NATIONAL WEATHER BUREAU LOCAL AVERAGE RAINFALL OF 45.77 INCHES PER YEAR

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Appendix 4

PROCEDURES FOR SWITCHING DUST CONTROL SYSTEM FROM POND WATER TO CITY WATER

SWITCHING FROM POND WATER TO CITY WATER (PLEASE TURN ALL VALVES SLOW)

- Turn off the dust suppression pumps at the dumper and reclaim.
- Go to the pond pump house.
  - Turn off charge pump and close 8" 1/4 turn valve with yellow handle (Located on the floor next to intake pit)
  - Turn the 125 to the off position and close #22 valve (blue handle)
  - Turn the 150 to the off position and close # 23 valve (red handle)
- Go to the reclaim mcc.
  - Switch toggle from pond to city (box is located next to fire panels in pump room)
- Open one perimeter rainbird, be sure hydrant that supplies gun is on. (this will relieve pressure from loop & prevent a hydraulic hammer)
- Go to stackout mcc.
  - Turn toggle from pond to city. (box is located inside building next to Northwest door)
- Go to the dumper pump room.
  - Find blue limitorque valve next to the fire pump. (this is not the limitorque in line with the dust suppression pump)
  - Turn valve to local position.
  - Select open.
  - Once the valve is open 100% select stop.
- The facility is now on city water.
  - Turn off the open perimeter rainbird gun.
  - Dust suppression pumps at the dumper & reclaim can be turned back to remote.

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Appendix 5

CITY WATER SUPPLY TO POND WATER SUPPLY INSTRUCTIONS

SWITCHING FROM CITY WATER TO POND WATER (PLEASE TURN ALL VALVES SLOW)

- Turn off the dust suppression pumps at the dumper and reclaim
- Go to the dumper pump room.
  - Find blue limitorque valve near fire pump (This is not the limitorque inline with the dust suppression pump)
  - Turn selection switch to local.
  - Select close.
  - Once valve shows 100% closed select remote.
- Go to stackout mcc.
  - Turn toggle from city to pond. (Box is located inside building near Northwest door)
- Open one perimeter gun, be sure hydrant that supplies gun is on. (This will relieve pressure from loop & prevent hydraulic hammer)
- Go to reclaim mcc.
  - Switch toggle from city to pond (Box is located in pump room next to fire panels)
- Go to the pond pump house.
  - Open valve with yellow handle (8" 1/4 turn valve located on floor near intake pit)
  - Turn on charge pump (If you do not hear it turn on the breaker at reclaim may need reset)
  - Open the #23 gate valve (valve has red handle) Leave the 150 controls in the off position.
  - Open the #22 gate valve (valve has blue handle) Turn the 125 to the remote position.

- The facility is now on pond water. Turn off the perimeter rainbird gun that was selected for the water switch. Turn the dust suppression pumps in the dumper and reclaim back to remote.

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Appendix 6

PROCEDURES FOR DISCHARGING TO THE RIVER USING 1000- GPM PUMP

- Check pump for correct fluid level.
- Turn on the priming valve that supplies the 150(2" ball valve with yellow handle located above intake pit).
- Open the #23 6" gate valve. (Valve has red handle)
- Open the # 24 1/4 turn valve (Valve has red handle)
- The charge pump is now supplying water through the pump to the discharge.
- Go to the control panel and turn the 150 to the LOCAL position.
- Push the green start button. You are now pumping to the river.

PROCEDURES FOR DISCHARGING TO THE RIVER USING 1900- GPM PUMP

- Check pump for correct fluid level.
- Ensure 125 priming valve is open. (2" yellow handled ball valve located at the top of the intake pit)
- Ensure #22 gate valve is open. (8" gate valve with blue handle)
- Open the 6" 1/4 turn valve with blue handle. (located above discharge pit, bolted to the pipe labeled 125 to the river)
- The charge pump is now pumping to the river.
- Go to control panel and turn the 125 to the local position and the pump will start.

Note: ***DO NOT RUN BOTH PUMPS AT THE SAME TIME EXCEPT IN A FLOOD CONDTION***

STANDARD VALVE SETTINGS FOR DAILY OPERATION OF DUST CONTROL SYSTEM

<u>To return 1000 "150" to every day operation or stop pumping:</u>

- Go to the control panel and push the red stop button.
- Turn the 150 to the off position.
- Close the priming valve that supplies the 150 (2" ball valve with yellow handle located above intake pit)
- Close the #24 1/4 turn valve (red handle)
- Close the #23 gate valve (red handle)

- Always log start & stop times, notify supervisor and make sure water is sampled.

<u>To return 1900 "125" to every day operation or stop pumping:</u>

- Turn the 125 to the off position.
- Close the 6" 1/4 turn valve with a blue handle. (located above discharge pit, bolted to the pipe labeled 125 to the river)
- Turn 125 controls to the remote position.

- Always log start & stop times, notify supervisor and make sure water is sampled.

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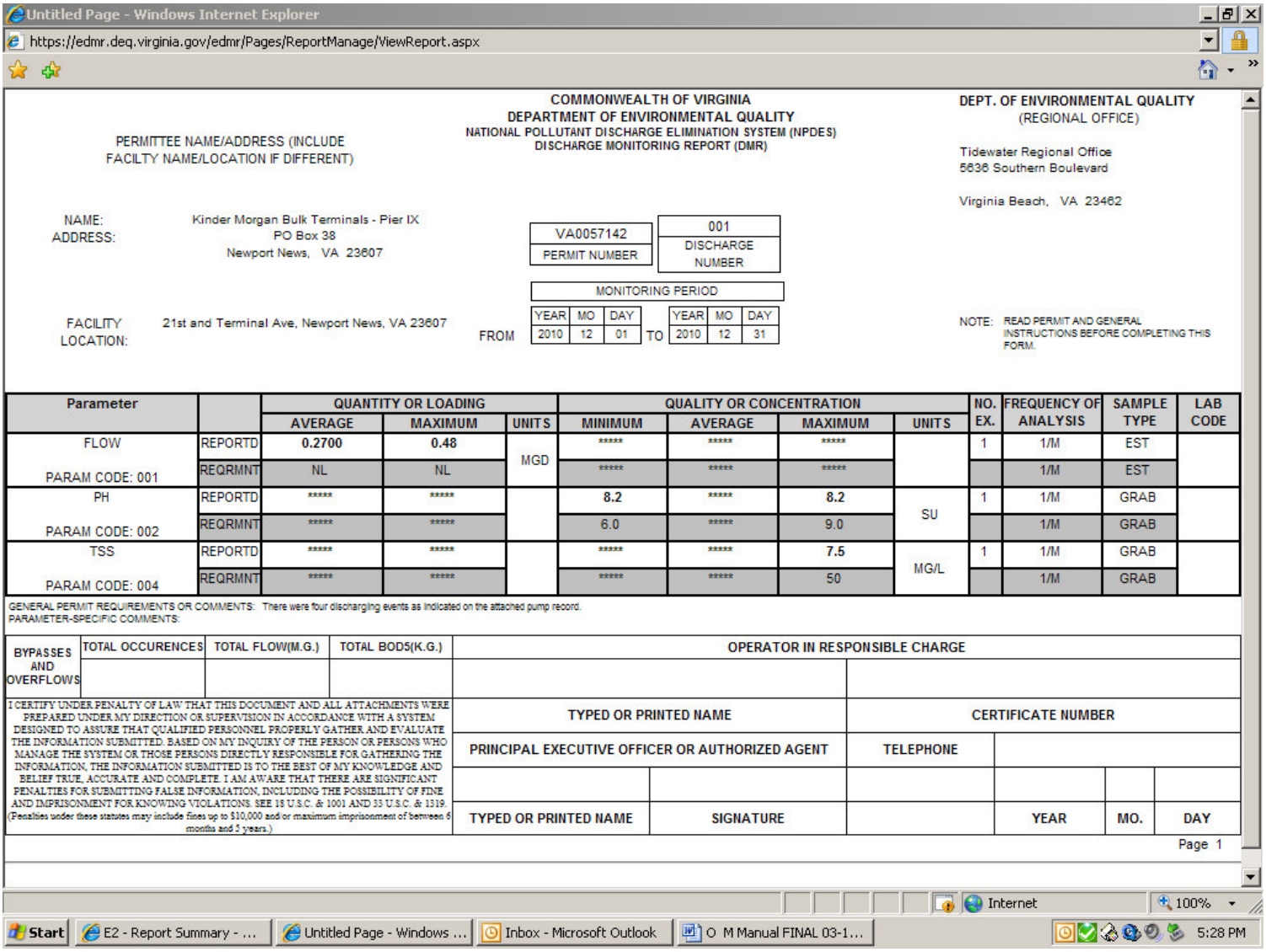
Appendix 7 – Examples of Discharge Monitoring Reports for Outfalls 001,002,003



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https://edmr.deq.virginia.gov/edmr/Pages/ReportManage/ViewReport.aspx

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

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach, VA 23462

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

NAME: Kinder Morgan Bulk Terminals - Pier IX
ADDRESS: PO Box 38
Newport News, VA 23607

FACILITY LOCATION: 21st and Terminal Ave, Newport News, VA 23607

VA0057142	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2010	12	01	TO	2010	12	31

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

Parameter		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
FLOW	REPORTD	0.2700	0.48	MGD	*****	*****	*****		1	1/M	EST	
PARAM CODE: 001	REQRMNT	NL	NL		*****	*****	*****			1/M	EST	
PH	REPORTD	*****	*****		8.2	*****	8.2	SU	1	1/M	GRAB	
PARAM CODE: 002	REQRMNT	*****	*****		6.0	*****	9.0			1/M	GRAB	
TSS	REPORTD	*****	*****		*****	*****	7.5	MG/L	1	1/M	GRAB	
PARAM CODE: 004	REQRMNT	*****	*****		*****	*****	50			1/M	GRAB	

GENERAL PERMIT REQUIREMENTS OR COMMENTS: There were four discharging events as indicated on the attached pump record.
PARAMETER-SPECIFIC COMMENTS:

BYPASSES AND OVERFLOWS	TOTAL OCCURENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

OPERATOR IN RESPONSIBLE CHARGE

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.)

TYPED OR PRINTED NAME | CERTIFICATE NUMBER

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE

TYPED OR PRINTED NAME | SIGNATURE | YEAR | MO. | DAY

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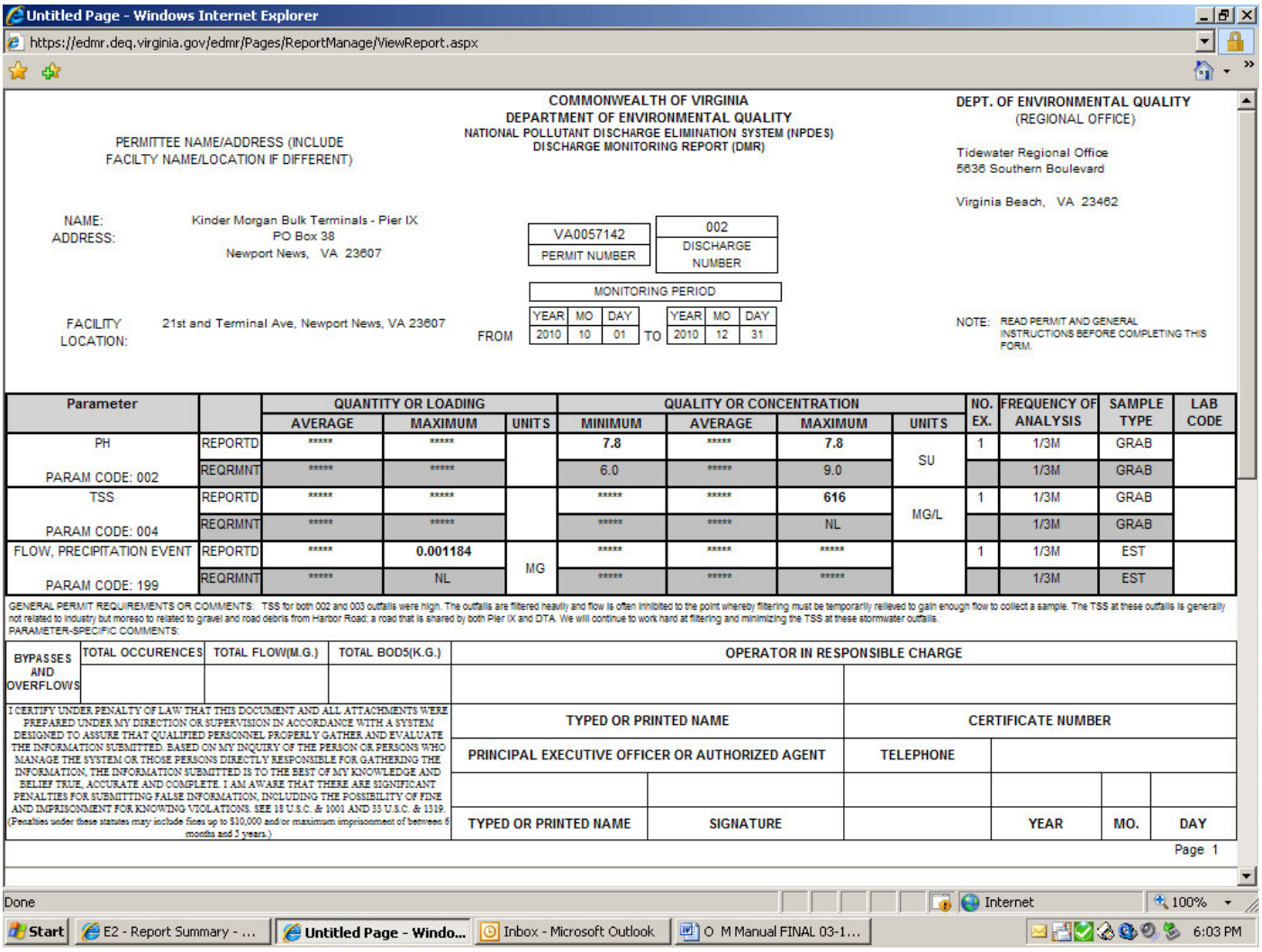

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard

Virginia Beach, VA 23462

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

NAME: Kinder Morgan Bulk Terminals - Pier IX
ADDRESS: PO Box 38
Newport News, VA 23607

VA0057142 (PERMIT NUMBER) | 002 (DISCHARGE NUMBER)

FACILITY LOCATION: 21st and Terminal Ave, Newport News, VA 23607

MONITORING PERIOD

	YEAR	MO	DAY
FROM	2010	10	01
TO	2010	12	31

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

Parameter		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
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PARAM CODE: 002	REQRMNT	*****	*****		6.0	*****	9.0			1/3M	GRAB	
TSS	REPORTD	*****	*****		*****	*****	616	MG/L	1	1/3M	GRAB	
PARAM CODE: 004	REQRMNT	*****	*****		*****	*****	NL			1/3M	GRAB	
FLOW, PRECIPITATION EVENT	REPORTD	*****	0.001184	MG	*****	*****	*****		1	1/3M	EST	
PARAM CODE: 199	REQRMNT	*****	NL		*****	*****	*****			1/3M	EST	

GENERAL PERMIT REQUIREMENTS OR COMMENTS: TSS for both 002 and 003 outfalls were high. The outfalls are filtered heavily and flow is often inhibited to the point whereby filtering must be temporarily relieved to gain enough flow to collect a sample. The TSS at these outfalls is generally not related to industry but moreso to related to gravel and road debris from Harbor Road; a road that is shared by both Pier IX and DTA. We will continue to work hard at filtering and minimizing the TSS at these stormwater outfalls.
PARAMETER-SPECIFIC COMMENTS:

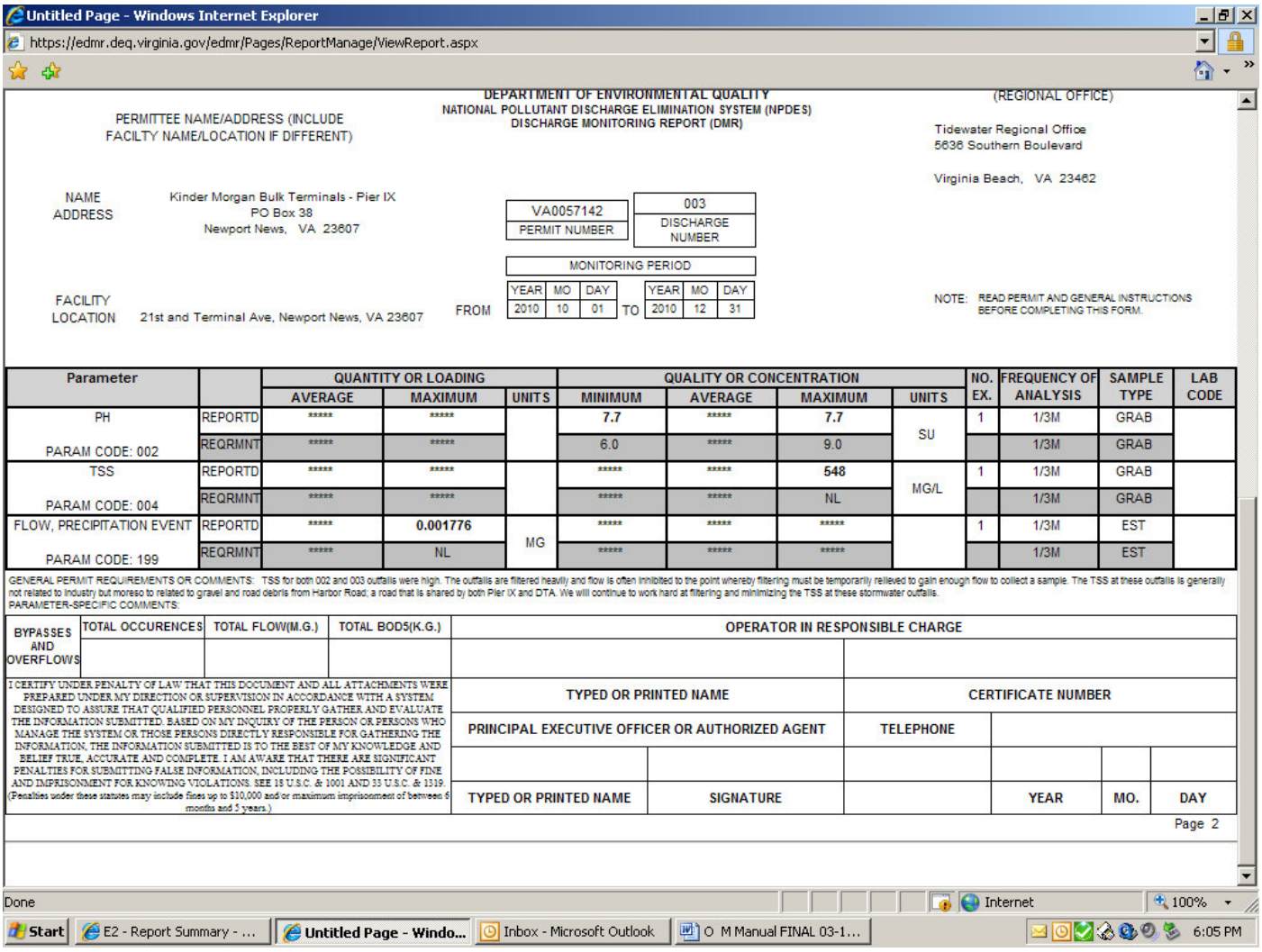
BYPASSES AND OVERFLOWS	TOTAL OCCURENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

OPERATOR IN RESPONSIBLE CHARGE

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.)

TYPED OR PRINTED NAME		CERTIFICATE NUMBER			
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

Page 1



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https://edmr.deq.virginia.gov/edmr/Pages/ReportManage/ViewReport.aspx

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

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

NAME / ADDRESS: Kinder Morgan Bulk Terminals - Pier IX
PO Box 38
Newport News, VA 23607

FACILITY LOCATION: 21st and Terminal Ave, Newport News, VA 23607

VA0057142 (PERMIT NUMBER) | 003 (DISCHARGE NUMBER)

MONITORING PERIOD

	YEAR	MO	DAY
FROM	2010	10	01
TO	2010	12	31

(REGIONAL OFFICE)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

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

Parameter		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
PH	REPORTD	*****	*****		7.7	*****	7.7	SU	1	1/3M	GRAB	
PARAM CODE: 002	REQRMNT	*****	*****		6.0	*****	9.0			1/3M	GRAB	
TSS	REPORTD	*****	*****		*****	*****	548	MG/L	1	1/3M	GRAB	
PARAM CODE: 004	REQRMNT	*****	*****		*****	*****	NL			1/3M	GRAB	
FLOW, PRECIPITATION EVENT	REPORTD	*****	0.001776	MG	*****	*****	*****		1	1/3M	EST	
PARAM CODE: 199	REQRMNT	*****	NL		*****	*****	*****			1/3M	EST	

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TYPED OR PRINTED NAME	CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE

TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

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