millennium
BULK TERMINALS
LONGVIEW, LLC

September 22, 2011

Mr. Gavin Schrieve
Washington Department of Ecology
Industrial Section
P.O. 47706
Olympia, WA 98504-7706

Re: Engineering Report, Millennium Bulk Terminals—Longview, LLC

Dear Mr. Schrieve:

Millennium Bulk Terminals—Longview, LLC (MBTL) operates a multi-modal bulk materials handling facility in Longview, Washington. The facility currently discharges stormwater and other wastewater from the facility pursuant to NPDES permit number WA 000008-6. On August 31, 2011, MBTL submitted an NPDES permit renewal application to Ecology. As supplemental information for that application, please find the enclosed Engineering Report.

If you have any questions or concerns regarding the Engineering Report or the application, please let me know.

Sincerely,

Kristin Gaines

Kristin Gaines

VP, Environmental Planning and Services

4029 Industrial Way ■ PO Box 2098 ■ Longview, WA 98632 ■ (360) 425-2800 ■ (360) 636-8340 Fax

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ENGINEERING REPORT

ENGINEERING REPORT FOR NPDES APPLICATION MILLENNIUM BULK TERMINALS – LONGVIEW, LLC

Prepared for

Millennium Bulk Terminals – Longview, LLC
4029 Industrial Way
Longview, Washington 98632

Prepared by

Anchor QEA, LLC
6650 SW Redwood Lane, Suite 333
Portland, Oregon 97224

September 2011

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6650 SW Redwood Lane, Suite 333

Portland, Oregon 97224

September 2011

This report was prepared using sound engineering practices, analysis, and justification under the supervision of a registered Professional Engineer:

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LIST OF ACRONYMS AND ABBREVIATIONS

°C	Degree Celsius
µg	micrograms
ac	acre
AKART	All Known, Available, and Reasonable Treatment
B(a)P	Benzo(a)pyrene
bgs	below ground surface
BICC	BICC Cable Corporation
BMP	best management practice
BNSF	Burlington Northern Santa Fe Railway Company
BOD_5	biochemical oxygen demand
CARA	critical aquifer recharge area
CDID	Consolidated Diking Improvement District
CFR	Code of Federal Regulations
cfs	cubic foot per second
Chinook	Chinook Ventures, Inc.
CN	cyanide
COD	chemical oxygen demand
ConocoPhillips	ConocoPhillips Commercial Petroleum Fuel Coke
DEHP	bis(2-ethylhexyl) phthalate
DMR	Discharge Monitoring Report
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
Facility 71	Industrial Wastewater Treatment Plant
Facility 73	Retention Basin and Filter Plant
Facility 77	Outfall Sump/Pump Station
FS	Feasibility Study
ft	feet
gpm	gallon per minute
H:V	horizontal to vertical
HDPE	high density polyethylene

HTM	heat transfer media
HVAC	heating, ventilation, and air conditioning
L	liter
lbs/day	pound per day
LID	low impact development
MBTL	Millennium Bulk Terminals—Longview, LLC
mg	milligram
MGD	millions of gallons per day
MGSFlood	MGSFlood Model, Version 4.09
mL	milliliter
mm	millimeter
MPN	most probable number
MRL	method reporting limit
MSL	mean sea level
MT	metric ton
MTCA	Model Toxics Control Act
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NTU	nephelometric turbidity unit
NWA	Northwest Alloys, Inc., a subsidiary of Alcoa, Inc.
O&M	operations and management
PAH	polycyclic aromatic hydrocarbon
petroleum coke	pet-coke
POTW	public owned treatment works
Reynolds	Reynolds Metal Company
RI	Remedial Investigation
RM	river mile
SG	specific gravity
SIC	Standard Industrial Classification
SMMWW	Stormwater Management Manual for Western Washington
SR	State Route
SU	standard unit

T	ton
TBD	to be determined
TMDL	total maximum daily load
TPH	total petroleum hydrocarbon
TSS	total suspended solid
WAC	Washington Administrative Code
WAD	weak acid dissociable
WDNR	Washington State Department of Natural Resources
WHPP	Wellhead Protection Program
WRIA	Water Resource Inventory Area
WWHM	Western Washington Hydrologic Model
WWTP	wastewater treatment plant

1 INTRODUCTION

1.1 Purpose

This Engineering Report presents an evaluation of the existing stormwater and wastewater infrastructure, including conveyance and treatment systems, and proposed improvements to the existing systems at the Millennium Bulk Terminals – Longview, LLC (MBTL) facility located at 4029 Industrial Way in unincorporated Cowlitz County near Longview, Washington. Currently operated as a multi-modal bulk materials handling facility, the site includes buildings, equipment, and stormwater and wastewater treatment facilities from a former aluminum smelting operation. Stormwater and other wastewaters are discharged from the site pursuant to individual National Pollutant Discharge Elimination System (NPDES) Permit WA 000008-6. MBTL submitted a permit renewal application to the Washington State Department of Ecology (Ecology) on August 31, 2011. This report provides additional information in support of that permit application.

1.2 Report Contents

Section 2 describes the facility and the surrounding area. Historical information, including operations, ownership, and the transition of the site from a former aluminum smelter to its present function as a bulk materials handling facility, is presented and discussed in Section 3. Sections 4 and 5 address current and proposed operations at the site. Section 6 presents a discussion of stormwater and wastewater quality, including analysis of water quality data collected at the site between 2006 and 2011 and additional sampling conducted in June 2011 for the permit application. Sections 7, 8, and 9 include discussion of the facility's existing stormwater, process wastewater, and sanitary wastewater infrastructure, the results of computer modeling used to calculate expected flows, and evaluation of the existing systems. Recommendations for stormwater and wastewater infrastructure improvements based on the results of the evaluation are also included in these sections. Section 10 presents the conclusions of this Report.

The description of existing facilities within this report is based on available technical documentation, including engineering reports, operations manuals, and as-built drawings; administrative documentation (consent orders, permit documentation, etc.); observations

made during site visits; and accounts of personnel employed by the current and past operators of the site.

1.3 Business Information

1.3.1 Site Ownership

In January 2011, MBTL purchased certain site assets from the previous site operator, Chinook Ventures, Inc. (Chinook), and entered into a ground lease with Northwest Alloys, Inc. (NWA, a subsidiary of Alcoa Inc.). MBTL assumed operations of the existing multi-modal bulk materials handling facility. Exclusive of the assets owned by MBTL, the upland portions of the site are owned by NWA and the aquatic lands associated with the site are owned by the state of Washington and are managed by the Washington State Department of Natural Resources (WDNR). NWA leases the aquatic lands from the WDNR, and MBTL is an operator for NWA.

1.3.2 Type of Industry or Business

MBTL operates the site as a multi-modal bulk materials handling facility with a focus on the import, storage, and export of materials. Prior to MBTL's operations, bulk materials handled at the site related to smelting operations included, but were not necessarily limited to, alumina, calcined coke, coal, cryolite, aluminum fluoride, pitch, and aluminum.
The previous site tenant, Chinook, brought a number of products onto the site including green petroleum coke (pet-coke), which is currently being stored on behalf of ConocoPhillips Commercial Petroleum Fuel Coke (ConocoPhillips[1]), cement products, fly ash, slag, and anode carbon. These products are temporarily stored and MBTL intends to remove them from the site as soon as practicable. MBTL currently imports alumina for Alcoa and stores and handles alumina for Alcoa and coal for Weyerhaeuser. MBTL is also engaged in ongoing work in support of site decommissioning and remediation. Future materials handled at the site may include other bulk materials such as cementitious materials, fly ash, sand and gravel, and sodium hydroxide. While MBTL plans to someday

[1] Stormwater runoff and other wastewaters associated with the green pet-coke storage area are currently captured and reused within this area or trucked offsite for disposal. Additional pet-coke, as well as the Weyerhaeuser coal, fly ash, coal tar pitch, anode carbon, cement products, slag, and alkaline alumina are stored in containers, silos, or within buildings where they are not exposed to stormwater.

construct a coal export facility on site, and export coal through future shipping operations, MBTL will not do so pursuant to this NPDES permit renewal application and commits to submit a new NPDES permit renewal or modification application prior to undertaking that activity.[2]

Currently materials are transported to and from the site by ship, barge, train, or truck and handled at the site using marine vessel loading and unloading equipment, material handling equipment, and mobile equipment, such as front-loaders and trucks. Materials may be either directly transferred to another mode of transportation (e.g., from ship to train or truck) or temporarily stored at the site. No manufacturing or processing of materials is conducted on site. The Standard Industrial Classification (SIC) codes for the facility are 4491 (Marine Cargo Handling) and 4226 (Special Warehousing and Storage).

The site has undergone various remediation projects. Some of these projects were completed under formal oversight by state and federal agencies, while others were performed under the less formal voluntary cleanup programs. Current environmental monitoring and remedial activities are performed with Ecology oversight.

MBTL, which assumed operations on January 11, 2011, is working with NWA to remediate the site while continuing to manage bulk materials identical (e.g., coal) and/or similar to those that were handled during the aluminum smelter operations. In June 2007, Ecology issued an Agreed Order (DE4263) requiring the completion of a Remedial Investigation and Feasibility Study (RI/FS) at the site. Signatories to the Agreed Order included the landowner, NWA, and Chinook, which leased the land from NWA and operated the site. MBTL is actively working with Ecology to enter into a new agreed order with NWA regarding site remediation. RI/FS data collection and reporting activities were completed during 2007, consistent with the Ecology-approved work plan. RI/FS reports were submitted to Ecology in 2007. During 2011, Ecology requested that supplemental investigations be performed prior to finalizing the RI/FS reports for the site. Supplemental study activities include investigation of potential impacts to shallow soil, groundwater, and surface water

[2] MBTL contemplates seeking approvals for the future construction of a new dock or docks in the berthing areas adjacent to the existing facility dock to facilitate the transshipment of bulk commodities, including coal exports. No coal exports will occur from the existing dock.

from Chinook's activities on the site, including, but not limited to, thin stillage applications and green pet-coke storage. The primary chemicals of interest for the ongoing remedial activities and the supplemental remedial investigation include fluoride, cyanide, sulfate, total petroleum hydrocarbons (TPHs), and polycyclic aromatic hydrocarbons (PAHs). These chemicals have generally been included in NPDES permits and permit-required monitoring at the site.

2 SITE VICINITY

The site is located near Longview, Washington, in unincorporated Cowlitz County (Figure 2-1). The property and nearby properties are zoned for industrial use. Since the smelter was constructed in the early 1940s, various improvements have been made at the site, including construction of buildings, structures, equipment, infrastructure, and utilities (Figure 2-2). The site is approximately 10 feet above mean sea level (MSL) and bounded by the Columbia River to the south, drainage ditches to the north and west, and private property to the east. The drainage ditches are operated by the Consolidated Diking Improvement District No. 1 (CDID), which also manages the levee located within the site along the Columbia River shoreline. The ditches include CDID Ditch No. 14 to the west, No. 10 to the north, and No. 5 to the northeast. These ditches are intended to manage surface water and minimize flooding in the city of Longview and other nearby areas.

Industrial Way, also known as State Route (SR) 432, is the nearest transportation corridor, and it extends east-west through the northern portion of the site. The site includes multiple driveway access points, connections to mainline railways operated by the Burlington Northern Santa Fe Railway Company (BNSF) and a marine berth and overwater trestle on the Columbia River.

Properties adjacent to or neighboring the site include:

- North and east of the site:
  - Undeveloped property owned by NWA (along 38th Avenue)
  - Bonneville Power Administration power substation
  - Reynolds Federal Credit Union (owned by NWA)
  - Various industrial parcels further north and east
- South and east of the site:
  - Industrial property owned by Weyerhaeuser Company
- North and west of the site:
  - Undeveloped property owned by the Port of Longview

3 HISTORICAL OPERATIONS

The site began operations as an aluminum smelter in the 1940s, as Reynolds Aluminum-Longview Primary Reduction Plant (which became Reynolds Metals Company [Reynolds]). Increased industrial activity and new construction took place in the late 1960s as the facility was expanded to include six new potrooms (housing three potlines), a carbon plant, casting houses, ancillary buildings, dock and raw materials handling equipment, and cable manufacturing equipment. Production at the Cable Plant ended in 1992, but primary aluminum production at the smelter continued until 2001. The facility has undergone multiple ownership transfers, as described in greater detail in the following sections and summarized in Table 3-1.

Table 3-1
Summary of Ownership and Industrial Activities

Dates	Industrial Activities	Ownership
1941-1967	Primary aluminum production	Upland: Reynolds Smelter: Reynolds Cable Plant: NA Submerged: WDNR
1967-1992	Primary aluminum production, with cable manufacturing ceasing in 1992	Upland: Reynolds Smelter: Reynolds Cable Plant: Reynolds Submerged: WDNR
1992-1993	Primary aluminum production	Upland: Reynolds Smelter: Reynolds Cable Plant: BICC Submerged: WDNR
1993-May 2000	Primary aluminum production	Upland: Reynolds Smelter: Reynolds Cable Plant: Reynolds Submerged: WDNR

Dates	Industrial Activities	Ownership
May 2000- January 2001	Primary aluminum production	Upland: Reynolds[1] Smelter: Reynolds[1] Cable Plant: Reynolds[1] Shoreline: WDNR
January 2001- December 2004	Primary aluminum production ceases on February 28, 2001, facility maintained for restart	Upland: Reynolds Smelter: Longview Aluminum Cable Plant: Longview Aluminum Submerged: WDNR
December 2004 - September 2005	Smelter decommissioning	Upland: Reynolds Smelter: Chinook Cable Plant: Chinook Submerged: WDNR
September 2005- January 2011	Smelter decommissioning, private port for the import, handling, and export of dry bulk materials including coal, pet-coke, alumina, cement, fly ash, slag, and other materials	Upland: NWA Smelter: Chinook Cable Plant: Chinook Submerged: WDNR
January 2011- present	Bulk materials handling facility for alumina and Weyerhaeuser coal Ongoing site cleanup/remediation and various facility improvements	Upland: NWA Smelter: MBTL Cable Plant: MBTL Submerged: WDNR

Notes:
BICC = BICC Cable Corporation
Chinook = Chinook Ventures, Inc.
MBTL = Millennium Bulk Terminals—Longview, LLC
NWA = Northwest Alloys, Inc., a subsidiary of Alcoa, Inc.
pet-coke = petroleum coke
Reynolds = Reynolds Metal Company
WDNR = Washington State Department of Natural Resources
1 Alcoa, Inc. purchased Reynolds in May 2000 but retained the asset as a wholly owned subsidiary.

3.1 Operations Summary

3.1.1 Reynolds Metals Company (1941-2001)

The site was originally developed in 1941 by Reynolds as an aluminum smelter. In the late 1960s, operations expanded to include additional aluminum production capacity. Production facilities then included six potlines (three in the North Plant and three in the South Plant), a carbon plant, and two cast houses. The Reynolds Cable Plant occupied the northwestern corner of the site and was operated as its own business entity. Reynolds also owned or managed various buildings and facilities on site, including office buildings, parking areas, a

railway switch yard, a marine berth, waste disposal ponds and landfills (some of which are remediated and monitored), a cryolite recovery plant (now demolished), and several undeveloped areas. A domestic wastewater treatment system was constructed in the 1940s and underwent updates in the 1960s. Additionally, the site had a comingled storm and process water collection system. The central pump station and "thickeners" (Facility 77) were added to the industrial wastewater treatment system in the 1970s when air pollution control equipment was installed at the facility. The Industrial Wastewater Treatment Plant (WWTP; Facility 71) and the Retention Basin and Filter Plant (Facility 73) were added in 1988 and 1994, respectively, and are discussed in detail later in this section.

The Cable Plant was constructed on the northwestern portion of the site in the late 1960s. It produced electrical cable products, including aluminum wire, rods, and insulated (polyethylene and polyvinyl) low and medium voltage cable. The plant received molten aluminum from the smelter and processed it in three furnaces, a continuous ingot caster, a rolling mill, and wire drawers. Ancillary structures associated with the Cable Plant included office buildings, parking, and an on-site domestic WWTP. The domestic WWTP was idled and domestic wastewater was pumped to the Reynolds aluminum smelter's domestic WWTP for collection and treatment. Although Reynolds owned the smelter and the Cable Plant, the facilities were managed by different entities within the company and generally functioned independently. The Cable Plant assets were sold to BICC Cable Corporation (BICC) in 1992. Production at the Cable Plant ended in 1992, and since that time, the facility has been inactive.

Reynolds continued to own and operate the aluminum smelter until 2001. In 2000, Reynolds was purchased as a wholly owned subsidiary of Alcoa, and as part of the purchase agreement, all or a portion of the aluminum smelter was required to be sold. WDNR owned the submerged areas throughout the site and leased to Reynolds and then NWA (a subsidiary of Alcoa).

3.1.2 Longview Aluminum, LLC (2001 – 2004)

Longview Aluminum, LLC purchased the aluminum smelter, including the Cable Plant, from Reynolds in January 2001 and entered into a land lease with Reynolds. Aluminum

production did not occur while Longview Aluminum operated the site. Reynolds retained ownership of the upland real estate during this time, and the submerged areas were leased from WDNR.

Longview Aluminum declared bankruptcy in 2003, and its remaining assets were sold by an estate trustee to Chinook in 2004.

3.1.3 Chinook Ventures, Inc. (2004 – 2011)

Chinook purchased the remaining assets (i.e., buildings, equipment, and materials) from Longview Aluminum and entered into a long-term lease with Reynolds in December 2004. Chinook leased the submerged areas from WDNR. In September 2005, ownership of the upland real estate was transferred from Reynolds to NWA.

Chinook operated the site primarily as a private port for the import, handling, and export of dry bulk materials, such as alumina, coal, green pet-coke, alumina, cement, fly ash, slag, and other materials. Chinook also nearly completed decommissioning the aluminum smelter equipment from inside the buildings.

On January 11, 2011, Chinook sold the facility to MBTL.

3.2 Historical Stormwater and Wastewater

The first NPDES permits for the site were issued by Ecology in the mid-1970s, shortly after the inception of the NPDES program. The Cable Plant and smelter were permitted separately by NPDES Permit WA 000008-6 (smelter) and WA 000039-6 (Cable Plant). NPDES permit requirements have been modified several times since they were first issued as a result of evolving environmental regulations and operational changes at the site. A chronology of the stormwater and wastewater management systems and associated permits is detailed below to the extent available.

3.2.1 Reynolds Stormwater and Wastewater

Historical plans indicate that by the late 1960s, stormwater and process wastewater were collected in a system of concrete-lined earthen ditches and conveyance and process lines that

flowed via mechanical means (i.e., pumps) to either CDID ditches or to a common collection location known as the Facility 77 sump/pump station, which ultimately discharged to the Columbia River. Sanitary wastewater was collected at the site, treated on site, and discharged to the Columbia River via a separate outfall. Site plans showing the layout of the facility in 1968 and 1988 are provided as Figures 3-1 and 3-2.

3.2.1.1 Pre-1985

NPDES Permit WA 000008-6 was issued by Ecology on January 1, 1978. The letter accompanying the permit indicates the new permit contained few changes from the previous version. Permitted outfalls identified in the 1978 permit are presented in Table 3-2.

Table 3-2
Outfall Inventory: Reynolds Operations (1978 Permit WA 000008-6)

Outfall ID	Waste Stream Type	Discharge Location
001	Treated domestic sewage	Columbia River
002	Industrial and cooling	Columbia River
003	Industrial and cooling	CDID Ditch No. 1 (present day Ditch No. 10)

Notes:
CDID = Consolidated Diking Improvement District

Reynolds submitted a renewal application for Permit WA-000008-6 on December 17, 1980. The permit was reissued in 1980 and expired in 1985.

3.2.1.2 1985-1990

Reynolds submitted a renewal application in 1985, and Permit WA 000008-6 was reissued by Ecology to Reynolds on July 16, 1985. Three additional outfalls (002B, 004, and 005) were included in the 1985 permit. An inventory of the permitted outfalls appears in Table 3-3. The 1985 permit was accompanied by Administrative Order DE 85-213, which required the installation of a new wastewater treatment system designed to meet the new effluent limitations outlined in the permit.

Table 3-3
Outfall Inventory: Reynolds Operations
(1985 Permit WA 000008-6)

Outfall ID	Waste Stream Type	Discharge Location
001	Treated sanitary sewer effluent	Columbia River
002A	Treated stormwater and process wastewater effluent	Columbia River
002B	Effluent from Facility 71 (constructed in 1988)	Internal discharge ultimately discharged through Outfall 002A
003	Cooling water and stormwater from Industrial Way frontage	Culvert at Cable Plant discharging to Solo Slough (present day CDID Ditch No. 10)
004	Stormwater from White and Black Mud Ponds and Floor Sweeps Landfill	60-inch culvert discharging to CDID Ditch No. 3 (present day Ditch No. 5)
005	Stormwater from gate dam near northeast corner of existing Black Mud Pond	Reynolds drainage ditch 900 feet upstream of junction with CDID Ditch No. 14

Notes:
CDID = Consolidated Diking Improvement District

The 1985 permit contained requirements to complete a Stormwater/Wastewater Discharge Reduction Elimination Study to determine whether stormwater was a significant source of aluminum and fluoride at Outfall 002A and to develop and implement an Operations and Management (O&M) Plan for the new Facility 71 that documented standard procedures for baseline operation at expected production levels and contingency procedures for unexpected production levels.

On August 15, 1985, Reynolds requested a hearing to review the permit. A Stipulation and Order was issued on October 11, and a modified NPDES permit was issued to the facility on November 25. The revised permit decreased monitoring frequency for certain parameters at Outfall 002A. It also required that the facility include cyanide and benzo(a)pyrene in the Stormwater/Wastewater Discharge Reduction Elimination Study required by the original 1985 permit.

The permit-required Stormwater Study describing the contribution of benzo(a)pyrene, fluoride, cyanide, and aluminum in stormwater discharged at Outfall 002A was completed in June 1986 and submitted to Ecology. The study concluded that stormwater discharged at Outfall 002A contributed pollutants and could in some cases cause discharge concentrations to exceed permit limits at the outfall. The study recommended that stormwater allowances for aluminum and fluoride should be increased and that allowances for cyanide and benzo(a)pyrene should be added to the NPDES permit.

Facility 71 and Outfall 002B were constructed and operational by May 31, 1988. The permit-required O&M Plan was finalized in February 1988.

3.2.1.3 1990-1995

Ecology renewed the permit on October 15, 1990. By this time, Ecology had identified contamination in the CDID ditch system. The facility was not believed to have contributed to the existing contamination, but Ecology added permit conditions to reduce or eliminate the potential for future contributions from the site. The facility was required to close Outfall 004 and re-route the discharge to Outfall 002A. The 1990 permit also required that the facility conduct several studies, including a Stormwater/Wastewater Discharge Reduction Elimination Study, a comprehensive investigation of stormwater pollutant sources and concentrations, and an evaluation of opportunities for optimizing fluoride treatment at the existing Facility 71.

The 1990 permit also addressed the anticipated closure of the Black Mud Pond. Constructed in 1972 and enlarged in 1982, the pond received the byproducts of the cryolite recovery process, a fine, black slurry referred to as “Black Mud,” until 1990 when the cryolite recovery plant operations ceased and spent potliners were shipped off site to a treatment, storage, and disposal facility. Closure and post-closure plans for the pond were submitted to Ecology in 1990 and approved in July 1991.

The 1990 permit provided two tiers of effluent limitations. The facility was initially required to meet the first set of limitations. When the Black Mud Pond was closed and the permit-

required Fluoride Conversion Engineering Assessment was completed, the facility was required to meet the second tier limitations.

In 1991, Reynolds implemented provisions of the 1990 permit that resulted in several changes to the outfalls. Reynolds closed Outfall 004 in late 1991, and a lift station was installed near the outfall to route stormwater back to the facility for reuse as make-up water for the air pollution control equipment and ultimately sent to Facility 71 prior to discharge at Outfall 002A. Reynolds also implemented increased monitoring programs to evaluate stormwater quality in Outfalls 003 and 005. The monitoring programs revealed that the stormwater runoff quality from Outfall 003 met Washington Chronic Water Quality Standards, and discharges through Outfall 003 continued. The runoff quality from Outfall 005 exceeded the free cyanide concentration in Washington Chronic Water Quality Standards; therefore, stormwater that previously discharged through Outfall 005 was diverted to Outfall 002A. This change was accomplished in February 1992 by installing a gate dam in the drainage ditch upstream of the discharge from the Cable Plant.

In 1992, a new outfall (006) was created when the Black Mud Pond cover was constructed. O&M for the covered pond included management of stormwater and leachate. Stormwater runoff on the surface of the covered pond drained through the upper layers of the cover system to perforated pipes installed within a sand drainage layer. In accordance with the closure plan approved by Ecology, the drainage pipes conveyed runoff to a culvert that discharged to CDID Ditch No. 14 (Outfall 006). Liquid beneath the impermeable cap layers drained through the black mud and into a temporary dewatering sump. Water from the temporary sump was conveyed via pipe to a leachate ditch on the southern boundary of the pond. The contents of the leachate ditch were pumped back to the smelter to be reused as make-up water for the air pollution control equipment and ultimately sent to Facility 71 for treatment prior to discharge at Outfall 002A.

On August 17, 1992, Reynolds completed the permit-required Fluoride Conversion Engineering Assessment. As the closure of the Cryolite Plant and Black Mud Pond were expected to result in decreased cyanide effluent concentrations, Ecology suggested that the existing Facility 71 should be modified to maximize fluoride removal. The study concluded

that this effort was premature, as cyanide was likely to remain in the effluent as long as the Black Mud Pond produced leachate.

A list of outfalls operated by Reynolds and changes made to those outfalls during this permit cycle are included in Table 3-4.

Table 3-4
Outfall Inventory: Reynolds Operations
(1990 Permit WA 000008-6)

Outfall ID	Waste Stream Type	Discharge Location	Changes Made	Date of Change
001	Treated sanitary sewer effluent	Columbia River	N/A	N/A
002A	Treated stormwater and process wastewater effluent	Columbia River	N/A	N/A
002B	Effluent from Facility 71	Internal to Facility 71	N/A	N/A
003	Cooling water from heating and air conditioning and stormwater	CDID Ditch No. 10	Monitoring program, no changes made	1991
004	Stormwater	CDID Ditch No. 5	Closed outfall; rerouted to Outfall 002A	November 1991[1]
005	Stormwater	CDID Ditch No. 14	Drainage area reduced by gate dam[2]	February 1992
006	Stormwater from Closed Black Mud Pond cover	CDID Ditch No. 14	New outfall constructed in accordance with the Ecology-approved Black Mud Pond Closure Plan	October 1992[3]

Notes:
CDID = Consolidated Diking Improvement District
Ecology = Washington State Department of Ecology
Facility 71 = Industrial Wastewater Treatment Plant
1 Changes required by NPDES Permit 000008-6, issued October 15, 1990.
2 Gate dam installed in drainage ditch to route stormwater upstream of Cable Plant to Outfall 002A.
3 Outfall created after the issuance of the 1990 permit. Outfall included in permit applications submitted in 1995 and 2000. Ecology has not taken final action on the applications.

The Stormwater/Wastewater Discharge Reduction Elimination Study (required by the 1990 permit) was completed in September 1992. The purpose of the study was to assess the quality of stormwater runoff discharged through the internal outfall from Facility 71, Outfall

002B. Per the work plan approved by Ecology in 1991, the study delineated drainage basins, identified significant industrial activities in each basin, and calculated expected flows and pollutant loads in stormwater runoff. The study concluded that stormwater runoff occasionally caused total suspended solids (TSS) and aluminum to exceed the technology-based effluent limitations at Outfall 002A, which were established on the basis of the facility's process wastewater discharges, and that the primary pathway for stormwater contamination was the entrainment of particulates originating from raw materials and industrial byproducts in runoff from buildings and paved areas. Figure 3-3 shows the drainage basins and industrial activities identified by the study.

Following the initial permit issuance in 1990, Reynolds filed an appeal and request for stay of permit conditions on November 11, 1990.

In response to a settlement of the appeal, Ecology amended Administrative Order DE 90-I057 on April 1, 1992 (the original administrative order accompanied the 1990 permit). The amended order required the facility to design and implement a treatment system capable of meeting All Known, Available, and Reasonable Treatment (AKART) based effluent limits for TSS, aluminum, and oil and grease at Outfall 002A.

Facility 73 was designed and installed in 1994. Prior to treatment, stormwater and contact cooling water were separated from non-contact cooling water, as required by the amended administrative order. Stormwater and contact cooling water were routed to the new Retention Basin equipped with an oil skimming system. The clarified effluent from the basin is monitored continuously for turbidity (as a surrogate for TSS). If discharge limitations are not met, the effluent is routed through the multi-media filters in the Filter Plant. Non-contact cooling water was not routed through the treatment system but was discharged directly through Outfall 002A. Treated stormwater and contact cooling water were also discharged at Outfall 002A.

NPDES Permit WA 000039-6 was reissued by Ecology to BICC for the Cable Plant on October 28, 1992. The permit included internal and external discharge points numbered 001 through 011. With the exception of 007, all flow converged in an on-site ditch, which conveyed the water through a set of weirs and ultimately discharged to CDID Ditch No. 14

via Outfall 009. Monitored outfalls included in the 1992 permit are listed in Table 3-5. A site plan showing the outfall locations is included on Figure 3-4.

Table 3-5
Monitored Outfalls: Cable Plant Operations
(1992 Permit WA000039-6)

Outfall ID	Waste Stream Type	Discharge Location
002	Non-contact cooling water for bobbins and extruders Contact cooling water for insulated cable, wet test tank discharge, boiler blow down, and stormwater	Internal discharge (federally mandated compliance point under Aluminum Forming and Plastics Molding and Forming Categories)
003	Air compressor cooling water, hydraulic cyclones water treatment, water softener blow down, and stormwater	Internal discharge
007	Stormwater; in the event of a power failure wastewater may discharge from overflow sump through this outfall	CDID Ditch No. 10 (sample shall be taken prior to commingling with discharge from smelter)
009	Rolling mill heat exchangers, casting wheel, furnace water jackets, air compressor cooling water, and stormwater	CDID Ditch No. 14 (sampling location is the same location as smelter Outfall 005)

Notes:
CDID = Consolidated Diking Improvement District

On December 12, 1992, BICC notified Ecology that all production activities would cease on December 18, 1992. The 1992 permit was modified by Ecology on August 31, 1994, to reflect decreased production and again on September 16, 1994, to reflect ownership transfer from BICC to Reynolds.

3.2.1.4 1995-2001

Reynolds submitted the application for renewal of Permit WA 000008-6 on April 11, 1995. The application included monitoring data for the new Outfall 006, which was created in accordance with the Ecology-approved Black Mud Pond Closure Plan. On August 20, 1996, Ecology notified Reynolds that the permit application had been received and determined to be timely and sufficient; however, due to Ecology's workload, the application could not be

processed in the near future, and the current NPDES permit would remain in effect until further notice.

Similarly, on November 25, 1997, Ecology notified Reynolds that the NPDES permit application for Permit WA 000039-6 had been received and determined to be timely and sufficient; however, due to Ecology's workload, the application could not be processed in the near future, and the current NPDES permit would remain in effect until further notice or until June 30, 2001.

As required in the 1990 permit, Reynolds submitted a work plan for the Discharge Reduction/Elimination Study in October 1992. Ecology approved the plan in March 1998, and the study was completed 1999. The report identified and characterized the volume and quality of wastewater and stormwater discharges, developed and evaluated the technical and economic feasibility of contaminant reduction and elimination alternatives, and discussed the technical feasibility and estimated cost of water use reduction and reuse alternatives. The report recommended that the facility pursue several water use and reuse opportunities; however, no cost-effective discharge reduction or elimination alternatives were identified.

On March 2, 2000, Ecology requested that Reynolds update the 1995 permit application for the smelter (WA 000008-6) within 60 days. Reynolds requested and was granted an extension to June 30. The application was submitted on June 29. Supplemental information was requested by Ecology, including analytical results from Outfall 006 sampling, and submitted on August 2, August 6, and October 11.

On May 16, 2000, Ecology requested that Reynolds update the 1990 permit application for the Cable Plant (WA 000039-6). The updated permit application was submitted on June 30. The updated application materials indicated that most of the equipment associated with the Cable Plant had been removed from the site when production ceased in 1992. Following the cessation of production in 1992, industrial activities at the Cable Plant had been limited to warehousing paper products.

3.2.2 Longview Aluminum Stormwater and Wastewater

In January 2001, Longview Aluminum purchased the facility, including the smelter and the Cable Plant, from Reynolds. Longview Aluminum notified Ecology that ownership and responsibility for Permit WA 000008-6 would transfer from Reynolds to Longview Aluminum on February 26. By March, Longview Aluminum had closed the aluminum smelter and shut down aluminum production. Due to the curtailed production, Longview Aluminum requested reduced monitoring frequencies at Outfalls 002A and 003 in September. On February 1, 2002, Ecology amended the existing NPDES Permit WA 000008-6 to allow for reduced monitoring during temporary production shutdown (90 percent or more of potline operation). Ecology accepted the request for reduced monitoring at Outfalls 002A, 002B (when Facility 71 was not discharging), and 003. Longview Aluminum requested additional reduced monitoring due to the curtailment of aluminum production. Ecology issued a letter modification to the NPDES permit on June 26, 2003, further reducing required monitoring frequencies at Outfalls 001, 002A, 002B, and 003.

Longview Aluminum also assumed responsibility for the existing Cable Plant NPDES permit (WA 000039-6). Ecology issued the renewed NPDES Permit WA 000039-6 on September 28, 2001, and it became effective on November 11. Permitted outfalls are included in Table 3-6.

Table 3-6
Outfall Inventory: Cable Plant Operations (2001 Permit WA000039-6)

Outfall ID	Waste Stream Type	Discharge Location
007	Stormwater from a portion of the parking lot	CDID Ditch No. 10 (sample shall be taken prior to commingling with discharge from smelter)
009	Stormwater from the majority of the complex (received process water when plant was operating)	CDID Ditch No. 14 (sampling location is the same location as smelter Outfall 005)

Notes:
CDID = Consolidated Diking Improvement District

3.2.3 Chinook Stormwater and Wastewater

In December 2004, Chinook purchased the facility from Longview Aluminum. Chinook notified Ecology of the transfer of Permit WA 000008-6 on May 10, 2005. Based on

Ecology's recommendation, Chinook requested that Ecology terminate the Cable Plant permit (WA 000039-6) because the Cable Plant had been closed and most of the equipment removed. Ecology approved the termination of the permit on September 7, 2005.

Chinook made multiple changes to the stormwater and wastewater infrastructure and constructed improvements on site in support of the handling and import/export of dry bulk materials. These site modifications were often not well documented. Site modifications by Chinook include the following:

- Downsized capacity of the industrial process wastewater treatment pump station
- Modified drainage systems, affecting drainage areas and treatment regimes
- Modified access and maintenance roads
- Conducted various land clearing and grading activities
- Constructed a flat storage area for green pet-coke and coal

As a result of these activities, several spill events, poor housekeeping, and poor recordkeeping and reporting, Ecology levied multiple penalties and administrative orders against Chinook for violations of the NPDES permit between 2005 and 2010. A brief summary of significant actions is provided in the following paragraphs.

In emails sent on March 15, and 23, 2006 Ecology requested that Chinook increase their sampling frequency for aluminum, fluoride, and TSS at Outfall 002A from one sample per week to two samples per week, due to exceedances of these effluent limitations.

On April 4, 2008, Notice of Violation (NOV) 5551 was issued to Chinook for numerous violations, including failure to meet permit limitations at Outfalls 001, 002A, and 002B in 2006 and 2007; failure to submit complete and accurate information on Discharge Monitoring Reports (DMRs) in 2006 and 2007; failure to conduct permit-required monitoring; failure to properly operate the Facility 71; failure to prevent entry of solid waste into waters of the state; and failure to notify Ecology of new industrial activities on site.

On March 9, 2009, Ecology issued Administrative Order 6422 requiring the site to submit an up-to-date NPDES permit renewal application by July 1. In addition to updating the existing plans that had been required by the 1990 permit, Ecology requested that the facility submit

an engineering report evaluating Facility 73 and recommending improvement if needed to meet present-day standards.

Chinook submitted a permit renewal application to Ecology on July 1, 2009. The application included the former smelter and Cable Plant. The permit application and engineering report identified sanitary sewer, non-contact water from heat pump cooling, and contact water associated with cleaning and dust control activities discharges from the site. Six outfalls, including the internal Outfall 002B and Outfall 006 created by the Ecology-approved Black Mud Pond Closure Plan, were included on the permit application and are summarized in Table 3-7. A site plan showing the outfall locations is included as Figure 3-5. Chinook submitted an amended application on August 21, which included Corn Steep Liquor (also known as thin stillage or corn milk) as a product to be handled at the site.

Table 3-7
Outfall Inventory: Chinook Operations
(2009 Permit Application WA 000008-6)

Outfall ID	Waste Stream Type	Discharge Location
001S	Treated sanitary sewer effluent (generated on site) and groundwater inflow/infiltration	Columbia River
002A	Treated effluent from Facility 73, includes stormwater, process wastewater, and groundwater inflow/infiltration	Columbia River
002B	Internal outfall from industrial wastewater treatment plant (Facility 71), discharges to Outfall 002A	Internal to Facility 71
003C	Non-contact cooling water from heat pump, construction activities, and groundwater and stormwater	CDID Ditch No. 10
005	Stormwater from former Cable Plant, miscellaneous cleaning, and groundwater	CDID Ditch No. 14
006	Stormwater from Closed Black Mud Pond cap	CDID Ditch No. 14

Notes:
CDID = Consolidated Diking Improvement District

In 2010, Ecology issued two administrative orders pertaining to water quality and NPDES discharges. Administrative Order 7392 was issued on February 26 in response to a release of green pet-coke into the Columbia River. Ecology determined through laboratory analysis

that the released materials had originated from the site. The order required that the facility immediately cease all loading and unloading of green pet-coke, hire a third party to investigate the cause of the release, prepare an operations plan for green pet-coke activities, and evaluate whether the existing Retention Basin provided adequate treatment (per Ecology 2005) for the current industrial activities, including the handling and storage of green pet-coke.

The second administrative order was issued in response to Chinook's management of the Closed Black Mud Pond. Administrative Order 8027, issued by Ecology on October 8, 2010, stated that Chinook was compromising the integrity of the cover by applying thin stillage and grazing livestock on the closed pond[3]. Furthermore, Chinook had damaged the leachate line from the Closed Black Mud Pond and had not properly repaired the line[4]. Additionally, it noted that Chinook had altered the drainage in the area, allowing the partial re-route of Outfall 005 to return to Outfall 005 instead of treating it and discharging to the Columbia River through Outfall 002A[5]. Stormwater was discharged through Outfall 006, which was not included as a permitted outfall in the existing NPDES permit (although, as noted below, it was included in the Ecology-approved Black Mud Pond Closure Plan[6]). Groundwater monitoring results from 2004 to 2009 were not submitted to Ecology. The administrative order required that Chinook submit the groundwater monitoring results and return the pond to permitted conditions by removing the livestock, repairing the cap, and rerouting the drainage[7].

Outfall 006 was created during the Black Mud Pond cover construction in 1992. The cover design in the Ecology-approved Black Mud Pond Closure Plan involved discharging stormwater from the surface of the cap to the CDID ditch at Outfall 006. Monitoring data

[3] MBTL has an approved plan from Ecology to repair the cover and this work is complete. The completion report will be submitted to Ecology by October 17, 2011.
[4] MBTL has submitted a plan for Ecology approval to repair this line. MBTL intends to complete this repair within 90 days of receiving Ecology's approval.
[5] MBTL placed a temporary pump and pipe in place during the winter and spring of 2011 to pump this water back into the treatment system of Outfall 002A. MBTL has a plan submitted for Ecology approval to install a permanent line to connect this area with the treatment system for Outfall 002A. MBTL intends to complete this work within 90 days of receiving Ecology approval.
[6] MBTL has submitted a plan to Ecology for approval to route Outfall 006 into the treatment system for Outfall 002A. MBTL intends to complete this work within 90 days of receiving Ecology approval.
[7] MBTL submitted these reports to Ecology in March 2011.

for Outfall 006 was included in the NPDES Permit WA000008-6 1995 and 2000 permit applications submitted to Ecology by Reynolds and the 2009 application submitted by Chinook.

A summary of permit activities is listed in Table 3-8; note that it is not a complete list of permit activities.

Table 3-8
Summary of NPDES Permit Activity and Related Matters

Date	Activity	Operator/Land Owner
January 1, 1978	Previous NPDES Permit WA 000008-6 expires, permit is renewed by Ecology	Reynolds (BICC owns Cable Plant assets and permit 1992/1993)/Reynolds
December 17, 1980	NPDES Permit WA 000008-6 application is submitted to Ecology	
July 1, 1981	1978 NPDES Permit WA 000008-6 expires, permit is renewed by Ecology	
July 16, 1985	1985 NPDES Permit WA 000008-6 issued by Ecology to Reynolds	
November 25, 1985	First Permit WA 000008-6 revision by Ecology, decreased monitoring requirements based on results of permit-required studies, added a requirement for cyanide and benzo(a)pyrene study at Outfall 002	
January 15, 1990	Reynolds submits NPDES Permit WA 000008-6 permit renewal application to Ecology	
October 15, 1990	1990 NPDES Permit WA 000008-6 issued by Ecology to Reynolds	
April 1, 1992	First 1990 NPDES permit modification and the amended Administrative Order DE 90-I057 goes into effect	
October 28, 1992	1992 NPDES Permit WA 000039-6 issued by Ecology to Reynolds	
December 14, 1992	BICC informs Ecology that Cable Plant production will end December 18, 1992	
August 31, 1994	First 1992 NPDES Permit WA 000039-6 modification goes into effect	
September 16, 1994	Second 1992 NPDES Permit WA 000039-6-modification changing permit holder from BICC cable to Reynolds	

Date	Activity	Operator/Land Owner
April 11, 1995	Reynolds submits an NPDES Permit WA 000008-6 renewal application to Ecology	
August 20, 1996	Ecology issues a letter in response to NPDES Permit WA 000008-6 renewal application, no renewal processed immediately due to permit workload, permit remains in effect	
August 7, 1997	Reynolds submits a NPDES Permit WA 000008-6 modification request to Ecology to reduce monitoring frequencies[1]	
November 25, 1997	Ecology issues a letter in response to NPDES Permit WA000039-6 reissue application, no action taken immediately due to permit workload, permit remains in effect until June 30, 2001	
March 2, 2000	Ecology issues a request for Reynolds to update 1995 NPDES Permit WA 000008-6 renewal application	
May 1, 2000	*Alcoa purchases Reynolds assets*	Reynolds/Reynolds
May 31, 2000	Ecology issues an extension to submit the updated NPDES Permit WA 000008-6 renewal application to June 30, 2000	
June 29, 2000	Reynolds updates the NPDES Permit WA 000008-6 renewal application, per request from Ecology	
June 30, 2000	Reynolds updates the NPDES Permit WA 000039-6 renewal application, per request from Ecology	
January 2001	*Longview Aluminum purchases smelter assets from Alcoa*	Longview Aluminum/ Reynolds
February 26, 2001	Longview Aluminum notifies Ecology of the NPDES Permit WA000008-6 ownership transfer from Reynolds (change of ownership took place this day)	
February 28, 2001	Longview Aluminum closes aluminum production operations	
September 24, 2001	Longview Aluminum submits a NPDES Permit WA 000008-6 modification request to Ecology to reduce monitoring frequencies[2]	
September 28, 2001	2001 NPDES Permit WA 000039-6 issued by Ecology to Longview Aluminum (effective November 1, 2001)	
February 1, 2002	Second 1990 NPDES Permit WA 000008-6 modification goes into effect[3]	
April 30, 2003	Longview Aluminum submits a NPDES Permit WA 000008-6 modification request to Ecology to further reduce monitoring frequencies[4]	

Date	Activity	Operator/Land Owner
June 26, 2003	Pursuant to the terms of NPDES Permit WA 000008-6, Ecology further reduces permit monitoring frequencies due to closure of aluminum production[5]	
December 2004	*Chinook purchased remaining smelter assets, entered into lease with Alcoa*	Chinook/ NWA
May 10, 2005	Chinook notifies Ecology of the NPDES Permit WA 000008-6 ownership transfer from Longview Aluminum	
September 2005	*NWA assumes ownership of land from Reynolds*	
September 7, 2005	At Chinook's request, Ecology terminates 2001 NPDES Permit WA 000039-6 because the closure of the Cable Plant makes the permit unnecessary	
March 15, and 23, 2006	Ecology increases aluminum, fluoride, and TSS monitoring frequency at Outfall 002A from one sample per week to two samples per week.	
April 4, 2008	Ecology issues a NOV, followed by a penalty and enforcement order for violations of the NPDES Permit WA 000008-6	
July 1, 2009	Chinook submits a NPDES Permit WA 000008-6 renewal application (includes Cable Plant) to Ecology	
August 21, 2009	Chinook amends the NPDES Permit WA 000008-6 renewal application to add "corn steep liquor" (also known as thin stillage)	
February 26, 2010	Ecology issues a penalty and administrative order to Chinook for a spill of pet-coke into the Columbia River	
January 13, 2011	MBTL notifies Ecology of the NPDES Permit WA 000008-6 ownership transfer	MBTL/NWA
August 31, 2011	MBTL submits an NPDES Permit WA 000008-6 renewal application to Ecology	

Notes:
BICC = BICC Cable Corporation
Chinook = Chinook Ventures, Inc.
Ecology = Washington State Department of Ecology
MBTL = Millennium Bulk Terminals—Longview, LLC
NPDES = National Pollutant Discharge Elimination System
NWA = Northwest Alloys, Inc., a subsidiary of Alcoa, Inc.
Reynolds = Reynolds Metal Company
TSS = total suspended solids
1 Reynolds requests a reduction in monitoring frequencies at Outfalls 001S, 002A, 002B, and 003.
2 Longview Aluminum requests a reduction in monitoring frequencies at Outfalls 002A and 003, due to closure of aluminum production.
3 Ecology modified NPDES permit to reduce monitoring frequencies for Outfalls 002A and 003.

4 Longview Aluminum requests further reductions in monitoring frequency at Outfalls 002A and 003 and a reduction in monitoring frequencies at Outfalls 001 and 002B.
5 Pursuant to the NPDES permit, Ecology further reduced monitoring frequencies for Outfalls 002A and 003 and reduced monitoring frequencies at Outfalls 001 and 002B.

On January 13, 2011, MBTL notified Ecology that it had purchased the facility from Chinook. MBTL transferred coverage of the existing NPDES permit from Chinook and stated its intention to submit an updated NPDES permit renewal application for discharges from the site. Since acquisition of the site, MBTL has worked with Ecology to address corrective actions for the existing permits, Chinook's past penalty fees and Ecology orders. MBTL has had frequent meetings with Ecology staff regarding NPDES issues and has notified Ecology of stormwater treatment and related upgrades and modifications, including capture of green pet-coke pile stormwater runoff. MBTL has continued monitoring reports required by the existing NPDES permit and has worked to complete investigations and improvements required by the administrative orders.

4 CURRENT OPERATIONS, ACTIVITIES, AND SITE IMPROVEMENTS

4.1 Current Operations

MBTL purchased the facility from Chinook on January 11, 2011. Prior to and at the time of acquisition, Ecology was notified that responsibility for the NPDES permit would be transferred from Chinook to MBTL. The permit was transferred on January 13, 2011. NWA retains ownership of the upland real estate, which includes certain portions of the adjacent tidelands, and leases the aquatic lands from WDNR.

MBTL operates the site as a multi-modal bulk materials handling facility that focuses on the import, storage, and export of materials. Generally, the materials are transported to and from the site by ship, barge, train, or truck and handled at the site using marine vessel loading and unloading equipment, material handling equipment, and mobile equipment, such as front-loaders and trucks. Materials are either directly transferred to another mode of transportation (e.g., from ship to train or truck) or temporarily stored at the site. MBTL does not manufacture or process any materials on the site.

Presently, MBTL handles alumina for Alcoa, as well as coal for the adjacent Weyerhaeuser pulp and paper mill. MBTL is also engaged in ongoing work in support of site decommissioning and remediation. Future materials handled at the site may include, but are not limited to, calcined coke, pitch, fly ash, sand and gravel, cementitious materials, Weyerhaeuser coal, and sodium hydroxide. While MBTL plans to someday construct a coal export facility on the site, and export coal through future shipping operations, MBTL will not do so pursuant to the current NPDES application (August 31, 2011), and commits to submit a new NPDES application prior to undertaking that activity.

Prior to MBTL's operations, bulk materials handled at the site integral to smelting operations included, but were not necessarily limited to, alumina, calcined coke, coal, cryolite, aluminum fluoride, pitch, and aluminum. Following the smelter operations, the previous site tenant, Chinook, brought a number of products onto the site which remain on-site including green pet-coke, which is currently being stored on behalf of ConocoPhillips.[8] These products are temporarily stored and MBTL intends to remove them from the site as soon as practicable. Chinook also stored coal on behalf of Weyerhaeuser—an activity that MBTL continues to date, as described more fully below.

4.2 Current Industrial Facilities

Existing areas and facilities originally constructed by Reynolds and that remain at site are shown on Figure 2-2. Wastewater flows from current operations is shown on Figure 4-1. As previously stated, no manufacturing or processing of materials is conducted on site.

4.2.1 Current Bulk Materials

Current bulk materials handled or stored on site are listed in Table 4-1. A Building Location Map is provided as Figure 4-2. Note that many of the materials currently stored on site were brought on site by the previous tenant and MBTL is preparing for off-site disposition of these materials. Therefore, continued long term handling is not planned. It is anticipated that alumina for Alcoa's aluminum smelter operations in other locations will continue to be imported through and handled at the site in the near term. Similarly, coal was previously used by Reynolds as an integral part of the aluminum manufacturing process, was subsequently stored on site by Chinook, and is currently brought on site for Weyerhaeuser and then unloaded, stored, and transported to Weyerhaeuser for their use.

[8] Stormwater runoff and other wastewaters associated with the green pet-coke storage area are currently captured and reused within this area or trucked offsite for disposal. Additional pet-coke, as well as the Weyerhaeuser coal, fly ash, coal tar pitch, anode carbon, cement products, slag, and alkaline alumina are stored in containers, silos, or within buildings where they are not exposed to stormwater.

Table 4-1
Current Bulk Materials

Material/Product	Description of Operation	Location
Alumina	Imported over Dock 1, stored in silos, loaded into railcars to distributed to Alcoa's Wenatchee facility.	Vacuum ship unloader, alumina silos, and central unloading
Weyerhaeuser Coal	Imported via rail and stored in on-site silos. Exported via truck for use at the adjacent Weyerhaeuser mill.	Silos 2 and 3 (adjacent to Carbon Plant), Silo 1 after green pet-coke is removed (temporarily stored in Building 20 until Silo 1 is available)
Pitch	Stored in aboveground tanks from Reynolds operations. Operation is currently suspended but may resume for distribution to Alcoa.	Building 22 and pitch tanks
Anode Carbon	Imported anodes kept for carbon reclamation. Crushed by Chinook. Awaiting off-site disposition.	North Plant Potline Buildings 53 and 56
Cement Products	Handled during Chinook's tenure. Cementitious material owned by Lafarge has largely been removed[1]. Other material owned by Chinook awaiting off-site disposition.	North Plant Potline Buildings 51 and 52 (Lafarge)[1] North Plant Potline Buildings 53, 55, and 56 (Chinook)
Green Pet-Coke	Handled during Chinook's tenure. Awaiting off-site disposition by ConocoPhillips	Pet-coke flat storage area, Silo 1 (adjacent to Carbon Plant), and small bins inside Carbon Plant
Slag	Handled during Chinook's tenure. Awaiting off-site disposition.	North Plant Potline Building 56
Alkaline Ore (alumina)	Aluminum smelter decommissioning. Generated by Chinook. Awaiting off-site disposition.	North Plant Potline Buildings 55 and 56

Notes:
Chinook = Chinook Ventures, Inc.
ConocoPhillips = ConocoPhillips Commercial Petroleum Fuel Coke
Pet-coke = petroleum coke
Reynolds = Reynolds Metal Company
1 Small amount of cement and fly ash remains to be vacuumed from buildings.

4.2.1.1 Current Handling of Alumina

The import, handling, and export of alumina for use at this site and other aluminum plants in the Pacific Northwest began during Reynolds' operation of the site. Current site throughput of alumina is approximately 300,000 tons, annually.

Alumina arrives on site in marine vessels and is unloaded using a vacuum unloader. The unloader transfers alumina onto a purpose-built and dedicated conveyor that transports the material to the transfer tower. Alumina is then transferred into storage silos or transferred to the Central Unloading Area, where rail cars are filled with alumina under a covered structure. Alumina is shipped via railway to Alcoa's aluminum smelter in Wenatchee, Washington.

Structural and operational best management practices (BMPs) are in place to minimize the amount of spillage that occurs during on-site transfer of alumina and to clean up any spillage that has occurred during alumina handling. Structural BMPs include vacuum ship unloader, covered conveyors (both top and bottom), enclosed airslides, enclosed silos, and an enclosed building (Central Unloading Area) that can accommodate railway cars during the transfer of alumina from the silos to the railcars. Dust curtains are in place at the two railcar egress points near the alumina loading operation. Dust collectors are present at the transfer points in the material handling system and the collected product is returned to the alumina bins/silos. Drainage inlet structures near this area have been designed to capture product during an upset condition. BMPs and site operations are routinely evaluated to reduce spillage during material handling. Operational BMPs include pavement sweeping and manual cleanup of alumina spillage. Any stormwater that may have contact with alumina, is captured in the site's comingled wastewater collection system and is treated at Facility 73 prior to discharge through Outfall 002A (see Section 7).

4.2.1.2 Current Handling of Coal

Coal storage and handling for the adjacent Weyerhaeuser pulp and paper mill began during Chinook's tenure. Prior to that time, Reynolds handled and stored coal for use in its aluminum smelting operation. MBTL has continued to store and handle coal that Weyerhaeuser purchases for use in their facility. Site throughput of coal is approximately

120,000 tons, annually. Chinook stored coal outside with few controls or best management practices in place to manage stormwater runoff. MBTL took control of the site in January 2011. Since that time, MBTL has taken several measures to upgrade the stormwater management system and best management practices employed on site. MBTL currently stores approximately 10,000 tons of coal per month for Weyerhaeuser inside silos and buildings. The coal arrives in to the site by rail and proceeds directly inside a building containing a bottom dumper. The rail cars are dumped into a vault and the coal is then conveyed in a system of enclosed elevator buckets and conveyors to two silos. The transfer operation from railcar to storage silos is enclosed. Historical engineering records indicate that the conveyance system in which the coal is currently unloaded and transported into storage was purpose-built for calcined coke and coal on site in approximately 1968. Coal is currently stored in two above-ground silos near the Carbon Plant. A third silo, adjacent to the Carbon Plant, is planned for coal storage once the green pet-coke product is removed from the site (See Figure 2-2).

From the silos, the coal is further conveyed in an open- conveyor- system to the coal loading area where it is placed into dump trucks for transport off site to the Weyerhaeuser facility. These currently open conveyors are scheduled to be enclosed within the next 10 months. MBTL intends to commence engineering of the new system in October 2011, begin construction in the first quarter of 2012, and complete the project in second quarter of 2012.

Structural BMPs at the site include the building over the rail car unloading area, the enclosed conveyance system to the silos, storage in buildings or silos, and dust collectors at the transfer points. An upgrade to include enclosure of the open temporary conveyors that transport coal from the silos to trucks is planned to begin in October 2011. Operational BMPs include a dedicated sweeper in the coal loading area and sweeping the area during the coal loading activity to remove any incidental coal that falls from the conveyor system. Coal placed in trucks for off-site removal is sprayed with water for dust control.

Additionally, hay bales are placed around the entrance to the stormwater collection drain to prevent solid material from entering the stormwater drain. Stormwater that is generated from the loading operation enters the site's comingled wastewater collection system and is

treated through the Retention Basin and filter plant (Facility 73). The treated stormwater is then discharged through outfall 002A.

4.2.1.3 Current Storage of Green Pet-Coke

Approximately 100,000 metric tons (MTs) dry weight of green pet-coke is stockpiled on a containment pad at the site, as well as in one covered silo and bins inside the carbon plant (see Figure 2-2). The green pet-coke is owned by ConocoPhillips and was brought to the site for export by Chinook. Handling of green pet-coke at the site was terminated by Chinook following the receipt of Ecology's Administrative Order 7392 dated February 26, 2010, and the Cowlitz County Stop Work Order dated February 23. As discussed in Section 3, following MBTL's acquisition of site operations in January 2011, steps were taken to improve the containment berm to collect runoff from the green pet-coke stockpile. Runoff from the pile is isolated, collected, and stored in on-site tanks, where it is then either transported to an off-site disposal facility or used to control dust on the stockpile. Ecology has conducted recent site inspections and has verified this management of the green pet-coke and runoff water.

Structural BMPs in place for green pet-coke include the improved berm and runoff water reuse system. Operational BMPs include close inspection of the stockpiles and removing water from the berm to on-site storage tanks as needed during precipitation events. MBTL is in the process of coordinating the removal of the green pet-coke stockpiles from the site with ConocoPhillips. MBTL anticipates that the green pet coke will be removed by ConocoPhillips within the next 4 to 6 months.

MBTL does not plan to handle green pet-coke once the current stockpile and silo contents are removed from the site. MBTL plans to remove the green pet-coke containment pad after the material has been removed.

4.2.1.4 Current Storage of Cementitious and Other Materials

Cementitious materials, such as cement and fly ash, and other bulk materials, such as alumina and anode carbon, are stored in the North Plant Potline Buildings. The majority of the cementitious material owned by Lafarge has been removed, while other material remains

following Chinook's departure from the site. Because these materials are stored under structural cover without exposure to precipitation, operational BMPs are not currently needed.

MBTL is working with Cowlitz County and state agencies to facilitate the removal of these materials. MBTL will implement appropriate operational BMPs associated with loading and off-site disposition of these materials.

4.2.2 Current Site Decommissioning and Remediation

Site decommissioning is ongoing as MBTL transitions the site from a former aluminum smelter to a bulk materials handling facility. Decommissioning activities include, but are not limited to, removal of smelter air emission control equipment, cleaning of stormwater and process water collection lines, sediment removal from the Retention Basin, and demolition activities. During its tenure on site, Chinook handled a number of materials, including but not limited to green pet-coke, slag, fly ash, and cementitious materials, as well as scrap equipment. MBTL plans, in coordination with the appropriate agencies, to continue to remove these stockpiled materials and remaining equipment accumulated during Chinook's tenure.

In June 2007, under the Model Toxics Control Act (MTCA), Ecology issued an Agreed Order (DE4263) requiring the completion of an RI/FS at the site. At that time, signatories to the Agreed Order included the landowner, NWA, and operator, Chinook. RI activities focused on characterizing potential soil and groundwater impacts from historical aluminum smelting operations. Site chemicals of interest included fluoride, cyanide, sulfate, TPH, and PAHs. RI/FS data collection and reporting activities were completed during 2007, consistent with the Ecology-approved work plan. The RI/FS reports were submitted to Ecology in 2007.

During 2011, Ecology requested that supplemental investigations be performed prior to finalizing the RI/FS reports for the site. Supplemental study activities include investigation of potential impacts to shallow soil and groundwater from Chinook's tenure, including, but not limited to, thin stillage applications and green pet-coke storage.

Other remediation activities include ongoing groundwater monitoring in the vicinity of the Closed Black Mud Pond and former cryolite recovery plant.

4.2.3 Current Site Improvements

Current site improvement activities support further transitioning of the former aluminum smelter facility into a bulk materials handling facility and restoring the site to a more useable condition. Activities include repair and improvements to existing facilities and planning for the demolition or re-purposing of existing facilities. Site improvements primarily involve construction or demolition activities, which are being coordinated with Cowlitz County and state regulatory agencies.

4.2.3.1 Connection to City Potable Water System

MBTL is in the process of constructing an on-site potable water system with a connection to the city of Longview's water main along Industrial Way. The new system will eliminate the need for use of on-site well water for potable water. On-site water wells will continue to be used to supply water for fire protection and in support of industrial processes. Chinook entered into an agreement with the Department of Health to complete this work in 2011, and MBTL is completing the project.

4.2.3.2 Upgrade to Outfall 002A Flow Meter

MBTL is in the process of upgrading flow metering of discharges through Outfall 002A. The proposed upgrades include installation of a low flow meter loop at the upstream end of the outfall that will provide a more accurate measurement of flows currently discharged. The existing flow meter, which consists of an Annubar flow monitoring sensor, was designed for measurement of flow rates ranging from approximately 4,000 to 14,000 gallons per minute (gpm). Because the MBTL facility no longer processes large volumes of industrial wastewater, overall discharges through Outfall 002A have decreased. Typical flow rates through the outfall are currently less than 2,000 gpm. Upgrades will include installation of piping, valves, and an additional flow meter that will more accurately measure flows under 4,000 gpm. The combination of the new low flow meter loop, along with continued use of the existing Annubar system, will allow for accurate measurement of a full range of flows.

The upgrade was approved by Ecology on September 14, 2011, and implementation of the proposed design with Ecology comments incorporated will proceed as this report is finalized.

4.2.3.3 Upgrade to Outfall 001 Flow Meter

MBTL monitors flow rates through the Sanitary Sewage Treatment Plant using a V-notch weir with a level measurement device located in a stilling well adjacent to the weir. The weir is located downstream of the chlorination equipment prior to the effluent pumps that deliver treated wastewater to Outfall 001. The existing level measurement device consists of a float that measures water level and a dial that converts the water level to a flow rate based on the characteristics of the weir and calibration with a staff gage that is located adjacent to the weir. MBTL is planning to replace the existing level measurement device at the effluent weir with an ISCO 4210 ultrasonic flow meter to improve accuracy. The proposed flow meter consists of a non-contact ultrasonic sensor that will be mounted in the existing stilling well above the flow stream. The sensor will measure the water level in the existing stilling well and will calculate the flow rate based on the characteristics of the V-notch weir.

4.2.3.4 Connection of Outfall 006 through Outfall 002A

MBTL plans to route stormwater from Outfall 006 to Outfall 002A. This rerouting will be accomplished by terminating Outfall 006 at an underground vault and pump station. Stormwater will be pumped through an underground high density polyethylene (HDPE) line to the u-ditch southeast of the Closed Black Mud Pond and conveyed to Facility 73 (retention basin and filter plant) for treatment prior to discharge at Outfall 002A.

5 PROPOSED OPERATIONS, ACTIVITIES, AND SITE IMPROVEMENTS

5.1 Future Proposed Coal Exports

MBTL contemplates seeking approvals for the future construction of a new dock(s) in the berthing areas adjacent to the existing facility dock in order to facilitate the transshipment of bulk commodities, including coal exports. No coal exports will occur on the existing dock. MBTL will submit an NPDES permit modification application to Ecology before using the site for the marine import or export of coal over new docks.

5.2 Proposed Operations

Proposed operations include continued handling of bulk materials, ongoing site cleanup and remediation, and site improvements. Other proposed operations may develop as portions of the site may be focused for businesses. Those operations would be proposed separately at later points in time as they become known.

5.2.1 Proposed Bulk Materials Handling

MBTL plans to continue handling alumina and other materials required by Alcoa for its aluminum smelting operations, such as calcined coke and pitch and further plans to continue to store, handle, and transport Weyerhaeuser coal. Possible future bulk products could also include cementitious materials and sodium hydroxide.

While MBTL is considering handling bulk materials other than those described in Table 5-1, these other materials are not included in the scope of this report and will be evaluated at a later date.

Table 5-6
Proposed On-Site Material Handling

Material	Maximum Proposed Throughput	Notes
Alumina	600,000 MT	Receive by vessel and transported by rail or truck to facilities as directed by Alcoa
Weyerhaeuser Coal	140,000 T	Receive by rail and transported by truck to Weyerhaeuser's Longview facility
Pitch	150,000 T	Receive by vessel, rail, or truck and transported by rail or truck to facilities as directed by Alcoa
Calcined Coke	600,000 T	Receive by vessel and transported by rail or truck to facilities as directed by Alcoa
Sodium Hydroxide	TBD	TBD
Cementitious Materials	TBD	TBD

Notes:
MT = metric tons
T = tons
TBD = to be determined

5.2.1.1 Planned Alumina Handling

Alumina will continue to be handled on site. The site has adequate equipment to handle the proposed annual throughput of alumina listed in Table 5-1. Improvements to alumina handling processes are discussed in the following subsections. Proposed industrial activities related to alumina handling may include the following:

- Repair and ongoing maintenance of alumina handling equipment
- Replacement or upgrading of alumina handling equipment
- Construction of additional alumina handling equipment
- Maintenance of BMPs associated with alumina handling

5.2.1.2 Planned Weyerhaeuser Coal Handling

MBTL plans to maintain its contract to provide coal to the adjacent Weyerhaeuser facility. As previously described, coal is planned for continued covered storage. Structural BMPs will

be implemented to minimize the amount of spillage during handling of coal during loading into trucks. This improvement will consist of replacing the Reynolds' Metals purpose-built coal conveyors with engineered, purpose built, state-of-the art loading equipment at the silos. Operational BMPs may include placement and frequent monitoring of filter fabric in the storm drain near the loading area and the on-site haul route.

5.2.1.3 Proposed Handling of Cementitious Materials

Cementitious materials were handled on site before MBTL began operating it. Cementitious materials proposed for on-site handling may include:

- Cement
- Fly ash
- Slag
- Sand and gravel

Current plans for cementitious materials handling consist of a multi-modal system with the use of marine, railway, and truck transport of materials to and from the site. Cementitious materials will be stored under cover where the materials can be managed to reduce loss of product and protect the environment.

Structural and operational BMPs will be implemented to minimize the amount of spillage during handling of cementitious materials. Structural BMPs may include purpose-built enclosed conveyance systems, enclosed storage, and air pollution controls at transfer points. Operational BMPs will be developed after the completion of the project design.

5.2.1.4 Planned Pitch Handling

Pitch was handled on site during Reynolds' operations. Pitch would be brought into the site by vessel or rail. The pitch may be shipped such that it will need to be heated to flow and then pumped to storage. The pitch may be shipped in solid form in supersacks. The supersacks would be stored on site. Solid pitch would be melted and then stored in the pitch tanks. Liquid pitch would be loaded into rail cars and shipped off site to destinations determined by Alcoa. A heat transfer media (HTM) would be used to maintain the elevated temperature of the pitch while it is handled and stored.

Structural and operational BMPs will be included in the design of the systems.

5.2.1.5 Planned Calcined Coke Handling

Calcined coke was handled on site during Reynolds' operations. Calcined coke would be received by rail and vessel. The coke would be transported into the facility in a covered or enclosed conveyance system and stored under cover. The coke would be taken from storage and loaded into rail cars or trucks for shipment to destinations determined by Alcoa.

Structural and operational BMPs will be included in the design of the systems.

5.2.1.6 Proposed Sodium Hydroxide Handling

Sodium hydroxide will arrive by vessel and be offloaded into conveyance systems designed for sodium hydroxide. It will be stored in a purpose built tank located on site. Sodium hydroxide will be pumped from the tank into rail cars or trucks for distribution off-site.

Structural and operational BMPs will be developed as part of the system design.

5.2.2 Construction Activities to Support Bulk Products Improvements

MBTL will undertake construction activities related to site improvements for the introduction of bulk products. Construction would not be in support of marine-related coal export activities as discussed in Section 5.1.

5.2.3 Continued Site Decommissioning and Remediation

Projects for site decommissioning and remediation are in various stages of investigation and evaluation.

5.2.3.1 Proposed Decommissioning and Demolition Activities

Proposed decommissioning activities include removal of sediments in the Retention Basin, removal of the Chinook products stored in buildings, and removal of obsolete facility air emission control equipment.

Chinook's conveyors are planned for demolition. This includes the green pet-coke, alumina, and cement conveyors and associated silos or equipment.

Demolition is planned for many buildings and structures on the eastern side of the property.

The flat storage area currently used to store green pet-coke will be demolished once green pet-coke is removed from the site in the next 3 to 4 months. Demolition activities should be considered in the issuance of the renewed permit, given the constituents present at the site due to past operations.

5.2.3.2 Planned Remediation Activities

The 2007 FS outlines various remedial action alternatives that could be selected by Ecology to address potential impacts to human health and the environment. MBTL and NWA are working cooperatively to complete supplemental RI activities; the results of the RI will be used to refine the previous FS report. Potential remedial actions identified in the FS report and required by Ecology Cleanup Action Plan would address the chemicals of interest associated with the remedial actions, including fluoride, cyanide, sulfate, TPH, and PAHs. Earthmoving activities associated with these potential remedial actions would be completed using BMPs, such as silt fencing and hay bales, to isolate work areas and prevent erosion of excavated or stockpiled materials into adjacent surface water.

6 EFFLUENT WATER QUALITY

Since 1990, when the current permit was originally issued, site operations have transitioned from a primary aluminum smelter to a multi-modal port facility (see Section 3), and facility ownership has changed multiple times. Given the changes in site use, the current permit limitations may change in the next permit cycle.

The following information was reviewed to develop an understanding of factors likely to be considered in the development of the new permit:

- Water quality data generated by effluent monitoring at the site throughout the past 5 years
- Characteristics of the receiving waters per Washington State's 2008 Water Quality Assessment
- Protected drinking water source areas
- Washington Administrative Code (WAC) surface water criteria

6.1 Receiving Waters

The facility is located in the southeastern corner of the Grays/Elochoman Water Resource Inventory Area (WRIA) 25. Outfall 002A discharges directly to the Columbia River. Outfalls 003, 005, and 006 discharge to CDID ditches, also known as "Longview Ditches," which ultimately flow to the Columbia River. Discharges from the facility occur at river mile (RM) 63, approximately 4.5 miles downstream of the confluence of the Cowlitz and Columbia Rivers, as shown in Figure 2.1. Receiving water designated uses include aquatic life (spawning and rearing), water supply (domestic, industrial, agricultural and stock watering), recreational (primary contact recreational), and miscellaneous (wildlife habitat, fish harvesting, commerce/navigation, boating and aesthetic value; WAC 173-201A-602).

The facility discharges to CDID Ditch No. 14 and 10. Portions of the CDID, known as Ditch Nos. 3 and 5 located upstream of the facility's outfalls, are included on the Washington State's 2008 Water Quality 303(d) Category 5 list for dissolved oxygen and fecal coliform. A total maximum daily load (TMDL) has not been established for these pollutants in the ditches. Ditch No. 10 is identified in the Water Quality Assessment as Category 2 for fecal coliform, indicating that there is some evidence of a water quality concern but not enough to

warrant a TMDL. The segments at which the facility's discharge occurs are not included on the 303d list. The closest Columbia River 303d listing to the site is for fecal coliform at RM 66 near the Lewis and Clark Bridge. A portion of the Columbia River near RM 62 (downstream of the facility's discharge) was classified as Category 2 for temperature.

6.2 Drinking Water Source Areas

Groundwater in the vicinity of the site is characterized by two distinct systems – an unconfined shallow system and a semi-confined deep sand and gravel aquifer (K/J 2010). Shallow groundwater exists at less than 5 feet below ground surface (bgs). Flow in the shallow groundwater system is complex due to competing influences of the CDID drainage network and pump stations and the tidally-influenced Columbia River (Sweet Edwards, 1984). The deep groundwater aquifer is located at an approximate depth of 200 feet bgs, with sand coarsening to gravel to a depth of 400 feet bgs (Reynolds Production Well Logs 1967)). While there is expected to be some stormwater infiltration in areas where ponding occurs, there are no underground injection facilities. Outfalls discharge to surface water.

The deep aquifer is a source of drinking water in the area. There are nine water wells at the facility. The approximate location of water wells (domestic and industrial) within 0.25 miles of the site are shown on Figure 2-1. The facility is currently in the process of connecting to the City of Longview's municipal water system and will rely on the municipal system for drinking water (see Section 4.2.3.1). On-site well water is primarily used for fire protection and process water, as shown in Figure 4-1.

Ecology requires cities and counties to develop and implement Critical Aquifer Recharge Area (CARA) ordinances. CARAs are defined as areas with a critical recharging effect on aquifers used for potable water. Certain new activities and construction within CARAs may be restricted or require a professional assessment of potential impacts to the aquifer. Cowlitz County's CARA ordinance (County Code Chapter 19.15.160, adopted April 7, 2009) designates areas as having slight, moderate, or severe aquifer sensitivity based on the characteristics of the surficial soils documented in the Natural Resources Conservation Service (NRCS) Soil Survey for Cowlitz County, Washington. For example soils containing higher clay content, encouraging runoff and slow water infiltration, would be characterized

as slightly sensitive or low risk. The majority of the soil types within the site boundary are classified as having slight to moderate aquifer sensitivity. There is one soil type flanking the Columbia River, which is classified as having severe aquifer sensitivity, meaning highly permeable soils, providing rapid recharge.

On February 11, 2011, the City of Longview awarded a contract to begin construction of a new municipal groundwater supply drawing from the deep aquifer. This municipal facility will include a groundwater treatment plant and transmission main at the Mint Farm Industrial Park north of the site across Industrial Way. The City of Longview is required by the Washington Department of Health Office of Drinking Water to develop and implement a Wellhead Protection Program (WHPP). Plan components include delineation of time-of-travel zones around the supply wells. Portions of the facility are located within the one- and 5-year time of travel zones. Preliminary hydrogeologic investigations conducted for the City of Longview indicate that shallow, unconfined groundwater does not significantly contribute to the deeper aquifer as it is primarily recharged by deeper aquifers below the Columbia River (Council 2011; Kennedy/Jenks 2010).

6.3 Exceedances of Existing Permit Limitations (January 1, 2006 to June 30, 2011) During Chinook's Tenure

Data generated from permit-required monitoring between 2006 and 2011 at Outfalls 001, 002A, and 003 were compiled and reviewed for this report. Samples collected after January 12, 2011, were collected by MBTL. Samples collected prior to this date were collected by the previous operator, Chinook. Additional sampling at Outfalls 001, 002A, 003, 005, and 006 was conducted by MBTL in June 2011, in anticipation of the NPDES permit application process. Compiled data and trend graphs for each parameter are included in Appendix A.

Table 6-1 presents the parameters the facility was required to monitor at each outfall and indicates the number of exceedances. Since 2006, there have been exceedances of aluminum, fluoride, oil and grease, and TSS at Outfall 002A, and pH, biochemical oxygen demand (BOD_5), residual chlorine, and fecal coliform at Outfall 001. One exceedance of free cyanide occurred at Outfall 003.

Table 6-1
Summary of NPDES Permit Parameters and Exceedances Between January 1, 2006 and June 30, 2011

Outfall	Aluminum	Antimony	Cyanide, Free	Cyanide, Total	Fluoride	Nickel	Oil and Grease	pH	Temperature	TSS	Salmonid Toxicity	BOD_5	Residual Chlorine	Fecal Coliform	B(a)P
001								1		0		4	4	3	
002A	2	0		0	2	0	4	0	0	3	0				
002B				0	0										0
003			1		0		0	0							

Notes:
B(a)P = benzoapyrene
BOD_5 = biochemical oxygen demand
TSS = total suspended solids

Exceedances in Table 6-1 occurred during Chinook's tenure. Exceedances are summarized in chronological order as follows:

- On February 1, 2006 the fluoride concentration at Outfall 002A was 1,114.44 pounds per day (lbs/day). The maximum daily permit limitation is 1,075 lbs/day. In February, the monthly averages for fluoride and aluminum were 617.5 lbs/day and 52.1 lbs/day, respectively. These results exceeded the permit monthly average limit of 475 lbs/day for fluoride and 52 lbs/day for aluminum. Per a letter to Ecology dated October 31, Chinook investigated and determined that the exceedance was primarily due to false reading from the Outfall 002A flow meter, and the measured flow of 7.8 million gallons per day was in error. Chinook performed site improvements and housekeeping in response to the exceedance, including repair of the sensor and recalibration of the flow meter. Chinook also increased the sampling frequency of aluminum, fluoride, and TSS to biweekly.
- In April 2006, the monthly average oil and grease concentration at Outfall 002A was 233.23 lbs/day, which was an exceedance of the monthly average limitation of 175

lbs/day. The four oil and grease results for this month were all non-detect (i.e. below the method reporting limit [MRL]). When a result was reported as a non-detect, the MRL and measured flow were used to calculate the loading.

- On August 8, 2006, the pH reading at Outfall 001 was 8.90 standard units (SU), which is outside the permitted range of 6.5 to 8.5.
- On October 31, 2006, the concentration of residual chlorine at Outfall 001 was 1.08 milligrams per liter (mg/L). This result is greater than the permitted range of 0.1 to 1.0 mg/L.
- On August 19, 2008, the sample result for BOD_5 at Outfall 001 was 70.3 mg/L. This result exceeded the 30-day average permit limit of 25 mg/L and the 7-day average limit of 45 mg/L. In a letter dated September 12, 2008, Chinook stated that subsequent samples were within permit limits, and it was continuing to investigate the cause of the exceedance.
- On December 23, 2008, the weekly grab sample for oil and grease at Outfall 002A was 18,716.2 lbs/day, which exceeded the permit daily maximum limit of 425.0 lbs/day. The monthly average limit of 175.0 lbs/day was also exceeded due to this high result. The exceedances were reported in the DMR by Chinook with a note indicating that they were "suspect," as other oil and grease results for the month were non-detect. In a letter dated January 14, 2009, Chinook indicated that it could not explain the exceedance, and no corrective actions were planned because subsequent concentrations were within permit limits.
- On April 2, 2009, the residual chlorine concentration was 1.10 mg/L at Outfall 001. This result is above the permitted range of 0.1 to 1.0 mg/L.
- On June 9 and 29, 2009, TSS concentrations at Outfall 002A were 2,500.2 lbs/day and 4,422.2 lbs/day, respectively. These results exceed the permit daily maximum limit of 2,030.0 lbs/day. The TSS average for this month was 1,053.2 lbs/day, which exceeded the permit monthly average limit of 925.0 lbs/day.
- In May 2009, the free cyanide concentration was 19 micrograms per liter (μg/L) at Outfall 003, which was an exceedance of the permit limitation of 5.2 μg/L.
- On December 18, 2009, fecal coliform was 1,600 colonies per 100 milliliter (mL) at Outfall 001. This result exceeded both the 7-day average and 30-day average permit limits of 400 colonies per 100 mL and 200 colonies per 100 mL. The sample result for BOD_5 was 46 mg/L. This result exceeded the 30-day average permit limit of 25 mg/L

and the 7-day average limit of 45 mg/L. The 30-day average loading rate for BOD_5 was 58 lbs/day, which exceeded the permit limit of 31 lbs/day. The residual chlorine concentration was less than the lower permit limit of 0.1 mg/L.

- On December 24, 2009, the residual chlorine concentration at Outfall 001 was less than the lower permit limit of 0.1 mg/L.
- In July 2010, the monthly average for oil and grease was 203.1 lbs/day at Outfall 002A, which exceeded the permit monthly average limit of 175 lbs/day. The oil and grease results for this month were all non-detect (i.e., below the MRL). When a result was reported as a non-detect, the MRL and measured flow were used to calculate the loading.
- On August 4, 2010, fecal coliform at Outfall 001 was 500/100 mL. The result exceeded the 7-day average permit limit of 400/100 mL.
- On October 19, 2010, the aluminum concentration at Outfall 002A was 147.4 lbs/day, which exceeded the permit daily maximum limit of 116.0 lbs/day. This exceedance was reported by Chinook in the October DMR. The exceedance was a result of additional loading to the treatment system when materials removed during conveyance system cleaning were placed in the Retention Basin and adequate retention was not achieved prior to discharge.

6.4 Current Site Activities

Industrial activity at the site has sharply decreased since 1990. Current site activities are not expected to result in the discharge of pollutants that were not anticipated by the current NPDES permit. Current site operations and BMPs are discussed in Section 4 of this report. Pollutants associated with these activities are summarized in Table 6-2. Existing stormwater, process wastewater, domestic wastewater flows, and infrastructure are addressed in Sections 7, 8, and 9 of this report. Since assuming responsibility for the facility and the permit in January 2011, MBTL has been assessing and significantly upgrading the facility's infrastructure. MBTL has been working closely with Ecology and other regulatory agencies during this process and has informed Ecology of these stormwater and wastewater treatment and related upgrades. Modifications and improvements to the existing treatment and conveyance systems under construction or consideration are discussed in Sections 7, 8, and 9 of this report.

Table 6-2
Potential pollutants generated by current activities

Outfall	Potential pollutant(s)	Activities[1]	Treatment[2]
001	BOD_5 TSS Residual chlorine Fecal coliform pH	Sanitary waste, groundwater infiltration	Domestic WWTP
002A	Aluminum PAHs (including B(a)P) Cyanide Fluoride Oil and Grease Sulfate TSS Metals[3]	Remediation activities (i.e., monitoring well purge water etc.) and leachate from the Closed Black Mud Pond, stormwater from the central portions of the facility, process water from maintenance activities and operations, and groundwater infiltration	Facility 71/Facility 73
003	Oil and grease TSS Metals[3]	Maintenance activities, production well water, central unloading, stormwater from switch yard and parking areas, groundwater infiltration	Vegetated ditches
005	Oil and grease TSS Metals[3]	Stormwater from closed Cable Plant and nearby vegetated areas, groundwater infiltration	Vegetated ditches
006	None	Stormwater from Closed Black Mud Pond cover	Infiltration through media in upper layers of Closed Black Mud Pond cover

Notes:
B(a)P = benzo(a)pyrene
BOD_5 = biochemical oxygen demand
Facility 71 = Industrial Wastewater Treatment Plant
Facility 73 = Retention Basin and Filter Plant
PAH = polycyclic aromatic hydrocarbons
TSS = total suspended solids
WWTP = wastewater treatment plant
1 Operations are discussed in Sections 4 and 5 of this report.
2 Treatment facilities are discussed in Sections 7, 8 and 9 of this report.
3 Metals typically associated with industrial stormwater, including copper, zinc, and lead

6.5 NPDES Application (Forms 2F and 2C)

On August 31, 2011, MBTL submitted an NPDES permit renewal application. The four outfalls that discharge stormwater-002A, 003, 005, and 006-were listed on Form 2F of the application. Outfall 002A and 003 are comingled stormwater and wastewater outfalls. Effluent from the on-site domestic WWTP is discharged at Outfall 001. Outfalls 001, 002A, 002B, and 003 were listed on Form 2C. Outfalls that discharge wastewater and stormwater are included on both forms.

The average and maximum concentrations reported on Forms 2C and 2F were calculated from available data for each outfall collected between July 1, 2010 and June 30, 2011. For Outfalls 001, 002A, and 003, data included the results of the June 2011 sampling events and the compiled permit-required monitoring data (July 1, 2010 and June 30, 2011). Data for Outfalls 005 and 006 were from June 2011 only. A summary of analytical results was included with the permit application as Table 1 and is included in Appendix A of this report. Detected parameters (i.e. those for which the maximum value was greater than the MRL) reported in the NPDES application are summarized in Table 6-3.

Table 6-3
Detections July 1, 2010 to June 30, 2011

Parameter	Outfall				
	001	002A	003	005	006
General Parameters					
Oil and grease		X	X		
BOD_5	X			X	
COD	X	X		X	X
TSS	X	X		X	X
Total Organic Nitrogen	X	X	X	X	X
Total Phosphorous	X	X	X	X	X
Total Organic Carbon		X			
pH	X	X	X	X	X
Ammonia (as N)	X				
Parameters Included on Existing NPDES Permit WA 000008-6					
Chlorine Residual	X	X	X		
Fecal Coliform	X	X		X	
Fluoride	X	X	X	X	
Aluminum	X	X	X	X	X
Antimony		X		X	

Parameter	Outfall				
	001	002A	003	005	006
Nickel	X	X	X	X	X
CN Total	X	X		X	
CN WAD		X		X	
Nitrate – Nitrite (as N)	X				
B(a)P	X				
Other Parameters					
Arsenic	X	X	X	X	X
Barium	X	X	X	X	X
Beryllium	X				
Boron	X	X	X	X	
Chromium	X	X	X	X	X
Cobalt	X			X	X
Copper	X	X	X	X	X
Iron	X	X	X	X	X
Lead	X	X	X	X	
Magnesium	X	X	X	X	X
Manganese	X	X	X		X
Molybdenum	X	X	X	X	X
Titanium			X	X	X
Zinc	X	X	X	X	X
Sulfate	X	X			X
Color	X	X	X	X	
Methylene chloride		X			
Chloroform		X	X		
Bis(2-ethylhexyl) phthalate			X	X	

Notes:
B(a)P = benzoapyrene
BOD_5 = biochemical oxygen demand
CN = cyanide
COD = chemical oxygen demand
TSS = total suspended solids
WAD = weak acid dissociable

Many of the detected parameters (including the metals and nutrients) exist in the environment at background concentrations. Bis(2-ethylhexyl) phthalate (DEHP), methylene chloride, chloroform, and chlorodibromomethane were detected. These parameters were not expected to be present at background concentrations in the environment or to be generated by site activities and are discussed below:

- DEHP was detected in effluent from Outfalls 003 and 005 at concentrations of 8.58 and 60.7 µg/L, respectively. The fact sheet for public notice from the 1992 Cable

Plant NPDES Permit WA 000039-6 (see Section 3) indicates that DEHP was present in Cable Plant effluent at a concentration of 10 µg/L but was not included in the permit because limitations had not been promulgated in 1992 and no water quality criteria existed. DEHP is primarily used as a plasticizer and is considered an emerging environmental contaminant.

- Chloroform was detected in effluent from Outfalls 001, 002A, and 003 at concentrations of 6.77, 1.11, and 1.37 µg/L, respectively. Chloroform is a disinfection byproduct, formed from residual chlorine reacting with organic matter contained in the water sample. It is commonly found in treated potable water due to this process and can be formed in environmental samples in the same fashion. Chlorodibromomethane was detected in the effluent from Outfall 001 at a concentration of 1.49 µg/L and is also believed to be a disinfection byproduct. Chlorodibromomethane and chloroform are not anticipated to be produced by industrial activities at the site.
- Methylene chloride was detected in effluent from Outfall 002A at a concentration of 9.04 µg/L. The laboratory reported in a case narrative that the method blank showed a positive detection of methylene chloride just below the laboratory reporting limit and concluded that the level of methylene chloride in the sample collected at 002A is likely due to laboratory background. The laboratory case narrative is provided in Appendix A.

6.6 Permit Limitations

In 1990, when the existing permit was written, the facility was an active smelter. The facility's existing NPDES permit effluent limitations were developed using industry-specific guidelines for Nonferrous Metals Manufacturing (40 Code of Federal Regulations [CFR] Part 421). Limits were calculated in lbs/day, based on the highest continuous 12-month production average. With the cessation of aluminum production, the Part 421 effluent guidelines no longer apply.

Maximum discharge values from Forms 2C and 2F were compared to surface water criteria, as shown in Table 6-4.

Table 6-4
Maximum Effluent Concentrations and Water Quality Criteria

Parameter	Outfall (maximum values reported on NPDES application Forms 2C and 2F)					Water Quality Criteria (WAC 173-201A)[4,5,6]	
	001	002A	003	005	006	Acute	Chronic
General Parameters							
pH (SU)	7.82	8.45	7.70	7.24	6.41	6.5-8.5 SU[3]	
Ammonia (as N) (mg/L)	0.145	0.164	0.551	0.790[7]	0.583[7]	0.089	0.014
Parameters included on existing NPDES permit WA 000008-6							
Chlorine residual (mg/L)	1.0	0.05	0.35			0.019	0.011
Fecal coliform (MPN/100mL)	500	20		25.0		200 colonies per 100 mL[1]	
Nickel	1.12	24.1	1.83	8.07	12.4	1415.4	157.2
CN WAD		4.10		2.80		22.0	5.2
Other Parameters							
Arsenic	4.62	5.53	5.10	10	10.90	360.0	190.0
Chromium (Hex)[2]	0.212 (total	0.184 (total)	0.191 (total)	1.56 (total)	0.728 (total)	15.0	10.0
Chromium (Tri)[2]						548.7	178.0
Copper	3.300	2.610	5.02	3.26	4.74	17.0	11.4
Lead	0.731	0.146	0.156	0.468		64.6	2.5
Zinc	12.4	6.16	62.2	11.4	10.0	114.4	104.5

Notes:
Units are µg/L unless otherwise noted
µg/L = micrograms per liter
CN = cyanide
EPA = Environmental Protection Agency
mg/L = milligrams per liter
mL = milliliter
MPN = most probable number
SU = standard unit
WAC = Washington Administrative Code
WAD = weak acid dissociable
1 Fecal coliform organism levels must not exceed a geometric mean value of 100 colonies per 100 mL, with not more than 10 percent of all samples (or any single sample when less than ten sample points exist) obtained for calculating the geometric mean value exceeding 200 colonies per 100 mL

2 There are different standards for hexavalent and trivalent chromium. Analytical results are for total chromium.
3 WAC 173-201A-200(1)(g)
4 Hardness dependent criteria were calculated using a hardness value of 100 mg/L.
5 pH dependent criteria were calculated using a pH value of 7.35 SU.
6 Temperature dependent criteria were calculated using a temperature of 13.3 °C.
7 Ammonia concentrations at Outfalls 005 and 006 were not required on Form 2C or Form 2F but were included in Table 1 of the application.

The maximum concentration for arsenic, chromium, copper, lead, and zinc are less than both the acute and chronic water quality criteria for all five outfalls. The maximum residual chlorine, pH, fecal coliform, and ammonia exceeded water criteria at some outfalls. With the exception of fecal coliform at Outfall 001, these values did not exceed the existing permit limits. As maximum discharge values may not be representative of typical effluent concentrations and do not take into consideration any available instream dilution, the historical data for these parameters was reviewed and is summarized below:

- The maximum chlorine residual concentrations at Outfalls 001, 002A, and 003 exceed both the acute criteria (0.019 µg/L) and the chronic criteria(0.011 µg/L) for chlorine residual. Residual chlorine is not a required monitoring parameter at Outfalls 002A and 003. The permitted effluent range for residual chlorine at Outfall 001 is 0.1 mg/L to 1.0 mg/L. The results at Outfall 001 and 003 are within this range. The residual chlorine concentration at Outfall 002A was 0.05 mg/L.
- Fecal coliform was detected at Outfalls 001, 002A, and 005 but only Outfall 001 exceeded the water quality criteria of 200 colonies per100 mL. Outfall 001 samples are analyzed for fecal coliform every other month. Except for the two exceedances discussed in Section 6.5, fecal coliform results at Outfall 001 over the past 5 years have been at 23 most probable number (MPN) per 100 mL or below.
- The results for pH are within the surface water criteria range of 6.5 to 8.5 SU for all outfalls except Outfall 006. The June 2011 sample at Outfall 006 had a pH of 6.41, which is below the water quality range. The facility is planning to route the discharge from this outfall to Facility 77 (see Section 4.2.3.4).
- The maximum ammonia concentrations were at Outfalls 001, 002A, 003, 005, and 006 exceeded both the acute criteria (0.089 µg/L) and the chronic criteria (0.014 µg/L) for ammonia. There is no permit limit for ammonia, and it is not an expected pollutant from site activities or operations.

Trend graphs showing measured concentrations of parameters monitored under the existing permit between 2006 and 2011 are included in Appendix A. The trend graphs for the majority of the parameters are linear or close to linear except for a few parameters at Outfalls 001 and 003. TSS concentrations at Outfall 001 have gradually increased throughout the past 5 years but decreased in early 2011. The upward trend for fecal coliform, also at Outfall 001, appears to be primarily due to two larger results in 2010 (discussed in Section 6.5). The pH at Outfall 003 also has an upward trend, although values generally remain in the 6.8 to 8.0 SU range.

6.7 Summary

Assessment of current on-site activities and the results of recent sampling data indicate that effluent from the facility contains pollutants associated with industrial stormwater (including oil and grease, TSS, and certain metals), domestic wastewater treatment effluent (including BOD_5, residual chlorine, and fecal coliform), and legacy pollutants present in the Closed Black Mud Pond leachate and in leachate and runoff from other areas associated with the former aluminum plant (including aluminum, PAHs, cyanide, fluoride, sulfate). Recent sampling results indicate that arsenic, chromium, copper, lead, and zinc effluent concentrations are below both the acute and chronic water quality criteria for all five outfalls. Residual chlorine, pH, fecal coliform, and ammonia exceeded water criteria at some outfalls. With the exception of fecal coliform at Outfall 001, which discharges to the Columbia River, these values did not exceed the existing permit limits. The CDID ditches are 303-d listed for fecal coliform and dissolved oxygen upstream of the discharge points, but they do not have a TMDL. Drinking water supplies exist in a deep aquifer, recharged from deep areas under the Columbia River. Hydrogeologic studies conducted for the City of Longview concluded that surface water and shallow, unconfined groundwater do not provide significant recharge to the deep aquifer. The facility may modify existing stormwater and wastewater conveyance and treatment systems. The system design is discussed in the following sections.

7 STORMWATER ASSESSMENT

7.1 Existing Stormwater System

With the removal of the aluminum smelter facility and processes stormwater, runoff comprises the majority of discharges managed on the site. The current commingled stormwater treatment system is described in the following subsections. On-site process wastewater[9] commingles with this system, and these streams are discussed in Section 8.

Figure 7-1 illustrates the location of key elements of the stormwater system, including the Retention Basin and Filter Plant (Facility 73), the Facility 77 Sump/Pump Station, and the outfalls that convey stormwater discharges (Outfalls 002A, 003, 005, and 006). Figure 7-2 illustrates the flow path connectivity of stormwater conveyance facilities (including process flow connections), treatment facilities, and discharge outfalls for each of the site's stormwater systems.

7.1.1 Stormwater Collection and Conveyance

The existing site stormwater system includes a network of collection and conveyance catch basins, sumps, vaults, storm drains combined with open-channel ditches, pump stations, and force mains. Key collection system hydraulic structures and conveyance facilities are described in greater detail within this subsection.

7.1.2 Facility 77 Sump/Pump Station

Facility 77 consists of a central drainage collection hydraulic structure with a pump station. The facility includes an underground-divided (i.e., two-sided) sump with dedicated pumps: one designed for stormwater collection and the other designed for former process wastewater collection.

The stormwater sump and pumps were originally designed and operated to discharge non-contact cooling water and stormwater directly through Outfall 002A. These collected waters

[9] Throughout this document, the term "process wastewater" is used for convenience to refer to wastewater that is neither stormwater nor sanitary wastewater. The term includes non-contact cooling water and other wastewaters that are not "process wastewater" under Clean Water Act regulations.

were later routed to Retention Basin and Filter Plant (Facility 73), following completion of those facilities. Currently, this sump collects stormwater, process wastewater, and treated process wastewater; treated process wastewater includes effluent from Facility 71, which is discharged through Outfall 002B into the sump at Facility 77.

The former process wastewater sump and pumps conveyed contact-cooling process wastewater into the three thickener tanks for treatment through Facility 71. This part of the operation ceased with aluminum smelting, and the process side of the sump and pumps are currently not used. The former thickener tanks are now used for other purposes, as discussed in Section 8.

7.1.2.1 Stormwater Sump/Pumps

The stormwater sump currently collects untreated stormwater runoff, untreated process wastewater, and treated process wastewater. Treated process wastewater is effluent from Facility 71, which is discharged through Outfall 002B. Untreated process wastewater includes water from various maintenance activities (steam cleaning, etc.), water system operations (water tower runoff, etc.), and operations at Central Unloading and the loading areas. The commingled water is pumped to the Retention Basin for treatment. Note that Facility 71 was damaged in a fire that occurred on June 6, 2011. A temporary replacement plant is planned, which will be followed by a replacement facility. Process wastewater that is normally treated in Facility 71 is currently stored in on-site tanks pending treatment by the replacement plant or by off-site treatment and disposal.

The stormwater sump consists of a concrete vault with dimensions of approximately 17 feet wide, 27.3 feet long, and 20.5 feet deep. The sump has a storage capacity of approximately 7,200 cubic feet below the top of the overflow weir to the stormwater ditch, which is approximately 15.5 feet above the bottom of the sump.

The associated pump station design included four identical pumps: three operational pumps and one as backup. The pump operations were designed with automatic controls based on water level and float switches.

7.1.3 Retention Basin and Filter Plant (Facility 73)

Facility 73 includes a Retention Basin and a Filter Plant. The Retention Basin provides treatment through the settling of solids (and attached particulate metals) and by mechanical skimmer removal of oil and grease components that rise to the surface. The Filter Plant provides filtration treatment by further removal of solids, associated metals, and oil and grease, as necessary, when treatment through the Retention Basin is insufficient. A pump station is located downstream of the Retention Basin and functions to discharge treated effluent from the Retention Basin directly through Outfall 002A or through the Filter Plant if additional treatment is needed. Facility 73 was designed and constructed to provide treatment for combined flow sources, including stormwater runoff, untreated process wastewater (see Section 8.1.2.1), and treated effluent from Facility 71. Facility 73 targets the removal of TSS, aluminum, and oil and grease to meet effluent limitations in accordance with the existing NPDES permit. These facilities were designed and constructed pursuant to Administrative Order DE 90-1057.

The facilities described below are discussed in greater detail in the *Operation and Maintenance Manual for the Reduction Plant Stormwater Treatment Facility* (K/J 1994).

7.1.3.1 Retention Basin

The basin has a capacity of approximately 2 million gallons at the discharge weir elevation and is designed to retain (prior to pumped discharge) approximately 397,000 gallons of sediment/sludge and approximately 1.6 million gallons of liquid. The design flow through the facility is 8.6 millions of gallons per day (MGD; 13.4 cubic feet per second [cfs]), which provides roughly 5.6 hours of retention time for settling of solids and associated particulate metals while also providing quiescent flow conditions to facilitate oil and grease removal through its rise within the water column to the surface of the basin. Oil and grease that accumulates on the Retention Basin water surface are intercepted, collected, and contained using a floating oil boom, oil skimmer, and a 500-gallon storage tank, respectively. The oil and grease removal system components are mounted on a mobile trailer that allows repositioning of the equipment to effectively remove oil and grease from all areas of the basin.

Two sources of influent enter the basin: the commingled flows from Facility 77 and recirculated backwash water from the Filter Plant. Both sources of influent are pumped into the head end of the basin through two header pipes. Influent pumped from Facility 77 to the Retention Basin is discharged through a header pipe that is 16 feet long, 12 inches in diameter, and has 47 equally spaced orifices along its length at the head of the basin; each orifice is 2 inches in diameter. The average exit velocity through the orifices is approximately 13 feet per second at the design flow rate. Three orifices, 0.25 inch in diameter, are located along the crown (top) of the header pipe to allow entrapped air to exit the header pipe.

Influent pumped from the Filter Plant (recirculated backwash water) to the head of the basin is discharged through a header pipe that is 18 feet long and 12 inches in diameter; the header pipe is otherwise constructed the same as the header for the influent from Facility 77.

7.1.3.2 Pump Station C

Pump Station C is located downstream of the Retention Basin and upstream of the Filter Plant. Treated effluent from the Retention Basin gravity flows into a sump adjacent to the pump station, and the effluent is pumped into the Filter Plant via force main piping for continuous monitoring of turbidity. Further treatment, in the form of pressure filtration, is automatically initiated based on the turbidity level of the effluent from the Retention Basin (turbidity is used as a surrogate for TSS with respect to water quality for discharge under the existing NPDES permit). Pump Station C conveys treated effluent from the Retention Basin and Filter Plant (when needed) directly through Outfall 002A.

Pump Station C is designed and equipped to operate up to two, 100-horsepower vertical, radial flow pumps to deliver a rated design flow of 8.6 MGD (13.4 cfs) under a total dynamic head of 56 feet. A third pump was included in the design and construction of the pump station. This pump is identical to the other two pumps and provides redundancy in the event of failure or operational problems with one of the two primary pumps.

The pumps are operated using an automatic variable-speed flow control; the station adjusts the pump flow rate based on the water level of the sump in relation to the sump's location.

The pump station operates at a flow rate necessary to maintain a water level within the sump between a programmed upper limit and lower limit set points.

7.1.3.3 Filter Plant

The Filter Plant is designed to provide on-demand, additional treatment for further removal of solids, associated particulate metals, and oil and grease from treated effluent from the Retention Basin. A system of continuous monitoring equipment and automatic control valves are located in the Filter Plant to direct pumped outflows from the Retention Basin based on measured discharge turbidity levels. The Filter Plant is capable of treating up to 8.6 MGD (13.4 cfs), which is equal to the Pump Station C and Retention Basin design flow rates.

The Filter Plant, schematically described below, contains three major elements:

1. Conveyance piping
   - Main pressure pipelines:
     - Force main pipeline entering facility from Pump Station C
     - Force main pipeline exiting facility to Outfall 002A
   - Pressure filtration pipeline loop (ties in to main pipeline at inflow and outflow locations)
   - Pressure filtration backwash pipeline (recirculates filter backwash water to Retention Basin for treatment)
2. Influent monitoring equipment and automated controls
   - Turbidity monitoring affecting operations:
     - Retention Basin effluent greater than 20 nephelometric turbidity units (NTUs) initiates inflow to filtration
     - Retention Basin effluent less than 20 NTUs is discharged directly to Outfall 002A
   - Control valve opens or closes main pipeline for filtration or direct discharge, respectively, based on turbidity measurements
   - Pump Station C operational set points:
     - Normal operational set points (not including filtration backwash)

  - Filtration backwash set points (higher water level in sump)
- Control valves open and close on pressure filtration pipeline loop for filtration backwash operation

3. Pressure (mixed media) filter system
   - Four identical closed filter units in parallel
   - Filter media (from bottom to top)
     - 10 inches of high-density ilmenite
       (specific gravity [SG] = 4.2 ± 0.2, effective size of 0.18 to 0.28 millimeter [mm])
     - 9 inches of silica sand
       (SG = 2.6 ± 0.05, effective size of 0.45 to 0.55 mm)
     - 18 inches of anthracite coal
       (SG = 1.55 to 1.75, effective size of 1 to 1.1 mm)

7.1.3.4 Filtration Operations and Direct Discharge

If the turbidity of the discharge from Pump Station C is less than 20 NTUs, the effluent is routed directly through Outfall 002A for site discharge.

If that measured turbidity is greater than 20 NTUs, filtration is initiated. Filtered (treated) effluent is monitored for turbidity and, if less than 20 NTUs, is conveyed from the Filter Plant through Outfall 002A.

7.1.4 Other Stormwater Best Management Practices

7.1.4.1 Vegetated Ditches on Outfall 003

The point of discharge for Outfall 003 is preceded by up to 2,500 linear feet of vegetated conveyance ditch. The vegetated ditch discharges into a culvert under Industrial Way before discharging into CDID Ditch No. 10. This vegetated ditch may provide some incidental treatment and infiltration (volume reduction) of tributary stormwater runoff prior to discharge into the CDID ditch.

7.1.4.2 Vegetated Ditch on Outfall 005

The point of discharge for Outfall 005 is preceded by approximately 1,000 linear feet of vegetated conveyance ditch. The vegetated ditch discharges through a culvert under a levee prior to discharging into CDID Ditch No. 10. This vegetated ditch may provide some incidental treatment and infiltration (volume reduction) of tributary stormwater runoff prior to discharge into the CDID ditch.

7.1.4.3 Vegetated Ditch on Outfall 006

The point of discharge for Outfall 006 is preceded by approximately 300 linear feet of vegetated conveyance ditch. The vegetated ditch discharges into a culvert below the access road that is west of the Closed Black Mud Pond; the culvert discharges runoff from the Closed Black Mud Pond into CDID Ditch No. 14. This vegetated ditch may provide some incidental treatment and infiltration (volume reduction) of tributary stormwater runoff prior to discharge into the CDID ditch.

7.2 Stormwater Analysis

Stormwater runoff within the site is handled in multiple ways. Runoff in some areas is allowed to pond and partially infiltrates or evaporates prior to discharge, while runoff from other site areas is collected in a system of ditches, pipes, and hydraulic structures (e.g., catch basins inlets, manholes, and vaults/sumps). On-site stormwater runoff is discharged off site through four outfalls (Outfalls 002A, 003, 005, and 006). Levees, CDID ditches, and roadways prevent overland flow of stormwater from adjacent properties onto the site, with the exception of runoff from a small area of Highway 432 which is discharged at Outfall 003. Treatment of stormwater runoff is achieved using techniques ranging from vegetated ditches to primary settling and pressure filtration.

An analysis of stormwater runoff volumes and flow rates has been conducted to establish a baseline of stormwater conditions under current site operations. The analysis consisted of the development of a site-wide hydrologic, continuous simulation model. Additional models have been prepared to simulate potential alternative improvements to better manage the on-site stormwater runoff volumes and flow rates. Baseline conditions are used in comparison

with the potential alternative improvements to provide a preliminary evaluation of benefits that may be achieved, in terms of both treatment and flow capacity.

The stormwater analysis is based on a delineation of runoff subbasins as shown on Figure 7-3. Stormwater runoff managed on site is generated from on-site sources only. On-site stormwater runoff is ultimately discharged, directly or indirectly, through four outfalls (Outfalls 002A, 003, 005, and 006) into the Columbia River.

As previously described, on-site stormwater runoff is commingled with process wastewater flows. Current process wastewater flows are minimal in comparison with stormwater runoff flows; hence, process wastewater flows are not included in the following stormwater runoff volume analysis.

7.2.1 Analysis Approach

The purpose of the stormwater analysis is to quantify runoff peak flows and volumes from each on-site drainage subbasin and determine if the combination of the Retention Basin and Filter Plant are adequate to meet Ecology's hydrologic/hydraulic design criteria for treatment facilities presented in the Stormwater Management Manual for Western Washington (SMMWW; Ecology 2005).

Site stormwater hydrologic analyses were conducted to:

- Quantify existing condition drainage subbasins' stormwater runoff peak flow rates and volumes needing conveyance and treatment in stormwater facilities prior to outfall discharge
- Assess whether additional stormwater runoff volume could be treated by existing stormwater facilities beyond the SMMWW (Ecology 2005) minimum treatment volume threshold (91 percent of average annual runoff)
- Evaluate runoff peak flow rates and volumes associated with possible alternative improvements that could further increase the runoff treated assuming that:
  - The existing thickener tanks are used for supplemental active stormwater storage (assuming Facility 77 pumps to storage).

  - The Pump Station C and Filter Plant capacities are increased to match the Facility 77 maximum capacity.
  - The existing Retention Basin size is increased (if active storage were added)
  - Additional stormwater active storage is created upstream of Facility 77.

- Conceptually determine how the existing treatment systems could be modified to accommodate treatment for up to the 10-year, 24-hour event runoff volume, as well as for added stormwater runoff with potential for diversion from site areas that currently drain to CDID ditches

Because stormwater from the site discharges into the tidally influenced lower Columbia River, site flow control BMPs are not required, and only basic water quality treatment is necessary (Ecology 2005).

In accordance with the SMMWW, MGS Software LLC's MGSFlood Model, Version 4.09 (MGSFlood 2009) was used to calculate the appropriate design flow rate meeting Ecology's treatment volume threshold for basic water quality treatment and other assessments. MGSFlood is a continuous simulation hydrologic model that simulates long-term hourly (or more frequent) runoff response to a precipitation time series based on drainage area runoff conditions and parameters. Hydrologic routing of runoff is evaluated through active storage units as input to the model. Flow statistics from the continuously simulated runoff response are processed and synthesized by the model to provide the desired peak flow and volume model output parameters.

The following sections briefly discuss the stormwater collection and treatment systems, model inputs, and results. In addition, brief discussions are included where the MGSFlood model differs from the *Western Washington Hydrologic Model Version 3* (WWHM; Ecology 2011) used by Parametrix in their prior site runoff analyses (Parametrix 2011).

No hydraulic analyses of existing drainage system capacities are included with this Engineering Report. Design capacities noted are based on those reported in prior design plans and reports by others. Further hydraulic analysis will be required to confirm current hydraulic design capacities of existing stormwater facilities as part of engineering analysis for

hydraulic design of stormwater system improvements that may be added to that system to increase conveyance or treatment capacities.

7.2.2 Drainage System Design Parameters Used for Analysis

The following key design criteria and parameters for the existing stormwater system were used to analyze the site runoff potential and drainage system function (K/J 1994):

- Facility 77 capacity: 9,000 gpm (20.0 cfs)
- Pump Station C capacity: 6,000 gpm (13.4 cfs)
- Retention Basin discharge weir elevation: 13.5 feet MSL
- Retention Basin top of basin elevation: 16 feet MSL
- Retention Basin average bottom (invert) elevation: 6.5 feet MSL
- Retention Basin bottom dimensions: 300 feet long by 135 feet wide
- Retention Basin side slopes: 3 horizontal to 1 vertical (3H:1V)

7.2.3 Stormwater Hydrologic Model Input

MGSFlood requires the identification of facility-wide drainage subbasins, the estimated pervious and impervious areas for each subbasin, and soils and vegetative cover types for pervious areas within each subbasin. Site drainage subbasins had been previously identified by ENSR (1992) during completion of the *Outfall 002A Wastewater/Stormwater Treatment Engineering Report*. Those subbasin area delineations were revised by Parametrix (2011) and were further revised during preparation of this report using aerial photography and our current understanding of topography and drainage systems at the site. Subbasins 1 and 4, and portions of Subbasin 6 (for larger storm events) currently discharge to the Retention Basin. For the purpose of the treatment flow and volume analyses conducted for this report (focused on more frequent event runoff), only Subbasins 1 and 4 are included. Stormwater runoff from the other on-site subbasins currently discharges off site through Outfalls 003, 005, or 006 to the CDID ditches. Stormwater within some smaller on-site subbasin areas entirely infiltrates or evaporates (Subbasins 4A and 6A; Figure 7-3), and stormwater is collected in subbasin 3A for reclaim or off-site disposal.

Impervious areas for the various drainage subbasins were delineated based on aerial photography, and pervious areas were defined as till soils and the vegetative cover as either

grass or pasture. MGSFlood and WWHM differ somewhat in their assignment of soil parameters. WWHM uses the soil hydrologic group, while MGSFlood uses the underlying geologic formation. Generally, soils from hydrologic groups A and B are designated outwash, and soils from hydrologic groups C and D are classified as till. According to the Cowlitz County Soil Survey (Cowlitz County 2006), the majority of the site is underlain by silty clay loams of the Caples, Maytown, or Snohomish series, all which belong to soil hydrologic group C. Pervious areas with vegetative cover located within the maintained portion of the site were assumed to be grass and pasture for the balance of the site, where the vegetation is unmanaged.

MGSFlood and WWHM are continuous simulation hydrologic models that use different precipitation records to simulate runoff response. WWHM uses the precipitation gauge record from Longview (approximately 1954 through 2000), whereas MGSFlood uses a longer (121-year) extended time series based on regional precipitation records. The results are similar but not always the same, especially for larger, less frequent storm events. The analysis using MGSFlood included an hourly time step.

7.2.4 Stormwater Modeling Results for Existing Conditions and for Potential Improvement Alternatives

The subbasin areas and land cover characteristics are listed in Table 7-1. That table also shows the computed SMMWW 91-percentile stormwater runoff/treatment volume (equal to approximately the runoff volume from a 6-month, 24–hour storm event), Ecology's SMMWW-based treatment flow rate (for an online treatment system), and the computed peak runoff rates for several larger, less frequent storm events. As shown in the table, the peak runoff rates from the larger, less frequent storm events are substantially greater than the SMMWW 91-percentile volume treatment flow rates (the minimum guideline).

The pet-coke storage area (Subbasin 3A) was assumed to be pervious. Although underlain by a concrete pad, the stockpiled materials provide additional surface storage as precipitation is absorbed to the stockpiled materials, which reduces the potential for runoff. In addition, water stored within the stock piles has the opportunity to evaporate, thereby further reducing the potential for runoff from Subbasin 3A. MGSFlood has a limited number of

user-defined land covers and it is assumed that selecting grass/till would best approximate the current conditions existing at the site. Furthermore, removal of the pet-coke stockpile is planned, as is the underlying concrete flat storage area. Following removal of the flat storage area (and stockpile of pet-coke), the underlying ground may be vegetated or covered with gravel for erosion protection. Subsequently, it is assumed that grass/till would be an appropriate land cover for both existing and future conditions.

Numerous MGSFlood runs were completed in an iterative manner to determine the volume of water that could be treated with the existing treatment system and with various system modifications. The alternatives evaluated and their results are briefly described below. Analysis results are summarized in Tables 7-2 and 7-3 for the conditions analyzed. Appendix B includes the MFSFlood hydrologic model files used to simulate stormwater runoff response results included in this section.

Any changes to the site that modify the drainage delineation, land cover, and conveyance systems (as described in this Report) will require an update to the models discussed herein, where applicable.

7.2.4.1 Existing Conditions

With existing conditions, the treatment rate is limited by the capacity of Pump Station C and the Filter Plant to 13.4 cfs. The Facility 77 outfall pump station has a larger capacity (20.0 cfs) to convey water to Outfall 002A, but that is beyond the existing treatment system design flow capacity. Based on the analysis assumptions and reported system design capacities, the existing treatment system components can accommodate the minimum SMMWW treatment flow rate of 91 percent of the annual runoff volume. The treatment inflow rate for existing tributary subbasin runoff to the Retention Basin slightly exceeds the treatment capacity, but routing of flows through the incidental active storage above the outlet weir demonstrates adequate reduction in flow rate consistent with the Pump Station C and Filter Plant capacities. By using a portion of the available freeboard in the Retention Basin as active storage (not a recommended design practice), the existing system can provide treatment for additional runoff volume (to more than 98 percent of annual runoff volume). However, larger storm events can produce peak flows in excess of the Facility 77 pumping capacity, in

which case, excess flows would be stored on site by ponding for those periods of higher runoff flows. Potential alternative improvements that could further increase the volume of annual runoff treated and could also provide active storage containment for larger event runoff are evaluated and described in the subsections below (see Table 7-3).

7.2.4.2 Alternative 1: Use On-Site Tanks with Pumping for Supplemental Stormwater Storage

For Alternative 1, the existing thickener tanks at Facility 77 could be used to provide additional active stormwater storage. Stormwater would be pumped to the tanks from Facility 77 and allowed to drain back to the Retention Basin providing storage upstream of the Retention Basin. Although they provide approximately 2 million gallons of storage benefit, which improves the volume of annual runoff that can be treated slightly, the overall system capacity for this improvement alternative would still be limited to the discharge capacity of Pump Station C.

7.2.4.3 Alternative 2: Increase Capacity of Pump Station C and Filter Plant

For Alternative 2, the capacity of Pump Station C and the Filter Plant were assumed to be increased to match the capacity of the Outfall Pump Station (20.0 cfs). This provides a significant increase in the volume of annual runoff that can be treated.

7.2.4.4 Alternative 3: Alternative 1 and Upgrade Retention Basin Storage

Alternative 3 assumes an increase in active storage capacity by expanding upon Alternative 1 (use of the thickener tanks for storage), inclusive of expansion of the Retention Basin by increasing the bottom area footprint of the Retention Basin to 200 feet by 600 feet and by lowering the outlet weir to elevation 12.5 MSL (slightly reducing the settling treatment volume of the Retention Basin). The outlet pump station and Filter Plant capacity are not assumed to be expanded under this alternative. This improvement provides a similar level of increase in the volume of annual runoff that can be treated compared to Alternative 2.

Table 7-1

Existing Conditions Drainage Subbasin Parameters and Computed Runoff Volumes and Runoff Rates

Subbasin	Outfall	Total Area (ac)	Impervious Area (ac)	Pervious Area (ac)	Annual Runoff Volume (ac-ft)	Basic Treatment[1] BMP Volume (ac-ft)	Basic Treatment[1] BMP On-Line Flow Rate (cfs)	Peak Flow Rate – Larger Events		
								2-Year (cfs)	5-Year (cfs)	10-Year (cfs)
1	002A	90.48	72.40	18.08	284.75	9.24	12.34	22.72	30.12	34.89
2	006	33.12	0.00	33.12	48.17	1.60	0.88	1.44	2.39	3.28
3	003	44.48	17.28	27.20	110.70	3.16	3.11	7.09	9.94	11.60
3A[2]	003	16.16	0.34	15.82	30.72	0.90	0.52	1.34	2.22	2.99
4	002A	66.40	6.68	59.72	110.01	3.35	2.07	4.32	6.63	8.28
4A	Ponds, Infiltrates	5.55	1.72	3.83	13.11	0.37	0.33	0.79	1.14	1.36
5	005	52.79	15.78	37.01	123.82	3.47	3.03	7.31	10.62	12.78
5A	005	26.14	0.00	26.14	38.02	1.27	0.70	1.14	1.89	2.59
6	Ponds, Infiltrates	45.23	3.58	41.65	72.98	2.25	1.35	2.74	4.22	5.41
6A	Ponds, Infiltrates	6.35	0.16	6.19	12.11	0.36	0.20	0.53	0.88	1.18
Total		**386.70**	**117.94**	**268.76**	**844.40**	**25.96**	**24.53**	**49.42**	**70.05**	**84.36**

Notes:
ac = acre
ac-ft = acre-feet
cfs = cubic feet per second
1 Refers to 91-percentile threshold for annual volume of stormwater runoff.
2 Subbasin 3A includes the flat storage area, where the pet-coke stockpile is managed as a zero-discharge facility; a smaller portion of Subbasin 3A drains to Outfall 003.

Table 7-2

Existing Conditions and Improvement Alternatives Computed Runoff Volumes and Flows Rates Summary

Alternative	Tributary Subbasins					Treatment System		91-Percentile Runoff			Peak Flow Rates – Larger Events		
	Contributing Subbasins	Pervious Drainage Area (ac)	Impervious Drainage Area (ac)	Total Drainage Area (ac)	Mean Annual Runoff (ac-ft)	Active Storage Volume (ac-ft)	Treatment Rate (cfs/gpm)	On-Line Treatment Flow (cfs)	Basic Treatment Volume (ac-ft)	Annual Treatment Volume (ac-ft)	2-Year, 24-Hour Flow (cfs)	5-Year, 24-Hour Flow (cfs)	10-Year, 24-Hour Flow (cfs)
Existing Conditions	1 and 4	77.8	79.1	156.9	395	2.6	13.4/6000	14.4	12.6	359	27.0	36.8	43.2
Alternative 1	1 and 4	77.8	79.1	156.9	395	8.3	13.4/6000	14.4	12.6	359	27.0	36.8	43.2
Alternative 2	1 and 4	77.8	79.1	156.9	395	2.6	20/9000	14.4	12.6	359	27.0	36.8	43.2
Alternative 3	1 and 4	77.8	79.1	156.9	395	15.5	13.4/6000	14.4	12.6	359	27.0	36.8	43.2
Alternative 4	1, 3, 3A, and 4	120.8	96.7	217.5	536	2.6	20/9000	18.0	16.7	488	35.5	48.9	57.8
Alternative 5	1, 3, 3A, and 4	120.8	96.7	217.5	536	15.5	13.4/6000	18.0	16.7	488	35.5	48.9	57.8
Alternative 6	1, 3, 3A, and 4	120.8	96.7	217.5	536	16.6	20/9000	18.0	16.7	488	35.5	48.9	57.8
Alternative 7	1, 3, 3A, and 4	120.8	96.7	217.5	536	24.4	13.4/6000	18.0	16.7	488	35.5	48.9	57.8

Notes:
ac = acre
ac-ft = acre-feet
cfs = cubic feet per second
gpm = gallons per minute

Table 7-3
Simulated Runoff, Treatment Volumes, and Treatment Shortfall Volumes for Existing Conditions and Improvement Alternatives

Alternative	Total Simulated Runoff Volume	Simulated Treated Runoff Volume	Simulated Shortfall Volume Ponded[1]	Percent Treated Without Ponding	Average Annual Runoff Volume	Average Annual Treated Volume	Average Annual Shortfall Volume[1]
Existing Conditions	47,767	47,144	622	98.6%	395	390	5.14
Alternative 1	47,767	47,254	513	98.8%	395	391	4.24
Alternative 2	47,767	47,512	255	99.4%	395	393	2.10
Alternative 3	47,767	47,497	270	99.4%	395	393	2.23
Alternative 4	64,879	64,121	757	98.8%	536	530	6.26
Alternative 5	64,879	64,077	801	98.8%	536	530	6.62
Alternative 6	64,879	64,838	41	99.9%	536	536	0.34
Alternative 7	64,879	64,768	110	99.8%	536	535	0.91

Notes:
All calculated volumes shown in acre-feet.
1 Shortfall volume is the volume of water that must pond on site before passing through the treatment system.

7.2.4.5 Alternative 4: Alternative 2 and Re-Route Runoff from Subbasins 3 and 3A

Alternative 4 expands upon Alternative 2 (increase capacity of Pump Station C and Filter Plant) with the addition of re-routing the runoff from Subbasins 3 and 3A to Facility 77. It results in a similar percentage of annual volume of runoff treated to existing conditions, but a significant increase in the actual volume of runoff treated occurs with the addition of the Subbasins 3 and 3A runoff.

7.2.4.6 Alternative 5: Alternative 3 and Re-Route Runoff from Subbasins 3 and 3A

Alternative 5 expands upon Alternative 3 (use of the thickener tanks and upgrades to Retention Basin for increased active storage) with the addition of re-routing the runoff from Subbasins 3 and 3A to Facility 77. Analysis results for this improvement indicated a similar level of treatment benefit as compared to Alternative 4.

7.2.4.7 Alternative 6: Alternative 4 and Add Storage Upstream of Facility 77

Alternative 6 expands upon Alternative 4 (increase capacity of Pump Station C and Filter Plant and re-route runoff from Subbasins 3 and 3A to Facility 77), with the addition of storage upstream of the Outfall Pump Station to attenuate the runoff from up to the 10-year, 24-hour storm event. The storage volume required to attenuate the 10-year flood event to the expanded pump station capacity is approximately 14 acre-feet (ac-ft), equivalent to:

- An underground vault 10 feet deep, 500 feet long, and 122 feet wide (or other equivalent geometry)
- An above-ground or below-ground wet pond with average dimensions of 6 feet deep, 678 feet long, and 150 feet wide (or other equivalent geometry)
  - Embankments (above-ground) impounding more than 10 ac-ft must comply with the Washington State Dam Safety Regulations (WAC Chapters 173-175)

These major improvements would result in treatment of nearly 100 percent of the annual runoff volume, inclusive of Subbasins 3 and 3A runoff; however, the technical and cost feasibility of these improvements would need to be further evaluated.

7.2.4.8 Alternative 7: Alternative 5 and Add Storage Upstream of Facility 77

Alternative 7 is the same as Alternative 5 (use of the thickener tanks for storage and upgrades to Retention Basin and re-route runoff from Subbasins 3 and 3A to Facility 77) with the addition of storage upstream of the Outfall Pump Station to attenuate the runoff from the 10-year, 24-hour storm event. The required storage volume is also approximately 14 ac-ft as part of these improvements. The collective improvements would provide a similar level of treatment benefit as with Alternative 6 for the expanded drainage capture area; however, technical and cost feasibility would need to be further evaluated.

7.2.5 Stormwater Modeling Summary

For the improvement alternatives evaluated, it is assumed that all runoff for the selected tributary subbasin drainage areas for each option (beyond evaporation and infiltration losses) is routed to the Retention Basin for treatment. Table 7-3 summarizes the analysis results in terms of the annual volume of runoff treated through the Retention Basin and Filter Plant

for the various improvement alternatives conceptually evaluated. The shortfall reported in that table (last column) represents the annual average volumes of runoff that are expected to pond on the site near catch basins and pump station sumps, or overflow from open ditches due to limitations in the treatment capacity for each condition evaluated. The actual volume of runoff treated may be higher depending on whether that runoff is contained and would flow back to the stormwater infrastructure and ultimately to the Retention Basin. Those ponding or overflow volumes would be beyond existing or expanded stormwater facilities, so additional improvements in stormwater conveyance, pumping, and storage equipment may be required.

Under existing conditions, analysis results show that the system is expected to have capacity to treat approximately 98.6 percent of the simulated annual runoff volume from Subbasins 1 and 4 without causing ponding on the site; this treatment volume exceeds the water quality design storm volume (annual volume of 91 percentile) specified in the SMMWW (Ecology 2005). Most of the shortfall storage volume (ponding/overflow) would occur during larger, less frequent storm events; however, on an average annual basis that would amount to approximately 5 ac-ft.

Increasing the treatment flow rates or the active storage volume (Alternatives 4 and 5) would allow routing of Subbasin 3 and 3A through the treatment system with a similar amount of shortfall storage volume.

By adding storage sized to attenuate the 10-year, 24-hour storm event (Alternatives 6 and 7) the system would handle more than 99.5 percent of the simulated runoff volume. For that alternative, ponding (shortfall storage volume) resulting from storms larger than the 10-year event during the simulation period would average less than 1 ac-ft annually.

Without the construction of additional storage to attenuate the 10-year, 24-hour storm event, the results in Table 7-3 indicate that Alternative 2 may be the most efficient alternative for expanding the existing stormwater treatment system treatment capacity (if needed). However, further evaluation of technical feasibility and cost will be needed to confirm that preliminary conclusion. If it is desired to re-route runoff from Subbasins 3 and 3A to Facility 77, Alternatives 6 may be the most efficient alternative to be further evaluated.

It is important to note that while Alternatives 2 and 6 appear to achieve the highest treatment volume potential, the improvements involve significant costs, such as larger (or more) pumps, upgrade of Pump Station C, additional filter(s) in the Filter Plant, and construction of a larger volume Retention Basin storage facility.

A substantial increase in stormwater storage volume would be required to accommodate the 10-year, 24-hour storm event without allowing ponding to occur on site (beyond dedicated storage facilities). The placement and design of this storage and other required stormwater infrastructure improvements should be further considered during planning for site remediation cleanup activities and infrastructure improvement needs associated with site facility modifications.

7.3 Design Considerations and Benefits of Potential Stormwater Improvements

The following stormwater improvements design considerations have been evaluated as potential needs to enhance or otherwise supplement the existing stormwater treatment facilities.

7.3.1 Re-Route Runoff from Outfall 003 to Outfall 002A

An evaluation is underway to re-route portions of the current flow streams from Outfall 003 to Outfall 002A, following treatment through the Retention Basin and, as necessary, the Filter Plant. Flows identified for potential re-route include:

- Stormwater from pollution-generating impervious and pervious surfaces
- Non-contact cooling water from the heating and cooling system
- Process wastewater from laboratory sinks

MBTL is in the process of upgrading the heating and cooling system, and as a result, the existing Heating, Ventilation, and Air Conditioning (HVAC) system may be removed, thereby eliminating the source of non-contact cooling water. Similarly, process wastewater sourced from laboratory operations may be re-routed either into the Domestic Wastewater Treatment Plant or to Facility 71. If these process wastewaters are eliminated from the area

tributary to Outfall 003, the remaining flow streams will consist of stormwater only and would be appropriate for continued discharge through Outfall 003.

7.3.2 Improve Treatment for Outfall 003 Stormwater Discharges

Stormwater runoff from areas tributary to Outfall 003 occurs primarily on impervious surfaces, some of which are pollution-generating surfaces with industrial uses, such as pavements with industrial vehicular traffic and parking and areas currently used for storage of equipment.

Improvements for stormwater runoff from the pollution-generating impervious surfaces tributary to Outfall 003 may include construction of additional stormwater catch basins and piping and improvements to the paved areas to more effectively contain and collect the stormwater runoff from the pollution-generating impervious surfaces; other low-impact development (LID) improvements will also be evaluated. If runoff from these surfaces is collected, treatment would be needed to remove solids, metals, and oil and grease. Treatment may include an oil control device, a bio-infiltration facility, wet pond, media filtration, or equivalent basic treatment BMPs as defined in the SMMWW (Ecology 2005).

Stormwater runoff from treated pollution-generating impervious surfaces, non-pollution-generating impervious surfaces, and pervious surfaces may appropriately continue to be discharged through Outfall 003.

7.3.3 Improve Treatment for Outfall 005 Stormwater Discharges

Discharge through Outfall 005 currently includes stormwater runoff. A small portion of the area tributary to Outfall 005 includes pollution-generating impervious surfaces, mostly asphalt pavement subject to industrial uses surrounding the former Cable Plant. While the former Cable Plant is currently inactive, there are scrap metal stockpiles and equipment storage. Furthermore, the Cable Plant may be leased or re-purposed at some point that may include increased industrial activities.

Improvements may include construction of additional stormwater catch basins and piping and improvements to the paved areas to more effectively contain and collect the stormwater

runoff from the pollution-generating impervious surfaces; other LID improvements will also be evaluated. Once runoff from these surfaces is collected, treatment may be used to remove solids, metals, and oil and grease. Treatment may include an oil control device, a bio-infiltration facility, or equivalent measures.

Stormwater runoff from treated pollution-generating impervious surfaces, non-pollution generating impervious surfaces, and pervious surfaces may continue to discharge through Outfall 005.

7.3.4 Conversion of On-Site Tanks to Stormwater Storage Tanks

As previously described, Facility 77 has a sump with pumps for stormwater and a sump with pumps for former process wastewater. These two components have an equivalent design flow rate capacity of 20.0 cfs, and currently the process wastewater sump and pumps are not used. Facility 77 includes three, 680,000-gallon thickener tanks that were originally designed for storage of process wastewater. These tanks were formerly used to store and treat process wastewater collected in the process wastewater sump and pumps at Facility 77. The tanks can be used to store excess stormwater runoff during larger rainfall events. The tanks could gravity drain back to the pump station at controlled flow rates through the stormwater treatment facilities following storm event runoff. Use of these tanks alone could improve the treatment capacity of the existing tributary stormwater runoff to approximately 98.8 percent of the simulated annual average runoff volume (refer to Alternative 1, Table 7-3).

7.3.5 Upgrade of Pump Station C and Filter Plant

Pump Station C and the Filter Plant have a design flow capacity of 13.4 cfs, which is 6.6 cfs less than the available capacity of Facility 77 (20.0 cfs). Only the stormwater sump and pumps are currently used. An upgrade of Pump Station C and the Filter Plant to reach a flow capacity of 20 cfs may require the following:

- Reconstruction of Pump Station C, including installation of a larger volume sump and more or larger (or both) pumps, and potentially a larger discharge force main pipeline
- Modification to the Filter Plant, including installation of additional mixed media filter bays and modifications to the automated control valves and system

- Potential installation of larger sized force mains between the Outfall Pump Station, the Retention Basin, Pump Station C, the Filter Plant, and Outfall 002A

Upgrades to these stormwater facilities could improve the annual treatment volume for stormwater runoff to nearly 99.4 percent of the simulated annual average runoff volume (refer to Alternative 2, Table 7-3). Further evaluation is needed to better understand the costs and benefits of this potential upgrade.

7.3.6 Storage Facility in South Plant

A stormwater storage facility, approximately 14 ac-ft in size, could be sited in the South Plant area, which is scheduled for demolition in the near term. This facility would supplement site-wide stormwater detention (active) storage. The facility would likely require a pump station to convey stormwater from it to Facility 77. The pump station sizing would need to be further evaluated but is not expected to be too large.

In addition to increasing the capacity of Pump Station C and the Filter Plant, the addition stormwater storage facility would provide dedicated storage containment for runoff that would otherwise pond upstream of Facility 77 and could improve the annual treatment volume of stormwater runoff to nearly 100 percent of the simulated average annual runoff volume (refer to Alternative 6, Table 7-3).

8 PROCESS WASTEWATER ASSESSMENT

8.1 Existing Process Wastewater System

For current operations, there are fewer and different sources of and much smaller volumes of process wastewater than were present when the current NPDES permit was issued in 1990. The closure of aluminum production and subsequent removal of aluminum production facilities and processes have resulted in portions of the collection, conveyance, and treatment systems being discontinued or converted for use in other activities (stormwater infrastructure, liquids storage, etc.). The process wastewater system is described in the following subsections.

8.1.1 Process Wastewater Collection and Conveyance

The existing process wastewater treatment system includes a collection and conveyance network comprised of process sewer pipelines, open-channel ditches, collection structures (e.g., catch basins, manholes, sumps, and vaults), and pump stations. Key elements are described in greater detail within this subsection.

8.1.2 Facility 77 Sump/Pump Station

Facility 77 is a combination central collection structure and pump station. The facility includes two underground vaults – one for stormwater collection and the other for process wastewater collection. See Section 7.1.1.2 for additional information.

8.1.2.1 Process Wastewater Sump/Pumps (Inactive)

The process wastewater sump was designed to collect untreated process wastewater flows from the North Plant Potrooms. Four pumps would lift the collected process wastewater to the Distribution Tank, which would divert flows into the three thickener tanks (clarifiers) that were used to treat the precipitator liquor (a former aluminum smelter wastewater). Currently, there is no influent into the process wastewater sump, and the pumps are shut off. The process wastewater sump measures 14 feet wide, 27.3 feet long, and 22 feet deep (from bottom of sump floor to top of sump). The sump has a storage capacity of approximately 8,400 cubic feet below the top of the sump.

The pump station comprises four pumps – three pumps capable of operating simultaneously and one pump as backup.

8.1.3 Industrial Wastewater Treatment Plant (Facility 71)

The 1985 permit was accompanied by Administrative Order DE 85-213, which required the installation of a new wastewater treatment system designed to meet the new effluent limitations in the permit. Facility 71 was constructed and operational by May 31, 1988. The permit-required O&M Plan was finalized in February 1988.

Facility 71 was designed to treat process wastewater from the aluminum smelter operations, including wastewater from potline air pollution controls. Refer to Section 3 for further discussion on the historical record for Facility 71.

Currently, sources of influent into Facility 71 include leachate from the cryolite ditches and leachate from the Closed Black Mud Pond. For more detail on these two influent sources, refer to Section 3. Leachate water is pumped to the facility for treatment through a system of contact tanks, clarifiers, and filters prior to effluent discharge through Outfall 002B into Facility 77.

Facility 71 was damaged in a fire on June 6, 2011, that destroyed or largely impaired entire portions of the treatment process. MBTL is currently in the design phase for developing a temporary batch treatment system that will be used until a permanent replacement treatment plant can be designed and constructed. During the interim, leachate waters collected are temporarily stored in on-site tanks and will undergo treatment once the batch treatment facility is operational, or the leachate will be transported off site for treatment and disposal.

8.2 Process Wastewater Analysis

Current on-site process wastewater flows are greatly reduced compared to the flows present during the former operations as an aluminum smelter facility. Contact cooling water is no longer generated and is the greatest reduction in process wastewater flow resulting from the closure of the smelter facility.

Current operational sources of process wastewater include non-contact cooling water, contact water, and leachate water. Process wastewater sources are listed in Table 8-1.

Table 8-1
Process Wastewater Summary

Process Water Type	Source	Quantity	Disposal, Outfall
Contact Water	Demolition/dust control	Varies	Retention Basin, Filter Plant, Outfall 002A
	Cleanup/remediation	Varies	Facility 71, Retention Basin, Filter Plant, Outfall 002A
	Construction activities	Varies	Retention Basin, Filter Plant, Outfall 002A
	Filter plant backwash	7 gpm	Retention Basin, Filter Plant, Outfall 002A
	Steam Clean Area	Varies	Oil/Water Separator, Retention Basin, Filter Plant
	Bulk materials handling: alumina, Weyerhaeuser coal, others	Limited, products are stored under cover	Retention Basin, Filter Plant, Outfall 002A
	Pet-coke stockpile[1]	Varies (collected)	Reuse or off-site disposal, no site discharge
Leachate Water	Cryolite ditches	30 gpm	Facility 71, Outfalls 002A and 002B
	Closed Black Mud Pond	30 gpm	Facility 71, Outfalls 002A and 002B
Non-contact cooling water	HVAC system heat pump (planned for removal)	0.7 MGD	Outfall 003

Notes:
Facility 71 = Industrial Wastewater Treatment Plant
gpm = gallons per minute
HVAC = heating, ventilation, and air conditioning
MGD = million gallons per day
pet-coke = petroleum coke
1 Pet-coke remains from former ownership and operations; it will be removed and discontinued.

8.2.1 Contact Water

Contact water is generated in various operations, including handling of products, ongoing demolition, decommissioning of the aluminum smelter facilities, ongoing cleanup and remediation activities, and planned on-site development and improvements. Sources of contact water may include, but are not limited to, contact of equipment and vehicles (e.g., for handling bulk materials, cleaning during demolition, and conducting construction activities) and in the steam clean area. The volume of contact water is variable based on the level of various on-site activities.

Contact water waste streams are managed in different ways, depending on the nature of the contact water source. Contact water generated from remediation activities is collected, evaluated for its constituents, and treated through appropriate on-site processes prior to discharge through the permitted outfalls or disposed of at an off-site location, as necessary.

Collected runoff water is applied to the exposed stockpiled pet-coke for dust suppression or maintenance of product moisture content. Runoff from the pet-coke is collected in a closed drainage and recovery system; the collected runoff is reused as add-water on the stockpile. For runoff that exceeds add-water reuse rates, excessive runoff is pumped to on-site tankage. The runoff can be temporarily stored until additional add-water is needed or shipped for off-site disposal.

8.2.2 Leachate Water

Leachate water is currently sourced from two locations – the Cryolite Ditches and Closed Black Mud Pond.

The Cryolite Ditches are a system of four earthen ditches that collect runoff and groundwater from the former Cryolite Plant, which has been demolished, and surrounding area. Runoff collected in the ditches is pumped to the surge tank at Facility 77, where it is routed to the Facility 71 for treatment (currently leachate water is accumulated until a temporary treatment system can be installed to replace Facility 71 operations). Prior to the June 2011 fire, treated leachate water was discharged through Outfall 002B (an internal discharge point in Facility 71) back to Facility 77 and conveyed to the Retention Basin and, if

necessary, the Filter Plant for additional treatment prior to final discharge through Outfall 002A.

Leachate water from the Closed Black Mud Pond is collected in an earthen ditch south and east of the closed area and consists of water leached from the closed pond and groundwater intercepting the ditch. The collected water is pumped to a tank in Facility 77, where – prior to the June 2011 fire – it was routed to Facility 71 for treatment. The treated water was discharged through Outfall 002B into Facility 77 and conveyed to the Retention Basin and, if necessary, the Filter Plant for further treatment prior to discharge through Outfall 002A.

As previously discussed, MBTL is currently in the design phase for a temporary batch treatment system for leachate waters that will be used until a permanent replacement treatment plant can be designed and constructed.

8.2.3 Non-Contact Cooling Water

Based on previous studies conducted by Chinook, up to 0.7 MGD (486 gpm) of non-contact cooling water was sourced from the heating and cooling system for the main office buildings and laboratory. The heat pump system, for which the non-contact cooling water is needed, is in disrepair. In August, MBTL installed HVAC units in the main office building. It is anticipated that once the laboratory is moved, the heat pump system can be removed and this discharge eliminated. The non-contact cooling water is discharged into a vegetated ditch where it is commingled with stormwater and is ultimately discharged to the CDID ditches through Outfall 003.

Other sources of non-contact cooling water include well house engine cooling systems at Wells 7 and 3; these wells are not regularly used but serve as sources for emergency water needs such as fire protection flow or alternate water sources during maintenance or repair of the primary wells currently used. These sources of non-contact cooling water currently bypass inactive pump stations and gravity drain to Facility 77 and are treated in the Retention Basin and, if necessary, the Filter Plant before discharged through Outfall 002A.

The water used for non-contact cooling purposes is sourced primarily from Well 8, an on-site groundwater supply well; the water supply is chlorinated at the wellhead for biological control and for drinking water purposes.

9 DOMESTIC WASTEWATER ASSESSMENT

MBTL operates a domestic WWTP for site-generated domestic sewage. Treated effluent is discharged through Outfall 001.

9.1 Domestic Wastewater System

Domestic wastewater is treated on site using primary and secondary treatment. Treatment includes a primary spirogester, filtering through a trickling filter, settling in a secondary treatment clarifier, and disinfection using contact chlorination prior to discharge through Outfall 001. Outfall 001 discharges into the Columbia River. Solids collected in the treatment facilities are dried on site and disposed of at an off-site facility. The domestic WWTP was designed to treat an average day flow of 0.22 MGD of domestic sewage and a peak day flow of 0.32 MGD.

Domestic sewage is sourced from restrooms, showers, break rooms, and drinking fountains. Recent flow data collected by Chinook between January 2008 and May 2010 indicate that the average day flow of domestic wastewater is 0.068 MGD and the peak day flow is 0.259 MGD. It is possible that the aging system has an inflow/infiltration component, resulting in flows that increase during rainfall events.

9.2 Engineering Evaluation of On-Site Domestic Wastewater System

MBTL is currently evaluating options for a plant upgrade, replacement, or potential connection to the public owned treatment works (POTW). The evaluation will assess the costs and benefits of several options, which include upgrading or replacing or repairing and maintaining the aging on-site domestic WWTP compared to a new connection to the Three Rivers Regional Wastewater Authority POTW.

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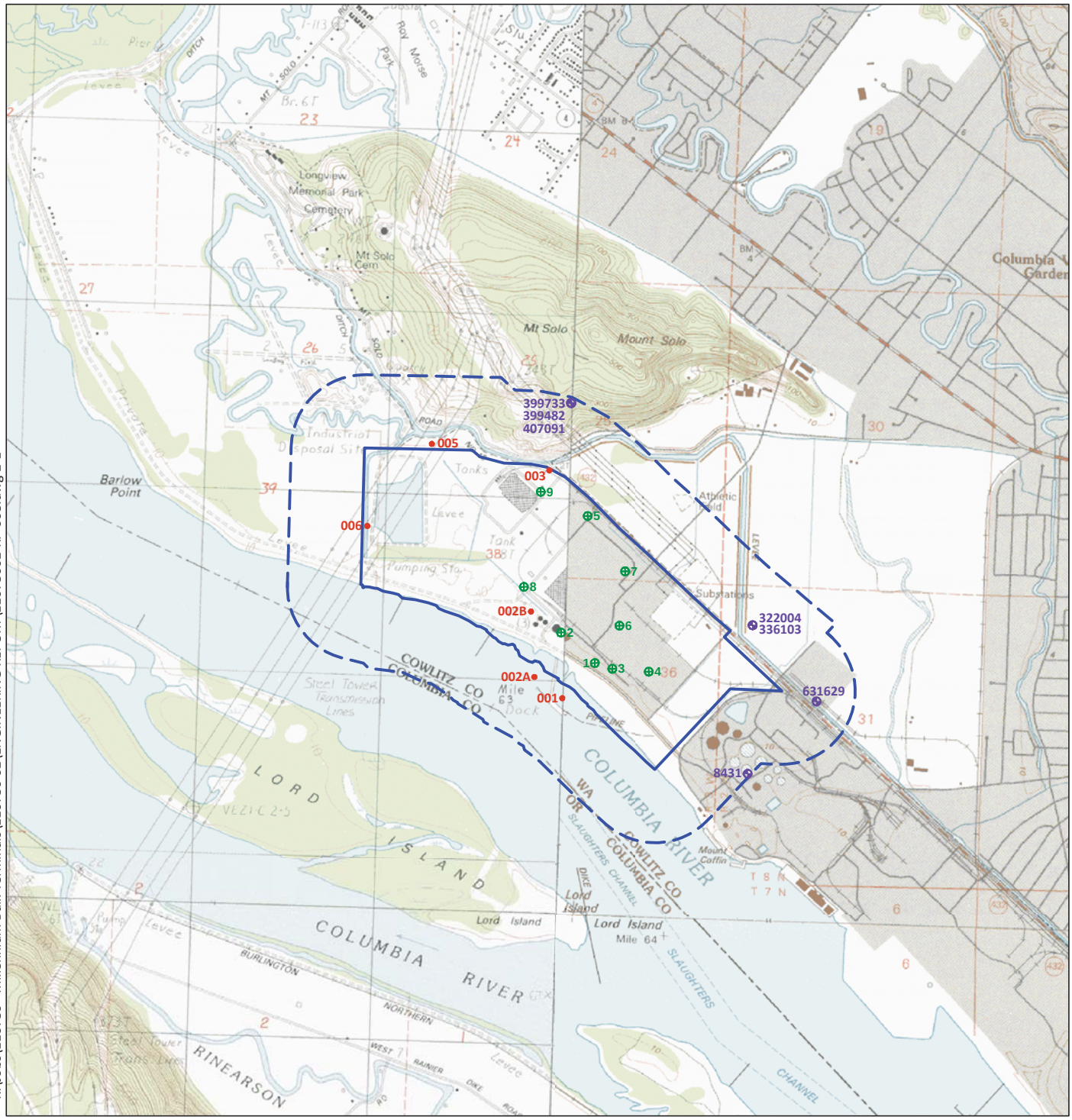
FIGURES



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LEGEND:

- Site
- 0.25 Mile (1320 feet) from Site
- 003 Outfall Location
- 8431 Water Well (DOE Tracking Number) DOE Water Resources Program GIS Data
- 1 On-Site Water Well

0 1/2
Scale in Miles

IMAGES: USGS 7.5-minute quadrangles of Rainier, Coal Creek, Kelso, and Delena. Washington State South, NAD83.

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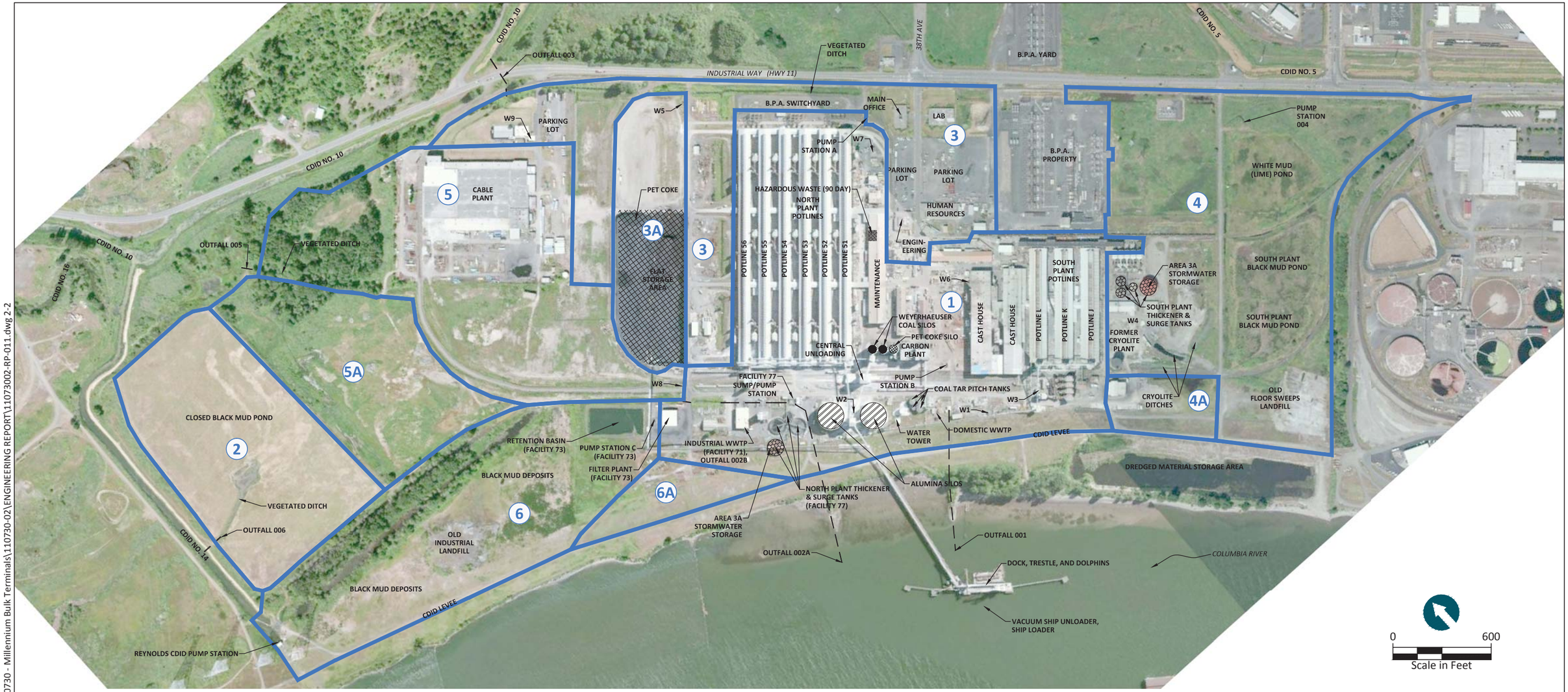
Figure 2-1
Site Map
Engineering Report
Millennium Bulk Terminals - Longview



LEGEND:

- Approximate Drainage Delineation
- Zero Discharge Area
- (6) Drainage Area Identification
- W8 Water Well (9 Total)

MATERIAL ACCUMULATION AREAS:

- Pet Coke
- Alumina Tanks
- Weyerhaeuser Coal Silos
- Area 3A Stormwater Storage (As Needed)
- Hazardous Waste (90 Day)

DRAINAGE AREAS:

(1) **Area 1** - Stormwater runoff gravity drains to Facility 77 and is pumped to Facility 73 for treatment prior to discharge through Outfall 002A.

(2) **Area 2** - Stormwater runoff gravity drains to vegetated ditch and is discharged through Outfall 006 into CDID Ditch No. 14.

(3) **Area 3** - Stormwater runoff ponds locally and/or gravity drains to vegetated ditch and is discharged through Outfall 003 into CDID Ditch No. 10.

(3A) **Area 3A** - Stormwater runoff from Flat Storage Area is managed in a zero-discharge condition. Excess runoff is pumped into onsite tankage for temporary storage and reused as add-water for the pet coke stockpiles or is transported off site for treatment and disposal. Remainder tributary runoff ponds locally and infiltrates/evaporates or is discharged through Outfall 003.

(4) **Area 4** - Stormwater runoff gravity drains to ditches and is pumped via Pump Station 004 to Facility 77, where it is pumped to Facility 73 for treatment prior to discharge through Outfall 002A.

(4A) **Area 4A** - Stormwater runoff ponds locally and infiltrates/evaporates.

(5) **Area 5** - Stormwater runoff gravity drains to a vegetated ditch and is discharged through Outfall 005 into CDID Ditch No. 14.

(5A) **Area 5A** - Stormwater runoff ponds locally and/or gravity drains to a vegetated ditch and is discharged through Outfall 005 into CDID Ditch No. 14.

(6) **Area 6** - Stormwater runoff ponds locally and infiltrates/evaporates. Larger runoff events may discharge to Facility 77, then pumped to Facility 73 for treatment prior to discharge through Outfall 002A.

(6A) **Area 6A** - Stormwater runoff ponds locally and Infiltrates/evaporates.

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Figure 2-2
Existing Facilities and Current Operations Map
Engineering Report
Millennium Bulk Terminals - Longview

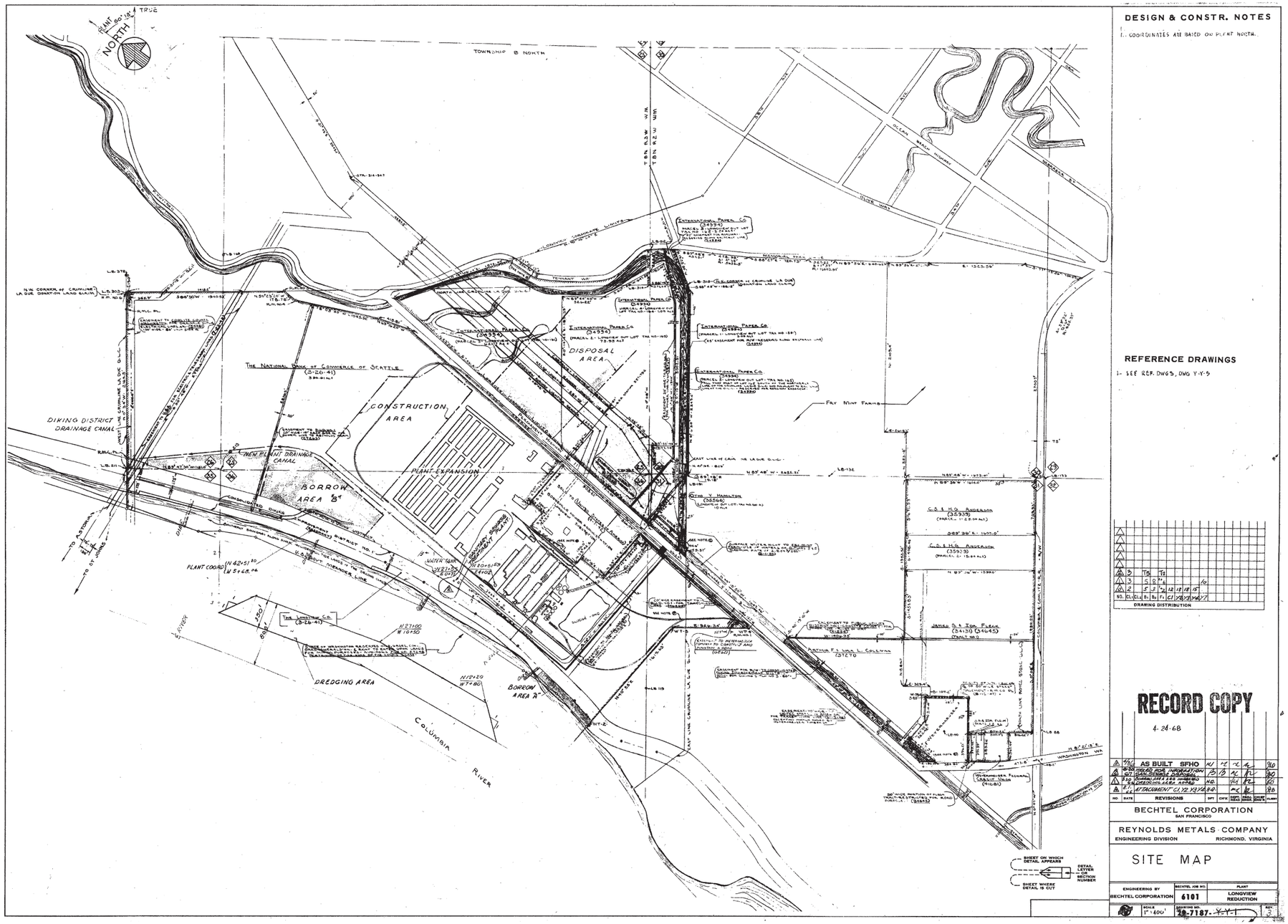

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Figure 3-1
Facility Map, Circa 1968
Engineering Report
Millennium Bulk Terminals - Longview

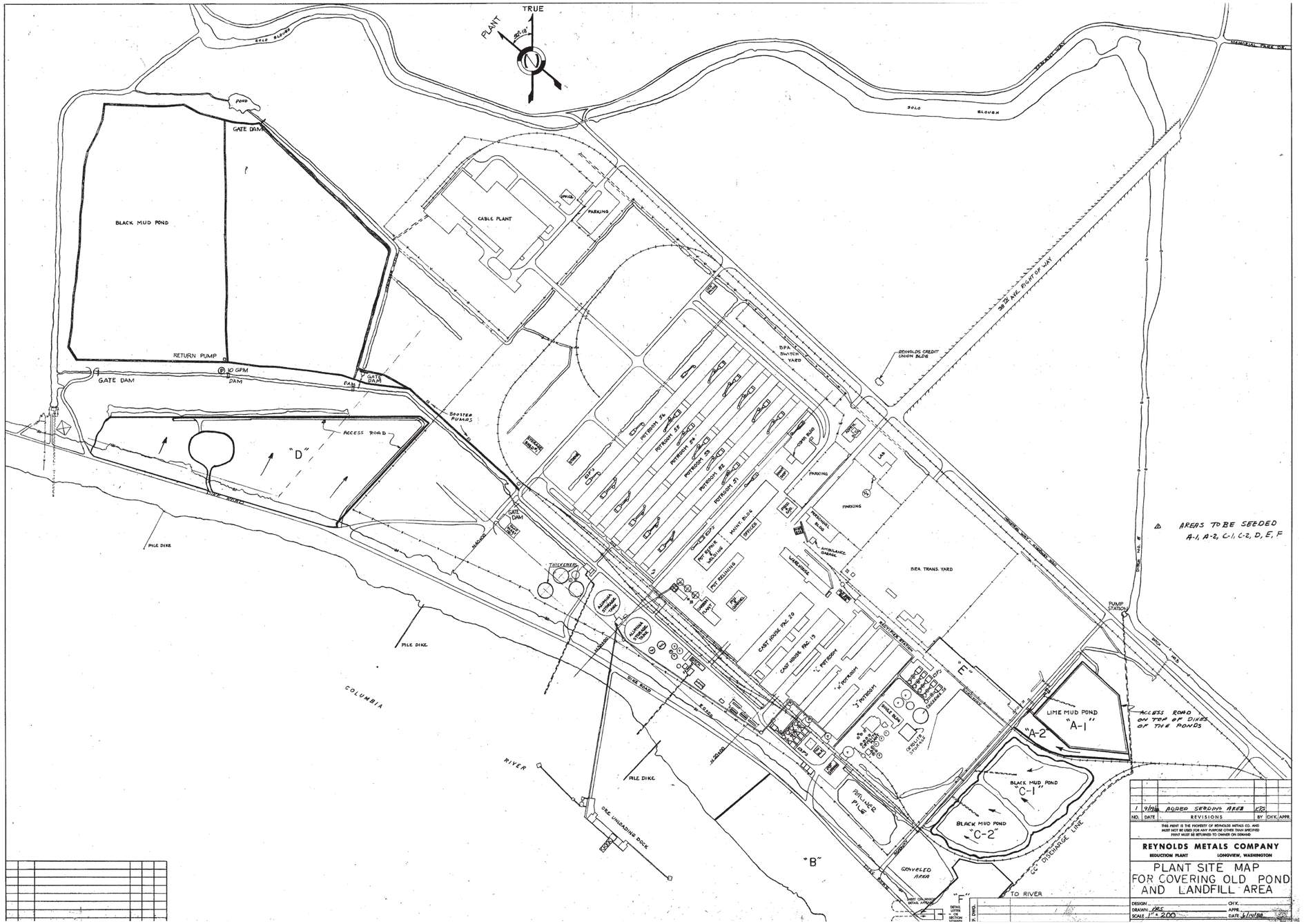

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Figure 3-2
Facility Map, Circa 1988
Engineering Report
Millennium Bulk Terminals - Longview

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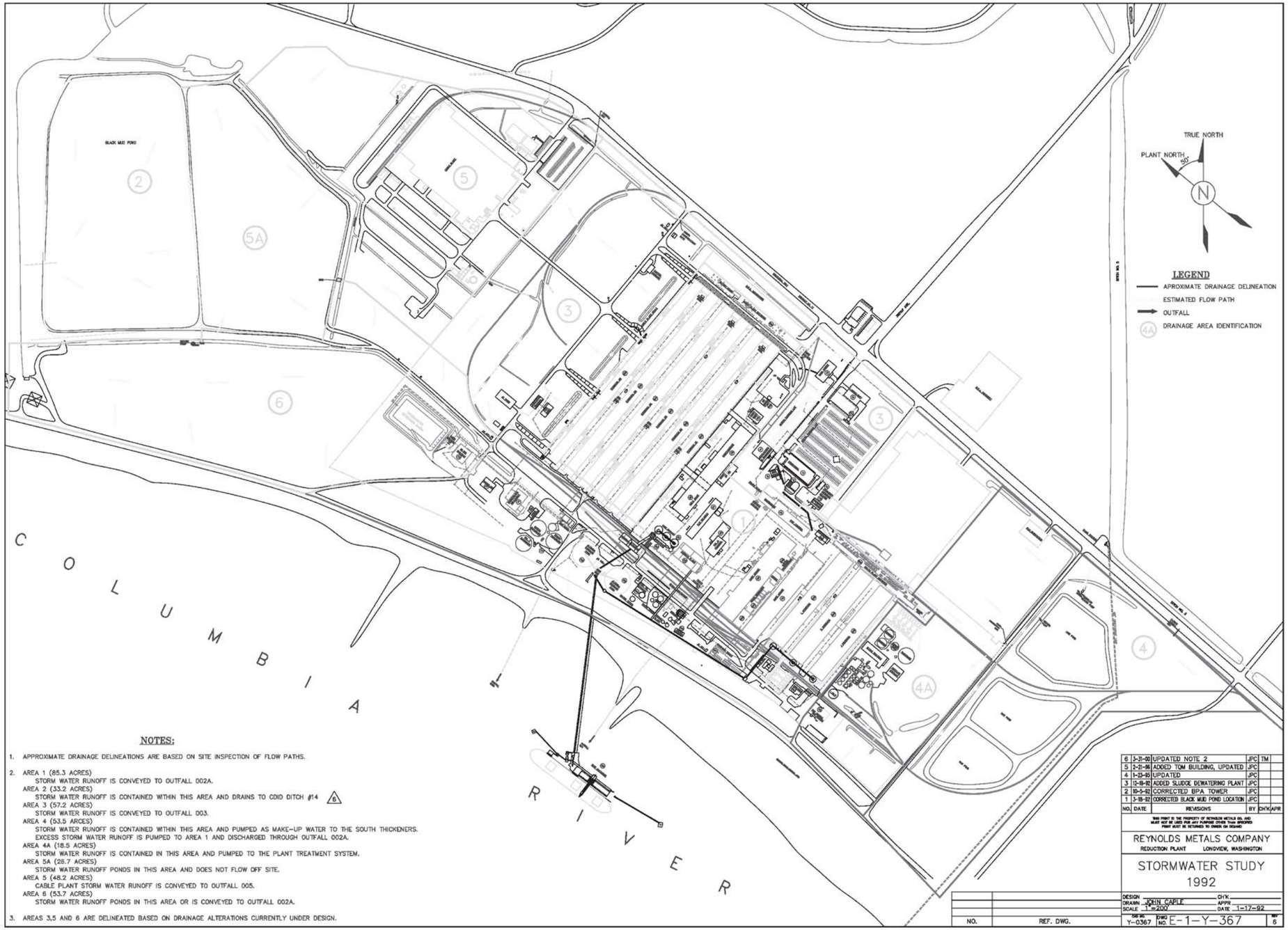

Figure 3-3
Drainage Areas by ENSR, Circa 1992
Engineering Report
Millennium Bulk Terminals - Longview

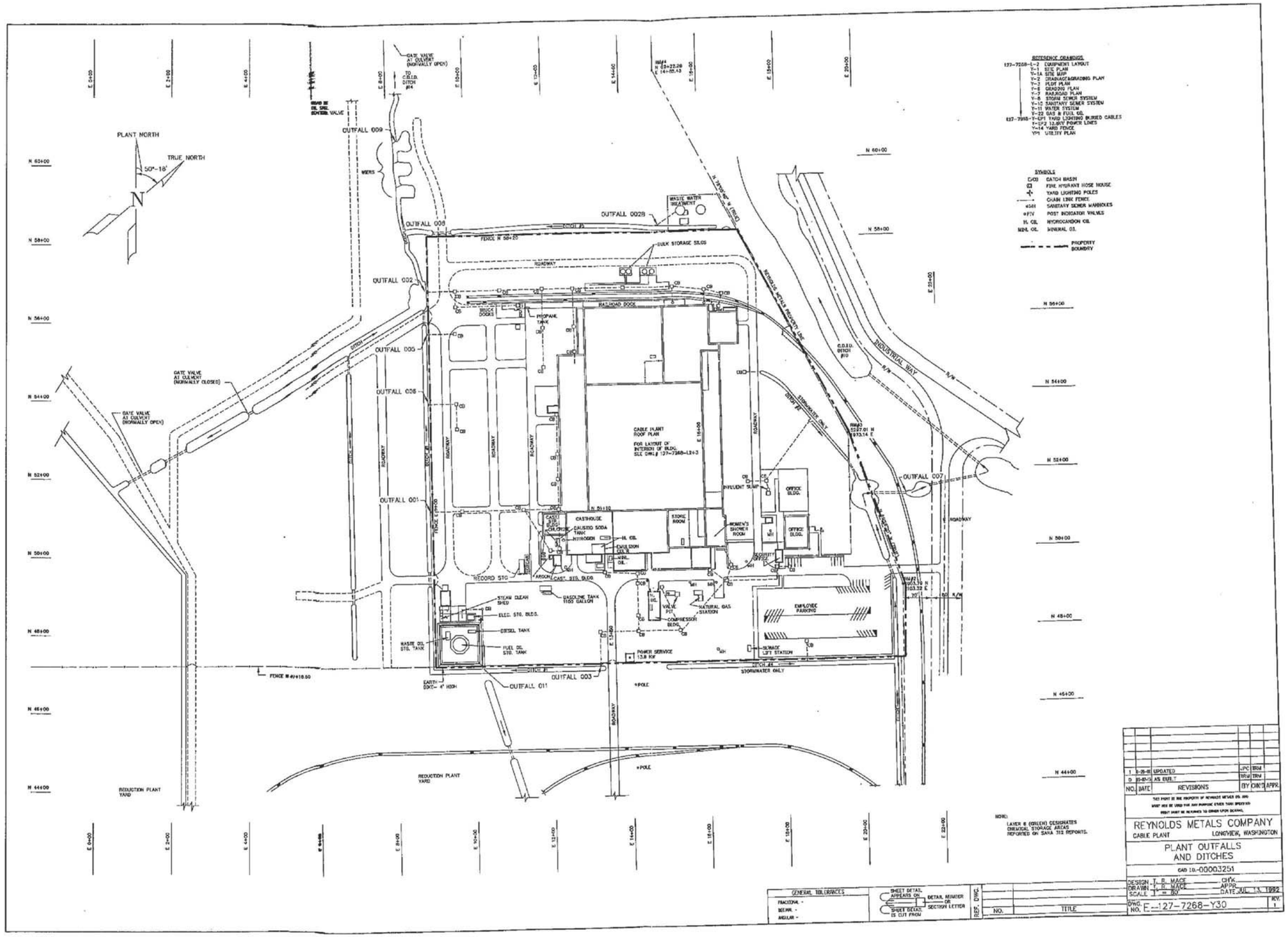

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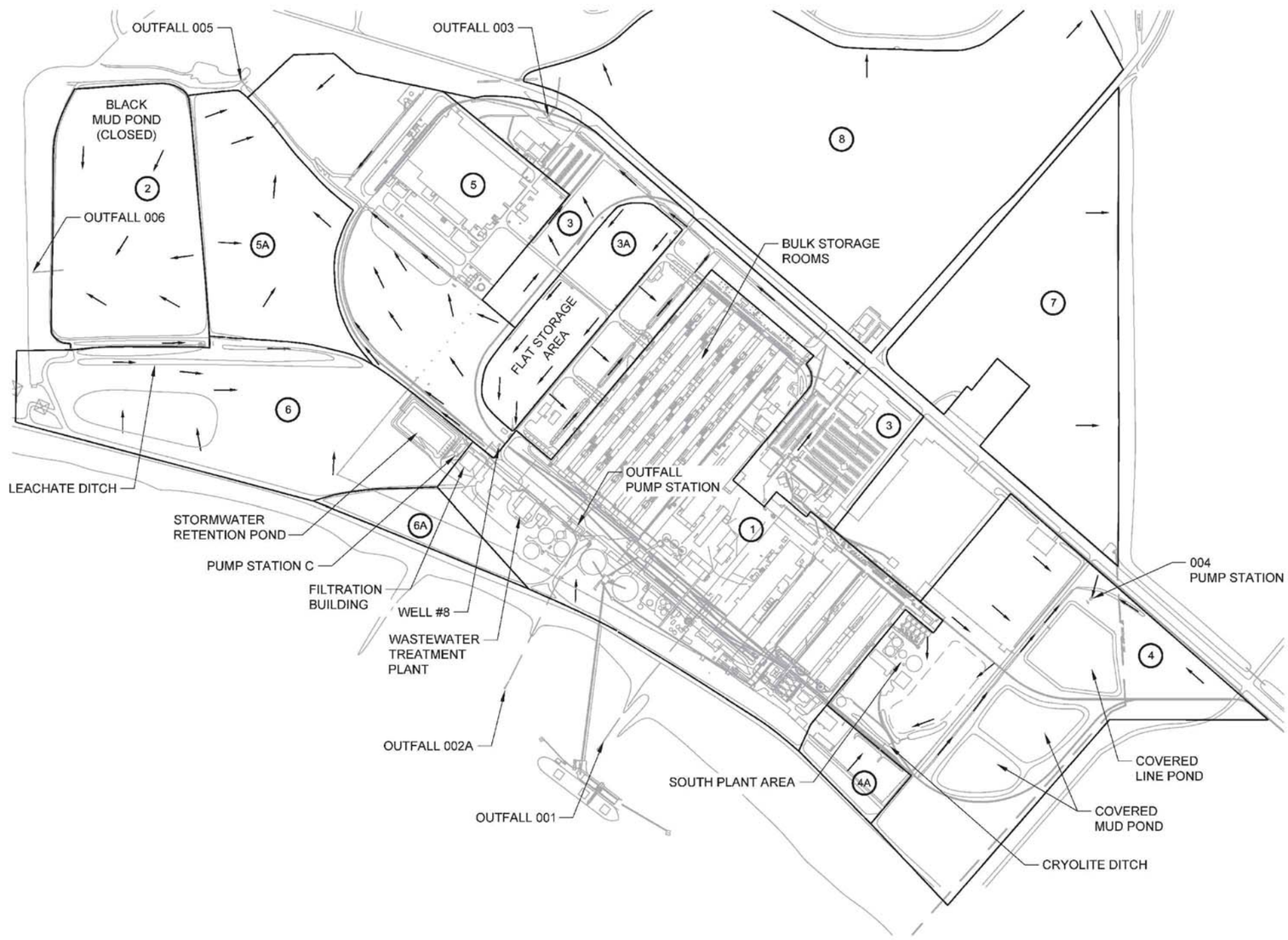
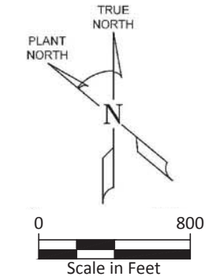
Figure 3-4
Discharge Outfalls, Reynolds Operations
Engineering Report
Millennium Bulk Terminals - Longview





LEGEND

- APROXIMATE DRAINAGE DELINEATION
- ESTIMATED FLOW PATH
- (4A) DRAINAGE AREA IDENTIFICATION

NOTES:

1. APPROXIMATE DRAINAGE DELINEATIONS ARE BASED ON SITE INSPECTION OF FLOW PATHS.

2. AREA 1 (90.1 ACRES)
   STORMWATER RUNOFF IS CONVEYED TO THE STORMWATER RETENTION POND AND DISCHARGED THROUGH OUTFALL 002A.
   AREA 2 (33.2 ACRES)
   STORMWATER RUNOFF IS CONTAINED WITHIN THIS AREA AND DRAINS TO CDID DITCH #14 @ 006.
   AREA 3 (45.3 ACRES)
   STORMWATER RUNOFF PONDS IN THIS AREA OR IS CONVEYED TO OUTFALL 003.
   AREA 3A (14.7 ACRES)
   STORMWATER RUNOFF IS CONTAINED AND/OR RETURNED TO MATERIAL PILES FOR DUST SUPPRESSION.
   AREA 4 (67.1 ACRES)
   STORMWATER RUNOFF IS COLLECTED IN DITCHES, PUMPED TO THE STORMWATER RETENTION POND AND DISCHARGED THROUGH OUTFALL 002A.
   AREA 4A (4.9 ACRES)
   STORMWATER RUNOFF PONDS IN THIS AREA.
   AREA 5A (26.7 ACRES)
   STORMWATER RUNOFF PONDS IN THIS AREA AND FLOWS TO OUTFALL 005.
   AREA 5 (54.9 ACRES)
   CABLE PLANT STORM WATER RUNOFF IS CONVEYED TO OUTFALL 005.
   AREA 6 (44.5 ACRES)
   STORMWATER RUNOFF PONDS IN THIS AREA OR IS CONVEYED TO OUTFALL 005.
   AREA 6A (5.7 ACRES)
   STORMWATER RUNOFF PONDS IN THIS AREA.
   AREA 7 (46.5 ACRES)
   UNDEVELOPED PARCEL. STORMWATER RUNOFF FLOWS THROUGH NATURAL VEGETATION INTO CDID DITCH NO. 5
   AREA 8 (113.9 ACRES)
   UNDEVELOPED PARCEL. STORMWATER RUNOFF FLOWS THROUGH NATURAL VEGETATION INTO CDID DITCH NO. 6

SOURCE: Drawing prepared from PDF by Parametrix.

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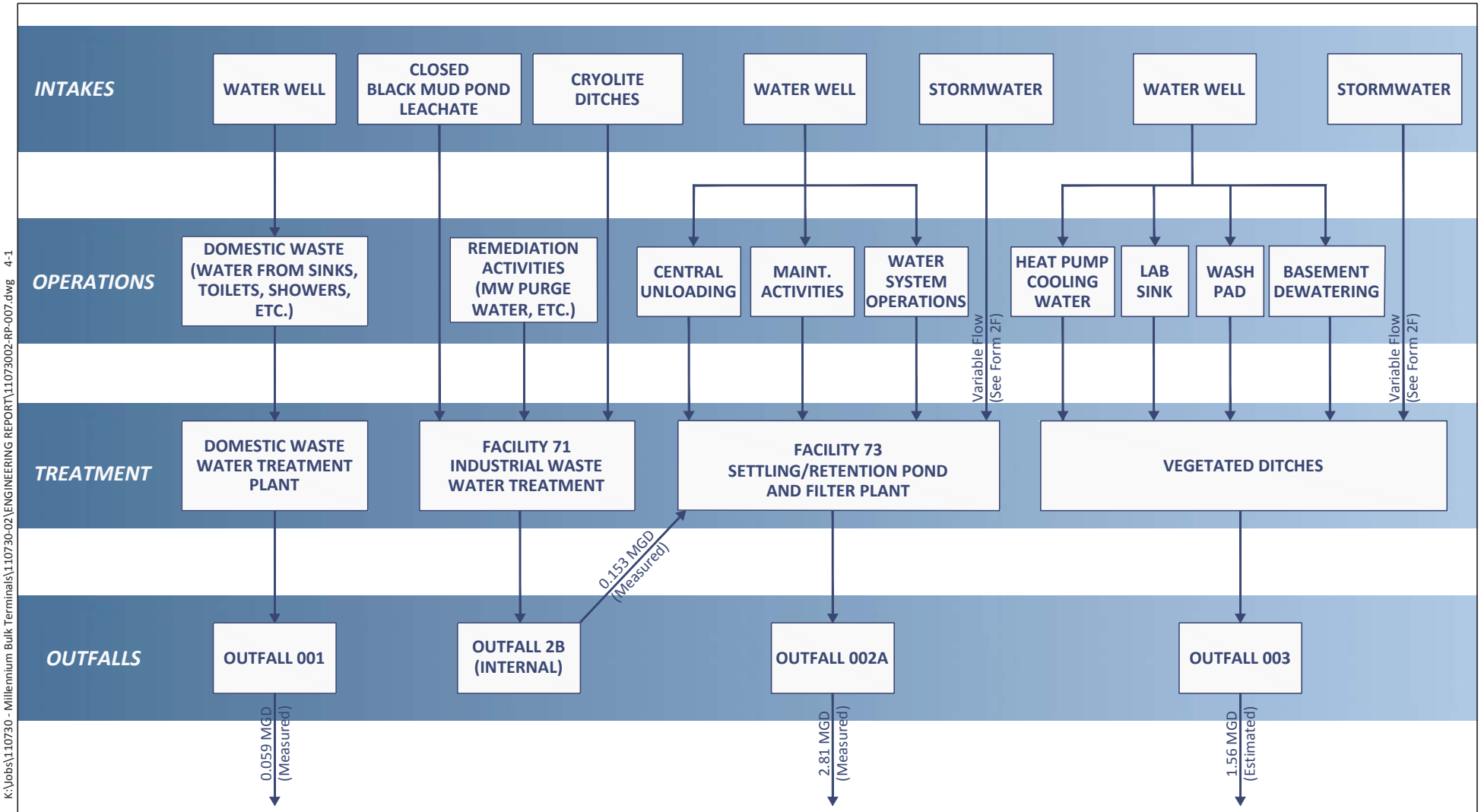
Figure 3-5
Discharge Outfalls, Chinook Operations
Engineering Report
Millennium Bulk Terminals - Longview



NOTES:
1. "Measured" flows are averages based on flow meter data collected between January 2006 - June 2011. All other flows are estimates.
2. Stormwater flows are addressed on Form 2F.
3. MGD = Million gallons per day.
4. MW = Monitoring Well
5. Maintenance activities include dust suppression, road washing, steam cleaning, etc.
6. Groundwater infiltrates into the collection systems for all outfalls.

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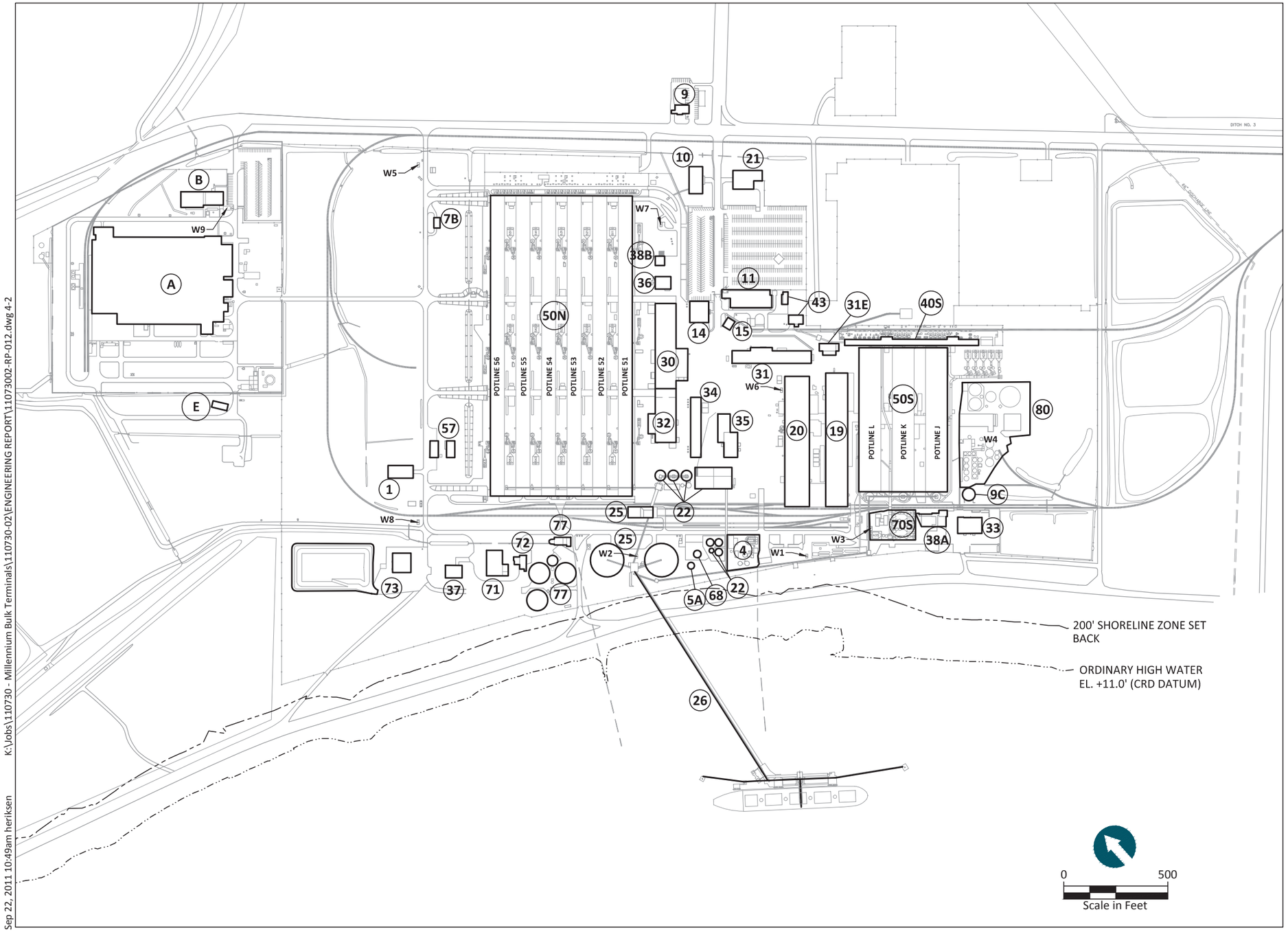
Figure 4-1
Flow Line Diagram - Current Operations
Engineering Report
Millennium Bulk Terminals - Longview



LEGEND:

W4	Water Well (9 total)
A	Cable Plant
B	Guard Shack
E	Structure
1	Shed (Removed)
4	Sewage Plant
5A	Water Tower
7B	Capital Storage
9	Former Credit Union
9C	I Silo
10	Main Office
11	Human Resources
14	Production and Engineering
15	Fire Station
19	Cast House
20	Cast House
21	Laboratory
22	Coke Storage Silos/Carbon Plant/Pitch Tanks
22	Pitch Tanks
25	Central Unloading
25	Alumina Storage Tanks
26	Dock and Product Loading/Unloading Systems
30	Maintenance
31	Warehouse and Pot Control
31E	Penthouse
32	Weld Shop
33	Pot Digging
34	Pot Relining
35	Pin and Channel
36	Paint Shop
37	Sandblast
38A	South Compressor and Boiler
38B	North Plant Compressor
40S	South Plant Rectifier
43	Storage Buildings
50N	Potrooms (51-56)
50S	Potrooms (L-J)
57	Asbestos Removal
68	Fuel Oil Storage
70S	ESP Plant
71	Wastewater Treatment
72	Sludge Dewatering
73	Retention Basin and Filter Building
77	Thickeners and Surge Tank
77	Sump/Pump Station
80	Cryolite Plant/Caustic Soda Storage Tank

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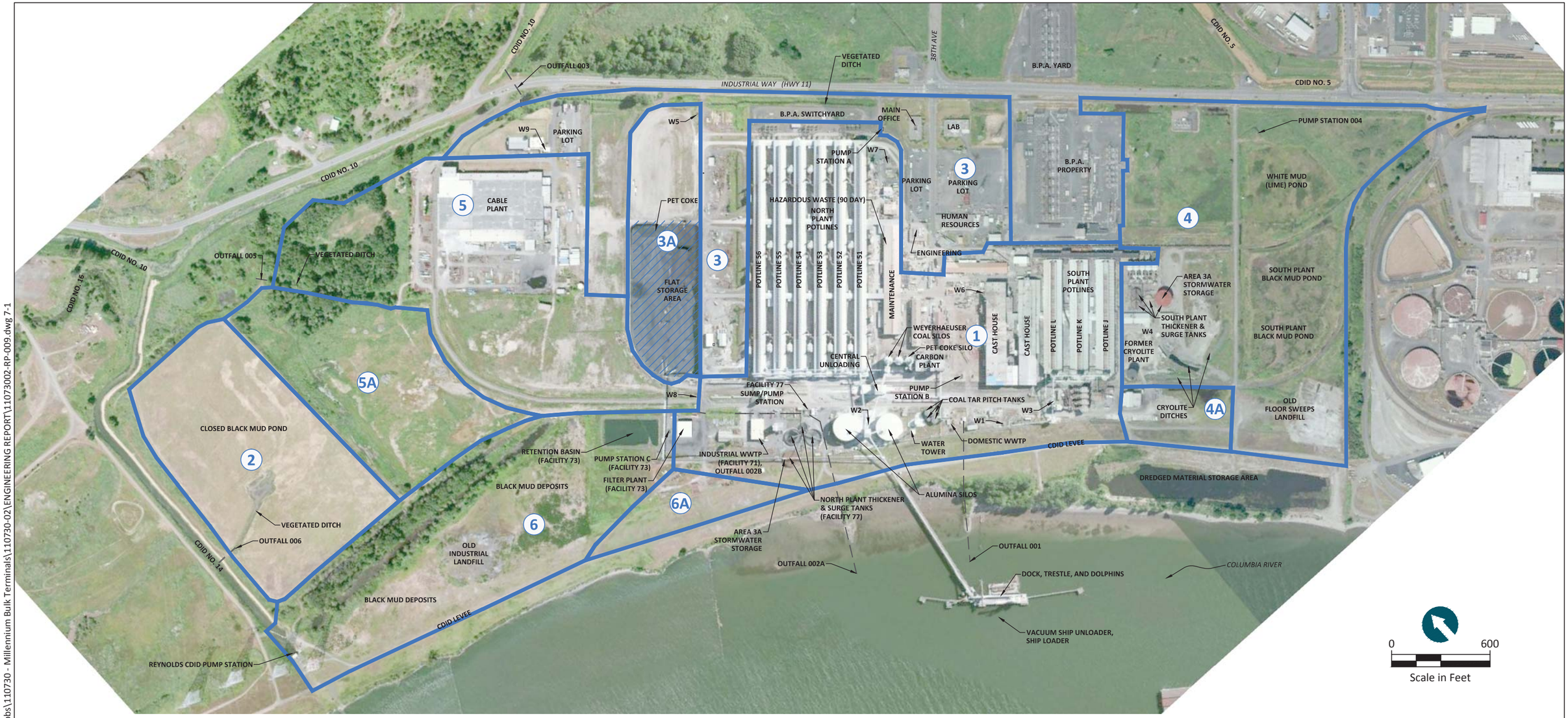
Figure 4-2
Building Location Map
Engineering Report
Millennium Bulk Terminals - Longvie w



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LEGEND:

- Approximate Drainage Delineation
- Zero Discharge Area
- (6) Drainage Area Identification
- w8 Water Well (9 Total)

DRAINAGE AREAS:

(1) **Area 1** - Stormwater runoff gravity drains to Facility 77 and is pumped to Facility 73 for treatment prior to discharge through Outfall 002A.

(2) **Area 2** - Stormwater runoff gravity drains to vegetated ditch and is discharged through Outfall 006 into CDID Ditch No. 14.

(3) **Area 3** - Stormwater runoff ponds locally and/or gravity drains to vegetated ditch and is discharged through Outfall 003 into CDID Ditch No. 10.

(3A) **Area 3A** - Stormwater runoff from Flat Storage Area is managed in a zero-discharge condition. Excess runoff is pumped into onsite tankage for temporary storage and reused as add-water for the pet coke stockpiles or is transported off site for treatment and disposal. Remainder tributary runoff ponds locally and infiltrates/evaporates or is discharged through Outfall 003.

(4) **Area 4** - Stormwater runoff gravity drains to ditches and is pumped via Pump Station 004 to Facility 77, where it is pumped to Facility 73 for treatment prior to discharge through Outfall 002A.

(4A) **Area 4A** - Stormwater runoff ponds locally and nfiltrates/evaporates.

(5) **Area 5** - Stormwater runoff gravity drains to a vegetated ditch and is discharged through Outfall 005 into CDID Ditch No. 14.

(5A) **Area 5A** - Stormwater runoff ponds locally and/or gravity drains to a vegetated ditch and is discharged through Outfall 005 into CDID Ditch No. 14.

(6) **Area 6** - Stormwater runoff ponds locally and infiltrates/evaporates. Larger runoff events may discharge to Facility 77, then pumped to Facility 73 for treatment prior to discharge through Outfall 002A.

(6A) **Area 6A** - Stormwater runoff ponds locally and Infiltrates/evaporates.

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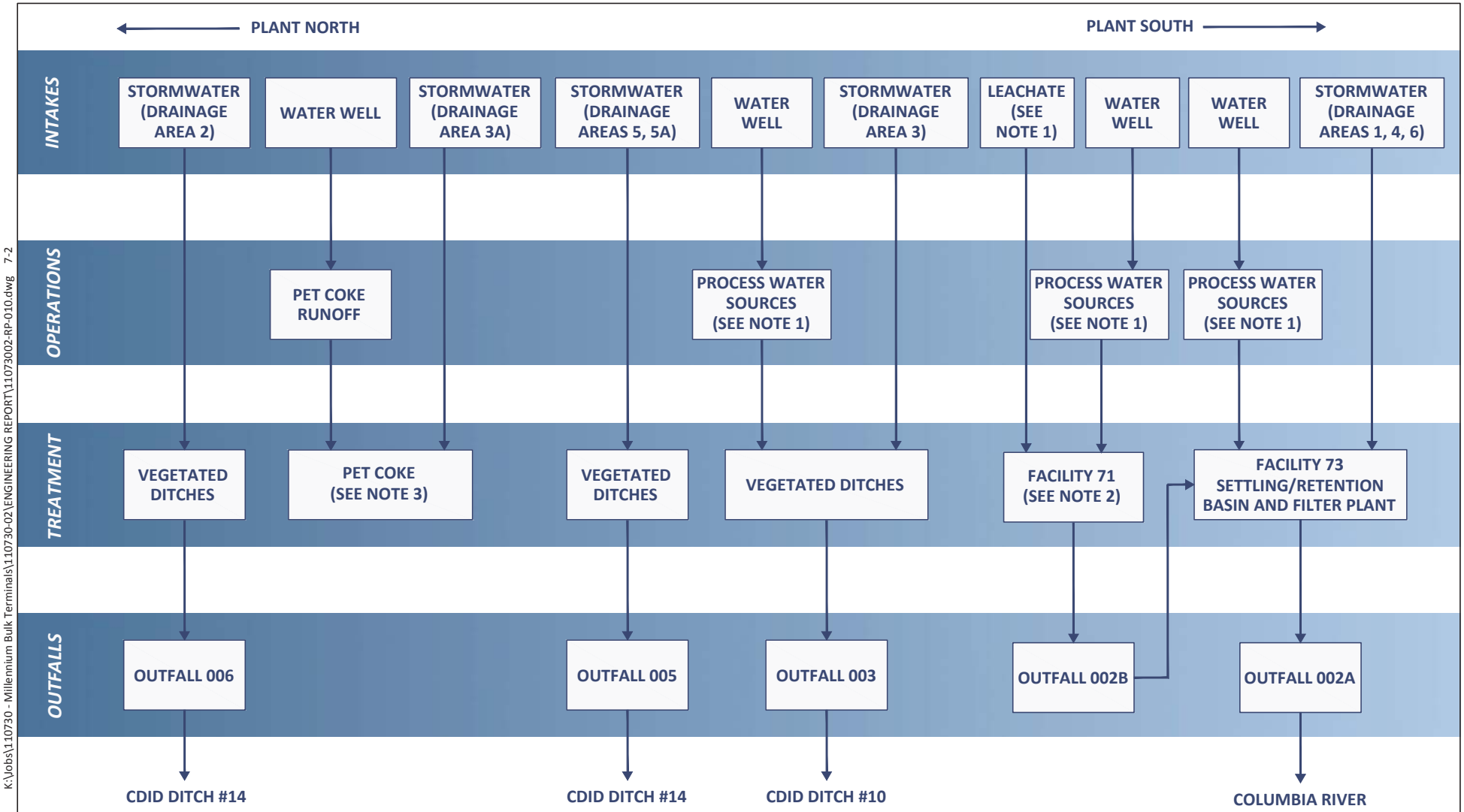
Figure 7-1
Stormwater System Map
Engineering Report
Millennium Bulk Terminals - Longview



NOTES:
1. See Figure 4-1: Flow Line Diagram - Current Operations
2. Facility 71 was damaged in a fire that occurred on June 6, 2011. Process waters normally treated in Facility 71 are temporarily stored on site until off site treatment/disposal is needed or until a replacement treatment plant is operational.
3. Runoff water from Pet Coke Stockpiles is contained, collected, and stored in on site tanks for re-use as add-water on stockpiles or transported off site for treatment and disposal.
4. Drainage areas as shown on Figure 7-1 and Figure 7-3.
5. Runoff from drainage areas 4A and 6A pond locally and do not discharge off site.

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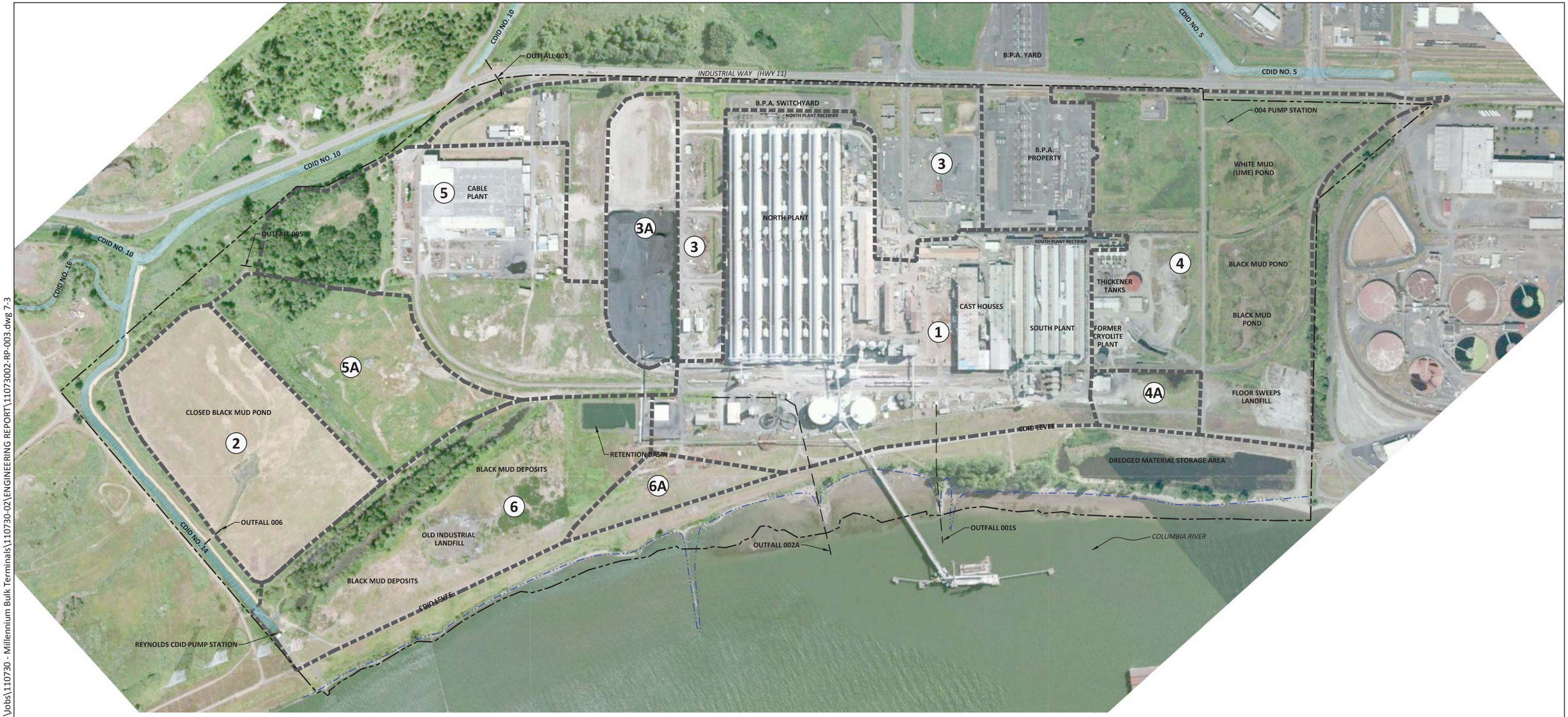
ANCHOR QEA

Figure 7-2
Stormwater Flow Schematic - Current Operations
Engineering Report
Millennium Bulk Terminals - Longview



0 600
Scale in Feet

HORIZONTAL DATUM: Washington State Plane South, NAD83, US Survey Feet.
VERTICAL DATUM: NGVD 29.

LEGEND:

Site Boundary

Approximate Ordinary High Water Line

Basin	Impervious Area (in Acres)	Pervious Area (in Acres)	Total Area (in Acres)
Sub-Basin 1	72.4	18.1	90.5
Sub-Basin 2	0.0	33.1	33.1
Sub-Basin 3	17.3	27.2	44.5
Sub-Basin 3A[1]	0.3	15.8	16.2
Sub-Basin 4	6.7	59.7	66.4
Sub-Basin 4A	6.7	59.7	66.4
Sub-Basin 5	15.8	37.0	52.8
Sub-Basin 5A	0.0	26.1	26.1
Sub-Basin 6	3.6	41.7	45.2
Sub-Basin 6A	0.2	6.1	6.4

1 = 3A represents a condition post-removal of the Flat Storage Area.

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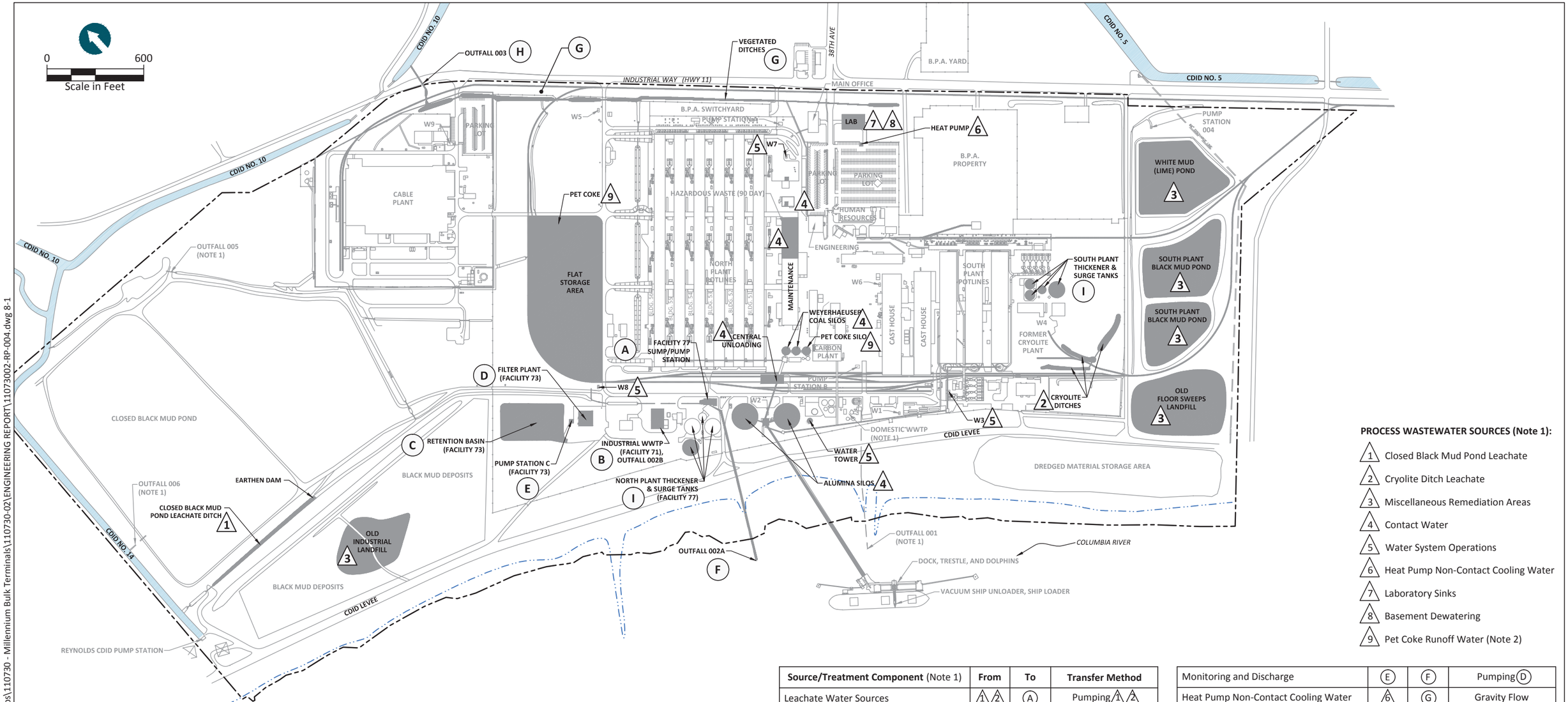
Figure 7-3
Stormwater Subbasin Map
Engineering Report
Millennium Bulk Terminals - Longview



PROCESS WASTEWATER SOURCES (Note 1):

- 1 Closed Black Mud Pond Leachate
- 2 Cryolite Ditch Leachate
- 3 Miscellaneous Remediation Areas
- 4 Contact Water
- 5 Water System Operations
- 6 Heat Pump Non-Contact Cooling Water
- 7 Laboratory Sinks
- 8 Basement Dewatering
- 9 Pet Coke Runoff Water (Note 2)

LEGEND:

- Site Boundary
- Approximate Ordinary High Water Line
- (F) Process Wastewater System Component
- 1 Process Wastewater Source
- W3 Water Well (9 total)

NOTES:

1. Domestic wastewater sources and treatment and stormwater sources and treatment not shown on this figure.
2. Runoff water from Pet Coke Storage area is not discharged off-site. Runoff water is contained and stored, as needed, in a former thickener tank and reused as add-water on the Pet Coke Storage area.

HORIZONTAL DATUM: Washington State Plane South, NAD83, US Survey Feet.
VERTICAL DATUM: NGVD 29.

Source/Treatment Component (Note 1)	**From**	**To**	**Transfer Method**
Leachate Water Sources	1, 2	A	Pumping 1, 2
Remediation Water Sources	3	A	Collected/Conveyed
Process Water Treatment (B)	A	B	Pumping (A)
Transfer Treated Effluent	B	A	Pumping (B)
Contact Water	4	A	Gravity Flow
Water System Operations	5	A	Gravity Flow
Settling Treatment, Oil & Grease Rem. (C)	A	C	Pumping (A)
Transfer Treated Effluent	C	D	Gravity Flow
Filtration Treatment (E)	D	E	Pumping (D)
Monitoring and Discharge	E	F	Pumping (D)
Heat Pump Non-Contact Cooling Water	6	G	Gravity Flow
Laboratory Sinks Discharge Water	7	G	Gravity Flow
Contact Water	4	G	Gravity Flow
Basement Dewatering	8	G	Gravity Flow
Infiltration in Vegetated Ditches	G	G	Gravity Flow
Monitoring and Discharge	H	H	Gravity Flow
Pet Coke Runoff Water	9	I	Pumping 9
Re-Use as Add-Water (Note 2)	I	9	Pumping 9

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Figure 8-1
Process Wastewater System Map
Engineering Report
Millennium Bulk Terminals - Longview

APPENDIX A
ANALYTICAL DATA

APPENDIX A-1
NPDES SAMPLING RESULTS FROM JUNE 2011

Table 1
NPDES Sampling Results – June 2011

Outfall:	001S				002A				003				005				005				005			
Sample Date:	6/15/11				6/28/2011				6/17/11				6/17/11				6/18/11				6/19/11			
Flow/Day:		0.0658	MGD			1.12	MGD			0	MGD [1]			0	MGD [1]			0.02	MGD [1]			0.007	MGD [1]	
Units:	µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day	
Metals																								
Aluminum	146	--	0.0801	C	83.6	--	0.7809	C	86.8	--	--	C	339	--	--	C	307	--	--	Grab	310	--	--	C
Antimony	< 0.500	--	< 0.0003	C	< 0.500	--	0.0047	C	< 0.500	--	--	C	< 0.500	--	--	C	1.40	--	--	Grab	< 0.500	--	--	C
Arsenic	4.62	--	0.0025	C	5.53	--	0.0517	C	5.10	--	--	C	10.0	--	--	C	5.0	--	--	Grab	6.23	--	--	C
Barium	16.10	--	0.0088	C	18.0	--	0.1681	C	10.6	--	--	C	33.4	--	--	C	45.7	--	--	Grab	34.2	--	--	C
Beryllium	0.173	--	0.0001	C	< 0.100	--	< 0.0009	C	< 0.100	--	--	C	< 0.100	--	--	C	< 0.100	--	--	Grab	< 0.100	--	--	C
Boron	--	0.035	0.0192	C	--	0.028	0.2615	C	--	0.021	--	C	--	0.033	--	C	--	0.022	--	Grab	--	0.021	--	C
Cadmium	< 0.100	--	< 0.0001	C	< 0.100	--	< 0.0009	C	< 0.100	--	--	C	< 0.100	--	--	C	< 0.100	--	--	Grab	< 0.100	--	--	C
Chromium	0.212	--	0.0001	C	0.184	--	0.0017	C	0.191	--	--	C	0.402	--	--	C	1.56	--	--	Grab	0.709	--	--	C
Cobalt	0.641	--	0.0004	C	< 0.500	--	< 0.0047	C	< 0.500	--	--	C	< 0.500	--	--	C	6.51	--	--	Grab	6.93	--	--	C
Copper	3.300	--	0.0018	C	2.610	--	0.0244	C	5.020	--	--	C	2.26	--	--	C	3.26	--	--	Grab	1.19	--	--	C
Iron	4440	--	2.4365	C	1320	--	12.3299	C	496	--	--	C	2350	--	--	C	18300	--	--	Grab	18000	--	--	C
Lead	0.731	--	0.0004	C	0.146	--	0.0014	C	0.156	--	--	C	0.423	--	--	C	0.468	--	--	Grab	< 0.100	--	--	C
Magnesium	15400	--	8.4511	C	12400	--	115.8259	C	13100	--	--	C	17300	--	--	C	17400	--	--	Grab	17300	--	--	C
Manganese	433	--	0.2376	C	369	--	3.4468	C	502	--	--	C	16300	--	--	C	17300	--	--	Grab	17700	--	--	C
Molybdenum	2.65	--	0.0015	C	2.24	--	0.0209	C	2.35	--	--	C	1.64	--	--	C	6.98	--	--	Grab	6.41	--	--	C
Mercury	--	< 0.0001	< 0.0001	C	--	< 0.0001	< 0.0009	C	--	< 0.0001	--	C	--	< 0.0001	--	C	--	< 0.0001	--	Grab	--	< 0.0001	--	C
Nickel	1.12	--	0.0006	C	1.04	--	0.0097	C	1.83	--	--	C	0.873	--	--	C	8.07	--	--	Grab	6.900	--	--	C
Selenium	< 1.000	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.000	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Silver	< 0.100	--	< 0.0001	C	< 0.100	--	< 0.0009	C	< 0.100	--	--	C	< 0.100	--	--	C	< 0.100	--	--	Grab	< 0.100	--	--	C
Thallium	< 0.500	--	< 0.0003	C	< 0.500	--	< 0.0047	C	< 0.500	--	--	C	< 0.500	--	--	C	< 0.500	--	--	Grab	< 0.500	--	--	C
Tin	--	< 0.02	< 0.0110	C	--	< 0.02	< 0.1868	C	--	< 0.20	--	C	--	< 0.020	--	C	--	< 0.020	--	Grab	--	< 0.020	--	C
Titanium	--	< 0.005	< 0.0027	C	--	< 0.005	< 0.0467	C	--	0.024	--	C	--	0.054	--	C	--	0.007	--	Grab	--	< 0.005	--	C
Zinc	12.4	--	0.0068	C	6.16	--	0.0575	C	62.2	--	--	C	6.54	--	--	C	11.4	--	--	Grab	2.60	--	--	C
Base/Neutrals/Acids																								
1,2,4-Trichlorobenzene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
1,2-Dichlorobenzene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
1,2-Diphenylhydrazine	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
1,3-Dichlorobenzene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
1,4-Dichlorobenzene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
2,4,6-Trichlorophenol	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
2,4-Dichlorophenol	< 9.51	--	< 0.0052	C	< 9.54	--	< 0.0891	C	< 9.51	--	--	C	< 9.51	--	--	C	< 9.51	--	--	Grab	< 9.56	--	--	C
2,4-Dimethylphenol	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
2,4-Dinitrophenol	< 9.51	--	< 0.0052	C	< 9.54	--	< 0.0891	C	< 9.51	--	--	C	< 9.51	--	--	C	< 9.51	--	--	Grab	< 9.56	--	--	C
2,4-Dinitrotoluene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
2,6-Dinitrotoluene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
2-Chloronaphthalene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
2-Chlorophenol	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
2-Nitrophenol	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
3,3´-Dichlorobenzidine	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
3,4-Benzofluoranthene	< 9.51	--	< 0.0052	C	< 9.54	--	< 0.0891	C	< 9.51	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
4,6-Dinitro-2-methylphenol (4,6-Dinitro-O-cresol)	< 9.51	--	< 0.0052	C	< 9.54	--	< 0.0891	C	< 9.51	--	--	C	< 9.51	--	--	C	< 9.51	--	--	Grab	< 9.56	--	--	C
4-Bromophenyl phenyl ether	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
4-Chloro-3-methylphenol	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C

Table 1
NPDES Sampling Results – June 2011

Outfall:	001S				002A				003				005				005				005			
Sample Date:	6/15/11				6/28/2011				6/17/11				6/17/11				6/18/11				6/19/11			
Flow/Day:		0.0658	MGD			1.12	MGD			0	MGD [1]			0	MGD [1]			0.02	MGD [1]			0.007	MGD [1]	
Units:	µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day	
Base/Neutrals/Acids (continued)																								
4-Chlorophenyl phenyl ether	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
4-Nitrophenol	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Acenaphthene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Acenaphthylene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Aniline	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Anthracene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Benz(a)anthracene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Benzidine	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Benzo(a)pyrene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Benzo(b)fluoranthene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Benzo(g,h,i)perylene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Benzo(k)fluoranthene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Benzoic Acid	< 19.0	--	< 0.0104	C	< 19.1	--	< 0.1784	C	< 19.0	--	--	C	< 19.0	--	--	C	< 19.0	--	--	Grab	< 19.1	--	--	C
Bis(2-chloroethoxy)methane	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Bis(2-chloroethyl)ether	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Bis(2-chloroisopropyl)ether	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Bis(2-ethylhexyl)phthalate	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	8.58	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	60.7	--	--	C
Butyl benzyl phthalate	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Carbazole	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Chrysene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Di-n-butyl phthalate	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Di-n-octyl phthalate	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Dibenz(a,h)anthracene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Diethyl phthalate	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Dimethyl phthalate	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Fluoranthene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Fluorene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Hexachlorobenzene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Hexachlorobutadiene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Hexachlorocyclopentadiene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Hexachloroethane	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Indeno(1,2,3-cd)pyrene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Isophorone	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
N-Nitrosodi-n-propylamine	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
N-Nitrosodimethylamine	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
N-Nitrosodiphenylamine	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Naphthalene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Nitrobenzene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
o-Cresol	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
p-Cresol	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Pentachlorophenol	< 9.51	--	< 0.0052	C	< 9.54	--	< 0.0891	C	< 9.51	--	--	C	< 9.51	--	--	C	< 9.51	--	--	Grab	< 9.56	--	--	C
Phenanthrene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Phenol	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Pyrene	< 4.76	--	< 0.0026	C	< 4.77	--	< 0.0446	C	< 4.75	--	--	C	< 4.76	--	--	C	< 4.75	--	--	Grab	< 4.78	--	--	C
Pyridine	< 9.51	--	< 0.0052	C	< 9.54	--	< 0.0891	C	< 9.51	--	--	C	< 9.51	--	--	C	< 9.51	--	--	Grab	< 9.56	--	--	C

Table 1
NPDES Sampling Results – June 2011

Outfall:	001S				002A				003				005				005				005			
Sample Date:	6/15/11				6/28/2011				6/17/11				6/17/11				6/18/11				6/19/11			
Flow/Day:		0.0658	MGD			1.12	MGD			0	MGD [1]			0	MGD [1]			0.02	MGD [1]			0.007	MGD [1]	
Units:	µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day	
Pesticides/PCBs																								
4,4'-DDD	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
4,4'-DDE	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
4,4'-DDT	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0952	--	--	Grab	< 0.0955	--	--	C
Aldrin	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
a-BHC	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
b-BHC	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
g-BHC	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
d-BHC	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
Aroclor 1016	< 0.0381	--	< 0.00002	C	< 0.0384	--	< 0.0004	C	< 0.0380	--	--	C	< 0.0382	--	--	C	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1221	< 0.0381	--	< 0.00002	C	< 0.0384	--	< 0.0004	C	< 0.0380	--	--	C	< 0.0382	--	--	C	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1232	< 0.0381	--	< 0.00002	C	< 0.0384	--	< 0.0004	C	< 0.0380	--	--	C	< 0.0382	--	--	C	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1242	< 0.0381	--	< 0.00002	C	< 0.0384	--	< 0.0004	C	< 0.0380	--	--	C	< 0.0382	--	--	C	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1248	< 0.0381	--	< 0.00002	C	< 0.0384	--	< 0.0004	C	< 0.0380	--	--	C	< 0.0382	--	--	C	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1254	< 0.0381	--	< 0.00002	C	< 0.0384	--	< 0.0004	C	< 0.0380	--	--	C	< 0.0382	--	--	C	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1260	< 0.0381	--	< 0.00002	C	< 0.0384	--	< 0.0004	C	< 0.0380	--	--	C	< 0.0382	--	--	C	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Chlordane	< 0.190	--	< 0.00010	C	< 0.192	--	< 0.0018	C	< 0.190	--	--	C	< 0.191	--	--	C	< 0.190	--	--	Grab	< 0.191	--	--	C
Dieldrin	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
Endosulfan I	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
Endosulfan II	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
Endosulfan Sulfate	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
Endrin	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0955	--	--	C
Endrin Aldehyde	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
Heptachlor	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0955	--	--	C
Heptachlor Epoxide	< 0.0190	--	< 0.00001	C	< 0.0192	--	< 0.0002	C	< 0.0190	--	--	C	< 0.0191	--	--	C	< 0.0190	--	--	Grab	< 0.0191	--	--	C
Toxaphene	< 0.190	--	< 0.00010	C	< 0.192	--	< 0.0018	C	< 0.190	--	--	C	< 0.191	--	--	C	< 0.190	--	--	Grab	< 0.191	--	--	C
VOCs/Purgeables																								
1,1,1,2-Tetrachloroethane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,1,1-Trichloroethane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,1,2,2-Tetrachloroethane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,1,2-Trichloroethane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,1-Dichloroethane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,1-Dichloroethene (1,1-Dichloroethlene)	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,2,3-Trichloropropane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,2,4-Trichlorobenzene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,2-Dibromoethane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,2-Dichlorobenzene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C

Table 1
NPDES Sampling Results – June 2011

Outfall:	001S				002A				003				005				005				005			
Sample Date:	6/15/11				6/28/2011				6/17/11				6/17/11				6/18/11				6/19/11			
Flow/Day:		0.0658	MGD			1.12	MGD			0	MGD [1]			0	MGD [1]			0.02	MGD [1]			0.007	MGD [1]	
Units:	µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day	
VOCs/Purgeables (continued)																								
1,2-Dichloroethane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,2-Dichloropropane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,3-Dichlorobenzene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
1,4-Dichlorobenzene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
2-Butanone	< 10.0	--	< 0.0055	C	< 10.0	--	< 0.0934	C	< 10.0	--	--	C	< 10.0	--	--	C	< 10.0	--	--	Grab	< 10.0	--	--	C
2-Chloroethyl vinyl ether	< 10.0	--	< 0.0055	C	< 10.0	--	< 0.0934	C	< 10.0	--	--	C	< 10.0	--	--	C	< 10.0	--	--	Grab	< 10.0	--	--	C
4-Methyl-2-pentanone	< 10.0	--	< 0.0055	C	< 10.0	--	< 0.0934	C	< 10.0	--	--	C	< 10.0	--	--	C	< 10.0	--	--	Grab	< 10.0	--	--	C
Acrolein	< 10.0	--	< 0.0055	C	< 10.0	--	< 0.0934	C	< 10.0	--	--	C	< 10.0	--	--	C	< 10.0	--	--	Grab	< 10.0	--	--	C
Acrylonitrile	< 5.00	--	< 0.0027	C	< 5.00	--	< 0.0467	C	< 5.00	--	--	C	< 5.00	--	--	C	< 5.00	--	--	Grab	< 5.00	--	--	C
Benzene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Bis (Chloromethyl) ether	< 10.00	--	0.0055	C	< 10.00	--	0.0934	C	< 10.00	--	--	C	< 10.00	--	--	C	< 10.00	--	--	C	< 10.00	--	--	C
Bromochloromethane (Dichlorobromoethane)	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Bromodichloromethane (Chlorodibromomethane)	1.49	--	0.0008	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Bromoform	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Bromomethane (Methyl Bromide)	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Carbon tetrachloride	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Chlorobenzene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Chloroethane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Chloroform	6.77	--	0.0037	C	1.11	--	0.0104	C	1.37	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Chloromethane (Methyl Chloride)	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
cis-1,2-Dichloroethene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
cis-1,3-Dichloropropene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Dibromochloromethane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Dibromomethane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Dichlorodifluorometha	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Ethylbenzene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
m,p-Xylene	< 2.00	--	< 0.0011	C	< 2.00	--	< 0.0187	C	< 2.00	--	--	C	< 2.00	--	--	C	< 2.00	--	--	Grab	< 2.00	--	--	C
Methyl tert-butyl ether	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Methylene chloride	< 5.00	--	< 0.0027	C	9.04	--	0.0844	C	< 5.00	--	--	C	< 5.00	--	--	C	< 5.00	--	--	Grab	< 5.00	--	--	C
Naphthalene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
o-Xylene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Styrene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
tert-Butylbenzene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Tetrachloroethene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Toluene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
trans-1,2-Dichloroethene (1,2-Tans-Dichloroethene)	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
trans-1,3-Dichloropropene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Trichloroethene	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Trichlorofluoromethane	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C
Vinyl chloride	< 1.00	--	< 0.0005	C	< 1.00	--	< 0.0093	C	< 1.00	--	--	C	< 1.00	--	--	C	< 1.00	--	--	Grab	< 1.00	--	--	C

Table 1
NPDES Sampling Results – June 2011

Outfall:	001S				002A				003				005				005				005			
Sample Date:	6/15/11				6/28/2011				6/17/11				6/17/11				6/18/11				6/19/11			
Flow/Day:		0.0658	MGD			1.12	MGD			0	MGD [1]			0	MGD [1]			0.02	MGD [1]			0.007	MGD [1]	
Units:	µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day	
Anions by IC																								
Bromide	--	< 0.500	< 0.2744	C	--	< 0.500	< 4.670	C	--	< 0.500	--	C	--	< 0.500	--	C	--	< 0.500	--	Grab	--	< 0.500	--	C
Fluoride	--	12.8	7.0243	C	--	4.37	40.819	C	--	< 0.50	--	C	--	5.01	--	C	--	5.71	--	Grab	--	4.61	--	C
N+N, as N	--	1.46	0.8012	C	--	< 1.00	< 9.341	C	--	< 1.00	--	C	--	4.30	--	C	--	< 1.00	--	Grab	--	< 1.00	--	C
Sulfate	--	4.63	2.5408	C	--	3.36	31.385	C	--	< 0.50	--	C	--	10.8	--	C	--	13.3	--	Grab	--	12.8	--	C
Total Alkalinity	--	245	134.4491	C	--	210	1961.568	C	--	160	--	C	--	245	--	C	--	260	--	Grab	--	270	--	C
Cyanide, WAD	--	< 0.010	< 0.0055	C	--	0.00410	0.038	C	--	< 0.0026	--	C	--	0.00280	--	C	--	< 0.0100	--	Grab	--	< 0.0100	--	C
Total Cyanide	--	0.0467	0.0256	C	--	0.0127	0.119	C	--	< 0.0100	--	C	--	0.0164	--	C	--	0.0174	--	Grab	--	< 0.0100	--	C
COD	--	23.6	12.9510	C	--	17.0	158.794	C	--	< 10.0	--	C	--	58.5	--	C	--	92.6	--	Grab	--	71.3	--	C
Color	--	14.0	--	C	--	>70	--	C	--	6.0	--	C	--	35.0	--	C	--	>70	--	Grab	--	>70	--	C
Surfactants - MBAS	--	< 0.025	< 0.0137	C	--	< 0.100	< 0.934	C	--	< 0.025	--	C	--	< 0.025	--	C	--	< 0.025	--	Grab	--	< 0.025	--	C
Ammonia as N	--	0.145	0.0796	C	--	0.164	1.532	C	--	0.551	--	C	--	0.140	--	C	--	0.790	--	Grab	--	0.564	--	C
Total Phosphorus	--	0.379	0.2080	C	--	0.306	2.858	C	--	0.304	--	C	--	0.252	--	C	--	0.595	--	Grab	--	0.429	--	C
Phenolics, Total Recoverable	--	< 0.05	< 0.0274	C	--	< 0.500	< 4.670	C	--	< 0.05	--	C	--	< 0.0500	--	C	--	0.127	--	Grab	--	0.0536	--	C
Sulfide	--	< 1.00	< 0.5488	C	--	< 1.00	< 9.341	C	--	< 1.00	--	C	--	< 1.00	--	C	--	< 1.00	--	Grab	--	< 1.00	--	C
Sulfite	--	< 3.00	< 1.6463	Grab	--	< 3.00	< 28.022	Grab	--	< 3.00	--	Grab	--	< 3.00	--	Grab	--	< 3.00	--	Grab	--	< 3.00	--	C
TKN	--	0.353	0.1937	C	--	0.425	3.970	C	--	0.332	--	C	--	1.66	--	C	--	2.62	--	Grab	--	0.912	--	C
TOC	--	7.08	3.8853	C	--	5.32	49.693	C	--	2.90	--	C	--	22.5	--	C	--	27.3	--	Grab	--	26.3	--	C
TSS	--	10.0	5.4877	C	--	< 5.0	< 46.704	C	--	< 5.00	--	C	--	102	--	C	--	39.0	--	Grab	--	65.0	--	C
BOD	--	< 2.00	< 1.0975	C	--	< 2.00	< 18.682	C	--	< 2.00	--	C	--	4.62	--	C	--	11.0	--	Grab	--	10.5	--	C
Fecal Coliform	--	< 2.00	--	Grab	--	20.0	--	Grab	--	< 2.00	--	Grab	--	< 2.00	--	Grab	--	< 2.00	--	Grab	--	25.0	--	C
Oil and Grease	--	< 4.80	< 2.6341	Grab	--	5.95	55.578	Grab	--	< 4.80	--	Grab	--	< 4.85	--	Grab	--	< 4.85	--	Grab	--	< 5.25	--	C
Hardess	--	152	83.4133	C	--	132	1232.986	C	--	152	--	C	--	174	--	C	--	174	--	Grab	--	185	--	C
Field Temperature ©	--	13.3 C	--	Grab	--	15.3 C	--	Grab	--	14.2 C	--	Grab	--	12.0 C	--	Grab	--	13.6 C	--	Grab	--	--	--	--
pH (SU)	--	18.3	--	Grab	--	7.84	--	Grab	--	7.70	--	Grab	--	7.24	--	Grab	--	6.99	--	Grab	--	--	--	--
Total Residual Chlorine	--	0.36	0.1976	Grab	--	0.05	0.4670	Grab	--	0.35	--	Grab	--	< 0.05	--	Grab	--	< 0.05	--	Grab	--	--	--	--

Table 1
NPDES Sampling Results – June 2011

Outfall:	006				006			
Sample Date:	6/18/2011				6/19/2011			
Flow/Day:		0	MGD [1]			0	MGD [1]	
Units:	µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day	
Metals								
Aluminum	371	--	--	Grab	50.9	--	--	C
Antimony	< 0.500	--	--	Grab	< 0.500	--	--	C
Arsenic	6.36	--	--	Grab	10.90	--	--	C
Barium	35.3	--	--	Grab	42.3	--	--	C
Beryllium	< 0.100	--	--	Grab	< 0.100	--	--	C
Boron	--	< 0.010	--	Grab	--	< 0.010	--	C
Cadmium	< 0.100	--	--	Grab	< 0.100	--	--	C
Chromium	0.728	--	--	Grab	0.295	--	--	C
Cobalt	6.75	--	--	Grab	23.00	--	--	C
Copper	1.30	--	--	Grab	4.74	--	--	C
Iron	15700	--	--	Grab	13700	--	--	C
Lead	< 0.100	--	--	Grab	< 0.100	--	--	C
Magnesium	6090	--	--	Grab	5600	--	--	C
Manganese	1710	--	--	Grab	1780	--	--	C
Molybdenum	6.17	--	--	Grab	< 0.500	--	--	C
Mercury	--	< 0.0001	--	Grab	--	< 0.0001	--	C
Nickel	6.75	--	--	Grab	12.40	--	--	C
Selenium	< 1.000	--	--	Grab	< 1.000	--	--	C
Silver	< 0.100	--	--	Grab	< 0.100	--	--	C
Thallium	< 0.500	--	--	Grab	< 0.500	--	--	C
Tin	--	< 0.02	--	Grab	--	< 0.02	--	C
Titanium	--	0.007	--	Grab	--	< 0.005	--	C
Zinc	2.48	--	--	Grab	10.0	--	--	C
Base/Neutrals/Acids								
1,2,4-Trichlorobenzene	< 4.78	--	--	Grab	< 4.78	--	--	C
1,2-Dichlorobenzene	< 4.78	--	--	Grab	< 4.78	--	--	C
1,2-Diphenylhydrazine	< 4.78	--	--	Grab	< 4.78	--	--	C
1,3-Dichlorobenzene	< 4.78	--	--	Grab	< 4.78	--	--	C
1,4-Dichlorobenzene	< 4.78	--	--	Grab	< 4.78	--	--	C
2,4,6-Trichlorophenol	< 4.78	--	--	Grab	< 4.78	--	--	C
2,4-Dichlorophenol	< 9.56	--	--	Grab	< 9.55	--	--	C
2,4-Dimethylphenol	< 4.78	--	--	Grab	< 4.78	--	--	C
2,4-Dinitrophenol	< 9.56	--	--	Grab	< 9.55	--	--	C
2,4-Dinitrotoluene	< 4.78	--	--	Grab	< 4.78	--	--	C
2,6-Dinitrotoluene	< 4.78	--	--	Grab	< 4.78	--	--	C
2-Chloronaphthalene	< 4.78	--	--	Grab	< 4.78	--	--	C
2-Chlorophenol	< 4.78	--	--	Grab	< 4.78	--	--	C
2-Nitrophenol	< 4.78	--	--	Grab	< 4.78	--	--	C
3,3´-Dichlorobenzidine	< 4.78	--	--	Grab	< 4.78	--	--	C
3,4-Benzofluoranthene	< 4.78	--	--	Grab	< 4.78	--	--	C
4,6-Dinitro-2-methylphenol (4,6-Dinitro-O-cresol)	< 9.56	--	--	Grab	< 9.55	--	--	C
4-Bromophenyl phenyl ether	< 4.78	--	--	Grab	< 4.78	--	--	C
4-Chloro-3-methylphenol	< 4.78	--	--	Grab	< 4.78	--	--	C

Table 1
NPDES Sampling Results – June 2011

Outfall:	006				006			
Sample Date:	6/18/2011				6/19/2011			
Flow/Day:		0	MGD [1]			0	MGD [1]	
Units:	µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day	
Base/Neutrals/Acids (continued)								
4-Chlorophenyl phenyl ether	< 4.78	--	--	Grab	< 4.78	--	--	C
4-Nitrophenol	< 4.78	--	--	Grab	< 4.78	--	--	C
Acenaphthene	< 4.78	--	--	Grab	< 4.78	--	--	C
Acenaphthylene	< 4.78	--	--	Grab	< 4.78	--	--	C
Aniline	< 4.78	--	--	Grab	< 4.78	--	--	C
Anthracene	< 4.78	--	--	Grab	< 4.78	--	--	C
Benz(a)anthracene	< 4.78	--	--	Grab	< 4.78	--	--	C
Benzidine	< 4.78	--	--	Grab	< 4.78	--	--	C
Benzo(a)pyrene	< 4.78	--	--	Grab	< 4.78	--	--	C
Benzo(b)fluoranthene	< 4.78	--	--	Grab	< 4.78	--	--	C
Benzo(g,h,i)perylene	< 4.78	--	--	Grab	< 4.78	--	--	C
Benzo(k)fluoranthene	< 4.78	--	--	Grab	< 4.78	--	--	C
Benzoic Acid	< 19.1	--	--	Grab	< 19.1	--	--	C
Bis(2-chloroethoxy)methane	< 4.78	--	--	Grab	< 4.78	--	--	C
Bis(2-chloroethyl)ether	< 4.78	--	--	Grab	< 4.78	--	--	C
Bis(2-chloroisopropyl)ether	< 4.78	--	--	Grab	< 4.78	--	--	C
Bis(2-ethylhexyl)phthalate	< 4.78	--	--	Grab	< 4.78	--	--	C
Butyl benzyl phthalate	< 4.78	--	--	Grab	< 4.78	--	--	C
Carbazole	< 4.78	--	--	Grab	< 4.78	--	--	C
Chrysene	< 4.78	--	--	Grab	< 4.78	--	--	C
Di-n-butyl phthalate	< 4.78	--	--	Grab	< 4.78	--	--	C
Di-n-octyl phthalate	< 4.78	--	--	Grab	< 4.78	--	--	C
Dibenz(a,h)anthracene	< 4.78	--	--	Grab	< 4.78	--	--	C
Diethyl phthalate	< 4.78	--	--	Grab	< 4.78	--	--	C
Dimethyl phthalate	< 4.78	--	--	Grab	< 4.78	--	--	C
Fluoranthene	< 4.78	--	--	Grab	< 4.78	--	--	C
Fluorene	< 4.78	--	--	Grab	< 4.78	--	--	C
Hexachlorobenzene	< 4.78	--	--	Grab	< 4.78	--	--	C
Hexachlorobutadiene	< 4.78	--	--	Grab	< 4.78	--	--	C
Hexachlorocyclopentadiene	< 4.78	--	--	Grab	< 4.78	--	--	C
Hexachloroethane	< 4.78	--	--	Grab	< 4.78	--	--	C
Indeno(1,2,3-cd)pyrene	< 4.78	--	--	Grab	< 4.78	--	--	C
Isophorone	< 4.78	--	--	Grab	< 4.78	--	--	C
N-Nitrosodi-n-propylamine	< 4.78	--	--	Grab	< 4.78	--	--	C
N-Nitrosodimethylamine	< 4.78	--	--	Grab	< 4.78	--	--	C
N-Nitrosodiphenylamine	< 4.78	--	--	Grab	< 4.78	--	--	C
Naphthalene	< 4.78	--	--	Grab	< 4.78	--	--	C
Nitrobenzene	< 4.78	--	--	Grab	< 4.78	--	--	C
o-Cresol	< 4.78	--	--	Grab	< 4.78	--	--	C
p-Cresol	< 4.78	--	--	Grab	< 4.78	--	--	C
Pentachlorophenol	< 9.56	--	--	Grab	< 9.55	--	--	C
Phenanthrene	< 4.78	--	--	Grab	< 4.78	--	--	C
Phenol	< 4.78	--	--	Grab	< 4.78	--	--	C
Pyrene	< 4.78	--	--	Grab	< 4.78	--	--	C
Pyridine	< 9.56	--	--	Grab	< 9.55	--	--	C

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Outfall:	006				006			
Sample Date:	6/18/2011				6/19/2011			
Flow/Day:		0	MGD [1]			0	MGD [1]	
Units:	µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day	
Pesticides/PCBs								
4,4'-DDD	< 0.0191	--	--	Grab	< 0.0191	--	--	C
4,4'-DDE	< 0.0191	--	--	Grab	< 0.0191	--	--	C
4,4'-DDT	< 0.0191	--	--	Grab	< 0.0191	--	--	C
Aldrin	< 0.0191	--	--	Grab	< 0.0191	--	--	C
a-BHC	< 0.0191	--	--	Grab	< 0.0191	--	--	C
b-BHC	< 0.0191	--	--	Grab	< 0.0191	--	--	C
g-BHC	< 0.0191	--	--	Grab	< 0.0191	--	--	C
d-BHC	< 0.0191	--	--	Grab	< 0.0191	--	--	C
Aroclor 1016	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1221	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1232	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1242	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1248	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1254	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Aroclor 1260	< 0.0381	--	--	Grab	< 0.0382	--	--	C
Chlordane	< 0.191	--	--	Grab	< 0.191	--	--	C
Dieldrin	< 0.0191	--	--	Grab	< 0.0191	--	--	C
Endosulfan I	< 0.0191	--	--	Grab	< 0.0191	--	--	C
Endosulfan II	< 0.0191	--	--	Grab	< 0.0191	--	--	C
Endosulfan Sulfate	< 0.0191	--	--	Grab	< 0.0191	--	--	C
Endrin	< 0.0191	--	--	Grab	< 0.0191	--	--	C
Endrin Aldehyde	< 0.0191	--	--	Grab	< 0.0191	--	--	C
Heptachlor	< 0.0191	--	--	Grab	< 0.0191	--	--	C
Heptachlor Epoxide	< 0.0191	--	--	Grab	< 0.0191	--	--	C
Toxaphene	< 0.191	--	--	Grab	< 0.191	--	--	C
VOCs/Purgeables								
1,1,1,2-Tetrachloroethane	< 1.00	--	--	Grab	< 1.00	--	--	C
1,1,1-Trichloroethane	< 1.00	--	--	Grab	< 1.00	--	--	C
1,1,2,2-Tetrachloroethane	< 1.00	--	--	Grab	< 1.00	--	--	C
1,1,2-Trichloroethane	< 1.00	--	--	Grab	< 1.00	--	--	C
1,1-Dichloroethane	< 1.00	--	--	Grab	< 1.00	--	--	C
1,1-Dichloroethene (1,1-Dichloroethlene)	< 1.00	--	--	Grab	< 1.00	--	--	C
1,2,3-Trichloropropane	< 1.00	--	--	Grab	< 1.00	--	--	C
1,2,4-Trichlorobenzene	< 1.00	--	--	Grab	< 1.00	--	--	C
1,2-Dibromoethane	< 1.00	--	--	Grab	< 1.00	--	--	C
1,2-Dichlorobenzene	< 1.00	--	--	Grab	< 1.00	--	--	C

Table 1
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Outfall:	006				006			
Sample Date:	6/18/2011				6/19/2011			
Flow/Day:		0	MGD [1]			0	MGD [1]	
Units:	µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day	
VOCs/Purgeables (continued)								
1,2-Dichloroethane	< 1.00	--	--	Grab	< 1.00	--	--	C
1,2-Dichloropropane	< 1.00	--	--	Grab	< 1.00	--	--	C
1,3-Dichlorobenzene	< 1.00	--	--	Grab	< 1.00	--	--	C
1,4-Dichlorobenzene	< 1.00	--	--	Grab	< 1.00	--	--	C
2-Butanone	< 10.0	--	--	Grab	< 10.0	--	--	C
2-Chloroethyl vinyl ether	< 10.0	--	--	Grab	< 10.0	--	--	C
4-Methyl-2-pentanone	< 10.0	--	--	Grab	< 10.0	--	--	C
Acrolein	< 10.0	--	--	Grab	< 10.0	--	--	C
Acrylonitrile	< 5.00	--	--	Grab	< 5.00	--	--	C
Benzene	< 1.00	--	--	Grab	< 1.00	--	--	C
Bis (Chloromethyl) ether	< 10.00	--	--	C	< 10.00	--	--	C
Bromochloromethane (Dichlorobromoethane)	< 1.00	--	--	Grab	< 1.00	--	--	C
Bromodichloromethane (Chlorodibromomethane)	< 1.00	--	--	Grab	< 1.00	--	--	C
Bromoform	< 1.00	--	--	Grab	< 1.00	--	--	C
Bromomethane (Methyl Bromide)	< 1.00	--	--	Grab	< 1.00	--	--	C
Carbon tetrachloride	< 1.00	--	--	Grab	< 1.00	--	--	C
Chlorobenzene	< 1.00	--	--	Grab	< 1.00	--	--	C
Chloroethane	< 1.00	--	--	Grab	< 1.00	--	--	C
Chloroform	< 1.00	--	--	Grab	< 1.00	--	--	C
Chloromethane (Methyl Chloride)	< 1.00	--	--	Grab	< 1.00	--	--	C
cis-1,2-Dichloroethene	< 1.00	--	--	Grab	< 1.00	--	--	C
cis-1,3-Dichloropropene	< 1.00	--	--	Grab	< 1.00	--	--	C
Dibromochloromethane	< 1.00	--	--	Grab	< 1.00	--	--	C
Dibromomethane	< 1.00	--	--	Grab	< 1.00	--	--	C
Dichlorodifluorometha	< 1.00	--	--	Grab	< 1.00	--	--	C
Ethylbenzene	< 1.00	--	--	Grab	< 1.00	--	--	C
m,p-Xylene	< 2.00	--	--	Grab	< 2.00	--	--	C
Methyl tert-butyl ether	< 1.00	--	--	Grab	< 1.00	--	--	C
Methylene chloride	< 5.00	--	--	Grab	< 5.00	--	--	C
Naphthalene	< 1.00	--	--	Grab	< 1.00	--	--	C
o-Xylene	< 1.00	--	--	Grab	< 1.00	--	--	C
Styrene	< 1.00	--	--	Grab	< 1.00	--	--	C
tert-Butylbenzene	< 1.00	--	--	Grab	< 1.00	--	--	C
Tetrachloroethene	< 1.00	--	--	Grab	< 1.00	--	--	C
Toluene	< 1.00	--	--	Grab	< 1.00	--	--	C
trans-1,2-Dichloroethene (1,2-Tans-Dichloroethene)	< 1.00	--	--	Grab	< 1.00	--	--	C
trans-1,3-Dichloropropene	< 1.00	--	--	Grab	< 1.00	--	--	C
Trichloroethene	< 1.00	--	--	Grab	< 1.00	--	--	C
Trichlorofluoromethane	< 1.00	--	--	Grab	< 1.00	--	--	C
Vinyl chloride	< 1.00	--	--	Grab	< 1.00	--	--	C

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Outfall:	006				006			
Sample Date:	6/18/2011				6/19/2011			
Flow/Day:		0	MGD [1]			0	MGD [1]	
Units:	µg/L	mg/L	lbs/day		µg/L	mg/L	lbs/day	
Anions by IC								
Bromide	--	< 0.500	--	Grab	--	< 0.500	--	C
Fluoride	--	< 0.500	--	Grab	--	< 0.500	--	C
N+N, as N	--	< 1.00	--	Grab	--	< 1.00	--	C
Sulfate	--	7.41	--	Grab	--	5.83	--	C
Total Alkalinity	--	80.0	--	Grab	--	75.0	--	C
Cyanide, WAD	--	< 0.0100	--	Grab	--	< 0.0100	--	C
Total Cyanide	--	< 0.0100	--	Grab	--	< 0.0100	--	C
COD	--	32.0	--	Grab	--	25.7	--	C
Color	--	>70	--	Grab	--	>70	--	C
Surfactants - MBAS	--	< 0.025	--	Grab	--	< 0.025	--	C
Ammonia as N	--	0.583	--	Grab	--	0.515	--	C
Total Phosphorus	--	1.37	--	Grab	--	1.14	--	C
Phenolics, Total Recoverable	--	< 0.05	--	Grab	--	< 0.05	--	C
Sulfide	--	< 1.00	--	Grab	--	< 1.00	--	C
Sulfite	--	< 3.00	--	Grab	--	< 3.00	--	C
TKN	--	1.37	--	Grab	--	1.11	--	C
TOC	--	10.5	--	Grab	--	9.3	--	C
TSS	--	5.00	--	Grab	--	16.0	--	C
BOD	--	< 8.00	--	Grab	--	3.11	--	C
Fecal Coliform	--	< 2.00	--	Grab	--	< 2.00	--	C
Oil and Grease	--	< 4.90	--	Grab	--	< 5.20	--	C
Hardess	--	68.2	--	Grab	--	71.1	--	C
Field Temperature ©	--	14.7 C	--	Grab	--	--	--	--
pH (SU)	--	6.41	--	Grab	--	--	--	--
Total Residual Chlorine	--	< 0.05	--	Grab	--	--	--	--

Notes:

<	Not detected; the value presented is the detection level of the analytical method
1	flow estimated from rainfall
C	Time-weighted Composite Sample
Grab	grab sample
IC	ion chromatography
MGD	million gallons per day
lbs/day	pounds per day
µg/L	micrograms per liter
mg/L	milligrams per liter
NPDES	National Pollutant Discharge Elimination System
PCBs	polychlorinate biphenyls
SU	standard unit
VOCs	volatile organic compounds

APPENDIX A-2
CASE NARRATIVE

Specialty Analytical **Date:** *29-Aug-11*

CLIENT: Millennium Bulk Terminal-Longview
Project: Permit Application
Lab Order: 1106198

CASE NARRATIVE

Report Revision 1

This report includes the original results with the addition of Bis (Chloromethyl) ether which was not reported on the original report.

Case Narrative

For Weak Acid Dissociable Cyanide (WAD) by SM4500 CN-I requested by the client, the Reporting Limit (RL) referenced in the body of the report is the Method Detection Limit (MDL).

Methylene Chloride was detected at approximately 10 ug/L in client sample(s). The Method Blank showed a positive detection of Methylene Chloride at levels just below the laboratory Reporting Limit (RL). The level of Methylene Chloride in the client samples is likely due to laboratory background.

APPENDIX A-3
PERMIT ANALYTICAL DATA
(JANUARY 2006 – JUNE 2011)

Millennium Bulk Terminals - Longview, LLC
Outfall 001 Data
January 2006 - June 2011

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
1/1/2006																Replaced ND with the following RL's:
1/2/2006																
1/3/2006	0.050	0.260														BOD = 4 mg/L
1/4/2006	0.047	0.210				7.90						0.197	0.50			TSS = 5 mg/L
1/5/2006	0.040	0.000														Fecal Coliform = 2 MPN/100
1/6/2006	0.046	0.630														
1/7/2006																
1/8/2006																
1/9/2006	0.050	0.720														
1/10/2006	0.067	0.430														
1/11/2006	0.076	0.250				8.00						0.317	0.50			
1/12/2006	0.070	0.110														
1/13/2006	0.061	0.310														
1/14/2006																
1/15/2006																
1/16/2006	0.059	0.840														
1/17/2006	0.059	0.750														
1/18/2006	0.059	0.260				8.10		< 4	< 1.95	14	6.90	0.244	0.50			
1/19/2006	0.042	0.040														
1/20/2006	0.052	0.850														
1/21/2006																
1/22/2006																
1/23/2006	0.049	0.140														
1/24/2006	0.053	0.000														
1/25/2006	0.035	0.000				7.80						0.147	0.50			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
1/26/2006	0.045	0.000														
1/27/2006	0.046	0.440														
1/28/2006																
1/29/2006																
1/30/2006	0.060	2.850														
1/31/2006	0.057	0.060														
2/1/2006	0.065	0.510														
2/2/2006	0.055	0.000				7.90				14	6.50	0.231	0.50			
2/3/2006	0.051	0.000														
2/4/2006																
2/5/2006																
2/6/2006	0.052	1.320														
2/7/2006	0.045	0.000														
2/8/2006	0.045	0.040				7.90		< 4	< 1.50	18	6.80	0.225	0.60			
2/9/2006	0.044	0.000														
2/10/2006	0.044	0.000														
2/11/2006																
2/12/2006																
2/13/2006	0.043	0.050														
2/14/2006	0.042	0.150														
2/15/2006	0.041	0.000				8.00						0.171	0.50			
2/16/2006	0.042	0.000														
2/17/2006	0.040	0.000														
2/18/2006																
2/19/2006																
2/20/2006	0.046	0.000														
2/21/2006	0.050	0.040														
2/22/2006	0.050	0.020				8.00						0.125	0.30			
2/23/2006	0.046	0.130														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
2/24/2006	0.048	0.500														
2/25/2006																
2/26/2006																
2/27/2006	0.087	0.310														
2/28/2006	0.100	0.490														
3/1/2006	0.102	0.020				7.40				8	6.80	0.764	0.90			
3/2/2006	0.073	0.000														
3/3/2006	0.040	0.000														
3/4/2006																
3/5/2006																
3/6/2006	0.038	0.080														
3/7/2006	0.053	0.330														
3/8/2006	0.058	0.020				8.20		< 4	< 1.94	12	5.80	0.194	0.40			
3/9/2006	0.048	0.250														
3/10/2006	0.043	1.400														
3/11/2006																
3/12/2006																
3/13/2006	0.039	0.100														
3/14/2006	0.039	0.020														
3/15/2006	0.036	0.110				8.30						0.152	0.50			
3/16/2006	0.037	0.120														
3/17/2006	0.036	0.130														
3/18/2006																
3/19/2006																
3/20/2006	0.053	0.060														
3/21/2006	0.039	0.040														
3/22/2006	0.036	0.040				8.20						0.180	0.60			
3/23/2006	0.035	0.000														
3/24/2006	0.036	0.190														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
3/25/2006																
3/26/2006																
3/27/2006	0.035	0.260														
3/28/2006	0.038	0.010														
3/29/2006	0.035	0.000				8.20						0.117	0.40			
3/30/2006	0.034	0.000														
3/31/2006	0.035	0.000														
4/1/2006																
4/2/2006																
4/3/2006	0.037	0.910														
4/4/2006	0.074	0.080														
4/5/2006	0.035	0.000				8.20						0.146	0.50			
4/6/2006	0.032	0.000														
4/7/2006	0.035	0.000														
4/8/2006																
4/9/2006																
4/10/2006	0.035	0.590														
4/11/2006	0.034	0.000														
4/12/2006	0.038	0.090				8.40		< 4	< 1.27	8	2.60	0.096	0.30		< 2	
4/13/2006	0.032	0.000														
4/14/2006																
4/15/2006																
4/16/2006																
4/17/2006	0.035	0.700														
4/18/2006	0.036	0.070														
4/19/2006	0.036	0.000				8.10						0.152	0.50			
4/20/2006	0.034	0.000														
4/21/2006	0.035	0.000														
4/22/2006																

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
4/23/2006																
4/24/2006	0.072	0.000														
4/25/2006	0.075	0.000														
4/26/2006	0.082	0.000				8.20						0.344	0.50			
4/27/2006	0.041	0.000														
4/28/2006	0.028	0.000														
4/29/2006																
4/30/2006																
5/1/2006	0.036	0.000														
5/2/2006	0.036	0.000														
5/3/2006	0.040	0.000				8.20						0.167	0.50			
5/4/2006	0.030	0.000														
5/5/2006	0.038	0.000														
5/6/2006																
5/7/2006																
5/8/2006	0.036	0.450														
5/9/2006	0.038	0.000														
5/10/2006	0.036	0.000				8.30				6	1.80	0.180	0.60			
5/11/2006	0.041	0.000														
5/12/2006	0.039	0.000														
5/13/2006																
5/14/2006																
5/15/2006	0.038	0.000														
5/16/2006	0.035	0.000				8.20						0.117	0.40			
5/17/2006	0.038	0.000														
5/18/2006	0.051	0.000														
5/19/2006	0.033	0.000														
5/20/2006																
5/21/2006																

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
5/22/2006		0.920														
5/23/2006	0.044	0.720				8.30				8	2.90	0.255	0.70			
5/24/2006	0.046	0.340														
5/25/2006	0.057	0.190														
5/26/2006	0.051	0.470														
5/27/2006																
5/28/2006																
5/29/2006																
5/30/2006	0.049	0.600														
5/31/2006	0.043	0.000				8.30						0.181	0.50			
6/1/2006	0.050	0.020														
6/2/2006	0.043	0.490														
6/3/2006																
6/4/2006																
6/5/2006	0.044	0.300														
6/6/2006	0.043	0.000				8.30		< 4	< 1.43	8	2.90	0.178	0.50		< 2	
6/7/2006	0.041	0.000														
6/8/2006	0.043	0.000														
6/9/2006	0.038	0.030														
6/10/2006																
6/11/2006																
6/12/2006	0.040	0.000														
6/13/2006	0.033	0.180				8.20						0.138	0.50			
6/14/2006	0.048	0.010														
6/15/2006	0.028	0.070														
6/16/2006	0.046	0.040														
6/17/2006																
6/18/2006																
6/19/2006	0.037	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
6/20/2006	0.034	0.000				8.30				7	2.00	0.141	0.50			
6/21/2006	0.038	0.000														
6/22/2006	0.039	0.000														
6/23/2006	0.038	0.000														
6/24/2006																
6/25/2006																
6/26/2006	0.037	0.000														
6/27/2006	0.042	0.000														
6/28/2006	0.039	0.000														
6/29/2006	0.041	0.000														
6/30/2006	0.038	0.000				8.20						0.095	0.30			
7/1/2006																
7/2/2006																
7/3/2006																
7/4/2006																
7/5/2006	0.036	0.000				8.30				7	2.10	0.090	0.30			
7/6/2006	0.036	0.000														
7/7/2006	0.036	0.000														
7/8/2006																
7/9/2006																
7/10/2006	0.035	0.000														
7/11/2006	0.037	0.000				8.30						0.123	0.40			
7/12/2006	0.035	0.240														
7/13/2006	0.036	0.080														
7/14/2006	0.036	0.000														
7/15/2006																
7/16/2006																
7/17/2006	0.035	0.000														
7/18/2006	0.041	0.000				8.50				6	2.00	0.136	0.40			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
7/19/2006	0.033	0.000				8.30										
7/20/2006	0.040	0.000														
7/21/2006	0.041	0.000														
7/22/2006																
7/23/2006																
7/24/2006	0.035	0.000														
7/25/2006	0.027	0.000				8.20						0.069	0.30			
7/26/2006	0.031	0.000														
7/27/2006	0.027	0.000														
7/28/2006	0.034	0.000														
7/29/2006																
7/30/2006																
7/31/2006	0.026	0.050														
8/1/2006	0.031	0.000				8.30						0.104	0.40		< 2	
8/2/2006	0.018	0.000														
8/3/2006	0.024	0.000														
8/4/2006	0.022	0.000														
8/5/2006																
8/6/2006																
8/7/2006	0.023	0.000														
8/8/2006	0.064	0.000				8.90						0.053	0.10			
8/9/2006	0.053	0.050				8.40						0.267	0.60			
8/10/2006	0.053	0.000														
8/11/2006	0.048	0.000														
8/12/2006																
8/13/2006																
8/14/2006	0.051	0.000														
8/15/2006	0.038	0.000														
8/16/2006	0.026	0.000				8.00						0.106	0.50			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
8/17/2006	0.028	0.000														
8/18/2006	0.027	0.000														
8/19/2006																
8/20/2006																
8/21/2006	0.027	0.000														
8/22/2006	0.029	0.000				8.20						0.073	0.30			
8/23/2006	0.026	0.000														
8/24/2006	0.031	0.000														
8/25/2006	0.027	0.000														
8/26/2006																
8/27/2006																
8/28/2006	0.028	0.000														
8/29/2006	0.029	0.000				8.20						0.097	0.40			
8/30/2006	0.031	0.510														
8/31/2006	0.030	0.000														
9/1/2006	0.032	0.000														
9/2/2006																
9/3/2006																
9/4/2006																
9/5/2006	0.032	0.000				8.30				< 5	< 1.35	0.054	0.20			
9/6/2006	0.022	0.000														
9/7/2006	0.027	0.000														
9/8/2006	0.030	0.000														
9/9/2006																
9/10/2006																
9/11/2006	0.029	0.020														
9/12/2006	0.032	0.000				8.20						0.080	0.30			
9/13/2006	0.028	0.000														
9/14/2006	0.035	0.180														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
9/15/2006	0.024	0.000														
9/16/2006																
9/17/2006																
9/18/2006	0.030	0.760														
9/19/2006	0.027	0.180				8.20				< 5	< 1.14	0.091	0.40			
9/20/2006	0.030	0.030														
9/21/2006	0.031	0.380														
9/22/2006	0.026	0.010														
9/23/2006																
9/24/2006																
9/25/2006	0.028	0.000														
9/26/2006	0.027	0.000				8.00						0.180	0.80			
9/27/2006	0.028	0.000														
9/28/2006	0.026	0.000														
9/29/2006	0.059	0.000														
9/30/2006																
10/1/2006																
10/2/2006	0.026	0.000														
10/3/2006	0.027	0.000														
10/4/2006	0.025	0.000														
10/5/2006	0.022	0.000														
10/6/2006	0.027	0.070				8.10		< 4	< 0.88	< 5	< 1.11	0.133	0.60		< 2	
10/7/2006																
10/8/2006																
10/9/2006	0.027	0.170														
10/10/2006	0.027	0.000				8.10						0.112	0.50			
10/11/2006	0.027	0.000														
10/12/2006	0.026	0.000														
10/13/2006	0.026	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
10/14/2006																
10/15/2006																
10/16/2006	0.026	0.530														
10/17/2006	0.025	0.030				8.10				< 5	< 1.06	0.148	0.70			
10/18/2006	0.026	0.010														
10/19/2006	0.017	0.350														
10/20/2006	0.037	0.030														
10/21/2006																
10/22/2006																
10/23/2006	0.027	0.010														
10/24/2006	0.026	0.040				8.00						0.217	1.00			
10/25/2006	0.027	0.370														
10/26/2006	0.028	0.010														
10/27/2006	0.027	0.000														
10/28/2006																
10/29/2006																
10/30/2006	0.026	0.070														
10/31/2006	0.027	0.000				8.10						0.239	1.08			
11/1/2006	0.026	0.000										0.110	0.50			
11/2/2006	0.027	0.280														
11/3/2006	0.029	0.710										0.195	0.80			
11/4/2006																
11/5/2006																
11/6/2006	0.047	4.970														
11/7/2006	0.086	3.060				8.00				13	9.40	0.144	0.20			
11/8/2006	0.062	0.380														
11/9/2006	0.050	0.340														
11/10/2006	0.033	0.160														
11/11/2006																

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
11/12/2006																
11/13/2006	0.047	1.490														
11/14/2006	0.043	0.320				8.10						0.215	0.60			
11/15/2006	0.041	0.000														
11/16/2006	0.040	0.250														
11/17/2006	0.040	0.000														
11/18/2006																
11/19/2006																
11/20/2006	0.038	0.320				8.20				< 5	< 1.57	0.157	0.50			
11/21/2006	0.040	0.550														
11/22/2006	0.042	0.340														
11/23/2006																
11/24/2006																
11/25/2006																
11/26/2006																
11/27/2006	0.047	2.720														
11/28/2006	0.045	0.100				8.10						0.226	0.60			
11/29/2006	0.057	0.060														
11/30/2006	0.057	0.230														
12/1/2006	0.056	0.050														
12/2/2006																
12/3/2006																
12/4/2006	0.053	0.010														
12/5/2006	0.050	0.020														
12/6/2006	0.046	0.000														
12/7/2006	0.048	0.000				8.00		< 4	< 1.60	< 5	< 2.00	0.280	0.70		< 2	
12/8/2006	0.048	0.000														
12/9/2006																
12/10/2006																

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
12/11/2006	0.049	0.320														
12/12/2006	0.051	0.630				8.10						0.211	0.50			
12/13/2006	0.055	0.740														
12/14/2006	0.050	0.340														
12/15/2006	0.101	1.380														
12/16/2006																
12/17/2006																
12/18/2006	0.060	0.140				7.90				13	6.50	0.200	0.40			
12/19/2006	0.075	0.000														
12/20/2006	0.089	0.010														
12/21/2006	0.095	0.570														
12/22/2006	0.048	0.290														
12/23/2006																
12/24/2006																
12/25/2006																
12/26/2006	0.041	1.380				8.10						0.135	0.40			
12/27/2006	0.057	0.810														
12/28/2006	0.047	0.000														
12/29/2006	0.048	0.000														
12/30/2006																
1/1/2007																
1/2/2007	0.049	0.080				8.20				18	7.40	0.123	0.30			
1/3/2007	0.069	2.020														
1/4/2007	0.060	0.240														
1/5/2007	0.054	0.080														
1/6/2007																
1/7/2007																
1/8/2007	0.068	2.670														
1/9/2007	0.055	0.020				8.00						0.185	0.40			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
1/10/2007	0.053	0.340														
1/11/2007	0.052	0.150														
1/12/2007	0.052	0.030														
1/13/2007																
1/14/2007																
1/15/2007	0.051	0.000														
1/16/2007	0.047	0.030				8.10				15	5.80	0.233	0.60			
1/17/2007	0.046	0.020														
1/18/2007	0.047	0.070														
1/19/2007	0.053	0.100														
1/20/2007																
1/21/2007																
1/22/2007	0.057	0.230														
1/23/2007	0.055	0.010				8.00						0.275	0.60			
1/24/2007	0.053	0.000														
1/25/2007	0.046	0.000														
1/26/2007	0.044	0.000														
1/27/2007																
1/28/2007																
1/29/2007	0.041	0.020														
1/30/2007	0.042	0.000				8.10						0.175	0.50			
1/31/2007	0.042	0.000														
2/1/2007	0.042	0.000														
2/2/2007	0.044	0.000														
2/3/2007																
2/4/2007																
2/5/2007	0.044	0.210														
2/6/2007	0.045	0.010														
2/7/2007	0.042	0.010														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
2/8/2007	0.046	0.170				8.10		< 4	< 1.52	10	3.80	0.342	0.90		< 2	
2/9/2007	0.044	0.150														
2/10/2007																
2/11/2007																
2/12/2007	0.044	0.080														
2/13/2007	0.042	0.030				8.10						0.278	0.80			
2/14/2007	0.039	0.070														
2/15/2007	0.048	1.080														
2/16/2007	0.047	0.390														
2/17/2007																
2/18/2007																
2/19/2007	0.043	0.390														
2/20/2007	0.053	1.350				8.10				13	5.80	0.133	0.30			
2/21/2007	0.058	0.330														
2/22/2007	0.057	0.010														
2/23/2007	0.042	0.230														
2/24/2007																
2/25/2007																
2/26/2007	0.048	0.420														
2/27/2007	0.049	0.260				8.00						0.245	0.60			
2/28/2007	0.053	0.360														
3/1/2007	0.050	0.290														
3/2/2007	0.050	0.150														
3/3/2007																
3/4/2007																
3/5/2007	0.049	0.150														
3/6/2007	0.043	0.000				8.00				26	9.40	0.144	0.40			
3/7/2007	0.043	0.110														
3/8/2007	0.047	0.220														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
3/9/2007	0.054	0.010														
3/10/2007																
3/11/2007																
3/12/2007	0.055	0.560														
3/13/2007	0.058	0.000				8.00						0.240	0.50			
3/14/2007	0.057	0.090														
3/15/2007	0.056	0.000														
3/16/2007	0.088	0.000														
3/17/2007																
3/18/2007																
3/19/2007	0.055	0.070														
3/20/2007	0.054	0.440				8.00				11	4.90	0.269	0.60			
3/21/2007	0.055	0.030														
3/22/2007	0.053	0.010														
3/23/2007	0.044	0.020														
3/24/2007																
3/25/2007																
3/26/2007	0.054	1.060														
3/27/2007	0.054	0.041				8.10						0.268	0.60			
3/28/2007	0.060	0.010														
3/29/2007	0.050	0.000														
3/30/2007	0.055	0.000														
4/1/2007																
4/2/2007	0.053	0.120														
4/3/2007	0.037	0.010														
4/4/2007	0.051	0.010														
4/5/2007	0.048	0.000				7.80		< 4	< 1.60	5	2.00	0.160	0.40		< 2	
4/6/2007																
4/7/2007																

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
4/8/2007																
4/9/2007	0.050	1.270														
4/10/2007	0.054	0.550				7.80						0.136	0.30			
4/11/2007	0.053	0.030														
4/12/2007	0.053	0.100														
4/13/2007	0.051	0.110														
4/14/2007																
4/15/2007																
4/16/2007	0.051	0.090														
4/17/2007	0.052	0.100				8.00				9	3.90	0.173	0.40			
4/18/2007	0.049	0.130														
4/19/2007	0.048	0.040														
4/20/2007	0.048	0.000														
4/21/2007																
4/22/2007																
4/23/2007	0.047	0.110														
4/24/2007	0.045	0.050				8.10						0.188	0.50			
4/25/2007	0.046	0.090														
4/26/2007	0.046	0.010														
4/27/2007	0.040	0.000														
4/28/2007																
4/29/2007																
4/30/2007	0.038	0.000														
5/1/2007	0.038	0.170														
5/2/2007	0.037	0.130				8.10				< 5	< 1.55	0.155	0.50			
5/3/2007	0.039	0.280														
5/4/2007	0.040	0.370														
5/5/2007																
5/6/2007																

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
5/7/2007	0.038	0.000														
5/8/2007	0.038	0.000				8.20						0.127	0.40			
5/9/2007	0.039	0.000														
5/10/2007	0.038	0.000														
5/11/2007	0.039	0.000														
5/12/2007																
5/13/2007																
5/14/2007	0.037	0.000														
5/15/2007	0.024	0.000				8.20				8	1.60	0.040	0.20			
5/16/2007	0.042	0.000														
5/17/2007	0.036	0.000														
5/18/2007	0.036	0.000														
5/19/2007																
5/20/2007																
5/21/2007	0.034	0.750														
5/22/2007	0.036	0.000				8.10						0.091	0.30			
5/23/2007	0.065	0.000														
5/24/2007	0.070	0.000														
5/25/2007	0.074	0.000														
5/26/2007																
5/27/2007																
5/28/2007																
5/29/2007	0.067	0.020														
5/30/2007	0.048	0.000				8.10						0.121	0.30			
5/31/2007	0.048	0.000														
6/1/2007	0.046	0.000														
6/2/2007																
6/3/2007																
6/4/2007	0.034	0.020														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
6/5/2007	0.035	0.170														
6/6/2007	0.034	0.020														
6/7/2007	0.033	0.010				8.10		< 4	< 1.11	< 5	< 1.39	0.084	0.30		< 2	
6/8/2007	0.032	0.000														
6/9/2007																
6/10/2007																
6/11/2007	0.031	0.330														
6/12/2007	0.037	0.010				8.00						0.186	0.60			
6/13/2007	0.027	0.000														
6/14/2007	0.032	0.000													< 2	
6/15/2007	0.033	0.110														
6/16/2007																
6/17/2007																
6/18/2007	0.036	0.050														
6/19/2007	0.020	0.000				8.10				< 5	< 0.83	0.083	0.50			
6/20/2007	0.032	0.000														
6/21/2007	0.032	0.000														
6/22/2007	0.032	0.000														
6/23/2007																
6/24/2007																
6/25/2007	0.031	0.280														
6/26/2007	0.036	0.000				8.00						0.119	0.40			
6/27/2007	0.028	0.000														
6/28/2007	0.032	0.030														
6/29/2007	0.032	0.270														
6/30/2007																
7/1/2007																
7/2/2007	0.031	0.000														
7/3/2007	0.029	0.000				8.20				< 5	< 1.20	0.048	0.20			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
7/4/2007	0.032	0.000														
7/5/2007	0.027	0.000														
7/6/2007																
7/7/2007																
7/8/2007																
7/9/2007	0.031	0.000														
7/10/2007	0.034	0.000				8.10						0.085	0.30			
7/11/2007	0.048	0.000														
7/12/2007	0.056	0.000														
7/13/2007	0.055	0.020														
7/14/2007																
7/15/2007																
7/16/2007	0.052	0.000														
7/17/2007	0.053	0.290				8.20				5	2.20	0.089	0.20			
7/18/2007	0.054	0.180														
7/19/2007	0.053	0.590														
7/20/2007	0.051	0.460														
7/21/2007																
7/22/2007																
7/23/2007	0.051	0.190														
7/24/2007	0.052	0.010				8.10						0.043	0.10			
7/25/2007	0.050	0.000														
7/26/2007	0.054	0.000														
7/27/2007	0.048	0.000														
7/28/2007																
7/29/2007																
7/30/2007	0.050	0.020														
7/31/2007	0.049	0.000						8	3.24						0.4	
8/1/2007	0.053	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
8/2/2007	0.047	0.000														
8/3/2007	0.048	0.000														
8/4/2007																
8/5/2007																
8/6/2007	0.051	0.020														
8/7/2007	0.047	0.000														
8/8/2007	0.043	0.020														
8/9/2007	0.046	0.000				8.00		< 4	< 1.52	< 5	< 1.90	0.190	0.50		< 2	
8/10/2007	0.044	0.000														
8/11/2007																
8/12/2007																
8/13/2007	0.046	0.000														
8/14/2007	0.048	0.000				8.00						0.199	0.50			
8/15/2007	0.046	0.000														
8/16/2007	0.044	0.000														
8/17/2007	0.046	0.130														
8/18/2007																
8/19/2007																
8/20/2007	0.038	0.450														
8/21/2007	0.031	0.030				7.90				< 5	< 1.29	0.155	0.60			
8/22/2007	0.045	0.000														
8/23/2007	0.047	0.000														
8/24/2007	0.047	0.000														
8/25/2007																
8/26/2007																
8/27/2007	0.069	0.000														
8/28/2007	0.061	0.000				7.90						0.203	0.40			
8/29/2007	0.063	0.000														
8/30/2007	0.067	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
8/31/2007	0.061	0.000														
9/1/2007																
9/2/2007																
9/3/2007																
9/4/2007	0.062	0.050				8.00				6	3.10	0.208	0.40			
9/5/2007	0.062	0.000														
9/6/2007	0.060	0.000														
9/7/2007	0.064	0.000														
9/8/2007																
9/9/2007																
9/10/2007	0.061	0.000														
9/11/2007	0.064	0.000				8.00						0.214	0.40			
9/12/2007	0.073	0.000														
9/13/2007	0.044	0.000														
9/14/2007	0.061	0.000														
9/15/2007																
9/16/2007																
9/17/2007	0.063	0.170														
9/18/2007	0.061	0.040				7.90				9	4.60	0.203	0.40			
9/19/2007	0.060	0.000														
9/20/2007	0.060	0.000														
9/21/2007	0.064	0.010														
9/22/2007																
9/23/2007																
9/24/2007	0.059	0.000														
9/25/2007	0.060	0.000				7.80										
9/26/2007	0.060	0.000														
9/27/2007	0.058	0.000														
9/28/2007	0.072	0.310										0.239	0.40			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
9/29/2007																
9/30/2007																
10/1/2007	0.062	0.450														
10/2/2007	0.058	0.100				8.40		9.3	4.50	10	4.90	0.194	0.40			
10/3/2007	0.072	0.710														
10/4/2007	0.060	0.350														
10/5/2007	0.102	0.020														
10/6/2007																
10/7/2007																
10/8/2007	0.039	0.290														
10/9/2007	0.055	0.000				8.00						0.230	0.50			
10/10/2007	0.057	0.030														
10/11/2007	0.060	0.190														
10/12/2007	0.053	0.070														
10/13/2007																
10/14/2007																
10/15/2007	0.054	0.020														
10/16/2007	0.056	0.150				7.70				10	4.60	0.185	0.40			
10/17/2007	0.055	0.170													23	
10/18/2007	0.060	0.590														
10/19/2007	0.058	0.410														
10/20/2007																
10/21/2007																
10/22/2007	0.064	1.010														
10/23/2007	0.056	0.000														
10/24/2007	0.061	0.010														
10/25/2007	0.057	0.010				7.80						0.189	0.40			
10/26/2007	0.055	0.000														
10/27/2007																

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
10/28/2007																
10/29/2007	0.056	0.010														
10/30/2007	0.056	0.010				7.80						0.140	0.30			
10/31/2007	0.054	0.000														
11/1/2007	0.057	0.000														
11/2/2007	0.054	0.000														
11/3/2007																
11/4/2007																
11/5/2007	0.054	0.000														
11/6/2007	0.057	0.000				8.30				10	4.80	0.190	0.40			
11/7/2007	0.053	0.010														
11/8/2007	0.056	0.000														
11/9/2007	0.053	0.000														
11/10/2007																
11/11/2007																
11/12/2007	0.056	0.660														
11/13/2007	0.061	0.530				7.80						0.252	0.50			
11/14/2007	0.061	0.010														
11/15/2007	0.057	0.020														
11/16/2007	0.061	0.710														
11/17/2007																
11/18/2007																
11/19/2007	0.064	0.790														
11/20/2007	0.065	0.260				7.80				10	5.40	0.271	0.50			
11/21/2007	0.061	0.000														
11/22/2007																
11/23/2007	0.059	0.000														
11/24/2007																
11/25/2007																

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
11/26/2007	0.058	0.010														
11/27/2007	0.057	0.420				7.90						0.238	0.50			
11/28/2007	0.060	0.130														
11/29/2007	0.069	0.670														
11/30/2007	0.066	0.060														
12/1/2007																
12/2/2007																
12/3/2007	0.101	4.140														
12/4/2007	0.097	0.620														
12/5/2007	0.087	0.090				8.00		< 4	< 2.90	10	7.30	0.363	0.50			
12/6/2007	0.079	0.250														
12/7/2007	0.073	0.080														
12/8/2007																
12/9/2007																
12/10/2007	0.069	0.120														
12/11/2007	0.089	0.000				8.00						0.372	0.50			
12/12/2007	0.089	0.010													2	
12/13/2007	0.099	0.030														
12/14/2007	0.092	0.010														
12/15/2007																
12/16/2007																
12/17/2007	0.105	0.640														
12/18/2007	0.107	0.210				8.00				10	9.00	0.536	0.60			
12/19/2007	0.070	0.090														
12/20/2007	0.095	1.280														
12/21/2007	0.084	0.200														
12/22/2007																
12/23/2007																
12/24/2007	0.087	1.340														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
12/25/2007																
12/26/2007	0.080	0.560														
12/27/2007	0.093	0.120				7.80						0.545	0.70			
12/28/2007	0.086	0.530														
12/29/2007																
12/30/2007																
12/31/2007	0.099	0.970														
1/1/2008																
1/2/2008	0.081	0.080														
1/3/2008	0.083	0.130				8.20						0.413	0.60			
1/4/2008	0.082	0.250														
1/5/2008																
1/6/2008																
1/7/2008	0.084	1.020														
1/8/2008	0.080	0.300				8.10				10	6.70	0.401	0.60			
1/9/2008	0.090	0.380														
1/10/2008	0.080	0.190														
1/11/2008	0.096	0.760														
1/12/2008																
1/13/2008																
1/14/2008	0.087	0.460														
1/15/2008	0.089	0.360				8.00						0.520	0.70			
1/16/2008	0.076	0.020														
1/17/2008	0.077	0.000														
1/18/2008	0.077	0.020														
1/19/2008																
1/20/2008																
1/21/2008	0.075	0.120														
1/22/2008	0.080	0.000				7.70				10	6.70	0.469	0.70			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
1/23/2008	0.070	0.000														
1/24/2008	0.075	0.000														
1/25/2008	0.079	0.000														
1/26/2008																
1/27/2008																
1/28/2008	0.073	0.300														
1/29/2008	0.078	0.260				8.00						0.389	0.60			
1/30/2008	0.077	0.570														
1/31/2008	0.078	0.300														
2/1/2008		0.730														
2/2/2008																
2/3/2008																
2/4/2008	0.078	0.800														
2/5/2008	0.095	0.090				7.80		< 4	< 3.15	20	15.80	0.788	1.00			
2/6/2008	0.113	0.530														
2/7/2008	0.097	0.960														
2/8/2008	0.089	0.430														
2/9/2008																
2/10/2008																
2/11/2008	0.088	0.950														
2/12/2008	0.078	0.000				7.80						0.647	1.00			
2/13/2008	0.076	0.140														
2/14/2008	0.068	0.010														
2/15/2008	0.070	0.000														
2/16/2008																
2/17/2008																
2/18/2008	0.070	0.000														
2/19/2008	0.071	0.000				8.10				10	6.00	0.059	0.10			
2/20/2008	0.065	0.010														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
2/21/2008	0.067	0.000														
2/22/2008	0.069	0.000														
2/23/2008																
2/24/2008																
2/25/2008	0.064	0.140														
2/26/2008	0.062	0.160				8.00						0.104	0.20			
2/27/2008	0.061	0.000													8	
2/28/2008	0.059	0.000														
2/29/2008	0.057	0.000														
3/1/2008																
3/2/2008																
3/3/2008	0.067	0.450														
3/4/2008	0.067	0.150				8.00				10	5.60	0.333	0.60			
3/5/2008	0.061	0.020														
3/6/2008	0.062	0.000														
3/7/2008	0.058	0.000														
3/8/2008																
3/9/2008																
3/10/2008	0.056	0.090														
3/11/2008	0.057	0.160				8.10						0.048	0.10			
3/12/2008	0.055	0.120														
3/13/2008	0.060	0.280														
3/14/2008	0.060	0.410														
3/15/2008																
3/16/2008																
3/17/2008	0.059	0.330														
3/18/2008	0.059	0.110				7.70				20	9.80	0.196	0.40			
3/19/2008	0.062	0.040														
3/20/2008	0.053	0.140														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
3/21/2008	0.062	0.420														
3/22/2008																
3/23/2008																
3/24/2008	0.061	0.360														
3/25/2008	0.060	0.000				7.80						0.200	0.40			
3/26/2008	0.058	0.180														
3/27/2008	0.063	0.430														
3/28/2008	0.057	0.120														
3/29/2008																
3/30/2008																
3/31/2008	0.064	1.070														
4/1/2008	0.056	0.020														
4/2/2008	0.055	0.000														
4/3/2008	0.053	0.000				7.60						0.352	0.80			
4/4/2008	0.050	0.020														
4/5/2008																
4/6/2008																
4/7/2008	0.053	0.310														
4/8/2008	0.054	0.190				7.70		< 4	< 1.80	16.7	7.50	0.225	0.50		< 2	
4/9/2008	0.053	0.070														
4/10/2008	0.052	0.020														
4/11/2008	0.052	0.000														
4/12/2008																
4/13/2008																
4/14/2008	0.049	0.150														
4/15/2008	0.054	0.140				7.70						0.271	0.60			
4/16/2008	0.046	0.080														
4/17/2008	0.052	0.000														
4/18/2008	0.049	0.050														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
4/19/2008																
4/20/2008																
4/21/2008	0.050	0.430														
4/22/2008	0.051	0.360				7.50				14	6.00	0.214	0.50			
4/23/2008	0.050	0.100														
4/24/2008	0.050	0.050														
4/25/2008	0.051	0.020														
4/26/2008																
4/27/2008																
4/28/2008	0.048	0.090														
4/29/2008	0.054	0.030				7.40						0.045	0.10			
4/30/2008	0.046	0.040														
5/1/2008	0.047	0.020														
5/2/2008	0.048	0.000														
5/3/2008																
5/4/2008																
5/5/2008	0.046	0.010														
5/6/2008	0.046	0.000				7.50				6	2.30	0.153	0.40			
5/7/2008	0.048	0.000														
5/8/2008	0.048	0.000														
5/9/2008	0.047	0.000														
5/10/2008																
5/11/2008																
5/12/2008	0.047	0.100														
5/13/2008	0.046	0.000				7.50						0.114	0.30			
5/14/2008	0.046	0.170														
5/15/2008	0.047	0.010														
5/16/2008	0.046	0.000														
5/17/2008																

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
5/18/2008																
5/19/2008	0.046	0.000														
5/20/2008	0.051	0.410				7.50				6	2.50	0.169	0.40			
5/21/2008	0.041	0.050														
5/22/2008	0.047	0.020														
5/23/2008	0.046	0.010														
5/24/2008																
5/25/2008																
5/26/2008	0.046	0.190														
5/27/2008	0.048	0.010				7.60						0.201	0.50			
5/28/2008	0.042	0.040														
5/29/2008	0.047	0.000														
5/30/2008	0.044	0.000														
5/31/2008																
6/1/2008																
6/2/2008	0.044	0.000														
6/3/2008	0.048	0.810				7.60				8	3.20	0.201	0.50			
6/4/2008	0.048	0.030														
6/5/2008	0.044	0.000														
6/6/2008	0.041	0.330														
6/7/2008																
6/8/2008																
6/9/2008	0.047	0.370														
6/10/2008	0.051	0.420				7.50						0.214	0.50		< 2	
6/11/2008	0.044	0.020														
6/12/2008	0.046	0.000														
6/13/2008	0.044	0.000														
6/14/2008																
6/15/2008																

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
6/16/2008	0.062	0.000														
6/17/2008	0.045	0.000				7.50				4	1.50	0.188	0.50			
6/18/2008	0.042	0.000														
6/19/2008	0.046	0.000														
6/20/2008	0.046	0.000														
6/21/2008																
6/22/2008																
6/23/2008	0.043	0.000														
6/24/2008	0.046	0.000				8.00		< 4	< 1.53			0.153	0.40			
6/25/2008	0.046	0.000														
6/26/2008	0.044	0.000														
6/27/2008	0.043	0.000														
6/28/2008																
6/29/2008																
6/30/2008	0.043	0.000														
7/1/2008	0.044	0.000				7.60						0.109	0.30			
7/2/2008	0.045	0.000														
7/3/2008	0.036	0.030														
7/4/2008	0.041															
7/5/2008	0.041															
7/6/2008	0.041															
7/7/2008	0.041	0.270														
7/8/2008	0.043	0.000				8.00				8	2.90	0.107	0.30			
7/9/2008	0.041	0.000														
7/10/2008	0.036	0.000														
7/11/2008	0.049	0.000														
7/12/2008	0.043															
7/13/2008	0.043															
7/14/2008	0.043	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
7/15/2008	0.041	0.000				7.80						0.138	0.40			
7/16/2008	0.045	0.000														
7/17/2008	0.043	0.000														
7/18/2008	0.042	0.000														
7/19/2008	0.040															
7/20/2008	0.040															
7/21/2008	0.040	0.000														
7/22/2008	0.042	0.000				8.00				3.6	1.20	0.070	0.20			
7/23/2008	0.040	0.000														
7/24/2008	0.041	0.000														
7/25/2008	0.042	0.000														
7/26/2008	0.040															
7/27/2008	0.040															
7/28/2008	0.040	0.000														
7/29/2008	0.052	0.010				8.00						0.087	0.20			
7/30/2008	0.035	0.050														
7/31/2008	0.040	0.000														
8/1/2008	0.041	0.020														
8/2/2008	0.040															
8/3/2008	0.040															
8/4/2008	0.040	0.060														
8/5/2008	0.039	0.000				8.10				3.9	1.30	0.098	0.30			
8/6/2008	0.049	0.000														
8/7/2008	0.065	0.000														
8/8/2008	0.068	0.000														
8/9/2008	0.067															
8/10/2008	0.067															
8/11/2008	0.067	0.240														
8/12/2008	0.069	0.000				8.00						0.172	0.30			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
8/13/2008	0.068	0.000														
8/14/2008	0.068	0.000														
8/15/2008	0.070	0.000														
8/16/2008	0.043															
8/17/2008	0.043															
8/18/2008	0.043	0.050														
8/19/2008	0.041	0.160				7.90		70.3	24.30	5.6	1.90	0.173	0.50		< 2	
8/20/2008	0.072	0.230														
8/21/2008	0.041	0.400														
8/22/2008	0.054	0.010														
8/23/2008	0.064															
8/24/2008	0.064															
8/25/2008	0.064	0.310														
8/26/2008	0.064	0.000				7.60						0.214	0.40			
8/27/2008	0.064	0.130														
8/28/2008	0.066	0.050														
8/29/2008	0.061	0.000														
8/30/2008	0.062															
8/31/2008	0.062															
9/1/2008	0.062															
9/2/2008	0.062	0.090														
9/3/2008	0.062	0.000				7.70				9.2	4.70	0.206	0.40			
9/4/2008	0.064	0.000														
9/5/2008	0.062	0.000														
9/6/2008	0.053															
9/7/2008	0.053															
9/8/2008	0.053	0.000														
9/9/2008	0.040	0.000				7.80		4	1.30			0.134	0.40			
9/10/2008	0.039	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
9/11/2008	0.034	0.000														
9/12/2008	0.037	0.000														
9/13/2008	0.036															
9/14/2008	0.036															
9/15/2008	0.036	0.000														
9/16/2008	0.036	0.000										0.119	0.40			
9/17/2008	0.046	0.000														
9/18/2008	0.038	0.000				7.60				9.2	2.90					
9/19/2008	0.039	0.000														
9/20/2008	0.056															
9/21/2008	0.056															
9/22/2008	0.056	0.180														
9/23/2008	0.080	0.010				7.80						0.335	0.50			
9/24/2008	0.080	0.000														
9/25/2008	0.085	0.030														
9/26/2008	0.079	0.020														
9/27/2008	0.085															
9/28/2008	0.085															
9/29/2008	0.085	0.000														
9/30/2008	0.075	0.000				7.90						0.312	0.50			
10/1/2008	0.085	0.000														
10/2/2008	0.081	0.030														
10/3/2008	0.084	0.050														
10/4/2008	0.082															
10/5/2008	0.082															
10/6/2008	0.082	0.530														
10/7/2008	0.079	0.070				7.90				9.3	6.10	0.328	0.50			
10/8/2008	0.065	0.000														
10/9/2008	0.067	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
10/10/2008	0.061	0.250														
10/11/2008	0.064															
10/12/2008	0.064															
10/13/2008	0.064	0.020														
10/14/2008	0.065	0.040				7.90						0.324	0.60			
10/15/2008	0.066	0.000														
10/16/2008	0.052	0.040														
10/17/2008	0.046	0.000													< 2	
10/18/2008	0.032															
10/19/2008	0.032															
10/20/2008	0.032	0.100														
10/21/2008	0.033	0.160														
10/22/2008	0.036	0.000														
10/23/2008	0.035	0.000														
10/24/2008	0.036	0.000														
10/25/2008	0.044															
10/26/2008	0.044															
10/27/2008	0.044	0.000														
10/28/2008	0.036	0.000				7.80		< 4	< 1.20	9.4	2.80	0.059	0.20			
10/29/2008	0.058	0.000														
10/30/2008	0.030	0.000														
10/31/2008	0.035	0.000														
11/1/2008	0.036															
11/2/2008	0.036															
11/3/2008	0.036	0.670														
11/4/2008	0.047	0.760				7.90				12.9	5.10	0.078	0.20			
11/5/2008	0.033	0.200														
11/6/2008	0.059	0.490														
11/7/2008	0.039	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
11/8/2008	0.041															
11/9/2008	0.041															
11/10/2008	0.041	0.290														
11/11/2008	0.042	0.040				8.00						0.104	0.30			
11/12/2008	0.091	1.350														
11/13/2008	0.210	1.780														
11/14/2008	0.048															
11/15/2008	0.045															
11/16/2008	0.045															
11/17/2008	0.045															
11/18/2008	0.043					7.80				11.3	4.00	0.250	0.70			
11/19/2008	0.045	0.020														
11/20/2008	0.043	0.090														
11/21/2008	0.044	0.340														
11/22/2008	0.046	0.090														
11/23/2008	0.046															
11/24/2008	0.046	0.090														
11/25/2008	0.046					8.00						0.306	0.80			
11/26/2008	0.047	0.060														
11/27/2008	0.046															
11/28/2008	0.046	0.030														
11/29/2008	0.134															
11/30/2008	0.134															
12/1/2008	0.045	0.100														
12/2/2008	0.046	0.290				7.80				11	4.20	0.304	0.80			
12/3/2008	0.072	0.070													2	
12/4/2008	0.078	0.000						4	2.60							
12/5/2008	0.073	0.000														
12/6/2008	0.072															

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
12/7/2008	0.072															
12/8/2008	0.072	0.320														
12/9/2008	0.072	0.000				7.80						0.478	0.80			
12/10/2008	0.069	0.000														
12/11/2008	0.070	0.020														
12/12/2008	0.071	0.000														
12/13/2008	0.095															
12/14/2008	0.095															
12/15/2008	0.095	1.590														
12/16/2008	0.077	0.000				7.90						0.578	0.90			
12/17/2008	0.070	0.000														
12/18/2008	0.075	0.350														
12/19/2008	0.077	0.190								15.1	9.70					
12/20/2008	0.075															
12/21/2008	0.075															
12/22/2008	0.075	0.310														
12/23/2008	0.070	0.000				7.90						0.467	0.80			
12/24/2008	0.072	0.000														
12/25/2008	0.076															
12/26/2008	0.076	0.610														
12/27/2008	0.115															
12/28/2008	0.115															
12/29/2008	0.115	0.960														
12/30/2008	0.094	0.350				7.70						0.626	0.80			
12/31/2008	0.092	0.240														
1/1/2009	0.175															
1/2/2009	0.117	2.770														
1/3/2009	0.121															
1/4/2009	0.121															

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
1/5/2009	0.121	0.150														
1/6/2009	0.109	0.140														
1/7/2009	0.183	1.560				7.80						1.250	0.82			
1/8/2009	0.259	2.050								10	21.61					
1/9/2009	0.117	0.190														
1/10/2009	0.103															
1/11/2009	0.103															
1/12/2009	0.103	0.370														
1/13/2009	0.088	0.000				7.80						0.538	0.73			
1/14/2009	0.091	0.000														
1/15/2009	0.099	0.000														
1/16/2009	0.128	0.000														
1/17/2009	0.119															
1/18/2009	0.119															
1/19/2009	0.119	0.000														
1/20/2009	0.091	0.000								10	7.62					
1/21/2009	0.099	0.000														
1/22/2009	0.101	0.000				7.80						0.203	0.24			
1/23/2009	0.129	0.000														
1/24/2009	0.129															
1/25/2009	0.129															
1/26/2009	0.090	0.000														
1/27/2009	0.099	0.000														
1/28/2009	0.086	0.000														
1/29/2009	0.090	0.050				8.10						0.397	0.53			
1/30/2009	0.096	0.030														
1/31/2009	0.090															
1/1/2009	0.090	0.000														
2/2/2009	0.090	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
2/3/2009	0.094	0.000				8.10				10	7.87	0.435	0.55			
2/4/2009	0.082	0.000														
2/5/2009	0.094	0.000														
2/6/2009	0.087	0.010														
2/7/2009	0.083	0.000														
2/8/2009	0.083	0.000														
2/9/2009	0.083	0.090														
2/10/2009	0.087	0.110				8.10						0.501	0.69			
2/11/2009	0.071	0.000														
2/12/2009	0.070	0.000														
2/13/2009	0.090	0.000						4	3.01							
2/14/2009	0.065	0.000														
2/15/2009	0.065	0.000														
2/16/2009	0.065	0.000														
2/17/2009	0.080	0.000				8.20				10	6.70					
2/18/2009	0.062	0.000													< 2	
2/19/2009	0.074	0.000										0.390	0.63			
2/20/2009	0.080	0.000														
2/21/2009	0.064	0.000														
2/22/2009	0.064	0.000														
2/23/2009	0.064	0.030														
2/24/2009	0.080	0.520				8.10										
2/25/2009	0.068	0.290														
2/26/2009	0.096	0.050														
2/27/2009	0.132	0.000										0.856	0.78			
2/28/2009	0.080															
3/1/2009	0.078															
3/2/2009	0.078	0.130														
3/3/2009	0.123	0.250								10	10.25					

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
3/4/2009	0.075	0.030				7.99										
3/5/2009	0.088	0.240														
3/6/2009	0.078	0.000										0.644	0.99			
3/7/2009	0.098															
3/8/2009	0.098															
3/9/2009	0.098	0.070														
3/10/2009	0.103	0.000														
3/11/2009	0.075	0.000														
3/12/2009	0.097	0.000														
3/13/2009	0.089	0.000				8.13						0.609	0.82			
3/14/2009	0.103															
3/15/2009	0.103															
3/16/2009	0.103	0.140														
3/17/2009	0.123	0.190								10	10.27					
3/18/2009	0.088	0.000										0.487	0.66			
3/19/2009	0.105	0.080				8.17										
3/20/2009	0.081	0.020														
3/21/2009	0.087															
3/22/2009	0.087															
3/23/2009	0.087	0.290														
3/24/2009	0.123	0.010														
3/25/2009	0.096	0.130				7.75										
3/26/2009	0.083	0.000														
3/27/2009	0.076	0.000										0.418	0.66			
3/28/2009	0.090															
3/29/2009	0.090															
3/30/2009	0.090	0.000														
3/31/2009	0.094	0.120														
4/1/2009	0.127	0.480								20	21.21					

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
4/2/2009	0.116	0.130										1.064	1.10			
4/3/2009	0.086	0.000				8.02						0.419	0.59			
4/4/2009	0.077															
4/5/2009	0.077															
4/6/2009	0.077	0.000														
4/7/2009	0.099	0.000														
4/8/2009	0.120	0.000														
4/9/2009	0.074	0.160				8.01						0.454	0.74			
4/10/2009	0.086	0.120														
4/11/2009	0.111	0.000														
4/12/2009	0.111	0.600														
4/13/2009	0.111	0.270														
4/14/2009	0.073	0.020								20	12.19					
4/15/2009	0.089	0.000														
4/16/2009	0.090	0.000														
4/17/2009	0.090	0.320				7.88						0.311	0.42			
4/18/2009	0.072	0.000														
4/19/2009	0.072	0.000														
4/20/2009	0.072	0.000														
4/21/2009	0.076	0.000						6	3.81						170	
4/22/2009	0.063	0.000														
4/23/2009	0.068	0.000				8.20						0.228	0.40			
4/24/2009	0.072	0.000														
4/25/2009	0.071	0.000														
4/26/2009	0.071	0.000														
4/27/2009	0.071	0.380														
4/28/2009	0.109	0.560														
4/29/2009	0.087	0.050				8.12										
4/30/2009	0.061	0.000										0.223	0.44			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
5/1/2009	0.078	0.000														
5/2/2009	0.078	0.230														
5/3/2009	0.123	0.020														
5/4/2009	0.075	0.520														
5/5/2009	0.088	0.220														
5/6/2009	0.078	0.470				8.04										
5/7/2009	0.098	0.340														
5/8/2009	0.098	0.000										0.493	0.60			
5/9/2009	0.098	0.000														
5/10/2009	0.103	0.000														
5/11/2009	0.075	0.000														
5/12/2009	0.097	0.240														
5/13/2009	0.089	0.800				7.92				20	14.84	0.297	0.40			
5/14/2009	0.103	0.000														
5/15/2009	0.103	0.000														
5/16/2009	0.103	0.000														
5/17/2009	0.123	0.000														
5/18/2009	0.088	0.160														
5/19/2009	0.105	0.350														
5/20/2009	0.081	0.000				7.95						0.350	0.52			
5/21/2009	0.087	0.000														
5/22/2009	0.087	0.000														
5/23/2009	0.087	0.000														
5/24/2009	0.123	0.000														
5/25/2009	0.096	0.000														
5/26/2009	0.083	0.000														
5/27/2009	0.076	0.000				8.11				10	6.33	0.259	0.41			
5/28/2009	0.090	0.000														
5/29/2009	0.090	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
5/30/2009	0.090	0.000														
5/31/2009	0.094	0.000														
6/1/2009	0.174	0.000														
6/2/2009	0.091	0.000														
6/3/2009	0.085	0.000				8.11										
6/4/2009	0.088	0.330										0.530	0.72			
6/5/2009	0.102	0.040														
6/6/2009	0.095	0.000														
6/7/2009	0.095	0.000														
6/8/2009	0.095	0.000														
6/9/2009	0.069	0.000														
6/10/2009	0.052	0.000				8.10				10	4.34	0.323	0.74			
6/11/2009	0.063	0.000														
6/12/2009	0.100	0.000														
6/13/2009	0.084	0.050														
6/14/2009	0.084	0.000														
6/15/2009	0.084	0.000														
6/16/2009	0.163	0.000						4	5.44						< 2	
6/17/2009	0.188	0.010				8.18						0.930	0.59			
6/18/2009	0.081	0.300														
6/19/2009	0.106	0.040														
6/20/2009	0.028	0.000														
6/21/2009	0.028	0.000														
6/22/2009	0.028	0.000														
6/23/2009	0.083	0.000								10	6.93					
6/24/2009	0.087	0.000										0.488	0.67			
6/25/2009	0.080	0.000				7.30										
6/26/2009	0.093	0.000														
6/27/2009	0.078	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
6/28/2009	0.078	0.000														
6/29/2009	0.078	0.000														
6/30/2009	0.097	0.000														
7/1/2009	0.094	0.000				8.10						0.498	0.64			
7/2/2009	0.090	0.000														
7/3/2009	0.081	0.000														
7/4/2009	0.081	0.000														
7/5/2009	0.081	0.000														
7/6/2009	0.081	0.060														
7/7/2009	0.078	0.000								10	6.51					
7/8/2009	0.080	0.000				8.00						0.428	0.64			
7/9/2009	0.092	0.000														
7/10/2009	0.078	0.000														
7/11/2009	0.083	0.000														
7/12/2009	0.083	0.000														
7/13/2009	0.083	0.000														
7/14/2009	0.081	0.000														
7/15/2009	0.073	0.000														
7/16/2009	0.079	0.000														
7/17/2009	0.060	0.000				7.50						0.231	0.46			
7/18/2009	0.075	0.000														
7/19/2009	0.075	0.000														
7/20/2009	0.075	0.000								10	6.29					
7/21/2009	0.088	0.000														
7/22/2009	0.076	0.000										0.288	0.46			
7/23/2009	0.102	0.000														
7/24/2009	0.102	0.000				7.40										
7/25/2009	0.081	0.000														
7/26/2009	0.081	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
7/27/2009	0.081	0.000														
7/28/2009	0.080	0.000														
7/29/2009	0.082	0.000														
7/30/2009	0.049	0.000				7.30						0.163	0.40			
7/31/2009	0.075	0.000														
8/1/2009	0.069	0.000														
8/2/2009	0.069	0.000														
8/3/2009	0.069	0.000														
8/4/2009	0.049	0.000														
8/5/2009	0.086	0.000				8.10						0.287	0.40			
8/6/2009	0.049	0.000														
8/7/2009	0.120	0.000														
8/8/2009	0.048	0.000														
8/9/2009	0.048	0.000														
8/10/2009	0.048	0.000														
8/11/2009	0.073	0.160						4	2.44	10	6.10	0.256	0.42		2	
8/12/2009	0.071	0.120				8.10										
8/13/2009	0.070	0.010														
8/14/2009	0.052	0.000														
8/15/2009	0.064	0.000														
8/16/2009	0.064	0.000														
8/17/2009	0.064	0.000														
8/18/2009	0.077	0.000														
8/19/2009	0.047	0.000				8.10						0.239	0.61			
8/20/2009	0.069	0.000														
8/21/2009	0.065	0.000														
8/22/2009	0.062	0.000														
8/23/2009	0.062	0.000														
8/24/2009	0.062	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
8/25/2009	0.066	0.000														
8/26/2009	0.072	0.000								10	6.01					
8/27/2009	0.054	0.000														
8/28/2009	0.064	0.000				8.00						0.294	0.55			
8/29/2009	0.063	0.000														
8/30/2009	0.063	0.000														
8/31/2009	0.063	0.000														
9/1/2009	0.054	0.010														
9/2/2009	0.055	0.010														
9/3/2009	0.062	0.020														
9/4/2009	0.059	0.010				7.30						0.305	0.62			
9/5/2009	0.066	0.290														
9/6/2009	0.066	0.350														
9/7/2009	0.066	0.070														
9/8/2009	0.066	0.000														
9/9/2009	0.054	0.000														
9/10/2009	0.060	0.000								10	5.01					
9/11/2009	0.060	0.000				7.58						0.320	0.64			
9/12/2009	0.064	0.000														
9/13/2009	0.064	0.000														
9/14/2009	0.064	0.000														
9/15/2009	0.048	0.000														
9/16/2009	0.067	0.140														
9/17/2009	0.047	0.000														
9/18/2009	0.059	0.000				7.58						0.251	0.51			
9/19/2009	0.102	0.310														
9/20/2009	0.102	0.000														
9/21/2009	0.102	0.000														
9/22/2009	0.102	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
9/23/2009	0.055	0.000														
9/24/2009	0.068	0.000								10	5.68					
9/25/2009	0.054	0.000				7.75						0.104	0.23			
9/26/2009	0.073	0.000														
9/27/2009	0.073	0.000														
9/28/2009	0.055	0.090														
9/29/2009	0.059	0.330														
9/30/2009	0.048	0.020				7.84						0.248	0.62			
10/1/2009	0.070	0.100														
10/2/2009	0.051	0.300														
10/3/2009	0.074	0.000														
10/4/2009	0.074	0.000														
10/5/2009	0.074	0.000														
10/6/2009	0.073	0.000														
10/7/2009	0.061	0.000								10	5.09					
10/8/2009	0.060	0.000				8.20										
10/9/2009	0.058	0.000				8.00						0.292	0.60			
10/10/2009	0.058	0.000														
10/11/2009	0.058	0.000														
10/12/2009	0.058	0.000														
10/13/2009	0.071	0.020														
10/14/2009	0.059	0.000														
10/15/2009	0.073	0.000														
10/16/2009	0.059	0.000				7.50						0.207	0.42			
10/17/2009	0.066	0.000														
10/18/2009	0.066	0.000														
10/19/2009	0.066	0.000														
10/20/2009	0.065	0.000						12.6	6.84	10	5.43				2	
10/21/2009	0.060	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
10/22/2009	0.069	0.000														
10/23/2009	0.062	0.000				7.80						0.171	0.33			
10/24/2009	0.067	0.000														
10/25/2009	0.067	0.000														
10/26/2009	0.067	0.000														
10/27/2009	0.086	0.000														
10/28/2009	0.066	0.000														
10/29/2009	0.088	0.000														
10/30/2009	0.058	0.000				7.90						0.169	0.35			
10/31/2009	0.070	0.000														
11/1/2009	0.058															
11/2/2009	0.070	0.000														
11/3/2009	0.070	0.000														
11/4/2009	0.073	0.000														
11/5/2009	0.069	0.000								< 10	< 5.76					
11/6/2009	0.061	0.000				7.79						0.209	0.41			
11/7/2009	0.061	0.000														
11/8/2009	0.107	0.000														
11/9/2009	0.107	0.000														
11/10/2009	0.107	0.000														
11/11/2009	0.082	0.000														
11/12/2009	0.084	0.000														
11/13/2009	0.090	0.000				7.99						0.270	0.36			
11/14/2009	0.070	0.000														
11/15/2009	0.088	0.000														
11/16/2009	0.088	0.860														
11/17/2009	0.088	0.670														
11/18/2009	0.019	0.400														
11/19/2009	0.101	0.530								< 10	< 8.43					

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
11/20/2009	0.120	0.300				7.88						0.350	0.35			
11/21/2009	0.132	0.370														
11/22/2009	0.119	0.720														
11/23/2009	0.119	1.430														
11/24/2009	0.119	0.050														
11/25/2009	0.088	0.000														
11/26/2009	0.078	1.130														
11/27/2009	0.078	0.000				7.62						0.412	0.63			
11/28/2009	0.099	0.000														
11/29/2009	0.082	0.000														
11/30/2009	0.082	0.000														
12/1/2009	0.067	0.000								10	5.59					
12/2/2009	0.084	0.000														
12/3/2009	0.081	0.030														
12/4/2009	0.075	0.000				7.56						0.228	0.37			
12/5/2009	0.078	0.000														
12/6/2009	0.078	0.000														
12/7/2009	0.078	0.000														
12/8/2009	0.077	0.000														
12/9/2009	0.074	0.000														
12/10/2009	0.093	0.000														
12/11/2009	0.083	0.000				8.00						0.237	0.34			
12/12/2009	0.092	0.000														
12/13/2009	0.092	0.070														
12/14/2009	0.092	0.240														
12/15/2009	0.084	0.390								10	7.01					
12/16/2009	0.129	0.950														
12/17/2009	0.185	0.500														
12/18/2009	0.151	0.030				8.00		46	58.00			0.126	< 0.10		> 1600	

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
12/19/2009	0.184	0.030														
12/20/2009	0.184	0.300														
12/21/2009	0.184	0.530														
12/22/2009	0.120	0.190														
12/23/2009	0.115	0.000														
12/24/2009	0.121	0.000				7.90						0.101	< 0.10			
12/25/2009	0.162	0.000														
12/26/2009	0.162	0.000														
12/27/2009	0.162	0.000														
12/28/2009	0.162	0.000														
12/29/2009	0.137	0.000														
12/30/2009	0.128	0.200								10	10.69					
12/31/2009	0.087	0.130				8.10						0.222	0.31			
1/1/2010	0.097	0.370														
1/2/2010	0.097	0.050														
1/3/2010	0.097	0.000														
1/4/2010	0.097	1.100														
1/5/2010	0.122	0.300														
1/6/2010	0.124	0.440										0.476	0.46			
1/7/2010	0.114	0.000														
1/8/2010	0.114	0.510				7.86										
1/9/2010	0.133	0.000														
1/10/2010	0.133	0.000														
1/11/2010	0.133	0.490														
1/12/2010	0.164	0.370														
1/13/2010	0.168	0.310										0.454	0.32			
1/14/2010	0.155	0.230						< 4	< 5.17	10	12.94					
1/15/2010	0.129	0.450				7.87									2	
1/16/2010	0.033	0.050														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
1/17/2010	0.033	0.100														
1/18/2010	0.033	0.570														
1/19/2010	0.093	0.000														
1/20/2010	0.059	0.050										0.231	0.47			
1/21/2010	0.054	0.000														
1/22/2010	0.026	0.000				7.80										
1/23/2010	0.038	0.000														
1/24/2010	0.038	0.700														
1/25/2010	0.038	0.460														
1/26/2010	0.029	0.020				7.95										
1/27/2010	0.031	0.040										0.160	0.62			
1/28/2010	0.021	0.000														
1/29/2010	0.025	0.010								22.5	4.70					
1/30/2010	0.032	0.060														
1/31/2010	0.032	0.000														
2/1/2010		0.030														
2/2/2010	0.042	0.290						< 4	< 1.41	20	7.03	0.199	0.57			
2/3/2010	0.029	0.090													2	
2/4/2010	0.037	0.400				7.84										
2/5/2010	0.038	0.000														
2/6/2010	0.024	0.050														
2/7/2010	0.024	0.050														
2/8/2010	0.024	0.050														
2/9/2010	0.020	0.010														
2/10/2010	0.029	0.110														
2/11/2010	0.021	0.020														
2/12/2010	0.029	0.340				7.76						0.089	0.37			
2/13/2010	0.027	0.160														
2/14/2010	0.027	0.210														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
2/15/2010	0.027	0.010														
2/16/2010	0.012	0.270								14.5	1.45					
2/17/2010	0.026	0.020														
2/18/2010	0.023	0.000														
2/19/2010	0.016	0.000				8.07						0.057	0.43			
2/20/2010	0.017	0.000														
2/21/2010	0.017	0.000														
2/22/2010	0.017	0.000														
2/23/2010	0.014	0.060														
2/24/2010	0.031	0.290														
2/25/2010	0.026	0.110														
2/26/2010	0.023	0.370				7.96						0.058	0.30			
2/27/2010	0.023	0.060														
2/28/2010	0.023	0.050														
3/1/2010	0.023	0.000														
3/2/2010	0.020	0.000														
3/3/2010	0.021	0.280														
3/4/2010	0.035	0.000								17.5	5.11	0.038	0.13			
3/5/2010	0.020	0.020				8.09										
3/6/2010	0.021	0.020														
3/7/2010	0.021	0.000														
3/8/2010	0.021	0.170														
3/9/2010	0.019	0.010														
3/10/2010	0.013	0.030										0.039	0.36			
3/11/2010	0.019	0.440														
3/12/2010	0.054	0.720				7.51										
3/13/2010	0.018	0.250														
3/14/2010	0.018	0.030														
3/15/2010	0.018	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
3/16/2010	0.018	0.020								16	2.40					
3/17/2010	0.022	0.160														
3/18/2010	0.018	0.000														
3/19/2010	0.020	0.000				7.83						0.107	0.64			
3/20/2010	0.000	0.000														
3/21/2010	0.000	0.150														
3/22/2010	0.000	0.000														
3/23/2010	0.000	0.050														
3/24/2010	0.005	0.000														
3/25/2010	0.047	0.210														
3/26/2010	0.048	0.530				7.74						0.400	1.00			
3/27/2010	0.045	0.000														
3/28/2010	0.045	0.150														
3/29/2010	0.045	0.370														
3/30/2010	0.058	0.430														
3/31/2010	0.046	0.100														
4/1/2010	0.050	0.230														
4/2/2010	0.052	2.000				7.32						0.364	0.84			
4/3/2010	0.050															
4/4/2010	0.050															
4/5/2010	0.050	0.120														
4/6/2010	0.045	0.390				7.64				14	5.21	0.268	0.72			
4/7/2010	0.058	0.040														
4/8/2010	0.057	0.300														
4/9/2010	0.045	0.060														
4/10/2010	0.048	0.020														
4/11/2010	0.048	0.040														
4/12/2010	0.048	0.250														
4/13/2010	0.046	0.060														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
4/14/2010	0.050															
4/15/2010	0.047	0.070														
4/16/2010	0.043					7.67						0.177	0.49			
4/17/2010	0.044	0.030														
4/18/2010	0.044	0.010														
4/19/2010	0.044	0.060														
4/20/2010	0.061	0.170						< 4	< 2.04	16	8.15					
4/21/2010	0.038	0.020										0.122	0.38		2	
4/22/2010	0.040	0.000														
4/23/2010	0.029	0.000				7.60										
4/24/2010	0.045	0.080														
4/25/2010	0.045	0.080														
4/26/2010	0.045	0.000														
4/27/2010	0.045	0.600														
4/28/2010	0.045	0.290										0.277	0.74			
4/29/2010	0.032	0.220														
4/30/2010	0.042	0.050				7.91										
5/1/2010	0.040	0.040														
5/2/2010	0.040	0.050														
5/3/2010	0.040	0.250														
5/4/2010	0.029	0.320														
5/5/2010	0.053	0.220								16	7.08	0.244	0.55			
5/6/2010	0.045	0.000				8.10										
5/7/2010	0.033															
5/8/2010	0.044															
5/9/2010	0.044	0.040														
5/10/2010	0.044	0.320														
5/11/2010	0.039	0.050														
5/12/2010	0.041	0.000				7.90						0.052	0.15			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
5/13/2010	0.046	0.000														
5/14/2010	0.041	0.000														
5/15/2010	0.044	0.000														
5/16/2010	0.044	0.000														
5/17/2010	0.044	0.000														
5/18/2010	0.034	0.270				7.80										
5/19/2010	0.050	0.320										0.045	0.11			
5/20/2010	0.060	0.350														
5/21/2010	0.072	0.540														
5/22/2010	0.062	0.200														
5/23/2010	0.062	0.550														
5/24/2010	0.062	0.040														
5/25/2010	0.069	0.150														
5/26/2010	0.056	0.180										0.198	0.43			
5/27/2010	0.061	0.270								18	9.17					
5/28/2010	0.046	0.090				7.70										
5/29/2010	0.073	0.900														
5/30/2010	0.073	0.040														
5/31/2010	0.073	0.470														
6/1/2010	0.073	0.470														
6/2/2010	0.054	0.310														
6/3/2010	0.062	0.020														
6/4/2010	0.062	0.240				7.78				8.75	4.53	0.250	0.48		< 2	
6/5/2010	0.063	0.000														
6/6/2010	0.063	0.500														
6/7/2010	0.063	0.060														
6/8/2010	0.048	0.000														
6/9/2010	0.168	0.190				7.87										
6/10/2010	0.023	0.500						< 4.0	< 0.80			0.139	0.74			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
6/11/2010	0.023	0.000														
6/12/2010	0.077	0.000														
6/13/2010	0.077	0.000														
6/14/2010	0.077	0.000														
6/15/2010	0.064	0.070														
6/16/2010	0.082	0.220								15	10.27					
6/17/2010	0.059	0.000				7.79						0.337	0.68			
6/18/2010	0.058															
6/19/2010	0.058															
6/20/2010	0.058															
6/21/2010	0.058															
6/22/2010	0.058	0.050														
6/23/2010	0.055	0.000														
6/24/2010	0.052	0.000				7.85						0.248	0.57			
6/25/2010	0.053	0.000														
6/26/2010	0.051	0.000														
6/27/2010	0.051	0.000														
6/28/2010	0.051	0.000														
6/29/2010	0.056	0.000														
6/30/2010	0.042	0.000				7.97										
7/1/2010	0.048	0.000														
7/2/2010	0.048	0.210										0.366	0.92			
7/3/2010	0.054	0.000														
7/4/2010	0.054	0.000														
7/5/2010	0.054	0.000														
7/6/2010	0.054	0.000														
7/7/2010	0.044	0.000				7.59				25	9.19					
7/8/2010	0.045	0.000														
7/9/2010	0.063	0.000										0.428	0.82			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
7/10/2010	0.054	0.000														
7/11/2010	0.054	0.000														
7/12/2010	0.054	0.000														
7/13/2010	0.052	0.000														
7/14/2010	0.043	0.000				7.84						0.052	0.14			
7/15/2010	0.054	0.000														
7/16/2010	0.064	0.000														
7/17/2010	0.053	0.000														
7/18/2010	0.053	0.000														
7/19/2010	0.053	0.000														
7/20/2010	0.054	0.000								17.5	7.89					
7/21/2010	0.040	0.000				8.13						0.092	0.28			
7/22/2010	0.057	0.000														
7/23/2010	0.051	0.000														
7/24/2010	0.110	0.000														
7/25/2010	0.110	0.000														
7/26/2010	0.110	0.000														
7/27/2010	0.042	0.000														
7/28/2010	0.054	0.000				7.78						0.066	0.15			
7/29/2010	0.050	0.000														
7/30/2010	0.058	0.000														
7/31/2010		0.000														
8/1/2010	0.047	0.000														
8/2/2010	0.047	0.000														
8/3/2010	0.050	0.000								10	4.18					
8/4/2010	0.048	0.000						< 4	< 1.60			0.273	0.68		500	
8/5/2010	0.056	0.000				7.90										
8/6/2010	0.038	0.000														
8/7/2010	0.046	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
8/8/2010	0.046	0.065														
8/9/2010	0.046	0.000														
8/10/2010	0.045	0.000														
8/11/2010	0.039	0.000				7.99						0.164	0.51			
8/12/2010	0.044	0.000														
8/13/2010	0.041	0.000														
8/14/2010	0.043	0.000														
8/15/2010	0.043	0.000														
8/16/2010	0.043	0.000														
8/17/2010	0.048	0.000								15	6.01					
8/18/2010	0.037	0.000				7.52						0.073	0.24			
8/19/2010	0.042	0.000													2	
8/20/2010	0.002	0.000													4	
8/21/2010	0.054	0.000														
8/22/2010	0.054	0.000														
8/23/2010	0.054	0.000														
8/24/2010	0.040	0.000														
8/25/2010	0.044	0.000													13	
8/26/2010	0.040	0.000				8.00						0.189	0.57		4	
8/27/2010	0.045	0.000														
8/28/2010	0.054	0.000														
8/29/2010	0.054	0.000														
8/30/2010	0.054	0.040														
8/31/2010	0.036	0.070													2	
9/1/2010	0.038	0.600				8.12				10	3.17	0.180	0.57		2	
9/2/2010	0.040	0.010													2	
9/3/2010	0.032	0.000														
9/4/2010	0.046	0.000														
9/5/2010	0.046	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
9/6/2010	0.046	0.000														
9/7/2010	0.046	0.090														
9/8/2010	0.034	0.000														
9/9/2010	0.027	0.000				8.15						0.144	0.64			
9/10/2010	0.035	0.000								10	2.92					
9/11/2010	0.082	0.000														
9/12/2010	0.082	0.000														
9/13/2010	0.082	0.000														
9/14/2010	0.037	0.000														
9/15/2010	0.039	0.000	7.41			8.03						0.157	0.48			
9/16/2010	0.063	0.300														
9/17/2010	0.039	0.040														
9/18/2010	0.038	0.300														
9/19/2010	0.038	0.450														
9/20/2010	0.038	0.150														
9/21/2010	0.037	0.020														
9/22/2010	0.032	0.000	7.41			8.12						0.197	0.74			
9/23/2010	0.036	0.070														
9/24/2010	0.041	0.070														
9/25/2010	0.035	0.000														
9/26/2010	0.035	0.050														
9/27/2010	0.035	0.030														
9/28/2010	0.028	0.000														
9/29/2010	0.041	0.080	7.48			8.12						0.129	0.38			
9/30/2010	0.085	0.000														
10/1/2010	0.062	0.000														
10/2/2010	0.081	0.000														
10/3/2010	0.081	0.000														
10/4/2010	0.081	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
10/5/2010	0.084	0.000														
10/6/2010	0.085	0.000	7.82			8.07						0.184	0.26			
10/7/2010	0.069	0.000														
10/8/2010	0.061	0.000														
10/9/2010	0.122	0.250														
10/10/2010	0.122	0.290														
10/11/2010	0.122	0.200														
10/12/2010	0.103	0.000								12	10.32					
10/13/2010	0.067	0.000	7.53			8.06						0.240	0.43			
10/14/2010	0.081	0.000														
10/15/2010	0.094	0.030														
10/16/2010	0.089	0.000														
10/17/2010	0.089	0.000														
10/18/2010	0.089	0.000														
10/19/2010	0.089	0.000														
10/20/2010	0.120	0.000	7.63			8.07										
10/21/2010	0.076	0.000										0.332	0.52			
10/22/2010	0.040	0.010														
10/23/2010	0.039	0.050														
10/24/2010	0.039	0.400														
10/25/2010	0.039	1.010														
10/26/2010	0.046	0.850														
10/27/2010	0.056	0.870	7.52			8.02						0.325	0.70			
10/28/2010	0.056	0.080														
10/29/2010	0.053	0.180						< 4	< 1.77	7.6	3.36				2	
10/30/2010	0.050	0.050														
10/31/2010	0.050															
11/1/2010	0.050	0.300														
11/2/2010	0.053	1.050														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
11/3/2010	0.053	0.030	7.28			8.05						0.165	0.37			
11/4/2010	0.049	0.000														
11/5/2010	0.040	0.000														
11/6/2010	0.047	0.060														
11/7/2010	0.047	0.250														
11/8/2010	0.047	0.230														
11/9/2010	0.058	0.170								13.4	6.49					
11/10/2010	0.046	0.140	7.19			8.02						0.242	0.63			
11/11/2010	0.046	0.000														
11/12/2010	0.046	0.210														
11/13/2010	0.043	0.120														
11/14/2010	0.043	0.140														
11/15/2010	0.043	0.080														
11/16/2010	0.037	0.280														
11/17/2010	0.055	0.070	7.45			8.09						0.287	0.63			
11/18/2010	0.023	0.950														
11/19/2010	0.080	0.230														
11/20/2010	0.056	0.110														
11/21/2010	0.056	0.130														
11/22/2010	0.056	0.200														
11/23/2010	0.082	0.590														
11/24/2010	0.111	0.030	7.48			7.99						0.501	0.54			
11/25/2010	0.086	0.000								33.6	24.13					
11/26/2010	0.086	0.090														
11/27/2010	0.088	0.200														
11/28/2010	0.088	0.130														
11/29/2010	0.088	0.010														
11/30/2010	0.047	0.220														
12/1/2010	0.059	0.380	7.28			8.03						0.214	0.44			

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
12/2/2010	0.050	0.030														
12/3/2010	0.046	0.070														
12/4/2010	0.042	0.000														
12/5/2010	0.042	0.000														
12/6/2010	0.042	0.030														
12/7/2010	0.049	0.020														
12/8/2010	0.046	0.680	7.19			8.11		< 4	< 1.54	17.4	6.68	0.115	0.30		23	
12/9/2010	0.063	0.410														
12/10/2010	0.063	0.820														
12/11/2010	0.099	0.060														
12/12/2010	0.099	0.870														
12/13/2010	0.099	0.510														
12/14/2010	0.082	0.730														
12/15/2010	0.053	0.240														
12/16/2010	0.071	0.080	7.31			8.04						0.216	0.37			
12/17/2010	0.053	0.020														
12/18/2010	0.052	0.050														
12/19/2010	0.052	0.160														
12/20/2010	0.052	0.180														
12/21/2010	0.050	0.050								16.6	6.93					
12/22/2010	0.051	0.030	7.06			7.73						0.207	0.49			
12/23/2010	0.041	0.000														
12/24/2010	0.047	0.000														
12/25/2010	0.047	0.100														
12/26/2010	0.047	0.130														
12/27/2010	0.047	0.430														
12/28/2010	0.072	0.940														
12/29/2010	0.058	0.540	7.33			7.97						0.182	0.38			
12/30/2010	0.044	0.030														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
12/31/2010	0.067	0.000														
1/1/2011	0.075	0.010														
1/2/2011	0.075	0.020														
1/3/2011	0.075	0.000														
1/4/2011	0.055	0.000								16	7.35					
1/5/2011	0.045	0.200	7.33			8.02						0.164	0.44			
1/6/2011	0.057	0.160														
1/7/2011	0.045	0.110														
1/8/2011	0.052	0.200														
1/9/2011	0.052	0.150														
1/10/2011	0.052	0.040														
1/11/2011	0.046	0.000														
1/12/2011	0.060															
1/13/2011	0.050	0.900	7.22			7.94						0.417	1.00			
1/14/2011	0.051	0.050										0.255	0.60			
1/15/2011	0.068	0.700														
1/16/2011	0.068	2.600														
1/17/2011	0.068	0.200														
1/18/2011	0.051	0.100	7.23			8.04				< 5	< 2.12	0.170	0.40			
1/19/2011	0.056	0.170														
1/20/2011	0.056	0.000														
1/21/2011	0.057	0.240														
1/22/2011	0.044	0.030														
1/23/2011	0.044	0.000														
1/24/2011	0.044	0.100														
1/25/2011	0.050	0.030	7.30			8.04						0.249	0.60			
1/26/2011	0.054	0.010														
1/27/2011	0.050															
1/28/2011	0.044	0.000														

DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
1/29/2011	0.047	0.200														
1/30/2011	0.047	0.050														
1/31/2011	0.047	0.040														
2/1/2011	0.050	0.020	7.28			7.95		< 4	< 1.68	9	3.77	0.209	0.50			
2/2/2011	0.059	0.000													< 2.4	
2/3/2011	0.045	0.000														
2/4/2011	0.041	0.000														
2/5/2011	0.046	0.170														
2/6/2011	0.046	0.080														
2/7/2011	0.046	0.270														
2/8/2011	0.048	0.090	7.25			7.95						0.239	0.60			
2/9/2011	0.054	0.000														
2/10/2011	0.049	0.000														
2/11/2011	0.045															
2/12/2011	0.043															
2/13/2011	0.043	0.330														
2/14/2011	0.043	0.190														
2/15/2011	0.057	0.270								< 5	< 2.38					
2/16/2011	0.044	0.240														
2/17/2011	0.041	0.150	7.27			7.98						0.171	0.50			
2/18/2011	0.055	0.200														
2/19/2011	0.045	0.210														
2/20/2011	0.045	0.010														
2/21/2011	0.045	0.000														
2/22/2011	0.045	0.250	7.27			7.99						0.188	0.50			
2/23/2011	0.052	0.250														
2/24/2011	0.038	0.130														
2/25/2011	0.059	0.100														
2/26/2011	0.055	0.150														

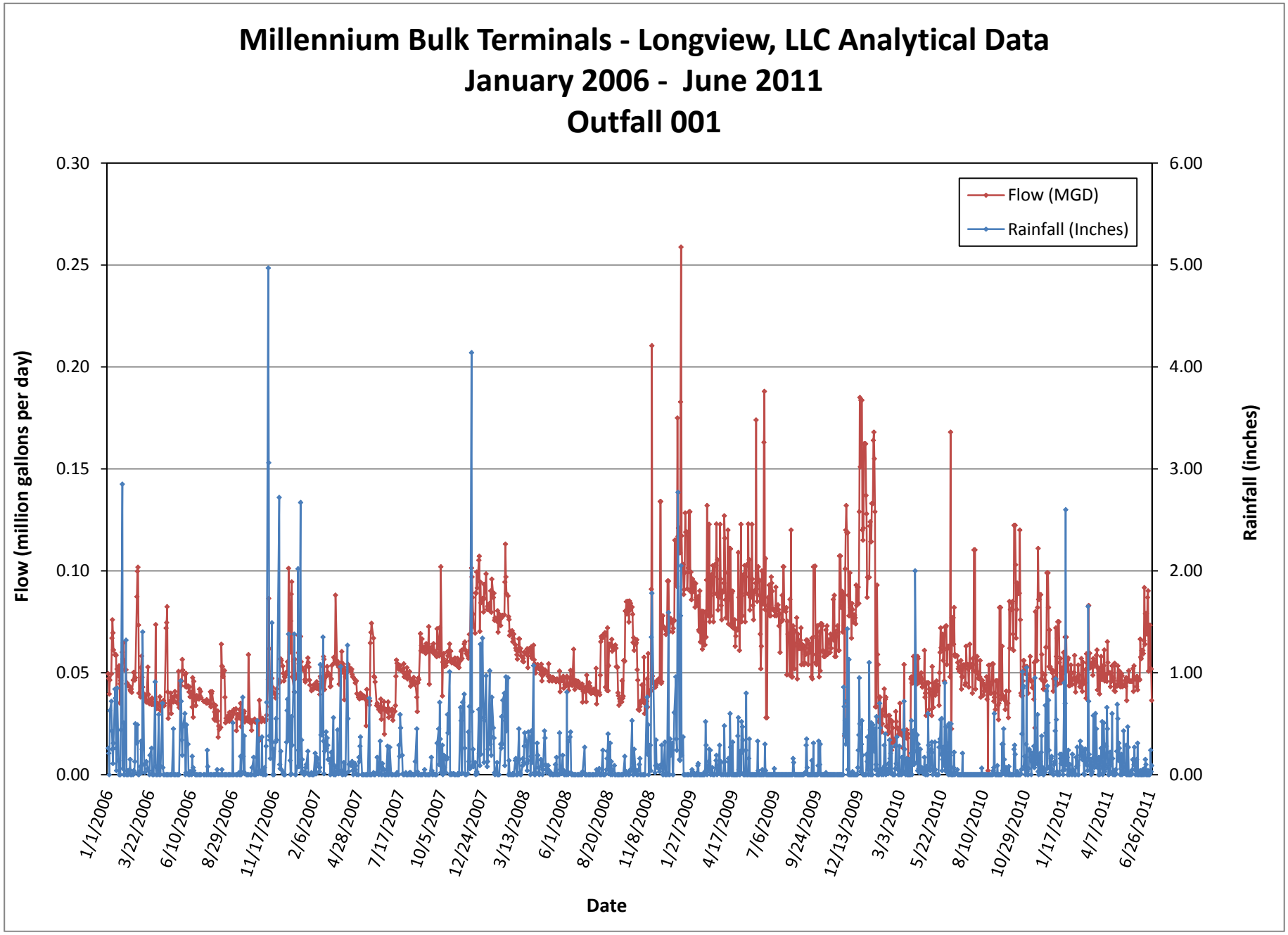
DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
2/27/2011	0.055	0.040														
2/28/2011	0.055	1.650														
3/1/2011	0.083	0.720														
3/2/2011	0.052	0.200														
3/3/2011	0.060	0.090	7.22			7.86				12	5.96	0.199	0.40			
3/4/2011	0.052	0.040														
3/5/2011	0.053	0.150														
3/6/2011	0.053	0.000														
3/7/2011	0.053	0.010														
3/8/2011	0.055	0.030														
3/9/2011	0.049	0.110														
3/10/2011	0.057	0.580	7.29			8.01						0.333	0.70			
3/11/2011	0.053	0.170														
3/12/2011	0.055	0.070														
3/13/2011	0.055	0.200														
3/14/2011	0.055	0.600														
3/15/2011	0.054	0.090	7.24			8.00				6	2.69	0.135	0.30			
3/16/2011	0.059	0.450														
3/17/2011	0.061	0.160														
3/18/2011	0.042	0.070														
3/19/2011	0.052	0.120														
3/20/2011	0.052	0.000														
3/21/2011	0.052	0.170														
3/22/2011	0.040	0.000	7.31			8.09						0.132	0.40			
3/23/2011	0.047	0.010														
3/24/2011	0.051	0.070														
3/25/2011	0.058	0.260														
3/26/2011	0.047	0.100														
3/27/2011	0.047	0.520														

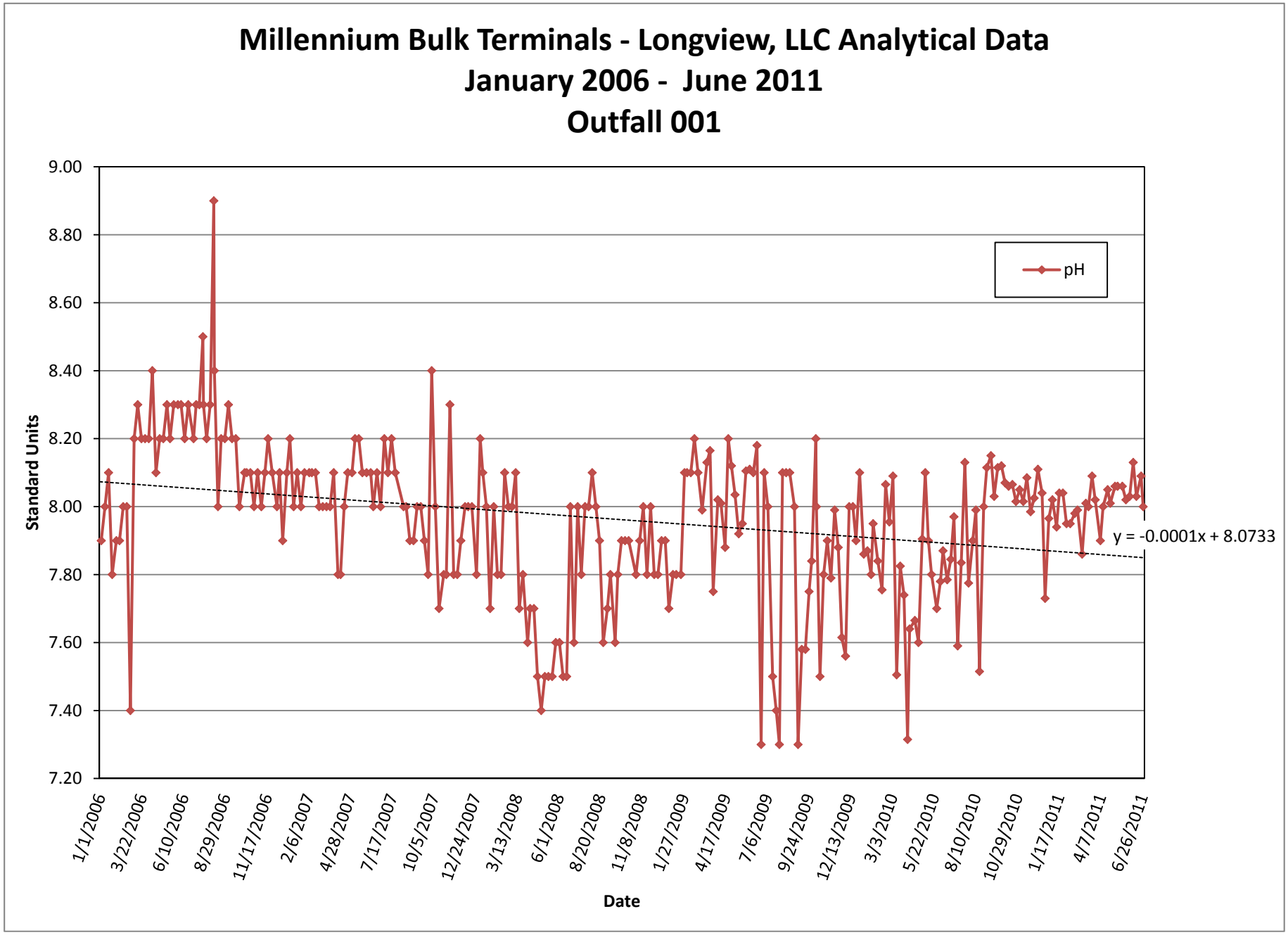
DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
3/28/2011	0.047	0.000	7.31			8.02						0.195	0.50			
3/29/2011	0.053	0.150														
3/30/2011	0.054	0.510														
3/31/2011	0.061	0.300														
4/1/2011	0.046	0.030														
4/2/2011	0.049	0.070														
4/3/2011	0.049	0.060														
4/4/2011	0.049	0.280														
4/5/2011	0.046	0.660						6.95	2.66	8	3.06					
4/6/2011	0.065	0.450													< 2.2	
4/7/2011	0.055	0.100	7.25			7.90						0.229	0.50			
4/8/2011	0.050	0.000														
4/9/2011	0.050	0.000														
4/10/2011	0.050	0.080														
4/11/2011	0.050	0.220														
4/12/2011	0.043	0.030	7.23			8.00						0.180	0.50			
4/13/2011	0.050	0.110														
4/14/2011	0.046	0.150														
4/15/2011	0.053	0.600														
4/16/2011	0.047	0.160														
4/17/2011	0.047	0.000														
4/18/2011	0.047	0.010														
4/19/2011	0.041	0.040								5	1.72					
4/20/2011	0.055	0.000														
4/21/2011	0.041	0.000	7.33			8.05						0.167	0.49			
4/22/2011	0.044	0.050														
4/23/2011	0.044	0.010														
4/24/2011	0.044	0.230														
4/25/2011	0.044	0.690														

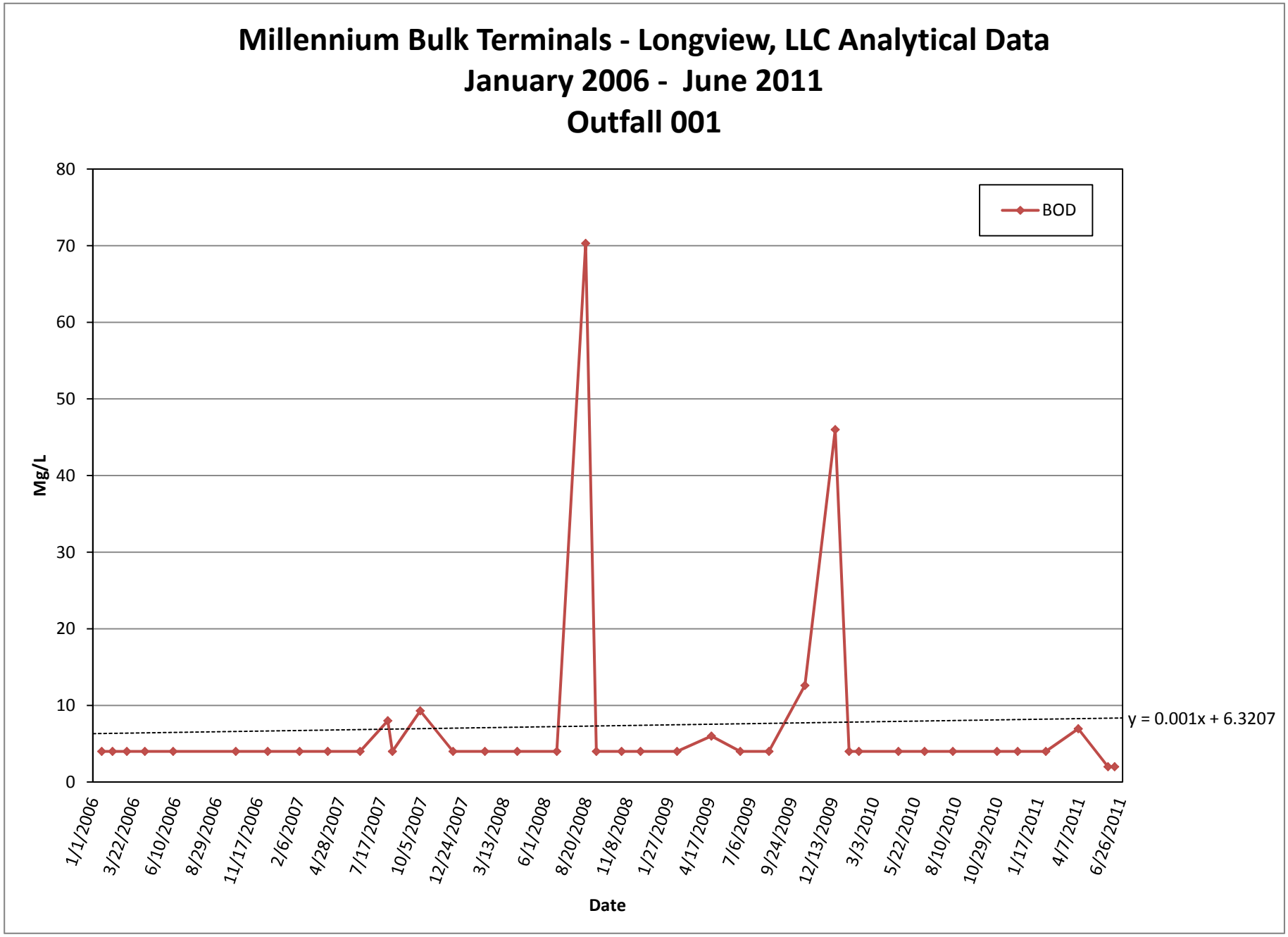
DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
4/26/2011	0.053	0.550	7.33			8.01						0.160	0.36			
4/27/2011	0.046	0.140														
4/28/2011	0.045	0.310														
4/29/2011	0.051	0.260														
4/30/2011																
5/1/2011	0.043	0.000														
5/2/2011	0.043	0.060														
5/3/2011	0.050	0.200														
5/4/2011	0.049	trace														
5/5/2011	0.043	0.100	7.24			8.06				7	2.52	0.148	0.41			
5/6/2011	0.044	0.010														
5/7/2011	0.044	0.430														
5/8/2011	0.044	0.100														
5/9/2011	0.044	0.050														
5/10/2011	0.046	0.010	7.31			8.06						0.185	0.48			
5/11/2011	0.043	0.010														
5/12/2011	0.048	0.290														
5/13/2011	0.036	trace														
5/14/2011	0.046	0.000														
5/15/2011	0.046	0.470														
5/16/2011	0.046	0.270														
5/17/2011	0.051	0.000								5	2.13					
5/18/2011	0.046	0.000														
5/19/2011	0.046	0.000	7.31			8.06						0.188	0.49			
5/20/2011	0.046	0.000														
5/21/2011	0.046	0.030														
5/22/2011	0.046	0.000														
5/23/2011	0.046	0.010														
5/24/2011	0.046	0.050														

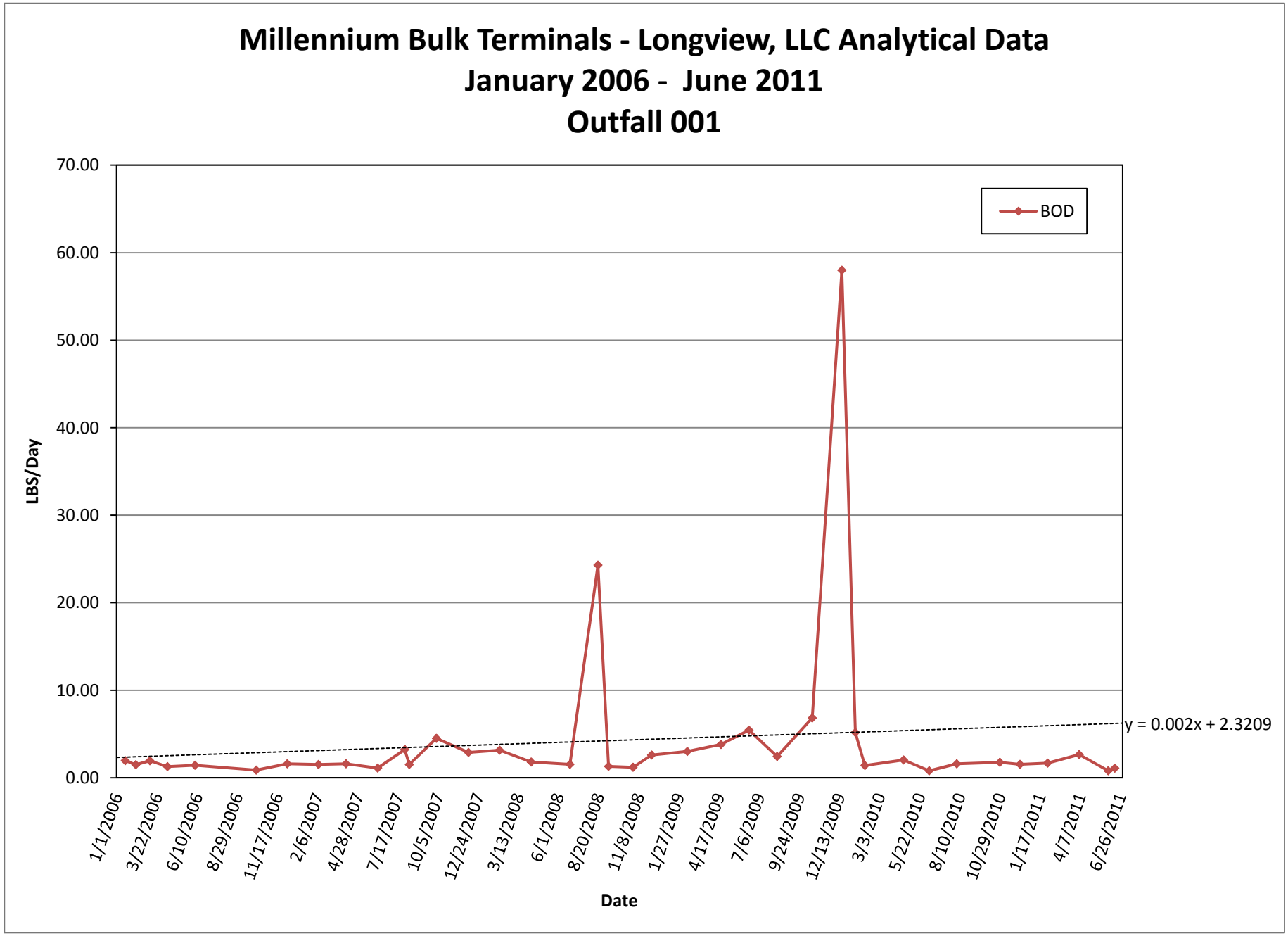
DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
5/25/2011	0.052	0.150														
5/26/2011	0.041	0.140	7.28			8.02						0.171	0.50			
5/27/2011	0.053	0.100														
5/28/2011	0.047	0.270														
5/29/2011	0.047	0.050														
5/30/2011	0.047	0.000														
5/31/2011	0.047	0.100														
6/1/2011	0.043	0.150														
6/2/2011	0.048	trace	7.25			8.03		< 2	< 0.80	11	4.42	0.245	0.61		< 2.2	
6/3/2011	0.042	0.310														
6/4/2011	0.047	0.000														
6/5/2011	0.047	0.000														
6/6/2011	0.047	0.000														
6/7/2011	0.047	0.010														
6/8/2011	0.067	0.040														
6/9/2011	0.058	0.000	7.27			8.13						0.159	0.33			
6/10/2011	0.057	trace														
6/11/2011	0.061	0.000														
6/12/2011	0.061	0.000														
6/13/2011	0.061	0.050														
6/14/2011	0.059	0.000														
6/15/2011	0.066	0.010	7.29			8.03		< 2	< 1.10	8	4.39	0.198	0.36		< 2	
6/16/2011	0.092	0.060														
6/17/2011	0.064	0.000														
6/18/2011	0.079	0.150														
6/19/2011	0.079	0.100														
6/20/2011	0.079	0.000														
6/21/2011	0.069	0.000														
6/22/2011	0.087	0.000														

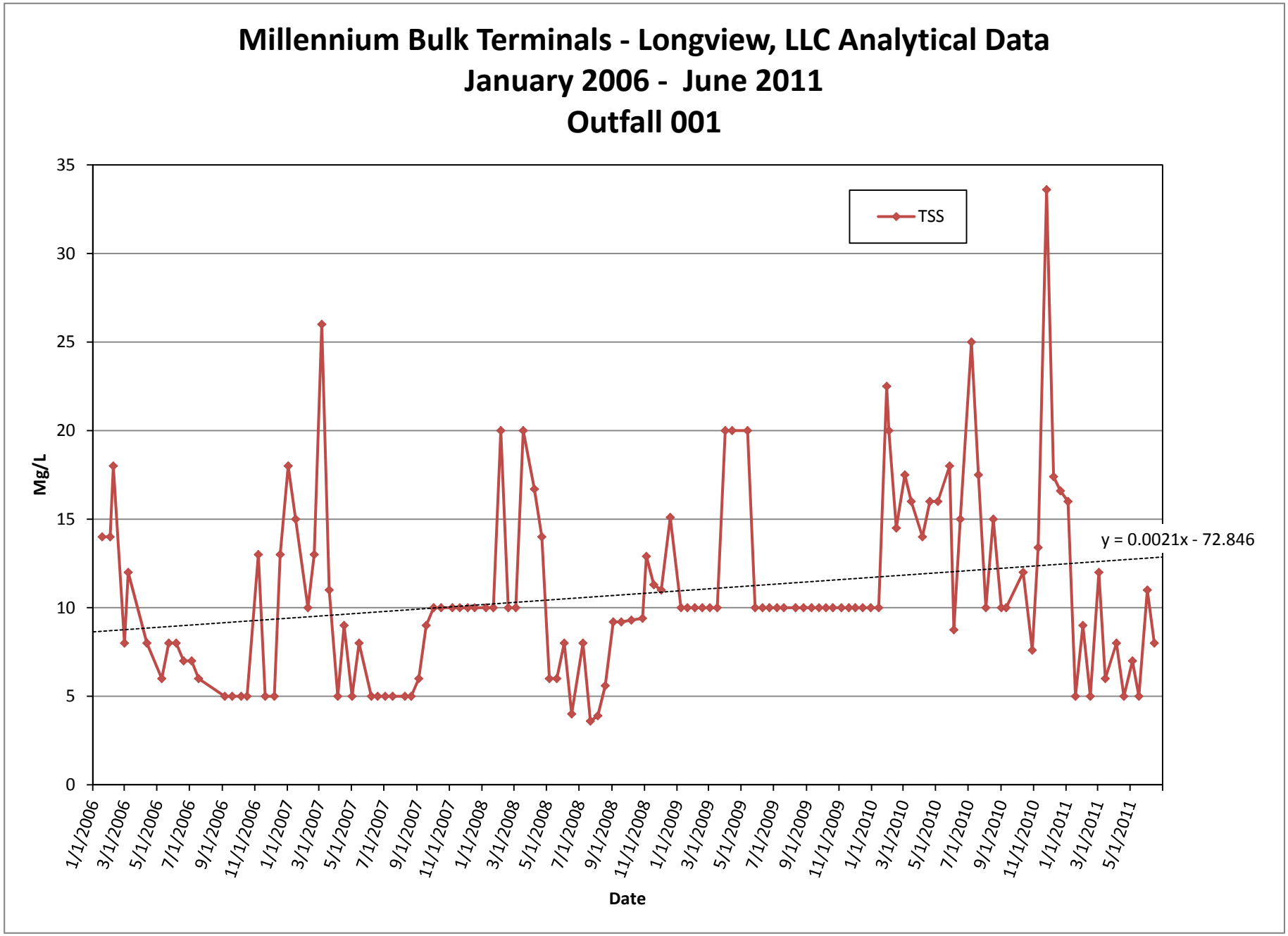
DATE	FLOW (MGD)	RAINFALL (IN.)	PLANT INFLUENT			PLANT EFFLUENT										Notes
												CHLORINE		COLIFORM		
			pH	BOD (MG/L)	SUSP. SOLIDS (MG/L)	pH	DO (MG/L)	BOD (MG/L)	BOD (LBS/Day)	SUSPENDED SOLIDS (MG/l)	SUSPENDED SOLIDS (LBS/Day)	RESIDUAL (LBS/Day)	RESIDUAL (MG/l)	TOTAL (#/100 ml)	FECAL (#/100ml)	
6/23/2011	0.090	0.040														
6/24/2011	0.051	0.000	7.37			8.09						0.153	0.36			
6/25/2011	0.073	0.000														
6/26/2011	0.073	0.000														
6/27/2011	0.073	0.010														
6/28/2011	0.052	0.240	7.14			8.00						0.196	0.45			
6/29/2011	0.052	0.030														
6/30/2011	0.036	0.090														
Average	0.059	0.144	7.32			7.96		7.35	4.29	10.80	5.57	0.24	0.49		56.10	
Maximum	0.259	4.970	7.82			8.90		70.3	58.00	33.6	24.13	1.25	1.10		1600	
Minimum	0.000	0.000	7.06			7.30		2.0	0.80	3.6	0.83	0.04	0.10		0.40	
Count	1724	1627	42.00			288		38	38	129	129	290	290		43	

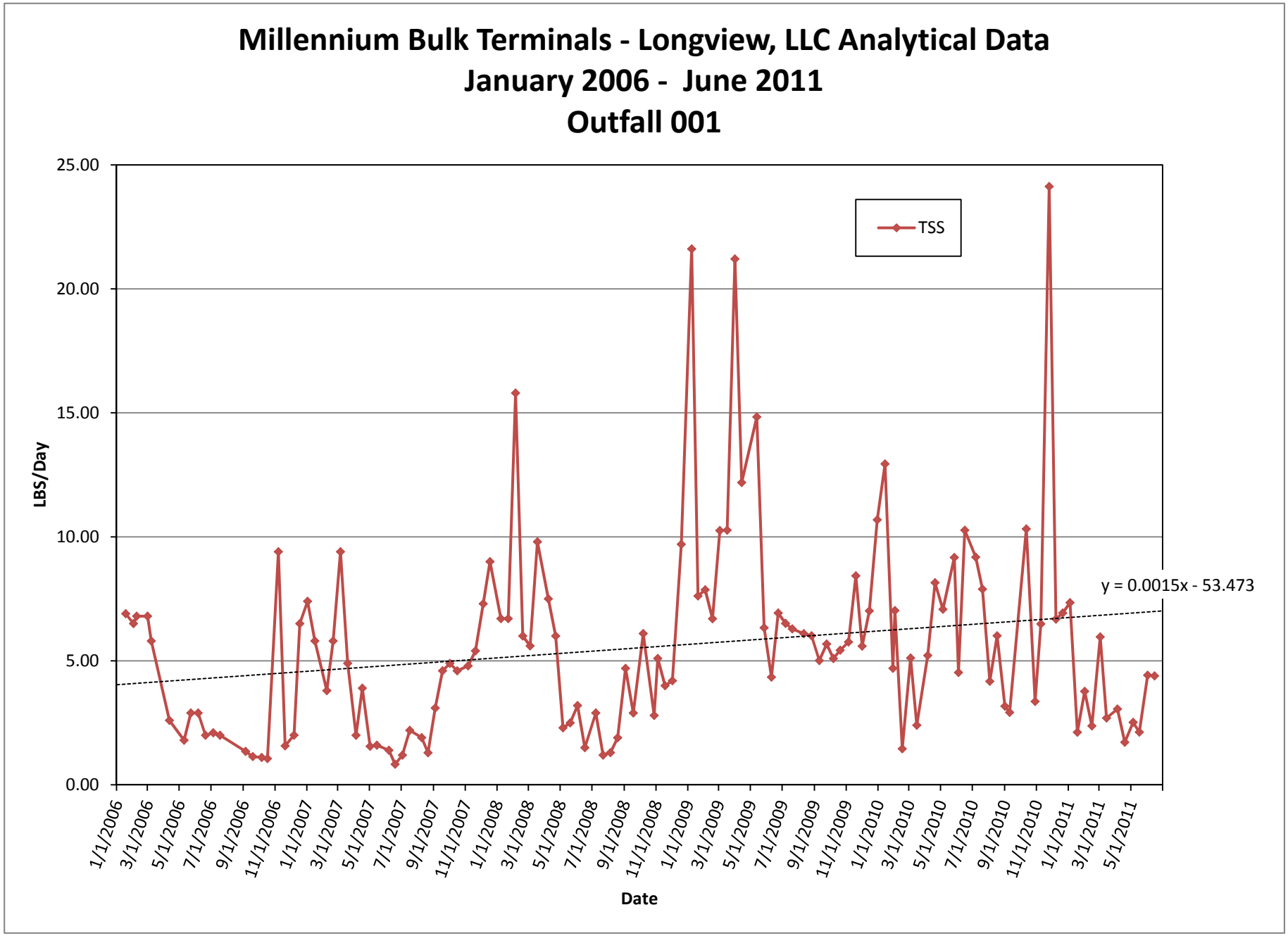

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 001
Flow (MGD)
Rainfall (Inches)
Flow (million gallons per day)
Rainfall (inches)
Date
0.30
0.25
0.20
0.15
0.10
0.05
0.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/6/2007
4/28/2007
7/17/2007
10/5/2007
12/24/2007
3/13/2008
6/1/2008
8/20/2008
11/8/2008
1/27/2009
4/17/2009
7/6/2009
9/24/2009
12/13/2009
3/3/2010
5/22/2010
8/10/2010
10/29/2010
1/17/2011
4/7/2011
6/26/2011

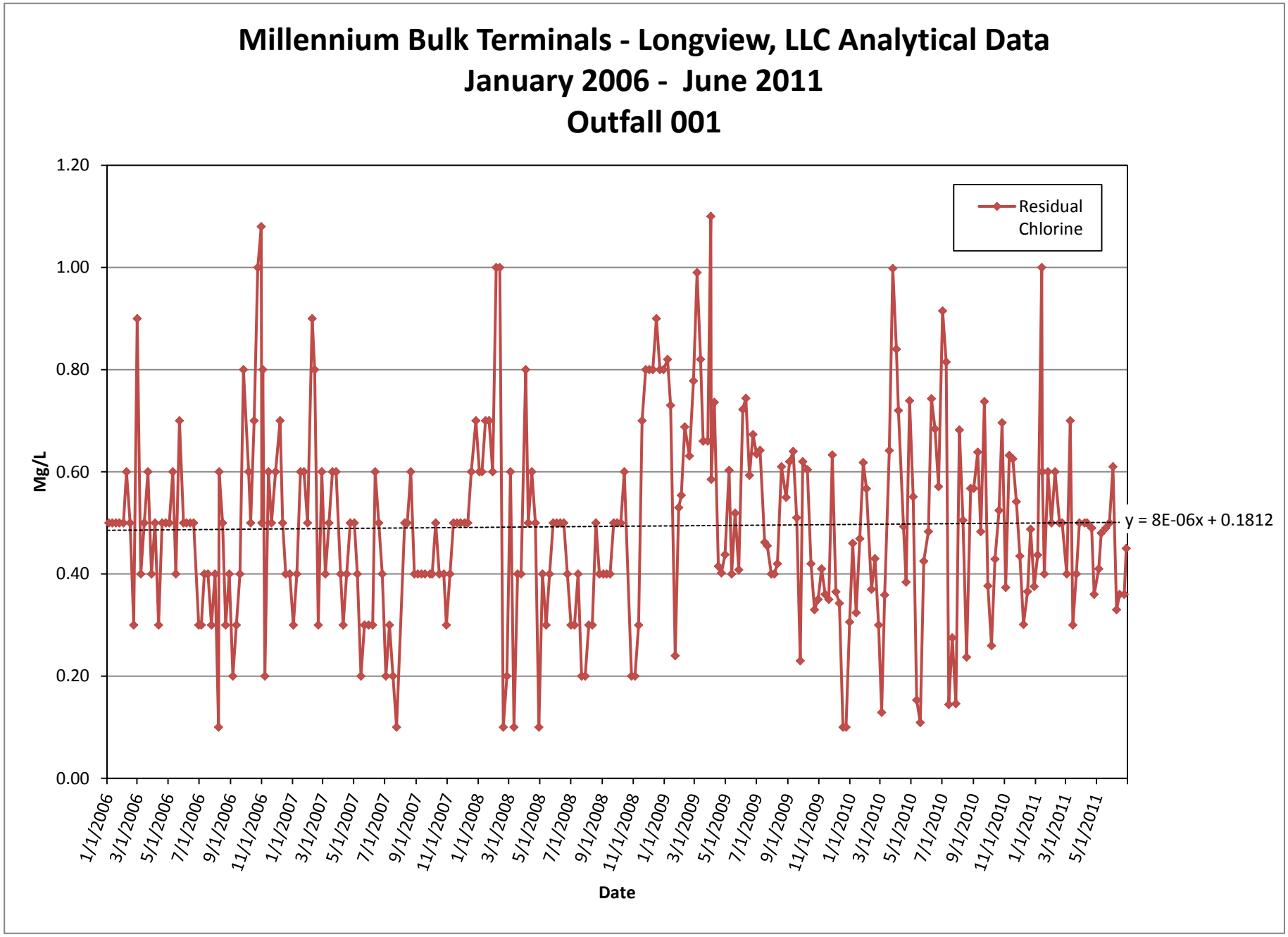

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 001
pH
y = -0.0001x + 8.0733
Standard Units
9.00
8.80
8.60
8.40
8.20
8.00
7.80
7.60
7.40
7.20
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/6/2007
4/28/2007
7/17/2007
10/5/2007
12/24/2007
3/13/2008
6/1/2008
8/20/2008
11/8/2008
1/27/2009
4/17/2009
7/6/2009
9/24/2009
12/13/2009
3/3/2010
5/22/2010
8/10/2010
10/29/2010
1/17/2011
4/7/2011
6/26/2011
Date

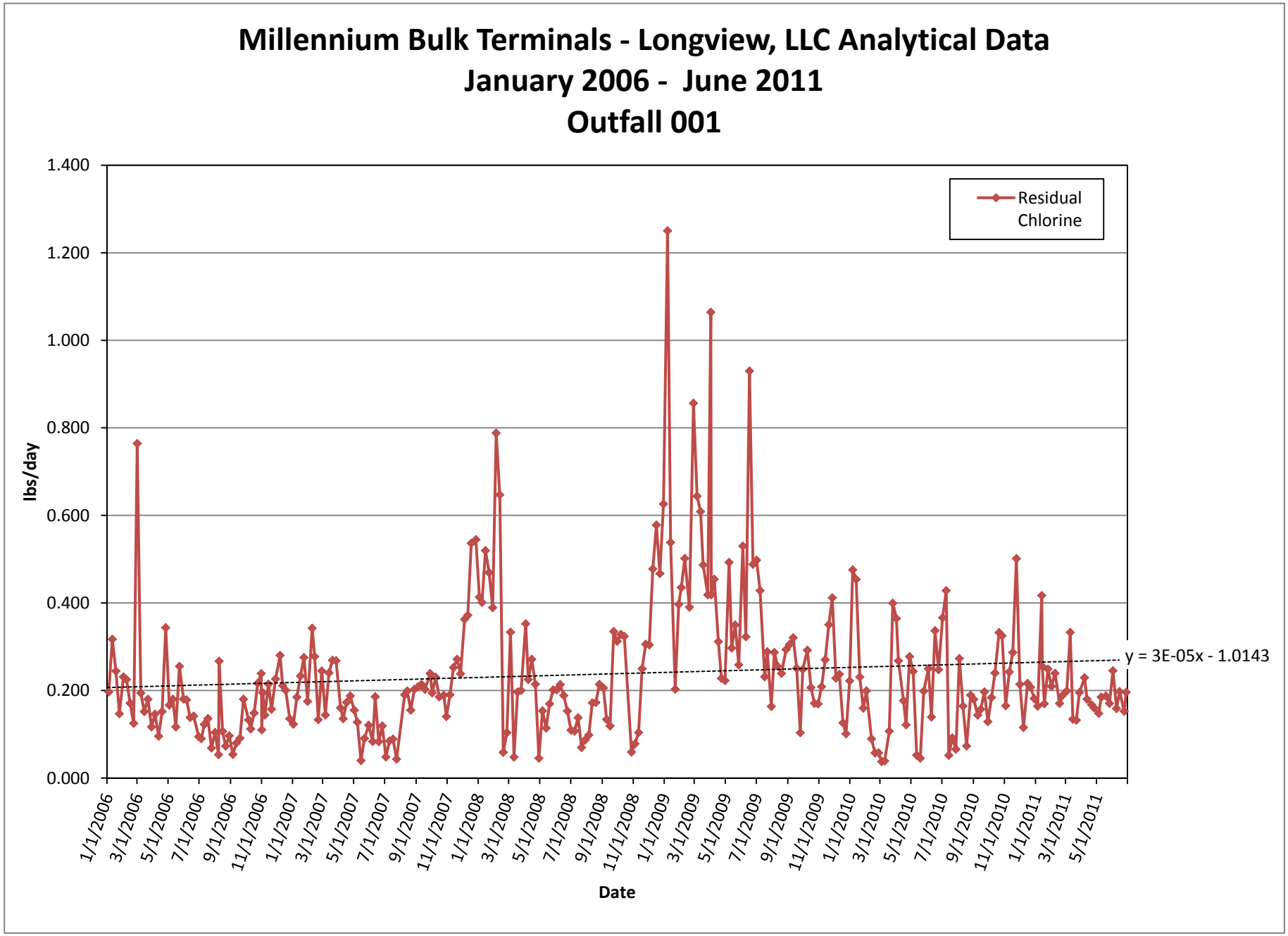

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 001
BOD
y = 0.001x + 6.3207
Mg/L
80
70
60
50
40
30
20
10
0
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/6/2007
4/28/2007
7/17/2007
10/5/2007
12/24/2007
3/13/2008
6/1/2008
8/20/2008
11/8/2008
1/27/2009
4/17/2009
7/6/2009
9/24/2009
12/13/2009
3/3/2010
5/22/2010
8/10/2010
10/29/2010
1/17/2011
4/7/2011
6/26/2011
Date

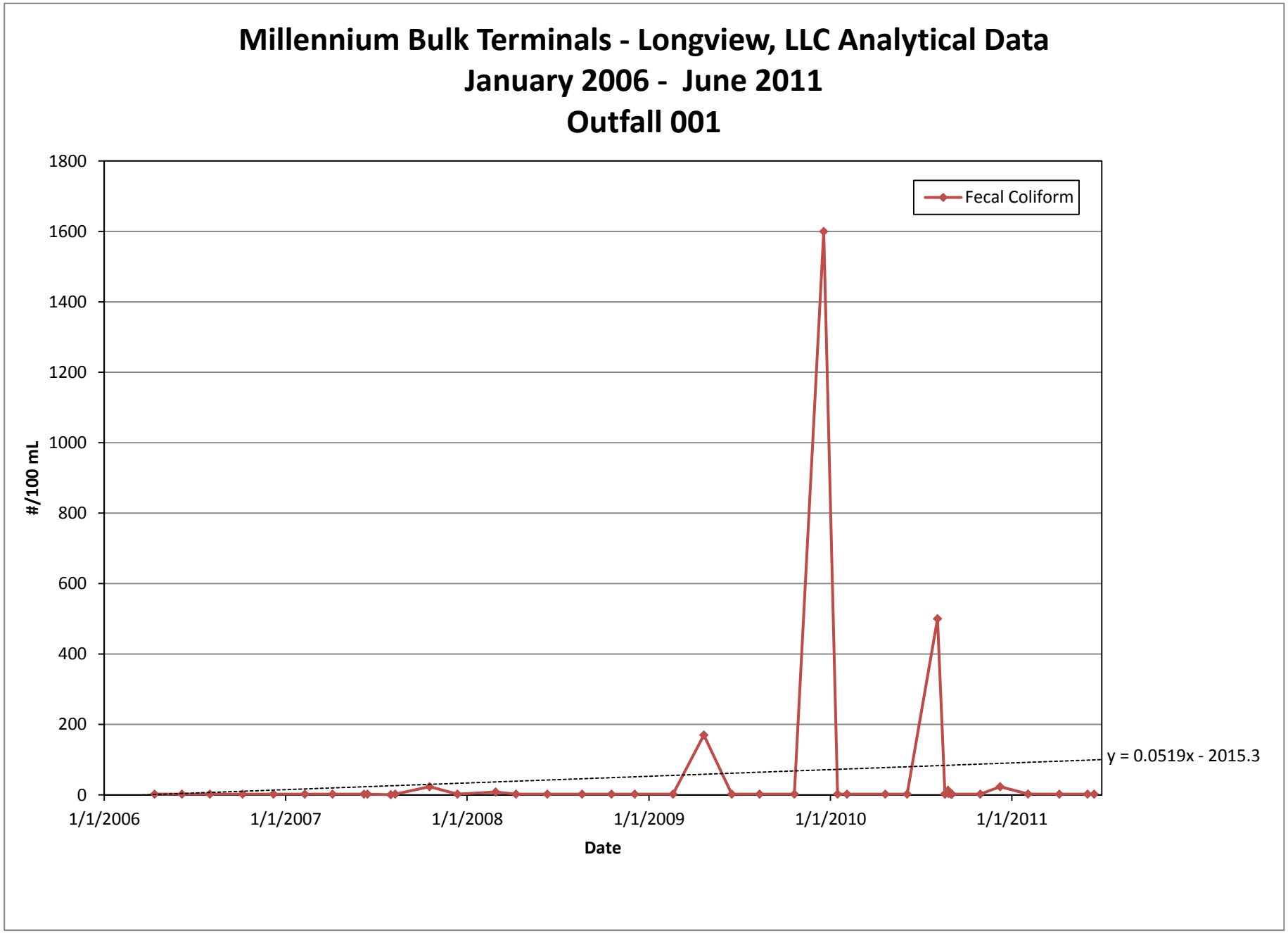

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 001
BOD
y = 0.002x + 2.3209
LBS/Day
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/6/2007
4/28/2007
7/17/2007
10/5/2007
12/24/2007
3/13/2008
6/1/2008
8/20/2008
11/8/2008
1/27/2009
4/17/2009
7/6/2009
9/24/2009
12/13/2009
3/3/2010
5/22/2010
8/10/2010
10/29/2010
1/17/2011
4/7/2011
6/26/2011
Date


Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 001
TSS
y = 0.0021x - 72.846
Mg/L
Date
35
30
25
20
15
10
5
0
1/1/2006
3/1/2006
5/1/2006
7/1/2006
9/1/2006
11/1/2006
1/1/2007
3/1/2007
5/1/2007
7/1/2007
9/1/2007
11/1/2007
1/1/2008
3/1/2008
5/1/2008
7/1/2008
9/1/2008
11/1/2008
1/1/2009
3/1/2009
5/1/2009
7/1/2009
9/1/2009
11/1/2009
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011


Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 001
TSS
y = 0.0015x - 53.473
LBS/Day
25.00
20.00
15.00
10.00
5.00
0.00
Date
1/1/2006
3/1/2006
5/1/2006
7/1/2006
9/1/2006
11/1/2006
1/1/2007
3/1/2007
5/1/2007
7/1/2007
9/1/2007
11/1/2007
1/1/2008
3/1/2008
5/1/2008
7/1/2008
9/1/2008
11/1/2008
1/1/2009
3/1/2009
5/1/2009
7/1/2009
9/1/2009
11/1/2009
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011


Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 001
Residual Chlorine
y = 8E-06x + 0.1812
Mg/L
1.20
1.00
0.80
0.60
0.40
0.20
0.00
1/1/2006
3/1/2006
5/1/2006
7/1/2006
9/1/2006
11/1/2006
1/1/2007
3/1/2007
5/1/2007
7/1/2007
9/1/2007
11/1/2007
1/1/2008
3/1/2008
5/1/2008
7/1/2008
9/1/2008
11/1/2008
1/1/2009
3/1/2009
5/1/2009
7/1/2009
9/1/2009
11/1/2009
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
Date


Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 001
Residual Chlorine
y = 3E-05x - 1.0143
lbs/day
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
1/1/2006
3/1/2006
5/1/2006
7/1/2006
9/1/2006
11/1/2006
1/1/2007
3/1/2007
5/1/2007
7/1/2007
9/1/2007
11/1/2007
1/1/2008
3/1/2008
5/1/2008
7/1/2008
9/1/2008
11/1/2008
1/1/2009
3/1/2009
5/1/2009
7/1/2009
9/1/2009
11/1/2009
1/1/2010
3/1/2010
5/1/2010
7/1/2010
9/1/2010
11/1/2010
1/1/2011
3/1/2011
5/1/2011
Date


Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 001
Fecal Coliform
y = 0.0519x - 2015.3
#/100 mL
1800
1600
1400
1200
1000
800
600
400
200
0
1/1/2006
1/1/2007
1/1/2008
1/1/2009
1/1/2010
1/1/2011
Date

Millennium Bulk Terminals - Longview, LLC
Outfall 002 Data - Loadings
January 2006 - June 2011

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
1/1/2006										
1/2/2006										
1/3/2006	1.56									0.26
1/4/2006	1.00		< 41.70	< 41.70	95.19	0.50	6.86	< 0.083	0.11	0.21
1/5/2006	1.00									0.00
1/6/2006	1.00									0.63
1/7/2006										
1/8/2006										
1/9/2006	1.21									0.72
1/10/2006	4.54									0.43
1/11/2006	4.78		< 199.24	279.27	490.72	1.20	51.47	< 0.398	0.43	0.25
1/12/2006	1.02									0.11
1/13/2006	1.40									0.31
1/14/2006										
1/15/2006										
1/16/2006	0.95									0.84
1/17/2006	2.86									0.75
1/18/2006	0.71		4.47	52.98	88.30	0.41	11.60	< 0.059	0.16	0.26
1/19/2006	0.42									0.04
1/20/2006	1.95									0.85
1/21/2006										
1/22/2006										
1/23/2006	0.67									0.14
1/24/2006	1.86									0.00
1/25/2006	4.58		95.65	< 191.07	550.94	4.59	32.33	< 0.382	0.57	0.00
1/26/2006	6.31									0.00
1/27/2006	6.14									0.44
1/28/2006										
1/29/2006										
1/30/2006	6.25									2.85
1/31/2006	6.31									0.06
2/1/2006	7.81		49.53	651.72	1114.44	4.56	82.12	< 0.651	0.59	0.51
2/2/2006	6.24									0.00
2/3/2006	3.91									0.00
2/4/2006										
2/5/2006										
2/6/2006	3.74									1.32
2/7/2006	3.59									0.00
2/8/2006	3.54		22.48	147.88	499.83	3.84	32.53	< 0.295	0.39	0.04
2/9/2006	4.21									0.00
2/10/2006	5.31									0.00
2/11/2006										
2/12/2006										
2/13/2006	4.83									0.05
2/14/2006	4.36									0.15
2/15/2006	4.64		36.81	271.21	530.79	4.26	24.87	< 0.387	0.40	0.00
2/16/2006	4.56									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
2/17/2006	5.22									0.00
2/18/2006										
2/19/2006										
2/20/2006	5.65									0.00
2/21/2006	6.08									0.04
2/22/2006	2.59		16.46	931.02	324.77	2.81	69.07	< 0.216	0.67	0.02
2/23/2006	2.67									0.13
2/24/2006	4.50									0.50
2/25/2006										
2/26/2006										
2/27/2006	5.10									0.31
2/28/2006	2.95									0.49
3/1/2006	2.93		< 121.97	268.66	376.13	2.69	31.75	< 0.244	0.28	0.02
3/2/2006	2.07									0.00
3/3/2006	2.30									0.00
3/4/2006										
3/5/2006										
3/6/2006	2.12									0.08
3/7/2006	3.63									0.33
3/8/2006	2.85		< 118.80	808.83	371.11	2.86	46.86	< 0.238	0.45	0.02
3/9/2006	3.89									0.25
3/10/2006	3.37									1.40
3/11/2006										
3/12/2006										
3/13/2006	2.35									0.10
3/14/2006	2.10									0.02
3/15/2006	1.86		14.73	310.12	122.50	0.93	15.30	< 0.155	0.22	0.11
3/16/2006	2.28									0.12
3/17/2006	4.82									0.13
3/18/2006										
3/19/2006										
3/20/2006	4.55									0.06
3/21/2006	2.23									0.04
3/22/2006	3.28		< 136.69	< 136.69	134.12	0.82	6.02	< 0.273	0.12	0.04
3/23/2006	4.38				171.78		8.41			0.00
3/24/2006	5.36									0.19
3/25/2006										
3/26/2006										
3/27/2006	3.82									0.26
3/28/2006	1.91			< 79.65	73.36		4.53			0.01
3/29/2006	2.63		< 109.46	< 109.46	87.68	0.66	4.84	< 0.219	0.10	0.00
3/30/2006	4.04									0.00
3/31/2006	5.24									0.00
4/1/2006										
4/2/2006										
4/3/2006	4.26									0.91
4/4/2006	3.09			128.88	121.15		7.96			0.08
4/5/2006	3.72		< 155.17	< 155.17	158.46	0.31	9.29	< 0.310	0.22	0.00
4/6/2006	4.70									0.00
4/7/2006	5.99									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
4/8/2006										
4/9/2006										
4/10/2006	6.06									0.59
4/11/2006	5.41			< 225.47	185.11		9.26			0.00
4/12/2006	7.16		< 298.61	< 298.61	263.10	0.60	10.22	< 0.597	< 0.12	0.09
4/13/2006	2.48									0.00
4/14/2006										
4/15/2006										
4/16/2006										
4/17/2006	4.25									0.70
4/18/2006	6.16			< 256.83	216.00		13.17			0.07
4/19/2006	6.55		< 273.22	< 273.22	260.42	0.55	11.98	< 0.546	< 0.11	0.00
4/20/2006	6.32									0.00
4/21/2006	4.60									0.00
4/22/2006										
4/23/2006										
4/24/2006	2.47									0.00
4/25/2006	3.68			< 153.41	95.23		2.49			0.00
4/26/2006	4.94		< 205.91	247.39	148.85	0.82	8.99	< 0.412	< 0.08	0.00
4/27/2006	7.37									0.00
4/28/2006	4.92									0.00
4/29/2006										
4/30/2006										
5/1/2006	4.84									0.00
5/2/2006	1.21									0.00
5/3/2006	1.56		< 65.22	91.42	26.12	< 0.07	1.06	< 0.130	< 0.03	0.00
5/4/2006	0.99									0.00
5/5/2006	1.19			< 49.50	23.69		1.09	< 0.099	< 0.02	0.00
5/6/2006										
5/7/2006										
5/8/2006	1.07									0.45
5/9/2006	0.73									0.00
5/10/2006	1.52		< 63.38	< 63.38	41.88	< 0.06	2.93	< 0.127	0.08	0.00
5/11/2006	1.44									0.00
5/12/2006	1.40			< 58.17	29.12		1.70	< 0.116	0.05	0.00
5/13/2006										
5/14/2006										
5/15/2006	0.84									0.00
5/16/2006	1.00		< 41.70	< 41.70	16.70	0.08	0.99	< 0.083	< 0.02	0.00
5/17/2006	1.42									0.00
5/18/2006	1.60			66.84	26.74		1.84			0.00
5/19/2006	1.65									0.00
5/20/2006										
5/21/2006										
5/22/2006										0.92
5/23/2006	2.54		< 105.88	339.21	212.01	0.21	33.92	< 0.212	1.73	0.72
5/24/2006	2.63									0.34
5/25/2006	2.59			259.42	187.43		23.78	< 0.216	0.57	0.19
5/26/2006	3.37									0.47
5/27/2006										

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
5/28/2006										
5/29/2006										
5/30/2006	2.34									0.60
5/31/2006	1.99									0.00
6/1/2006	2.08		< 86.61	< 86.61	50.47	< 0.09	2.41	< 0.173	< 0.03	0.02
6/2/2006	2.66			221.69	117.72		7.36	< 0.221	0.20	0.49
6/3/2006										
6/4/2006										
6/5/2006	2.06									0.30
6/6/2006	2.05		< 85.57	119.94	96.29	< 0.09	7.92	< 0.171	0.33	0.00
6/7/2006	2.02									0.00
6/8/2006	2.18									0.00
6/9/2006	2.04			119.35	86.96		4.72			0.03
6/10/2006										
6/11/2006										
6/12/2006	1.98									0.00
6/13/2006	1.95		< 81.36	< 81.36	43.99	0.33	3.19	< 0.163	0.07	0.18
6/14/2006	2.59									0.01
6/15/2006	1.76			< 73.56	30.93		1.91			0.07
6/16/2006	2.37									0.04
6/17/2006										
6/18/2006										
6/19/2006	1.67									0.00
6/20/2006	1.41		< 58.80	< 58.80	20.01	< 0.06	1.46	< 0.118	< 0.02	0.00
6/21/2006	1.48									0.00
6/22/2006	1.47			< 61.30	22.09		1.74	< 0.123	< 0.02	0.00
6/23/2006	1.50									0.00
6/24/2006										
6/25/2006										
6/26/2006	1.87									0.00
6/27/2006	2.27									0.00
6/28/2006	2.44			489.78	38.77		4.08	< 0.204	0.08	0.00
6/29/2006	2.68									0.00
6/30/2006	2.35		< 97.83	< 97.83	41.14	< 0.10	2.94	< 0.196	< 0.04	0.00
7/1/2006										
7/2/2006										
7/3/2006										
7/4/2006										
7/5/2006	2.16		< 90.06	90.17	27.05	< 0.09	2.98	< 0.180	< 0.04	0.00
7/6/2006	2.08									0.00
7/7/2006	2.07			172.68	24.17		1.61			0.00
7/8/2006										
7/9/2006										
7/10/2006	1.96									0.00
7/11/2006	1.99									0.00
7/12/2006	2.10		< 87.53	140.21	31.55	0.35	3.82	< 0.175	< 0.04	0.24
7/13/2006	2.19									0.08
7/14/2006	2.02			101.00	50.50		6.30			0.00
7/15/2006										
7/16/2006										

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
7/17/2006	1.99									0.00
7/18/2006	3.72									0.00
7/19/2006	3.26		< 136.03	245.14	247.86	59.92	40.86	< 0.272	0.47	0.00
7/20/2006	3.74									0.00
7/21/2006	3.69			< 153.96	131.64		13.07			0.00
7/22/2006										
7/23/2006										
7/24/2006	3.71									0.00
7/25/2006	2.16		100.32	< 89.95	20.89	1.07	< 1.80	< 0.180	0.05	0.00
7/26/2006	2.31									0.00
7/27/2006	2.23			< 92.95	28.48		2.27			0.00
7/28/2006	2.75									0.00
7/29/2006										
7/30/2006										
7/31/2006	2.26									0.05
8/1/2006	2.57		< 107.21							0.00
8/2/2006	2.44			< 101.79	30.78	0.13	2.34	< 0.204	< 0.04	0.00
8/3/2006	1.98									0.00
8/4/2006	1.86			< 77.65	47.73		3.81			0.00
8/5/2006										
8/6/2006										
8/7/2006	2.02									0.00
8/8/2006	2.23		< 93.07	< 93.07	34.85	0.54	< 1.86	< 0.186	0.05	0.00
8/9/2006	2.16									0.05
8/10/2006	2.07			< 86.28	45.78		1.93			0.00
8/11/2006	1.98									0.00
8/12/2006										
8/13/2006										
8/14/2006	2.19									0.00
8/15/2006	2.36									0.00
8/16/2006	2.03		< 84.78	< 84.78	16.98	< 0.08	< 1.70	< 0.170	< 0.03	0.00
8/17/2006	2.13									0.00
8/18/2006	2.06			< 85.82	18.56		1.79			0.00
8/19/2006										
8/20/2006										
8/21/2006	2.20									0.00
8/22/2006	2.37		< 98.91	< 98.91	23.57	0.50	4.44	< 0.198	0.05	0.00
8/23/2006	2.08									0.00
8/24/2006	2.26			< 94.16	21.49		5.18			0.00
8/25/2006	2.02									0.00
8/26/2006										
8/27/2006										
8/28/2006	2.12									0.00
8/29/2006	1.98		< 82.61	281.20	226.62	35.89	35.56	< 0.165	0.32	0.00
8/30/2006	3.39									0.51
8/31/2006	2.61			218.02	176.59		19.49			0.00
9/1/2006	2.53									0.00
9/2/2006										
9/3/2006										
9/4/2006										

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
9/5/2006	2.11		< 88.12	< 88.12	23.29	0.52	1.21	< 0.176	< 0.04	0.00
9/6/2006	1.86									0.00
9/7/2006	1.79			< 74.64	20.03		1.27			0.00
9/8/2006	1.89									0.00
9/9/2006										
9/10/2006										
9/11/2006	2.06									0.02
9/12/2006	2.19		< 91.45	< 91.45	18.68	0.20	< 1.83	< 0.183	< 0.04	0.00
9/13/2006	1.97									0.00
9/14/2006	2.72			< 113.30	20.42		< 2.27			0.18
9/15/2006	1.82									0.00
9/16/2006										
9/17/2006										
9/18/2006	2.38									0.76
9/19/2006	2.23		< 92.78							0.18
9/20/2006	2.12			< 88.32	55.00	0.40	4.85	< 0.177	0.08	0.03
9/21/2006	3.07									0.38
9/22/2006	1.84			< 76.69	50.83		4.62			0.01
9/23/2006										
9/24/2006										
9/25/2006	2.02									0.00
9/26/2006	2.28		< 95.24	< 95.24	36.62	0.37	< 1.90	< 0.190	0.04	0.00
9/27/2006	2.47									0.00
9/28/2006	2.27			< 94.70	18.96		< 1.89			0.00
9/29/2006	2.65									0.00
9/30/2006										
10/1/2006										
10/2/2006	2.43									0.00
10/3/2006	2.54		< 105.96	< 105.96	23.13	0.27	< 2.12	< 0.212	< 0.04	0.00
10/4/2006	2.44									0.00
10/5/2006	2.45			< 102.08	21.05		< 2.04			0.00
10/6/2006	2.68									0.07
10/7/2006										
10/8/2006										
10/9/2006	2.97									0.17
10/10/2006	3.10		< 129.14	< 129.14	26.12	0.18	< 2.58	< 0.258	< 0.05	0.00
10/11/2006	3.20									0.00
10/12/2006	2.42			< 100.96	14.15		< 2.02			0.00
10/13/2006	2.38									0.00
10/14/2006										
10/15/2006										
10/16/2006	2.88									0.53
10/17/2006	2.51		< 104.63	< 104.63	53.84	0.57	3.39	< 0.209	0.08	0.03
10/18/2006	2.44									0.01
10/19/2006	3.22			< 134.23	47.31		< 2.68			0.35
10/20/2006	2.66									0.03
10/21/2006										
10/22/2006										
10/23/2006	2.37									0.01
10/24/2006	2.42		< 100.83	< 100.83	27.26	0.33	< 2.02	< 0.202	< 0.04	0.04

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
10/25/2006	3.01									0.37
10/26/2006	2.17			< 90.66	58.63		4.45			0.01
10/27/2006	2.44									0.00
10/28/2006										
10/29/2006										
10/30/2006	2.07									0.07
10/31/2006	2.34		< 97.45	214.65	40.98	0.38	4.14	< 0.195	0.16	0.00
11/1/2006	2.42									0.00
11/2/2006	2.83			< 117.97	31.18		< 2.36			0.28
11/3/2006	3.91									0.71
11/4/2006										
11/5/2006										
11/6/2006	5.56									4.97
11/7/2006	9.25		< 385.60	849.34	596.08	3.89	98.83	< 0.771	0.72	3.06
11/8/2006	6.95									0.38
11/9/2006	2.78			< 115.93	187.79		28.32			0.34
11/10/2006	2.29									0.16
11/11/2006										
11/12/2006										
11/13/2006	3.20									1.49
11/14/2006	2.77		< 115.68	< 115.68	145.46	0.42	19.06	< 0.231	0.16	0.32
11/15/2006	2.24									0.00
11/16/2006	2.97			< 124.02	210.58		20.76			0.25
11/17/2006	2.52									0.00
11/18/2006										
11/19/2006										
11/20/2006	2.69		< 112.34	< 112.34	146.67	1.96	14.08	< 0.225	0.10	0.32
11/21/2006	3.31									0.55
11/22/2006	3.40			368.85	261.03		33.48			0.34
11/23/2006										
11/24/2006										
11/25/2006										
11/26/2006										
11/27/2006	4.25									2.72
11/28/2006	3.36		< 139.95	< 139.95	258.65	1.20	25.19	< 0.280	0.15	0.10
11/29/2006	2.94									0.06
11/30/2006	3.19			< 132.86	232.78		17.90			0.23
12/1/2006	2.65									0.05
12/2/2006										
12/3/2006										
12/4/2006	2.42									0.01
12/5/2006	2.49		< 103.75	< 103.75	102.42	1.26	7.08	< 0.207	0.06	0.02
12/6/2006	2.46									0.00
12/7/2006	2.43			< 101.29	110.33		7.26			0.00
12/8/2006	2.39									0.00
12/9/2006										
12/10/2006										
12/11/2006	2.80									0.32
12/12/2006	3.37		< 140.40	393.60	157.44	2.14	48.92	< 0.281	0.20	0.63
12/13/2006	4.59									0.74

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
12/14/2006	3.04			< 126.60	327.02		30.42			0.34
12/15/2006	7.27									1.38
12/16/2006										
12/17/2006										
12/18/2006	2.74		< 114.42	252.04	186.28	2.05	51.78	< 0.229	0.13	0.14
12/19/2006	2.47									0.00
12/20/2006	2.11			581.13	111.82		12.63			0.01
12/21/2006	3.24									0.57
12/22/2006	3.12									0.29
12/23/2006										
12/24/2006										
12/25/2006										
12/26/2006	3.41		< 142.22	370.21	219.28	1.68	26.34	< 0.284	0.14	1.38
12/27/2006	5.35									0.81
12/28/2006	3.51			263.48	243.57		24.91			0.00
12/29/2006	3.10									0.00
12/30/2006										
12/31/2006										
1/1/2007										
1/2/2007	2.67		< 111.32	200.61	96.29	1.21	9.74	< 0.223	0.07	0.08
1/3/2007	7.24									2.02
1/4/2007	4.41			515.76	313.51		42.37			0.24
1/5/2007	3.30									0.08
1/6/2007										
1/7/2007										
1/8/2007	5.74									2.67
1/9/2007	3.29		< 137.28	329.86	206.44	0.60	25.37	< 0.275	0.16	0.02
1/10/2007	3.69									0.34
1/11/2007	3.70			494.45	251.55		30.44			0.15
1/12/2007	2.99									0.03
1/13/2007										
1/14/2007										
1/15/2007	3.02									0.00
1/16/2007	2.96		< 123.52	346.26	140.48	0.62	9.89	< 0.247	0.07	0.03
1/17/2007	2.84									0.02
1/18/2007	3.06			255.84	133.04		14.25			0.07
1/19/2007	3.19									0.10
1/20/2007										
1/21/2007										
1/22/2007	2.73									0.23
1/23/2007	2.72		< 113.59	318.44	111.00	0.91	14.38	< 0.227	0.12	0.01
1/24/2007	2.68									0.00
1/25/2007	2.45			122.64	83.40		6.15			0.00
1/26/2007	2.30									0.00
1/27/2007										
1/28/2007										
1/29/2007	2.24									0.02
1/30/2007	2.13		< 88.78	195.55	41.24	0.25	6.40	< 0.178	< 0.04	0.00
1/31/2007	2.15									0.00
2/1/2007	2.14			107.11	38.03		3.09			0.00
2/2/2007	2.12									0.00
2/3/2007										
2/4/2007										
2/5/2007	2.00									0.21

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
2/6/2007	2.29		< 95.37	114.58	73.14	0.73	10.66	< 0.191	0.08	0.01
2/7/2007	2.35									0.01
2/8/2007	2.37			157.98	90.44		5.08			0.17
2/9/2007	2.13									0.15
2/10/2007										
2/11/2007										
2/12/2007	2.09									0.08
2/13/2007	2.27		< 94.62	170.52	79.95	0.74	6.38	< 0.189	0.06	0.03
2/14/2007	2.31									0.07
2/15/2007	3.87			290.61	181.14		15.79			1.08
2/16/2007	3.47									0.39
2/17/2007										
2/18/2007										
2/19/2007	2.22									0.39
2/20/2007	4.99		< 208.17	625.25	317.63	2.67	62.11	< 0.416	0.29	1.35
2/21/2007	3.92									0.33
2/22/2007	2.39			279.62	171.97		33.95			0.01
2/23/2007	2.35									0.23
2/24/2007										
2/25/2007										
2/26/2007	2.32									0.42
2/27/2007	2.58		< 107.75	151.03	160.31	1.19	14.67	< 0.216	0.12	0.26
2/28/2007	3.57									0.36
3/1/2007	2.71			203.7	186.8		19.5			0.29
3/2/2007	2.46									0.15
3/3/2007										
3/4/2007										
3/5/2007	2.13									0.15
3/6/2007	2.42		< 100.96	101.1	128.2	< 0.10	8.3	< 0.202	< 0.04	0.00
3/7/2007	2.30									0.11
3/8/2007	2.59			173.1	149.6		13.2			0.22
3/9/2007	2.42									0.01
3/10/2007										
3/11/2007										
3/12/2007	3.05									0.56
3/13/2007	2.48		< 103.21	558.0	131.0	< 0.10	51.0	< 0.206	0.1	0.00
3/14/2007	2.50									0.09
3/15/2007	2.35			235.8	105.3		18.1			0.00
3/16/2007	2.63									0.00
3/17/2007										
3/18/2007										
3/19/2007	2.73									0.07
3/20/2007	3.37			309.2	110.2	< 0.14	20.2	< 0.281	0.1	0.44
3/21/2007	2.53		< 105.67							0.03
3/22/2007	2.31			96.3	83.0		9.1			0.01
3/23/2007	2.26									0.02
3/24/2007										
3/25/2007										
3/26/2007	3.33									1.06
3/27/2007	2.64		< 110.25	154.5	125.2	< 0.11	14.8	< 0.221	0.1	0.04
3/28/2007	2.61									0.01
3/29/2007	2.60			< 108.38	78.3		5.7			0.00
3/30/2007	2.42									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
3/31/2007										
4/1/2007										
4/2/2007	2.60									0.12
4/3/2007	2.51		< 104.67	< 104.67	69.37	< 0.10	4.07	< 0.209	< 0.04	0.01
4/4/2007	2.60									0.01
4/5/2007	2.65			< 110.63	59.37		2.97			0.00
4/6/2007										
4/7/2007										
4/8/2007										
4/9/2007	3.05									1.27
4/10/2007	3.65		< 152.00	456.54	168.01	0.79	41.70	< 0.304	0.21	0.55
4/11/2007	2.45									0.03
4/12/2007	2.84			189.51	136.69		15.45			0.10
4/13/2007	2.93									0.11
4/14/2007										
4/15/2007										
4/16/2007	2.85							< 0.238		0.09
4/17/2007	2.92		< 121.68	< 121.68	96.49	0.51	6.16		0.09	0.10
4/18/2007	2.63									0.13
4/19/2007	2.32			174.57	83.21		6.50			0.04
4/20/2007	2.43									0.00
4/21/2007										
4/22/2007										
4/23/2007	2.76									0.11
4/24/2007	2.70		< 112.46	112.60	83.32	0.36	5.49	< 0.225	0.08	0.05
4/25/2007	2.81									0.09
4/26/2007	2.66			< 110.88	82.82		4.26			0.01
4/27/2007	2.69									0.00
4/28/2007										
4/29/2007										
4/30/2007	2.64									0.00
5/1/2007	2.77		< 115.63	< 115.63	50.01	0.23	3.40	< 0.231	0.05	0.17
5/2/2007	2.85									0.13
5/3/2007	2.81			422.79	75.87		28.89			0.28
5/4/2007	2.76									0.37
5/5/2007										
5/6/2007										
5/7/2007	2.14									0.00
5/8/2007	2.29		< 95.66	95.77	42.91	0.19	3.97	< 0.191	< 0.04	0.00
5/9/2007	2.59									0.00
5/10/2007	2.48			103.71	41.28		2.14			0.00
5/11/2007	2.50									0.00
5/12/2007										
5/13/2007										
5/14/2007	2.54									0.00
5/15/2007	2.14		< 89.11	< 89.11	31.58	< 0.09	< 1.78	< 0.178	0.02	0.00
5/16/2007	1.86									0.00
5/17/2007	2.75			< 114.47	36.44		< 2.29			0.00
5/18/2007	3.34									0.00
5/19/2007										
5/20/2007										
5/21/2007	4.87									0.75
5/22/2007	5.76		< 240.11	528.87	146.64	0.48	23.70	< 0.480	0.14	0.00
5/23/2007	5.74									0.00
5/24/2007	6.08			< 253.58	94.95		5.48			0.00
5/25/2007	6.27									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
5/26/2007										
5/27/2007										
5/28/2007										
5/29/2007	6.01		< 250.82	< 250.82	61.27	< 0.25	< 5.02	< 0.502	< 0.10	0.02
5/30/2007	5.59									0.00
5/31/2007	6.23			< 259.79	74.91		< 5.20			0.00
6/1/2007	5.86	7.28								0.00
6/2/2007										
6/3/2007										
6/4/2007	6.10	7.25								0.02
6/5/2007	6.38	7.12	< 266.05	319.64	88.43	< 0.27	7.19	< 0.532	0.10	0.17
6/6/2007	6.18	7.16								0.02
6/7/2007	6.20	7.18		< 258.67	58.53		< 5.17			0.01
6/8/2007	6.10	7.22								0.00
6/9/2007										
6/10/2007										
6/11/2007	6.14	7.14								0.33
6/12/2007	6.76	7.28	< 281.68	394.83	69.38	< 0.28	< 5.63	< 0.563	0.06	0.01
6/13/2007	5.14	7.26								0.00
6/14/2007	5.98	7.19		< 249.32	58.91		< 4.99			0.00
6/15/2007	6.03	7.09								0.11
6/16/2007										
6/17/2007										
6/18/2007	6.82	7.09								0.05
6/19/2007	3.75	7.03	< 156.54	< 156.54	38.24	< 0.16	5.02	< 0.313	< 0.06	0.00
6/20/2007	5.95	7.15								0.00
6/21/2007	6.01	7.19		< 250.53	56.19		2.61			0.00
6/22/2007	5.93	7.16								0.00
6/23/2007										
6/24/2007										
6/25/2007	6.08	7.02								0.28
6/26/2007	5.97	6.80	< 248.74	298.85	106.59	< 0.25	19.43	< 0.497	1.49	0.00
6/27/2007	2.95	6.90								0.00
6/28/2007	3.44	6.83		201.24	73.60		28.17			0.03
6/29/2007	4.60	6.79								0.27
6/30/2007										
7/1/2007										
7/2/2007	5.47									0.00
7/3/2007	5.62		< 234.48	< 234.48	53.99	< 0.23	25.21	< 0.469	0.35	0.00
7/4/2007	5.88									0.00
7/5/2007	5.96			< 248.45	47.26		7.11			0.00
7/6/2007										
7/7/2007										
7/8/2007										
7/9/2007	5.95									0.00
7/10/2007	2.49		< 103.92	749.10	18.10	< 0.10	21.85	< 0.208	0.43	0.00
7/11/2007	1.74									0.00
7/12/2007	1.39			< 57.80	11.92		< 1.16			0.00
7/13/2007	1.54									0.02
7/14/2007										
7/15/2007										
7/16/2007	1.40									0.00
7/17/2007	1.82		< 75.69	136.40	15.46	< 0.08	3.96	< 0.151	0.08	0.29
7/18/2007	1.75									0.18
7/19/2007	2.40			260.95	103.98		19.09			0.59
7/20/2007	1.94									0.46

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
7/21/2007										
7/22/2007										
7/23/2007	1.65									0.19
7/24/2007	1.67		< 69.72	223.38	24.15	< 0.07	13.22	< 0.139	0.12	0.01
7/25/2007	1.52									0.00
7/26/2007	1.61			< 66.93	23.05		2.13			0.00
7/27/2007	1.51									0.00
7/28/2007										
7/29/2007										
7/30/2007	1.57									0.02
7/31/2007	1.50		< 62.68	< 62.68	10.79	< 0.06	< 1.25	< 0.125	0.03	0.00
8/1/2007	1.55									0.00
8/2/2007	1.46			< 60.80	9.86		< 1.22			0.00
8/3/2007	1.44									0.00
8/4/2007										
8/5/2007										
8/6/2007	1.63									0.02
8/7/2007	1.65		< 68.72	< 68.72	10.18	< 0.07	1.54	< 0.137	0.04	0.00
8/8/2007	1.63									0.02
8/9/2007	1.64			< 68.47	10.42		< 1.37			0.00
8/10/2007	1.49									0.00
8/11/2007										
8/12/2007										
8/13/2007	1.56									0.00
8/14/2007	1.41		< 58.80	< 58.80	11.30	< 0.06	< 1.18	< 0.118	0.02	0.00
8/15/2007	1.37									0.00
8/16/2007	1.32			< 55.17	10.72		< 1.10			0.00
8/17/2007	1.75									0.13
8/18/2007										
8/19/2007										
8/20/2007	1.69									0.45
8/21/2007	1.63		< 67.76	< 67.76	22.93	< 0.07	1.41	< 0.136	0.02	0.03
8/22/2007	1.46									0.00
8/23/2007	1.55			< 64.47	12.65		< 1.29			0.00
8/24/2007	1.44									0.00
8/25/2007										
8/26/2007										
8/27/2007	1.56									0.00
8/28/2007	1.54		< 64.13	< 64.13	9.25	< 0.06	< 1.28	< 0.128	< 0.03	0.00
8/29/2007	1.54									0.00
8/30/2007	1.54			< 64.13	9.12		< 1.28			0.00
8/31/2007	1.54									0.00
9/1/2007										
9/2/2007										
9/3/2007										
9/4/2007	1.67		< 69.76	139.68	10.06	< 0.14	< 1.40	< 0.140	0.02	0.05
9/5/2007	1.54									0.00
9/6/2007	1.54			< 64.13	9.37		< 1.28			0.00
9/7/2007	1.54									0.00
9/8/2007										
9/9/2007										
9/10/2007	1.54									0.00
9/11/2007	1.54		< 64.13	< 64.21	6.68	< 0.13	< 1.28	< 0.128	< 0.03	0.00
9/12/2007	1.54									0.00
9/13/2007	1.54			< 64.13	7.58		2.50			0.00
9/14/2007	1.54									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
9/15/2007										
9/16/2007										
9/17/2007	2.00									0.17
9/18/2007	1.65		< 68.63	68.72	15.39	< 0.14	1.48	< 0.137	0.02	0.04
9/19/2007	1.54									0.00
9/20/2007	1.54			64.21	8.35		< 1.28			0.00
9/21/2007	1.56									0.01
9/22/2007										
9/23/2007										
9/24/2007	1.54									0.00
9/25/2007	1.54			< 64.13	7.83	0.13	< 1.28	< 0.128	0.01	0.00
9/26/2007	1.54									0.00
9/27/2007	1.54			< 64.13	7.71		< 1.28			0.00
9/28/2007	2.37		< 99.00							0.31
9/29/2007										
9/30/2007										
10/1/2007	2.75									0.45
10/2/2007	1.81		< 75.38	< 75.38	27.02	< 0.08	3.77	< 0.151	< 0.03	0.10
10/3/2007	3.45									0.71
10/4/2007	2.48			207.23	63.62		10.78			0.35
10/5/2007	1.52									0.02
10/6/2007										
10/7/2007										
10/8/2007	1.80									0.29
10/9/2007	1.54		< 64.13	128.42	15.28	< 0.06	< 1.28	< 0.128	0.02	0.00
10/10/2007	1.62									0.03
10/11/2007	2.05			171.18	35.78	< 0.09	10.07			0.19
10/12/2007	1.73									0.07
10/13/2007										
10/14/2007										
10/15/2007	1.59									0.02
10/16/2007	1.94		< 81.00	162.20	27.41	< 0.08	9.41	< 0.162	0.04	0.15
10/17/2007	1.81									0.17
10/18/2007	3.13			261.28	43.63		15.42			0.59
10/19/2007	2.64									0.41
10/20/2007										
10/21/2007										
10/22/2007	2.45									1.01
10/23/2007	1.54		< 64.13	128.42	26.07	0.16	2.70	< 0.128	< 0.03	0.00
10/24/2007	1.57									0.01
10/25/2007	1.57			< 65.26	20.26		1.19			0.01
10/26/2007	1.54									0.00
10/27/2007										
10/28/2007										
10/29/2007	1.57									0.01
10/30/2007	1.57		78.15	< 65.26	10.72	< 0.07	0.97	< 0.131	< 0.03	0.01
10/31/2007	1.54									0.00
11/1/2007	1.54			< 64.13	15.03		0.80			0.00
11/2/2007	1.54									0.00
11/3/2007										
11/4/2007										
11/5/2007	1.54									0.00
11/6/2007	1.54									0.00
11/7/2007	1.57		< 65.26	< 65.26	18.56	0.18	< 1.31	< 0.131	< 0.03	0.01
11/8/2007	1.54			< 64.13	13.10		< 1.28			0.00
11/9/2007	1.54									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
11/10/2007										
11/11/2007										
11/12/2007	2.17									0.66
11/13/2007	2.97		< 123.74	247.77	67.15	0.53	15.49	< 0.247	0.08	0.53
11/14/2007	1.57									0.01
11/15/2007	1.59			< 66.38	30.84		2.50			0.02
11/16/2007	3.45									0.71
11/17/2007										
11/18/2007										
11/19/2007	2.25									0.79
11/20/2007	2.24		< 93.37							0.26
11/21/2007	1.54			128.42	48.42	0.53	10.35	< 0.128	0.04	0.00
11/22/2007										
11/23/2007	1.54			128.42	31.08		4.19			0.00
11/24/2007										
11/25/2007										
11/26/2007	1.54									0.01
11/27/2007	2.67			223.03	44.38	0.47	10.55	< 0.223	< 0.04	0.42
11/28/2007	1.89									0.13
11/29/2007	3.34			279.29	97.19		20.64			0.67
11/30/2007	1.70									0.06
12/1/2007										
12/2/2007										
12/3/2007	5.26									4.14
12/4/2007	3.30									0.62
12/5/2007	1.88		78.60	314.76	109.54	0.34	36.04	< 0.157	0.11	0.09
12/6/2007	2.32									0.25
12/7/2007	1.86			155.59	97.09		10.35			0.08
12/8/2007										
12/9/2007										
12/10/2007	1.69									0.12
12/11/2007	1.54		64.13	128.42	58.05	0.67	7.76	< 0.128	0.04	0.00
12/12/2007	1.67									0.01
12/13/2007	1.73			144.51	79.19		7.10			0.03
12/14/2007	1.67									0.01
12/15/2007										
12/16/2007										
12/17/2007	2.13									0.64
12/18/2007	2.19		91.36	182.95	104.10	0.91	16.65	< 0.183	0.42	0.21
12/19/2007	1.81									0.09
12/20/2007	4.99			416.66	259.99		56.67			1.28
12/21/2007	2.17									0.20
12/22/2007										
12/23/2007										
12/24/2007	2.76									1.34
12/25/2007										
12/26/2007	2.30									0.56
12/27/2007	1.86		< 77.63	< 77.63	90.47	0.61	10.15	< 0.155	0.06	0.12
12/28/2007	3.00									0.53
12/29/2007										
12/30/2007										
12/31/2007	2.42									0.97
1/1/2008	2.47			206.70	124.00		10.66			
1/2/2008	2.47									0.08
1/3/2008	2.82		< 114.00	235.50	135.40	1.30	9.72	< 0.024	0.07	0.13
1/4/2008	3.14									0.25

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
1/5/2008										
1/6/2008										
1/7/2008	3.39									1.02
1/8/2008	3.27		< 131.30	273.00	181.00	1.60	20.12	< 0.027	0.08	0.30
1/9/2008	3.50									0.38
1/10/2008	2.98			248.80	173.40		17.47			0.19
1/11/2008	4.32									0.76
1/12/2008										
1/13/2008										
1/14/2008	2.89									0.46
1/15/2008	3.45		< 138.60	288.10	187.50	1.70	27.89	< 0.029	0.10	0.36
1/16/2008	2.52									0.02
1/17/2008	2.47			< 103.00	131.00		8.95			0.00
1/18/2008	2.52									0.02
1/19/2008										
1/20/2008										
1/21/2008	2.47									0.12
1/22/2008	2.35		< 94.40	196.20	81.40	0.90	8.95	< 0.020	< 0.04	0.00
1/23/2008	2.35									0.00
1/24/2008	2.35			302.20	82.60		8.54			0.00
1/25/2008	2.35									0.00
1/26/2008										
1/27/2008										
1/28/2008	2.62									0.30
1/29/2008	3.05		< 122.50	254.70	131.40	1.20	17.29	< 0.026	0.12	0.26
1/30/2008	3.89									0.57
1/31/2008	3.16			263.90	135.60		20.50			0.30
2/1/2008	4.32									0.73
2/2/2008										
2/3/2008										
2/4/2008	3.07									0.80
2/5/2008	2.69		< 106.90	224.60	149.10	1.00	15.99	< 0.023	0.05	0.09
2/6/2008	3.90									0.53
2/7/2008	4.32			360.70	235.60		60.24			0.96
2/8/2008	3.63									0.43
2/9/2008										
2/10/2008										
2/11/2008	3.33									0.95
2/12/2008	2.47		< 99.20	206.20	143.10	1.00	15.72	< 0.021	0.07	0.00
2/13/2008	2.85									0.14
2/14/2008	2.50			417.50	123.60		20.69			0.01
2/15/2008	2.47									0.00
2/16/2008										
2/17/2008										
2/18/2008	2.47									0.00
2/19/2008	2.47		< 100.00	206.20	93.20	0.80	10.62	< 0.021	0.07	0.00
2/20/2008	2.50									0.01
2/21/2008	2.47			206.20	94.50		9.73			0.00
2/22/2008	2.45									0.00
2/23/2008										
2/24/2008										
2/25/2008	2.60									0.14
2/26/2008	2.90		< 117.40	242.20	118.20	0.90	17.36	< 0.024	0.12	0.16
2/27/2008	2.48									0.00
2/28/2008	2.38			198.70	91.80		8.15			0.00
2/29/2008	2.35									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
3/1/2008										
3/2/2008										
3/3/2008	2.76									0.45
3/4/2008	2.76		< 109.70	230.50	98.40	0.70	14.89	< 0.023	0.38	0.15
3/5/2008	2.41									0.02
3/6/2008	2.35			< 98.00	67.10		5.85			0.00
3/7/2008	2.35									0.00
3/8/2008										
3/9/2008										
3/10/2008	2.43									0.09
3/11/2008	2.78		< 113.70	232.10	63.40	0.50	9.68	< 0.023	0.11	0.16
3/12/2008	2.68									0.12
3/13/2008	3.11			155.80	81.50		12.34			0.28
3/14/2008	3.46									0.41
3/15/2008										
3/16/2008										
3/17/2008	2.65									0.33
3/18/2008	2.65		< 106.40	88.50	79.90	0.70	11.29	< 0.022	0.07	0.11
3/19/2008	2.46									0.04
3/20/2008	2.73			186.00	75.50		9.10			0.14
3/21/2008	3.48									0.42
3/22/2008										
3/23/2008										
3/24/2008	2.68									0.36
3/25/2008	2.35		< 95.20	196.20	95.40	0.50	14.80	< 0.020	0.09	0.00
3/26/2008	2.84									0.18
3/27/2008	3.51			293.10	131.60		34.58			0.43
3/28/2008	2.68									0.12
3/29/2008										
3/30/2008										
3/31/2008	3.31									1.07
4/1/2008	2.41		< 100.60	200.90	93.20	0.50	16.66	< 0.020	0.10	0.02
4/2/2008	2.45									0.00
4/3/2008	2.46			164.30	111.70		19.14			0.00
4/4/2008	2.52									0.02
4/5/2008										
4/6/2008										
4/7/2008	2.74									0.31
4/8/2008	2.98		< 124.40	248.80	123.20	0.70	25.13	< 0.025	0.10	0.19
4/9/2008	2.65									0.07
4/10/2008	2.52			126.30	93.60		11.78			0.02
4/11/2008	2.47									0.00
4/12/2008										
4/13/2008										
4/14/2008	2.50									0.15
4/15/2008	2.84		< 118.60	191.60	87.00	0.50	14.68	< 0.024	0.10	0.14
4/16/2008	2.68									0.08
4/17/2008	2.47			82.50	84.80		6.91			0.00
4/18/2008	2.60									0.05
4/19/2008										
4/20/2008										
4/21/2008	2.75									0.43
4/22/2008	3.43		< 143.20	343.70	146.10	0.70	27.95	< 0.029	0.63	0.36
4/23/2008	2.73									0.10
4/24/2008	2.60			217.10	125.90		13.92			0.05
4/25/2008	2.51									0.02

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
4/26/2008										
4/27/2008										
4/28/2008	2.45									0.09
4/29/2008	2.43		< 101.50	121.70	55.00	0.40	5.44	< 0.020	0.06	0.03
4/30/2008	2.51									0.04
5/1/2008	2.51			41.90	67.90		5.83			0.02
5/2/2008	2.46									0.00
5/3/2008										
5/4/2008										
5/5/2008	2.37									0.01
5/6/2008	2.45		< 102.30	81.80	45.60	0.20	4.23	< 0.021	0.04	0.00
5/7/2008	2.46									0.00
5/8/2008	2.45			81.80	63.60		3.52			0.00
5/9/2008	2.45									0.00
5/10/2008										
5/11/2008										
5/12/2008	2.45									0.10
5/13/2008	2.35		< 98.10	117.70	39.20	0.20	3.12	< 0.020	0.02	0.00
5/14/2008	2.81									0.17
5/15/2008	2.38			159.00	47.70		6.26			0.01
5/16/2008	2.35									0.00
5/17/2008										
5/18/2008										
5/19/2008	2.48									0.00
5/20/2008	2.53		< 105.60	253.50	72.00	0.20	13.48	< 0.021	0.14	0.41
5/21/2008	2.41									0.05
5/22/2008	2.48			290.30	98.60		14.18			0.02
5/23/2008	2.46									0.01
5/24/2008										
5/25/2008										
5/26/2008	2.48									0.19
5/27/2008	2.48		< 103.50	248.50	46.80	0.30	12.34	< 0.021	0.06	0.01
5/28/2008	2.53									0.04
5/29/2008	2.47			165.00	53.00		10.89			0.00
5/30/2008	2.46									0.00
5/31/2008										
6/1/2008										
6/2/2008	2.46									0.00
6/3/2008	2.70		< 108.60	316.10	60.70	0.30	14.97	< 0.023	0.07	0.81
6/4/2008	2.66									0.03
6/5/2008	2.31			115.60	54.90		5.76			0.00
6/6/2008	2.45									0.33
6/7/2008										
6/8/2008										
6/9/2008	2.55									0.37
6/10/2008	2.55		< 106.60	128.00	50.30	0.30	6.57	< 0.021	0.04	0.42
6/11/2008	2.56									0.02
6/12/2008	2.35			39.20	44.50		4.14			0.00
6/13/2008	2.98									0.00
6/14/2008										
6/15/2008										
6/16/2008	2.45									0.00
6/17/2008	2.40		< 99.10	40.00	27.60	< 0.10	< 2.00	< 0.020	0.02	0.00
6/18/2008	2.41									0.00
6/19/2008	2.45			40.90	34.70		< 2.04			0.00
6/20/2008	2.49									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
6/21/2008										
6/22/2008										
6/23/2008	2.43									0.00
6/24/2008	2.40		< 99.20	40.10	18.40	< 0.10	< 2.00	< 0.020	0.02	0.00
6/25/2008	2.43									0.00
6/26/2008	2.50			41.80	18.60		< 2.09			0.00
6/27/2008	2.37									0.00
6/28/2008										
6/29/2008										
6/30/2008	2.48									0.00
7/1/2008	2.47	7.04		74.30	28.90	0.10	2.95	< 0.206	< 0.21	0.00
7/2/2008	2.44									0.00
7/3/2008	2.48		< 98.50	82.80	24.80		< 2.07			0.03
7/4/2008	2.50									
7/5/2008	2.50									
7/6/2008	2.50									
7/7/2008	2.50									0.27
7/8/2008	2.44	7.04	< 98.80	81.50	23.40	0.10	< 2.04	< 0.020	0.03	0.00
7/9/2008	2.47									0.00
7/10/2008	2.45			81.90	21.30		< 2.05			0.00
7/11/2008	2.36									0.00
7/12/2008	2.49									
7/13/2008	2.49									
7/14/2008	2.49									0.00
7/15/2008	2.41	7.10	< 100.70	71.50	20.40	< 0.10	< 2.01	< 0.020	< 0.02	0.00
7/16/2008	2.48									0.00
7/17/2008	2.41			70.90	20.30		< 2.01			0.00
7/18/2008	2.48									0.00
7/19/2008	2.43									
7/20/2008	2.43									
7/21/2008	2.43									0.00
7/22/2008	2.44	7.57	< 98.00	72.40	17.90	< 0.10	< 2.04	< 0.020	< 0.02	0.00
7/23/2008	2.46									0.00
7/24/2008	2.45			76.80	18.60		< 2.05			0.00
7/25/2008	2.43									0.00
7/26/2008	2.44									
7/27/2008	2.44									
7/28/2008	2.44									0.00
7/29/2008	2.48	7.36	< 99.70	82.90	18.70	< 0.10	< 2.07	< 0.021	< 0.02	0.01
7/30/2008	2.42									0.05
7/31/2008	2.50			76.10	20.90		< 2.09			0.00
8/1/2008	2.41									0.02
8/2/2008	2.47									
8/3/2008	2.47									
8/4/2008	2.47									0.06
8/5/2008	2.68	7.45	< 107.60	86.40	26.60	0.10	< 2.24	< 0.022	< 0.22	0.00
8/6/2008	2.21									0.00
8/7/2008	2.40									0.00
8/8/2008	2.41			39.10	65.60		< 2.01			0.00
8/9/2008	2.46									
8/10/2008	2.46									
8/11/2008	2.46									0.24
8/12/2008	2.44	7.40	< 99.60	80.10	31.30	< 0.10	< 2.03	< 0.020	< 0.02	0.00
8/13/2008	2.48									0.00
8/14/2008	2.43			40.50	64.30		< 2.03			0.00
8/15/2008	3.76									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
8/16/2008	1.51									
8/17/2008	1.51									
8/18/2008	1.51									0.05
8/19/2008	2.00	7.46	< 79.50	964.80	47.40	0.20	36.05	< 0.017	0.17	0.16
8/20/2008	1.76									0.23
8/21/2008	3.00			898.10	88.30		37.02			0.40
8/22/2008	2.58									0.01
8/23/2008	2.64									
8/24/2008	2.64									
8/25/2008	2.64									0.31
8/26/2008	1.83	7.31	< 73.50	91.60	29.60	0.10	2.70	< 0.015	0.02	0.00
8/27/2008	3.19									0.13
8/28/2008	3.36			106.30	71.20		2.94			0.05
8/29/2008	3.56									0.00
8/30/2008	2.44									
8/31/2008	2.44									
9/1/2008	2.85									
9/2/2008	2.85	7.18	< 113.30	45.00	26.20	0.14	< 2.38	< 0.024	< 0.02	0.09
9/3/2008	2.96									0.00
9/4/2008	2.48			79.30	44.50		< 2.07			0.00
9/5/2008	2.40									0.00
9/6/2008	2.49									
9/7/2008	2.49									
9/8/2008	2.49									0.00
9/9/2008	2.49	7.58	< 98.80	81.40	76.80	< 0.10	< 2.08	< 0.021	0.02	0.00
9/10/2008	2.47									0.00
9/11/2008	2.51			78.30	83.30		< 2.09			0.00
9/12/2008	2.47									0.00
9/13/2008	2.47									
9/14/2008	2.47									
9/15/2008	2.47									0.00
9/16/2008	2.38									0.00
9/17/2008	2.56									0.00
9/18/2008	2.41	7.41	< 95.80	77.50	69.10	0.30	< 2.01	< 0.020	0.02	0.00
9/19/2008	2.45									0.00
9/20/2008	2.44			81.10	79.30		< 2.03			
9/21/2008	2.44									
9/22/2008	2.44									0.18
9/23/2008	2.44	7.35	< 99.80	77.80	38.90	< 0.10	< 2.04	< 0.020	< 0.02	0.01
9/24/2008	2.42									0.00
9/25/2008	2.48			77.50	58.00		< 2.07			0.03
9/26/2008	2.31									0.02
9/27/2008	2.44									
9/28/2008	2.44									
9/29/2008	2.44									0.00
9/30/2008	2.35	7.40	< 96.20	37.90	28.10	< 0.10	< 1.96	< 0.020	< 0.02	0.00
10/1/2008	2.50									0.00
10/2/2008	2.38			75.10	50.50		< 1.99			0.03
10/3/2008	2.47									0.05
10/4/2008	2.46									
10/5/2008	2.46									
10/6/2008	2.46									0.53
10/7/2008	2.56		< 106.80	80.50	37.80	0.10	< 2.14	< 0.021	< 0.04	0.07
10/8/2008	2.36									0.00
10/9/2008	2.41			77.40	74.20		3.38			0.00
10/10/2008	2.46									0.25

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
10/11/2008	2.42									
10/12/2008	2.42									
10/13/2008	2.42									0.02
10/14/2008	2.45		< 102.50	40.00	37.70	0.30	< 2.05	< 0.021	< 0.02	0.04
10/15/2008	2.57									0.00
10/16/2008	2.22			71.30	84.60		11.87			0.04
10/17/2008	2.46									0.00
10/18/2008	1.90									
10/19/2008	1.90									
10/20/2008	1.90									0.10
10/21/2008	2.89									0.16
10/22/2008	2.46									0.00
10/23/2008	2.38									0.00
10/24/2008	2.35									0.00
10/25/2008	2.36									
10/26/2008	2.36									
10/27/2008	2.36									0.00
10/28/2008	2.18		< 90.10	144.50	28.20	0.20	8.12	< 0.018	< 0.04	0.00
10/29/2008	2.40									0.00
10/30/2008	2.38			38.60	20.90		< 1.99			0.00
10/31/2008	2.49									0.00
11/1/2008	2.49									
11/2/2008	2.49									
11/3/2008	2.49									0.67
11/4/2008	2.61	7.76	< 103.70	49.40	49.40	0.10	7.30	< 0.022	0.05	0.76
11/5/2008	2.34									0.20
11/6/2008	2.49			40.80	40.80		3.00			0.49
11/7/2008	2.49									0.00
11/8/2008	2.42									
11/9/2008	2.42									
11/10/2008	2.42									0.29
11/11/2008	2.44	7.81	< 98.10	82.00	41.60	0.20	2.26	< 0.020	0.03	0.04
11/12/2008	2.99									1.35
11/13/2008	2.47			323.70	131.50		27.21			1.78
11/14/2008	2.47									
11/15/2008	2.42									
11/16/2008	2.42									
11/17/2008	2.42									
11/18/2008	2.33	7.70	< 92.70	73.40	87.90	2.10	7.29	< 0.020	< 0.05	
11/19/2008	2.54									0.02
11/20/2008	2.44	7.29		77.50	96.40		9.60			0.09
11/21/2008	2.44									0.34
11/22/2008	2.43									0.09
11/23/2008	2.43									
11/24/2008	2.43	7.20								0.09
11/25/2008	3.41	7.73	< 135.40	107.20	107.50	1.33	6.26	< 0.028	0.07	
11/26/2008	1.44									0.06
11/27/2008	2.43									
11/28/2008	2.43			39.00						0.03
11/29/2008	2.36				44.10		3.19			
11/30/2008	2.36									
12/1/2008	2.42									0.10
12/2/2008	2.42	7.73	< 96.30	76.70	47.30	0.60	4.77	0.020	0.04	0.29
12/3/2008	2.34									0.07
12/4/2008	2.43			38.30	56.10		5.43			0.00
12/5/2008	2.43									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
12/6/2008	2.45									
12/7/2008	2.45									
12/8/2008	2.45									0.32
12/9/2008	2.37	7.90	< 94.30	225.80	55.50	< 0.01	8.30	< 0.020	0.04	0.00
12/10/2008	2.46									0.00
12/11/2008	2.44			76.80	57.30		4.91			0.02
12/12/2008	2.39									0.00
12/13/2008	2.65									
12/14/2008	2.65									
12/15/2008	2.65			126.20	100.50	1.10	13.19	< 0.022	0.04	1.59
12/16/2008	2.57	7.70	< 102.10							0.00
12/17/2008	2.38									0.00
12/18/2008	2.43			114.00	83.10		7.66			0.35
12/19/2008	2.52									0.19
12/20/2008	2.47									
12/21/2008	2.47									
12/22/2008	2.47			512.10	53.50		18.85	< 0.021	0.11	0.31
12/23/2008	2.33	7.80	18716.20	110.10	40.10		5.37			0.00
12/24/2008	2.40									0.00
12/25/2008	2.45									
12/26/2008	2.45									0.61
12/27/2008	2.94									
12/28/2008	2.94									
12/29/2008	2.94			245.20	114.30		9.15	< 0.025	0.06	0.96
12/30/2008	3.26	7.60	< 129.60	272.20	127.70		10.40			0.35
12/31/2008	3.21									0.24
1/1/2009	3.18									
1/2/2009	3.18									2.77
1/3/2009	3.69									
1/4/2009	3.69									
1/5/2009	3.69									0.15
1/6/2009	3.33									0.14
1/7/2009	3.94	7.68		329.20	173.80	0.90	17.19	< 0.033	0.09	1.56
1/8/2009	3.91		< 157.20	326.80	154.60		27.71			2.05
1/9/2009	3.57									0.19
1/10/2009	3.70									
1/11/2009	3.70									
1/12/2009	3.70									0.37
1/13/2009	3.33	7.63	< 133.80	278.10	144.90	0.80	10.85	< 0.028	0.05	0.00
1/14/2009	3.47									0.00
1/15/2009	3.68			307.20	180.30		9.06			0.00
1/16/2009	3.34									0.00
1/17/2009	3.27									
1/18/2009	3.27									
1/19/2009	3.27									0.00
1/20/2009	1.62		< 64.40	< 135.40	79.20	1.10	5.82	< 0.014	0.04	0.00
1/21/2009	1.85									0.00
1/22/2009	1.95	7.79		< 163.00	95.40		4.86			0.00
1/23/2009	2.11									0.00
1/24/2009	1.74									
1/25/2009	1.74									
1/26/2009	1.74									0.00
1/27/2009	1.97			< 164.70	86.70	0.90	4.55	< 0.017	0.03	0.00
1/28/2009	1.60									0.00
1/29/2009	1.90	7.75	< 75.40	< 158.50	80.00		5.42			0.05
1/30/2009	3.23									0.03

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
1/31/2009	2.90									
2/1/2009	2.90									0.00
2/2/2009	2.90									0.00
2/3/2009	2.55	7.76	< 101.30	851.00	103.60	1.10	22.13	< 0.021	0.09	0.00
2/4/2009	2.26									0.00
2/5/2009	2.71									0.00
2/6/2009	2.46			411.00	101.70		16.79			0.01
2/7/2009	2.32									0.00
2/8/2009	2.32									0.00
2/9/2009	2.32									0.09
2/10/2009	2.59	8.40	< 103.90	< 215.90	92.40	0.70	7.84	< 0.022	0.04	0.11
2/11/2009	2.39									0.00
2/12/2009	2.27		< 91.10	< 189.50	86.80		9.26		0.04	0.00
2/13/2009	2.94									0.00
2/14/2009	2.20									0.00
2/15/2009	2.20									0.00
2/16/2009	2.20									0.00
2/17/2009	2.62	7.94	< 104.30	< 219.00	90.50	0.90	11.81	< 0.022	0.08	0.00
2/18/2009	2.08									0.00
2/19/2009	2.51			< 209.60	81.50		8.82			0.00
2/20/2009	2.80									0.00
2/21/2009	2.20									0.00
2/22/2009	2.20									0.00
2/23/2009	2.20									0.03
2/24/2009	2.66	7.95	< 104.80	< 222.00	91.30	0.70	17.25	< 0.022	0.08	0.52
2/25/2009	2.33									0.29
2/26/2009	2.33			< 194.30	100.60		18.42			0.05
2/27/2009	2.55									0.00
2/28/2009	2.45									
3/1/2009	2.45									
3/2/2009	2.45									0.13
3/3/2009	2.40		< 94.70	200.60	103.50	0.80	13.46	< 0.020	0.12	0.25
3/4/2009	1.97	7.83								0.03
3/5/2009	2.49			< 207.70	137.10		17.11			0.24
3/6/2009	2.30									0.00
3/7/2009	2.40									
3/8/2009	2.40									
3/9/2009	2.40									0.07
3/10/2009	2.69		< 112.20							0.00
3/11/2009	2.00			167.10	145.50	1.20	17.38	< 0.017	0.08	0.00
3/12/2009	2.63			219.80	196.50		18.18			0.00
3/13/2009	2.37	8.05								0.00
3/14/2009	2.30									
3/15/2009	2.30									
3/16/2009	2.30									0.14
3/17/2009	2.82		< 112.00	235.20	169.40	1.70	20.53	< 0.024	0.16	0.19
3/18/2009	2.15									0.00
3/19/2009	2.68	7.38		224.00	155.70		37.86			0.08
3/20/2009	2.04									0.02
3/21/2009	2.37									
3/22/2009	2.37									
3/23/2009	2.37	7.54								0.29
3/24/2009	2.75	7.52	< 108.50	919.50	217.00	1.70	3.66	< 0.023	0.34	0.01
3/25/2009	2.43									0.13
3/26/2009	2.34	6.85		585.20	121.50		1.95			0.00
3/27/2009	2.03	6.84								0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
3/28/2009	2.43									
3/29/2009	2.43									
3/30/2009	2.43									0.00
3/31/2009	2.52			421.30	110.20	0.90	17.95	< 0.021	0.24	0.12
4/1/2009	2.14	6.12	109.20							0.48
4/2/2009	2.14			1252.60	76.60		24.34			0.13
4/3/2009	2.41									0.00
4/4/2009	2.38									
4/5/2009	2.38									
4/6/2009	2.38									0.00
4/7/2009	2.44		< 96.20	203.70	69.70	0.70	4.30	< 0.020	0.08	0.00
4/8/2009	2.92									0.00
4/9/2009	2.06	7.52		172.00	54.70		4.78			0.16
4/10/2009	2.10									0.12
4/11/2009	2.62									0.00
4/12/2009	2.62									0.60
4/13/2009	2.62									0.27
4/14/2009	1.92		< 75.70	320.80	74.30	0.30	11.97	< 0.016	0.22	0.02
4/15/2009	2.48									0.00
4/16/2009	2.89			481.80	41.90		7.13			0.00
4/17/2009	4.02	6.94								0.32
4/18/2009	2.98									0.00
4/19/2009	2.98									0.00
4/20/2009	2.98									0.00
4/21/2009	3.21		< 127.50	535.70	60.80	0.46	4.23	< 0.134	0.18	0.00
4/22/2009	3.04									0.00
4/23/2009	3.01	7.75		251.30	51.80		3.67			0.00
4/24/2009	3.02									0.00
4/25/2009	3.20									0.00
4/26/2009	3.20									0.00
4/27/2009	3.20									0.38
4/28/2009	3.40		< 136.70	568.50	71.10	0.43	12.17	< 0.028	0.26	0.56
4/29/2009	2.90	7.27								0.05
4/30/2009	2.71			452.70	78.50		4.39			0.00
5/1/2009	2.79									0.00
5/2/2009	2.80									0.23
5/3/2009	2.80									0.02
5/4/2009	2.80									0.52
5/5/2009	2.98		< 117.30	496.80	68.30	0.40	3.25	< 0.025	0.30	0.22
5/6/2009	2.98	7.41								0.47
5/7/2009	2.94			245.70	107.40		11.64			0.34
5/8/2009	3.09									0.00
5/9/2009	3.38									0.00
5/10/2009	3.38									0.00
5/11/2009	3.38									0.00
5/12/2009	1.59		< 63.30	398.80	49.60	0.20	6.86	< 0.013	0.17	0.24
5/13/2009	3.50	7.15								0.80
5/14/2009	2.61			218.30	53.00		7.29			0.00
5/15/2009	3.84									0.00
5/16/2009	3.19									0.00
5/17/2009	3.19									0.00
5/18/2009	3.19									0.16
5/19/2009	3.03		< 126.70	253.30	30.90	0.20	20.32	< 0.025	0.32	0.35
5/20/2009	3.07	7.77								0.00
5/21/2009	2.91			242.70	39.10		31.07			0.00
5/22/2009	3.78									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
5/23/2009	3.07									0.00
5/24/2009	3.07									0.00
5/25/2009	3.07									0.00
5/26/2009	3.07		< 120.90	256.10	33.50	0.20	64.79	< 0.026	0.53	0.00
5/27/2009	2.72	7.15								0.00
5/28/2009	3.06			511.20			5.83			0.00
5/29/2009	3.53									0.00
5/30/2009	3.44									0.00
5/31/2009	3.44									0.00
6/1/2009	3.44									0.00
6/2/2009	3.42		< 142.90	571.60	30.90	0.14	8.63	< 0.029	0.26	0.00
6/3/2009	3.03	7.24								0.00
6/4/2009	2.93			488.50	30.00		10.53			0.33
6/5/2009	3.28									0.04
6/6/2009	3.12									0.00
6/7/2009	3.12									0.00
6/8/2009	3.12									0.00
6/9/2009	3.33		< 132.20	2500.20	45.00		14.06			0.00
6/10/2009	2.65	7.36								0.00
6/11/2009	2.96			246.70	34.50	< 0.10	13.57	< 0.025	0.15	0.00
6/12/2009	3.76									0.00
6/13/2009	3.28									0.05
6/14/2009	3.28									0.00
6/15/2009	3.28									0.00
6/16/2009	2.69		< 106.10	224.80	35.30	0.10	7.93	< 0.023	0.18	0.00
6/17/2009	3.30	7.61								0.01
6/18/2009	2.60			< 217.10	19.50		< 2.17			0.30
6/19/2009	3.38									0.04
6/20/2009	2.95									0.00
6/21/2009	2.95									0.00
6/22/2009	2.95									0.00
6/23/2009	3.07		< 124.50	513.40	61.60	0.20	21.43	< 0.026	0.38	0.00
6/24/2009	3.14									0.00
6/25/2009	3.53	7.27		294.70	53.00		3.01			0.00
6/26/2009	2.81									0.00
6/27/2009	3.31									0.00
6/28/2009	3.31									0.00
6/29/2009	3.31		< 138.20	4422.20	39.20	0.80	44.77	< 0.028	0.41	0.00
6/30/2009	3.19									0.00
7/1/2009	3.30	7.67		< 275.60	26.20					0.00
7/2/2009	3.44									0.00
7/3/2009	3.46									0.00
7/4/2009	3.46									0.00
7/5/2009	3.46									0.00
7/6/2009	3.46									0.06
7/7/2009	2.32		< 93.10	193.60	23.60	0.10	2.67	< 0.019	0.12	0.00
7/8/2009	2.78	7.72								0.00
7/9/2009	3.11			< 259.80	26.20		< 2.60			0.00
7/10/2009	2.71									0.00
7/11/2009	2.92									0.00
7/12/2009	2.92									0.00
7/13/2009	2.92									0.00
7/14/2009	2.79			233.00	29.40	0.10	3.40	< 0.023	0.05	0.00
7/15/2009	2.46		< 98.70							0.00
7/16/2009	3.21			< 267.60	27.80		3.85			0.00
7/17/2009	2.17	7.34								0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
7/18/2009	2.82									0.00
7/19/2009	2.82									0.00
7/20/2009	2.82									0.00
7/21/2009	3.77		< 151.20	< 315.00	28.00	0.20	6.11	< 0.032	0.07	0.00
7/22/2009	2.39									0.00
7/23/2009	3.07			< 256.70	20.80		< 2.57			0.00
7/24/2009	1.97	7.83								0.00
7/25/2009	3.42									0.00
7/26/2009	3.42									0.00
7/27/2009	3.42									0.00
7/28/2009	3.28		< 131.30	547.30	21.10	0.20	8.04	< 0.027	0.22	0.00
7/29/2009	3.80									0.00
7/30/2009	2.56	7.27		641.30	24.40		23.73			0.00
7/31/2009	3.50									0.00
8/1/2009	3.36									0.00
8/2/2009	3.36									0.00
8/3/2009	3.36									0.00
8/4/2009	2.17		< 89.50	180.90	9.20	< 0.10	1.95	< 0.018	0.07	0.00
8/5/2009	3.46	7.20								0.00
8/6/2009	2.77			231.30	23.10		< 2.31			0.00
8/7/2009	2.90									0.00
8/8/2009	2.66									0.00
8/9/2009	2.66									0.00
8/10/2009	2.66									0.00
8/11/2009	3.75		< 147.60	< 312.70	23.50	< 0.20	< 3.13	< 0.031	< 0.03	0.16
8/12/2009	2.61	7.70								0.12
8/13/2009	3.40			284.20	42.60		< 2.84			0.01
8/14/2009	2.80									0.00
8/15/2009	3.23									0.00
8/16/2009	3.23									0.00
8/17/2009	3.23									0.00
8/18/2009	3.37			281.10	39.90	< 0.10	6.52	< 0.028	< 0.03	0.00
8/19/2009	2.94	7.30	< 117.90							0.00
8/20/2009	3.77			314.70	30.20		< 3.15			0.00
8/21/2009	3.31									0.00
8/22/2009	3.47									0.00
8/23/2009	3.47									0.00
8/24/2009	3.47									0.00
8/25/2009	2.58		< 101.80	215.70	13.60	< 0.10	3.77	< 0.022	< 0.06	0.00
8/26/2009	3.75									0.00
8/27/2009	2.92			< 243.70	15.10		3.51			0.00
8/28/2009	3.40	7.60								0.00
8/29/2009	3.40									0.00
8/30/2009	3.40									0.00
8/31/2009	3.40									0.00
9/1/2009	3.12		< 123.90	520.70	18.50	0.20	20.33	< 0.026	0.15	0.01
9/2/2009	2.64									0.01
9/3/2009	3.42			285.20	19.70		3.65			0.02
9/4/2009	3.23	7.28								0.01
9/5/2009	3.41									0.29
9/6/2009	3.41									0.35
9/7/2009	3.41									0.07
9/8/2009	3.41			< 284.70	32.50	< 0.10	3.73	< 0.029	< 0.05	0.00
9/9/2009	3.02		< 125.90							0.00
9/10/2009	3.47			289.50	25.80		< 2.89			0.00
9/11/2009	3.15	7.64								0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
9/12/2009	3.33									0.00
9/13/2009	3.33									0.00
9/14/2009	3.33									0.00
9/15/2009	2.90		< 119.90	484.50	17.40	< 0.10	< 2.42	< 0.024	< 0.02	0.00
9/16/2009	3.56									0.14
9/17/2009	2.45			204.20	15.90		< 2.04			0.00
9/18/2009	3.32	7.64								0.00
9/19/2009	3.39									0.31
9/20/2009	3.39									0.00
9/21/2009	3.39									0.00
9/22/2009	3.39			< 283.40	19.80	1.20	< 2.83	< 0.028	0.04	0.00
9/23/2009	3.01		< 123.00							0.00
9/24/2009	3.89			< 325.10	21.50		< 3.25			0.00
9/25/2009	3.17	7.57								0.00
9/26/2009	3.22									0.00
9/27/2009	3.22									0.00
9/28/2009	3.22									0.09
9/29/2009	3.32		< 134.50	< 277.20	16.90	< 0.10	< 2.77	< 0.028	< 0.03	0.33
9/30/2009	2.63	7.69								0.02
10/1/2009	3.80			< 317.30	32.40		< 3.17			0.10
10/2/2009	2.70									0.30
10/3/2009	3.00									0.00
10/4/2009	3.00									0.00
10/5/2009	3.00									0.00
10/6/2009	3.22									0.00
10/7/2009	3.39		< 133.60	< 283.10	24.30	< 0.10	< 2.83	< 0.028	< 0.03	0.00
10/8/2009	3.25	7.76		< 271.30	22.20		< 3.36			0.00
10/9/2009	2.96	7.56								0.00
10/10/2009	3.06									0.00
10/11/2009	3.06									0.00
10/12/2009	3.06									0.00
10/13/2009	3.53		< 147.50	< 295.10	19.50	< 0.10	< 2.95	< 0.030	< 0.03	0.02
10/14/2009	2.90									0.00
10/15/2009	2.76			< 230.00	43.20		6.21			0.00
10/16/2009	2.61	7.50								0.00
10/17/2009	3.14									0.00
10/18/2009	3.14									0.00
10/19/2009	3.14									0.00
10/20/2009	3.24		< 127.90	270.90	32.00	< 0.10	4.09	< 0.027	0.03	0.00
10/21/2009	2.96									0.00
10/22/2009	2.89			< 241.10	30.40		2.97			0.00
10/23/2009	2.62	7.60								0.00
10/24/2009	3.23									0.00
10/25/2009	3.23									0.00
10/26/2009	3.23									0.00
10/27/2009	3.32		< 138.70	277.50	49.90	0.10	7.71	< 0.028	0.06	0.00
10/28/2009	2.71									0.00
10/29/2009	2.82			< 235.30	24.50		< 2.35			0.00
10/30/2009	2.60	7.66								0.00
10/31/2009	2.97									0.00
11/1/2009	2.97									
11/2/2009	2.97									0.00
11/3/2009	2.52		< 105.30	< 210.60	26.30	< 0.10	2.11	0.021	0.04	0.00
11/4/2009	2.63									0.00
11/5/2009	2.77			< 231.20	18.30		2.31			0.00
11/6/2009	2.31	7.77								0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
11/7/2009	3.35									0.00
11/8/2009	3.35									0.00
11/9/2009	3.35									0.00
11/10/2009	3.05		< 133.70	254.30	25.40	< 0.10	7.58	0.025	0.05	0.00
11/11/2009	2.96									0.00
11/12/2009	2.96			< 247.20	37.60		4.30			0.00
11/13/2009	2.48	7.69								0.00
11/14/2009	3.38									0.00
11/15/2009	3.38									0.00
11/16/2009	3.38									0.86
11/17/2009	3.36		< 140.10	280.10	48.70	< 0.10	4.90	0.028	0.06	0.67
11/18/2009	3.23									0.40
11/19/2009	3.43			286.00	37.80		3.57			0.53
11/20/2009	3.36	7.54								0.30
11/21/2009	3.34									0.37
11/22/2009	3.34									0.72
11/23/2009	3.34									1.43
11/24/2009	3.32		< 130.80	277.10	74.00	3.90	15.16	0.028	0.07	0.05
11/25/2009	3.34									0.00
11/26/2009	3.34			< 278.70	112.00		5.66			1.13
11/27/2009	3.02	7.45								0.00
11/28/2009	3.33									0.00
11/29/2009	3.33									0.00
11/30/2009	3.33									0.00
12/1/2009	2.81			< 234.70	84.00	0.90	4.41	0.024	0.05	0.00
12/2/2009	3.28		< 129.30							0.00
12/3/2009	3.27			< 272.60	76.10		6.57			0.03
12/4/2009	2.74	7.56								0.00
12/5/2009	3.02									0.00
12/6/2009	3.02									0.00
12/7/2009	3.02									0.00
12/8/2009	3.49		138.60	< 291.20	80.70	0.90	9.99	0.029	0.10	0.00
12/9/2009	3.92									0.00
12/10/2009	2.98			< 248.70	66.10		12.31			0.00
12/11/2009	3.97	7.54								0.00
12/12/2009	3.67									0.00
12/13/2009	3.67									0.07
12/14/2009	3.67									0.24
12/15/2009	3.28		< 130.50	548.40	76.50	0.60	8.03	0.027	0.12	0.39
12/16/2009	3.45									0.95
12/17/2009	3.25			271.40	108.80		11.91			0.50
12/18/2009	2.60	7.41								0.03
12/19/2009	3.54									0.03
12/20/2009	3.54									0.30
12/21/2009	3.54		< 140.60	1476.70	101.30	0.60	9.42	0.030	0.08	0.53
12/22/2009	3.62									0.19
12/23/2009	3.49			873.00	119.90		8.00			0.00
12/24/2009	2.72	7.57								0.00
12/25/2009	3.76									0.00
12/26/2009	3.76									0.00
12/27/2009	3.76									0.00
12/28/2009	3.76		< 155.20	156.80	83.10	0.60	7.37	0.031	0.09	0.00
12/29/2009	3.44									0.00
12/30/2009	3.16			791.30	76.50		2.77			0.20
12/31/2009	3.16	7.80								0.13
1/1/2010	2.98									0.37

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
1/2/2010	2.98									0.05
1/3/2010	2.98									0.00
1/4/2010	2.98									1.10
1/5/2010	3.25			542.20	64.80	0.20	8.16	0.027	0.08	0.30
1/6/2010	3.57		< 140.60							0.44
1/7/2010	3.48			87.10	71.70		3.40			0.00
1/8/2010	2.76	7.57								0.51
1/9/2010	2.51									0.00
1/10/2010	2.51									0.00
1/11/2010	2.51									0.49
1/12/2010	2.49			475.90	58.00	0.20	5.01	0.021	0.06	0.37
1/13/2010	2.73									0.31
1/14/2010	2.78		< 109.40	308.40	117.30		8.56			0.23
1/15/2010	1.89	7.40								0.45
1/16/2010	2.85									0.05
1/17/2010	2.85									0.10
1/18/2010	2.85									0.57
1/19/2010	3.01		< 125.80	125.80	151.80	1.60	4.81	0.025	0.11	0.00
1/20/2010	3.17									0.05
1/21/2010	3.11			519.20	146.20		3.43			0.00
1/22/2010	2.56	7.54								0.00
1/23/2010	3.38									0.00
1/24/2010	3.38									0.70
1/25/2010	3.38									0.46
1/26/2010	3.38		< 135.60	620.20	145.70	1.30	14.46	0.028	0.13	0.02
1/27/2010	3.16									0.04
1/28/2010	3.46			288.70	149.20		9.84			0.00
1/29/2010	4.20	7.57								0.01
1/30/2010	3.71									0.06
1/31/2010	3.71									0.00
2/1/2010	3.71									0.03
2/2/2010	4.00		167.20	297.20	128.40	1.20	6.52	< 0.033	< 0.07	0.29
2/3/2010	3.83									0.09
2/4/2010	3.60	7.52		90.20	117.90		10.76			0.40
2/5/2010	4.34									0.00
2/6/2010										0.05
2/7/2010										0.05
2/8/2010	4.27									0.05
2/9/2010	3.90		157.90	325.50	106.80	0.80	8.46	< 0.033	0.07	0.01
2/10/2010	3.79									0.11
2/11/2010	4.13			483.10	110.10		27.61			0.02
2/12/2010	3.68	7.58								0.34
2/13/2010										0.16
2/14/2010										0.21
2/15/2010	3.75									0.01
2/16/2010	3.98		164.40	199.20	130.80	1.90	11.22	< 0.033	0.09	0.27
2/17/2010	3.77									0.02
2/18/2010	3.61			201.10	119.40		6.06			0.00
2/19/2010	3.04	7.75								0.00
2/20/2010										0.00
2/21/2010										0.00
2/22/2010	3.57									0.00
2/23/2010	3.06		121.60	191.60	77.90	0.50	4.09	< 0.026	< 0.05	0.06
2/24/2010	3.36									0.29
2/25/2010	3.26			170.20	77.60		6.78			0.11
2/26/2010	2.79	7.56								0.37

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
2/27/2010										0.06
2/28/2010										0.05
3/1/2010	3.42									0.00
3/2/2010	3.17		< 132.20	226.60	87.80	8.20	6.69	0.026	0.05	0.00
3/3/2010	3.17									0.28
3/4/2010	2.42			202.00	67.70		5.03			0.00
3/5/2010	2.67	7.71								0.02
3/6/2010	2.85									0.02
3/7/2010	2.85									0.00
3/8/2010	2.85									0.17
3/9/2010	2.99		< 118.70	249.40	78.80	2.60	4.84	0.025	0.06	0.01
3/10/2010	3.15									0.03
3/11/2010	3.35			141.20	63.50		4.95			0.44
3/12/2010	2.75	7.67								0.72
3/13/2010	3.01									0.25
3/14/2010	3.01									0.03
3/15/2010	3.01									0.00
3/16/2010	2.94		< 119.10	245.60	107.60	1.10	7.32	0.025	0.07	0.02
3/17/2010	3.05									0.16
3/18/2010	2.94			306.30	131.10		8.68			0.00
3/19/2010	2.76	7.51								0.00
3/20/2010	2.93									0.00
3/21/2010	2.93									0.15
3/22/2010	2.93									0.00
3/23/2010	3.02			251.80	102.70	0.70	8.58	0.025	0.08	0.05
3/24/2010	2.91		< 121.70							0.00
3/25/2010	3.22			230.60			6.62			0.21
3/26/2010	3.34	7.91			101.10					0.53
3/27/2010	3.58									0.00
3/28/2010	3.58									0.15
3/29/2010	3.58									0.37
3/30/2010	3.99		< 166.40	379.40	155.10	1.50	13.68	0.033	0.07	0.43
3/31/2010	3.75									0.10
4/1/2010	4.26			304.90	156.50		11.31			0.23
4/2/2010	3.73	7.36								2.00
4/3/2010	3.95									
4/4/2010	3.95									
4/5/2010	3.95									0.12
4/6/2010	3.30	7.74	< 132.40	275.20	122.20	1.30	8.23	0.028	0.06	0.39
4/7/2010	4.41									0.04
4/8/2010	3.92			261.60	147.10		10.89			0.30
4/9/2010	3.77									0.06
4/10/2010	3.81									0.02
4/11/2010	3.81									0.04
4/12/2010	3.81									0.25
4/13/2010	3.79		< 158.30	211.20	133.30	0.95	12.13	0.032	0.06	0.06
4/14/2010	3.75									
4/15/2010	3.76			196.10	121.60		7.07			0.07
4/16/2010	3.13	7.94								
4/17/2010	3.85									0.03
4/18/2010	3.85									0.01
4/19/2010	3.85									0.06
4/20/2010	3.66		< 151.40	305.90	93.30	0.50	8.84	0.031	0.11	0.17
4/21/2010	3.77									0.02
4/22/2010	3.57									0.00
4/23/2010	2.84	7.62		197.50	107.70		11.15			0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
4/24/2010	3.28									0.08
4/25/2010	3.28									0.08
4/26/2010	3.28									0.00
4/27/2010	3.34			649.60	132.40	0.70	17.09	0.028	0.14	0.60
4/28/2010	3.30									0.29
4/29/2010	2.44		< 101.90	305.60	154.80		20.99			0.22
4/30/2010	3.65	7.69								0.05
5/1/2010	3.48									0.04
5/2/2010	3.48									0.05
5/3/2010	3.48									0.25
5/4/2010	2.64		< 115.70	308.00	119.70	0.50	15.73	0.022	0.14	0.32
5/5/2010	4.62									0.22
5/6/2010	4.67	7.62		292.30	213.20		18.48			0.00
5/7/2010	3.35									
5/8/2010	4.20									
5/9/2010	4.20									0.04
5/10/2010	4.20									0.32
5/11/2010	3.70		< 148.60	206.10	161.60	1.30	7.94	0.031	0.10	0.05
5/12/2010	3.78	7.54								0.00
5/13/2010	4.42									0.00
5/14/2010	4.07			291.50	217.70		7.08			0.00
5/15/2010	4.71									0.00
5/16/2010	4.71									0.00
5/17/2010	4.71									0.00
5/18/2010	1.53		< 62.10				4.88	0.013	0.05	0.27
5/19/2010	2.77			< 231.40	96.70	< 0.70				0.32
5/20/2010	2.53									0.35
5/21/2010	2.89	7.51		161.00	99.70		10.77			0.54
5/22/2010	2.88									0.20
5/23/2010	2.88									0.55
5/24/2010	2.88									0.04
5/25/2010	3.17	7.43		220.10	147.70	1.30	13.90	< 0.026	0.13	0.15
5/26/2010	2.07		< 86.50							0.18
5/27/2010	3.21									0.27
5/28/2010	2.98			283.60	157.20		12.96			0.09
5/29/2010	3.08									0.90
5/30/2010	3.08									0.04
5/31/2010	3.08									0.47
6/1/2010	3.08									0.47
6/2/2010	3.20		< 133.43	266.87	181.20	1.76	10.19	0.027	0.13	0.31
6/3/2010	3.28									0.02
6/4/2010	3.25	7.49		271.38	175.04		13.84			0.24
6/5/2010	3.30									0.00
6/6/2010	3.30									0.50
6/7/2010	3.30									0.06
6/8/2010	3.13		< 130.76	174.44	164.76	1.62	19.04	0.026	0.17	0.00
6/9/2010	3.70	7.61								0.19
6/10/2010	3.30			196.80	162.90		13.53			0.50
6/11/2010	2.51									0.00
6/12/2010	3.00									0.00
6/13/2010	3.00									0.00
6/14/2010	3.00									0.00
6/15/2010	2.99		< 124.67	226.64	149.60	0.95	10.65	0.025	0.20	0.07
6/16/2010	3.45									0.22
6/17/2010	2.54	7.60		106.00	99.64		4.92			0.00
6/18/2010	3.01									

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
6/19/2010	3.16									
6/20/2010	3.16									
6/21/2010	3.16									
6/22/2010	3.16		< 146.80	264.03	118.81	1.40	7.05	0.026	0.08	0.05
6/23/2010	2.94									0.00
6/24/2010	2.38	7.59		85.33	113.37		6.21			0.00
6/25/2010	2.98									0.00
6/26/2010	3.21									0.00
6/27/2010	3.21									0.00
6/28/2010	3.21									0.00
6/29/2010	4.12		< 170.17	343.77		0.38	12.41	0.034		0.00
6/30/2010	4.62	7.60								0.00
7/1/2010	5.19									0.00
7/2/2010	5.19									0.21
7/3/2010	5.33									0.00
7/4/2010	5.33									0.00
7/5/2010	5.33									0.00
7/6/2010	5.33			743.80	142.08	0.43	23.52	0.045	0.23	0.00
7/7/2010	5.89	7.59	< 273.54							0.00
7/8/2010	4.97			230.78	144.03		12.62			0.00
7/9/2010	5.45									0.00
7/10/2010	5.55									0.00
7/11/2010	5.55									0.00
7/12/2010	5.55									0.00
7/13/2010	3.76			73.86	94.92	0.17	4.81	0.031	0.09	0.00
7/14/2010	4.09	7.84	< 162.52							0.00
7/15/2010	4.47			131.73	146.65		4.63			0.00
7/16/2010	5.10									0.00
7/17/2010	3.82									0.00
7/18/2010	3.82									0.00
7/19/2010	3.82									0.00
7/20/2010	5.43			602.70	304.97	1.11	22.30	0.045	0.34	0.00
7/21/2010	4.20	8.13	< 171.97							0.00
7/22/2010	4.92									0.00
7/23/2010	4.21			312.74	131.57		4.01	0.035	0.09	0.00
7/24/2010	4.72									0.00
7/25/2010	4.72									0.00
7/26/2010	4.72									0.00
7/27/2010	4.89		< 204.32	214.95	85.00	0.25	7.03	0.041	0.13	0.00
7/28/2010	4.42	7.78								0.00
7/29/2010	4.22			185.17	66.18		6.72			0.00
7/30/2010	4.19									0.00
7/31/2010	3.42									0.00
8/1/2010	3.42									0.00
8/2/2010	3.42									0.00
8/3/2010	4.69		< 206.12	158.31	87.78	0.20	3.92	0.039	0.20	0.00
8/4/2010	4.65	7.78								0.00
8/5/2010	4.46			74.50	58.11		3.72			0.00
8/6/2010	4.46									0.00
8/7/2010	4.11									0.00
8/8/2010	4.11									0.07
8/9/2010	4.11									0.00
8/10/2010	4.07		< 168.06	135.80	39.38	0.27	4.92	0.034	0.08	0.00
8/11/2010	4.13	7.86								0.00
8/12/2010	4.18			104.73	33.51		3.49			0.00
8/13/2010	4.22									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
8/14/2010	2.43									0.00
8/15/2010	2.43									0.00
8/16/2010	2.43									0.00
8/17/2010	2.51		< 103.83	83.90	17.20	0.11	2.10	0.021	0.04	0.00
8/18/2010	2.35	7.83								0.00
8/19/2010	2.48			62.22	19.91		2.07			0.00
8/20/2010	2.29									0.00
8/21/2010	2.57									0.00
8/22/2010	2.57									0.00
8/23/2010	2.57									0.00
8/24/2010	2.37		< 96.06	79.22	18.42	0.10	1.98	0.020	0.04	0.00
8/25/2010	2.97									0.00
8/26/2010	2.47	7.80		61.75	17.08		2.06			0.00
8/27/2010	2.10									0.00
8/28/2010	2.45									0.00
8/29/2010	2.45									0.00
8/30/2010	2.45									0.04
8/31/2010	2.33									0.07
9/1/2010	2.66	7.67	105.61							0.60
9/2/2010	2.67			111.31	39.85		4.79			0.01
9/3/2010	2.90									0.00
9/4/2010	2.85									0.00
9/5/2010	2.85									0.00
9/6/2010	2.85									0.00
9/7/2010	2.85		113.28							0.09
9/8/2010	2.31			135.02	66.74	0.35	19.48	0.019	0.08	0.00
9/9/2010	2.74	7.71								0.00
9/10/2010	2.81			117.48	87.88		16.96			0.00
9/11/2010	3.24									0.00
9/12/2010	3.24									0.00
9/13/2010	3.24									0.00
9/14/2010	3.04		123.07	152.25	12.69	0.16	12.87	0.025	0.10	0.00
9/15/2010	3.20	7.78								0.00
9/16/2010	4.01			234.62	64.35		32.78			0.30
9/17/2010	3.35									0.04
9/18/2010	3.47									0.30
9/19/2010	3.47									0.45
9/20/2010	3.47									0.15
9/21/2010	2.70		112.56	225.12	41.20	0.12	16.30	0.023	0.09	0.02
9/22/2010	3.41	7.75								0.00
9/23/2010	3.19			213.16	63.41		11.67			0.07
9/24/2010	3.36									0.07
9/25/2010	3.18									0.00
9/26/2010	3.18									0.05
9/27/2010	3.18									0.03
9/28/2010	2.46		99.50	123.10	56.01	0.26	13.21	0.021	0.08	0.00
9/29/2010	3.09	7.78								0.08
9/30/2010	3.17			79.41	49.23		5.93			0.00
10/1/2010	3.28									0.00
10/2/2010	3.28									0.00
10/3/2010	3.28									0.00
10/4/2010	3.28									0.00
10/5/2010	2.67		203.02	155.83	35.84	0.29	12.20	0.022	0.10	0.00
10/6/2010	3.15	7.78								0.00
10/7/2010	3.18			185.93	51.26		18.14			0.00
10/8/2010	3.50									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
10/9/2010	2.98									0.25
10/10/2010	2.98									0.29
10/11/2010	2.98									0.20
10/12/2010	2.96	7.57	122.39	289.27	163.92	0.70	57.85	0.025	0.42	0.00
10/13/2010	2.99	7.73								0.00
10/14/2010	2.66	7.47		266.53	110.68		36.20			0.00
10/15/2010	2.81	7.32								0.03
10/16/2010	2.64									0.00
10/17/2010	2.64									0.00
10/18/2010	2.64	7.46								0.00
10/19/2010	3.13		145.27	731.56	514.70	1.72	147.36	0.026	0.58	0.00
10/20/2010	2.32	7.52								0.00
10/21/2010	2.87			393.29	422.07		82.50			0.00
10/22/2010	2.71									0.01
10/23/2010	3.81									0.05
10/24/2010	3.81									0.40
10/25/2010	3.81									1.01
10/26/2010	2.50		104.42	296.54	182.52	1.21	36.13	0.021	0.28	0.85
10/27/2010	1.26	7.64								0.87
10/28/2010	1.08			124.68	78.69		13.73			0.08
10/29/2010	1.23									0.18
10/30/2010	1.45									0.05
10/31/2010	1.45									
11/1/2010	1.45									0.30
11/2/2010	1.65		68.85	115.66	94.59	1.03	26.16	0.014	0.15	1.05
11/3/2010	1.73	7.29								0.03
11/4/2010	1.84			170.45	175.05		28.87			0.00
11/5/2010	2.03									0.00
11/6/2010	2.03									0.06
11/7/2010	2.03									0.25
11/8/2010	2.25									0.23
11/9/2010	3.04		120.87	401.20	239.70	1.08	42.66	0.025	0.37	0.17
11/10/2010	2.65	7.60								0.14
11/11/2010	3.05			567.93	389.65		66.98			0.00
11/12/2010	3.46									0.21
11/13/2010	3.46									0.12
11/14/2010	3.46									0.14
11/15/2010	3.49									0.08
11/16/2010	1.33		55.61	164.61	119.01	0.49	26.80	0.011	0.19	0.28
11/17/2010	0.53	7.88								0.07
11/18/2010	0.63			94.09	41.71		7.47			0.95
11/19/2010	0.37									0.23
11/20/2010	0.37									0.11
11/21/2010	0.37									0.13
11/22/2010	0.27									0.20
11/23/2010	0.29			190.18	21.87	0.14	15.78	0.002	0.06	0.59
11/24/2010	0.25	7.87	10.40							0.03
11/25/2010	0.25			69.86	29.11		6.07			0.00
11/26/2010	0.13									0.09
11/27/2010	0.13									0.20
11/28/2010	0.13									0.13
11/29/2010	1.00									0.01
11/30/2010	1.54									0.22
12/1/2010	1.54	8.02								0.38
12/2/2010	1.64			191.72	85.72		15.89			0.03
12/3/2010	1.41									0.07

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
12/4/2010	1.44									0.00
12/5/2010	1.44									0.00
12/6/2010	1.44									0.03
12/7/2010	1.67		< 87.10	161.66	62.02	0.58	9.50	< 0.014	0.05	0.02
12/8/2010	1.21	8.16								0.68
12/9/2010	0.38			38.93	13.94		3.48			0.41
12/10/2010	0.08									0.82
12/11/2010	0.00									0.06
12/12/2010	0.00									0.87
12/13/2010	0.00									0.51
12/14/2010	2.25		< 94.06	430.81	140.72	0.76	39.69	< 0.019	0.18	0.73
12/15/2010	2.53									0.24
12/16/2010	2.33	7.89		311.69	164.81		36.23			0.08
12/17/2010	2.36									0.02
12/18/2010	1.77									0.05
12/19/2010	1.77									0.16
12/20/2010	1.77									0.18
12/21/2010	1.47		< 60.27	136.53	76.26	0.41	14.64	< 0.012	0.12	0.05
12/22/2010	1.54	7.60								0.03
12/23/2010	1.50			278.80	105.11		25.24			0.00
12/24/2010	1.34									0.00
12/25/2010	0.66									0.10
12/26/2010	0.66									0.13
12/27/2010	0.66									0.43
12/28/2010	0.13			16.54	4.29	0.02	1.83	0.001	0.01	0.94
12/29/2010	2.25	7.71								0.54
12/30/2010	2.40		< 97.27	260.74	132.57		25.27			0.03
12/31/2010	2.64									0.00
1/1/2011	2.55									0.01
1/2/2011	2.55									0.02
1/3/2011	2.44									0.00
1/4/2011	2.41		< 100.62	330.03	99.21	0.87	12.76	< 0.020	0.10	0.00
1/5/2011	2.44	7.81								0.20
1/6/2011	2.41			380.33	99.81		20.53			0.16
1/7/2011	2.40									0.11
1/8/2011	2.38									0.20
1/9/2011	2.38									0.15
1/10/2011	2.35									0.04
1/11/2011	2.35			137.36	124.80	0.55	17.11	< 0.010	0.10	0.00
1/12/2011	2.58	7.71	< 102.33							
1/13/2011	3.09			< 129.01	172.87		27.61			0.90
1/14/2011	2.64									0.05
1/15/2011	2.96									0.70
1/16/2011	5.06									2.60
1/17/2011	4.11									0.20
1/18/2011	3.71	7.76	< 147.15	< 154.89	213.44	1.91	26.67	< 0.015	0.08	0.10
1/19/2011	3.19									0.17
1/20/2011	3.40			< 141.95	235.35		18.96			0.00
1/21/2011	3.68									0.24
1/22/2011	3.37									0.03
1/23/2011	3.35									0.00
1/24/2011	3.30									0.10
1/25/2011	3.30	7.65	130.89	< 137.78	399.55	3.64	26.29	< 0.014	0.13	0.03
1/26/2011	3.30									0.01
1/27/2011	3.30			< 137.78	300.35		22.46			
1/28/2011	3.30									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
1/29/2011	3.30									0.20
1/30/2011	3.30									0.05
1/31/2011	3.30									0.04
2/1/2011	3.56									0.02
2/2/2011	2.37		27.68	< 98.86	170.23	1.63	9.61	< 0.010	0.05	0.00
2/3/2011	2.37									0.00
2/4/2011	2.43			< 101.29	159.83		8.18			0.00
2/5/2011	2.39									0.17
2/6/2011	2.42									0.08
2/7/2011	2.46									0.27
2/8/2011	2.38		25.79	< 99.20	175.59	1.28	9.32	< 0.010	0.06	0.09
2/9/2011	2.38									0.00
2/10/2011	2.37			< 98.83	186.99		8.03			0.00
2/11/2011	2.37									
2/12/2011	2.48	7.82								
2/13/2011	2.48									0.33
2/14/2011	2.51									0.19
2/15/2011	2.50			104.36	190.35	1.67	13.00	< 0.010	0.06	0.27
2/16/2011	2.50									0.24
2/17/2011	2.46		20.52	< 102.58	88.63		13.11			0.15
2/18/2011	2.46									0.20
2/19/2011	2.36									0.21
2/20/2011	2.36									0.01
2/21/2011	2.35									0.00
2/22/2011	2.44		< 17.50	< 102.00	118.53	0.93	4.57	< 0.010	0.04	0.25
2/23/2011	2.47									0.25
2/24/2011	2.42			< 100.95	146.58		6.90			0.13
2/25/2011	2.39									0.10
2/26/2011	2.36									0.15
2/27/2011	2.53									0.04
2/28/2011	3.34	7.14								1.65
3/1/2011	2.75	7.23		252.70	119.46	0.78	27.11	< 0.011	0.09	0.72
3/2/2011	2.63									0.20
3/3/2011	2.63		< 18.85	< 109.86	176.00		12.96			0.09
3/4/2011	2.64									0.04
3/5/2011	2.60									0.15
3/6/2011	2.60									0.00
3/7/2011	2.56									0.01
3/8/2011	2.60			< 108.28	207.25	1.59	11.48	< 0.011	0.06	0.03
3/9/2011	2.74									0.11
3/10/2011	2.87		< 20.75	< 119.66	211.08		14.22			0.58
3/11/2011	2.52									0.17
3/12/2011	2.53									0.07
3/13/2011	2.58									0.20
3/14/2011	2.70									0.60
3/15/2011	2.79		< 20.17	< 116.31	190.28	1.18	12.79	< 0.012	0.07	0.09
3/16/2011	2.79									0.45
3/17/2011	2.62			< 109.19	181.48		15.20			0.16
3/18/2011	2.69									0.07
3/19/2011	2.59									0.12
3/20/2011	2.65									0.00

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
3/21/2011	2.62									0.17
3/22/2011	2.63		< 19.22	109.68	202.03	1.79	9.21	< 0.011	0.05	0.00
3/23/2011	2.63									0.01
3/24/2011	2.70			< 112.85	200.87		10.09			0.07
3/25/2011	2.64									0.26
3/26/2011	2.88									0.10
3/27/2011	2.78									0.52
3/28/2011	2.85		< 20.92	< 118.87	191.85	1.88	11.65	< 0.012	0.06	0.00
3/29/2011	3.06	7.81								0.15
3/30/2011	3.06									0.51
3/31/2011	3.11			< 129.56	192.26		11.27			0.30
4/1/2011	3.06									0.03
4/2/2011	3.15	7.82								0.07
4/3/2011	3.09									0.06
4/4/2011	3.65			< 152.19	205.46	1.87	18.93	< 0.015	0.11	0.28
4/5/2011	3.40									0.66
4/6/2011	3.42									0.45
4/7/2011	3.37		50.64	< 140.68	207.36		14.46			0.10
4/8/2011	2.96									0.00
4/9/2011	2.39									0.00
4/10/2011	2.41									0.08
4/11/2011	2.46									0.22
4/12/2011	2.41		< 17.43	< 100.50	157.79	1.36	7.90	< 0.010	0.06	0.03
4/13/2011	2.42									0.11
4/14/2011	2.56			< 106.83	180.32		7.86			0.15
4/15/2011	2.58									0.60
4/16/2011	2.41									0.16
4/17/2011	2.39									0.00
4/18/2011	2.37									0.01
4/19/2011	2.37			< 98.83	166.22	1.20	6.52	< 0.010	0.05	0.04
4/20/2011	2.35									0.00
4/21/2011	2.37		< 16.95	< 98.80	151.56		5.45			0.00
4/22/2011	2.35									0.05
4/23/2011	2.35									0.01
4/24/2011	2.47	7.38								0.23
4/25/2011	2.71									0.69
4/26/2011	2.62		30.59	< 109.26	148.16	1.09	8.61	< 0.011	0.05	0.55
4/27/2011	2.51									0.14
4/28/2011	2.51									0.31
4/29/2011	2.42			< 100.76	176.53		9.45			0.26
4/30/2011	2.38									
5/1/2011	2.37									0.00
5/2/2011	2.41									0.06
5/3/2011	2.40			< 99.97	144.76	0.93	6.38	< 0.010	0.04	0.20
5/4/2011	2.38									trace
5/5/2011	2.46		< 17.80	< 102.63	147.17		6.77			0.10
5/6/2011	2.58									0.01
5/7/2011	2.52	7.33								0.43
5/8/2011	2.50									0.10
5/9/2011	2.45									0.05

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
5/10/2011	2.46	7.97	26.66	102.53	141.90	0.70	5.37	< 0.010	0.04	0.01
5/11/2011	2.57									0.01
5/12/2011	2.47			123.88	149.27		6.94			0.29
5/13/2011	2.46									trace
5/14/2011	2.45									0.00
5/15/2011	2.70									0.47
5/16/2011	2.48									0.27
5/17/2011	2.45			< 102.34	164.77	1.04	7.14	< 0.010	0.04	0.00
5/18/2011	2.44									0.00
5/19/2011	2.44		< 17.88	< 101.59	163.97		5.97			0.00
5/20/2011	2.43									0.00
5/21/2011	2.41									0.03
5/22/2011	2.42									0.00
5/23/2011	2.43									0.01
5/24/2011	2.46			< 102.63	141.02	0.68	4.29	< 0.010	0.03	0.05
5/25/2011	2.46									0.15
5/26/2011	2.46		22.58	< 102.63	137.73		4.68			0.14
5/27/2011	2.46									0.10
5/28/2011	2.46									0.27
5/29/2011	2.46									0.05
5/30/2011	2.46									0.00
5/31/2011	2.46			< 102.63	91.55		2.85			0.10
6/1/2011	1.16	7.32								0.15
6/2/2011	1.16		< 8.39	< 48.40	40.26	0.20	1.44	< 0.005	0.02	trace
6/3/2011	1.18									0.31
6/4/2011	1.09									0.00
6/5/2011	1.09									0.00
6/6/2011	1.09									0.00
6/7/2011	0.97									0.01
6/8/2011	0.39									0.04
6/9/2011	0.00									0.00
6/10/2011	0.00									trace
6/11/2011	0.00									0.00
6/12/2011	0.00									0.00
6/13/2011	0.00									0.05
6/14/2011	0.00	8.45								0.00
6/15/2011	0.45		< 3.35	30.24	17.92	< 0.04	0.52	< 0.002	0.01	0.01
6/16/2011	0.00									0.06
6/17/2011	0.04									0.00
6/18/2011	1.25		< 9.14	< 52.15	49.75	< 0.10	< 0.52	< 0.005	0.13	0.15
6/19/2011	1.29									0.10
6/20/2011	1.29									0.00
6/21/2011	0.80			53.40	27.84	0.15	0.56	< 0.003	0.01	0.00
6/22/2011	0.86									0.00
6/23/2011	1.08			72.03	34.21		< 0.45			0.04
6/24/2011	0.89		8.94							0.00
6/25/2011	0.95									0.00
6/26/2011	0.95									0.00
6/27/2011	0.95									0.01
6/28/2011	1.12		42.91	46.64	42.91	0.16	< 0.47	< 0.005	0.01	0.24

Sample Date	OUTFALL 002A									
	Flow MGD	pH	O&G LBS/Day	TSS LBS/Day	Fluoride LBS/Day	Total CN LBS/Day	Aluminum LBS/Day	Antimony LBS/Day	Nickel LBS/Day	Rainfall Inches
6/29/2011	1.05									0.03
6/30/2011	0.83			< 34.75	28.50		0.47			0.09
Average	2.81	7.52	173.00	225.31	97.37	1.06	11.57	0.103	0.13	0.14
Maximum	9.25	8.45	18716.2	4422.20	1114.44	59.92	147.36	0.77	1.73	4.97
Minimum	0.00	6.12	3.35	16.54	4.29	0.01	0.45	0.00	0.01	0.00
Count	1721	172	285	554	553	283	554	291	291	1627

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
1/1/2006					
1/2/2006					
1/3/2006	0.088				
1/4/2006	0.093	0.14	29.17	0.002	
1/5/2006	0.071				
1/6/2006	0.021				
1/7/2006					
1/8/2006					
1/9/2006	0.009				
1/10/2006	0.098				
1/11/2006	0.096	0.26	27.92	0.001	
1/12/2006	0.098				
1/13/2006	0.092				
1/14/2006					
1/15/2006					
1/16/2006	0.091				
1/17/2006	0.096				
1/18/2006	0.097	0.28	26.89	0.000	
1/19/2006	0.094				
1/20/2006	0.091				
1/21/2006					
1/22/2006					
1/23/2006	0.094				
1/24/2006	0.092				
1/25/2006	0.098	0.24	25.69	0.001	
1/26/2006	0.083				
1/27/2006	0.095				
1/28/2006					
1/29/2006					
1/30/2006	0.091				
1/31/2006					
2/1/2006	0.107	0.24	30.44	0.001	
2/2/2006	0.096				
2/3/2006	0.090				
2/4/2006					
2/5/2006					
2/6/2006	0.079				
2/7/2006	0.088				
2/8/2006	0.092	0.31	24.10	0.002	
2/9/2006	0.084				
2/10/2006	0.036				
2/11/2006					
2/12/2006					
2/13/2006	0.084				
2/14/2006	0.085				
2/15/2006	0.098	0.39	26.05	0.001	
2/16/2006	0.093				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
2/17/2006	0.089				
2/18/2006					
2/19/2006					
2/20/2006	0.096				
2/21/2006	0.091				
2/22/2006	0.065	0.04	21.12	0.001	
2/23/2006	0.070				
2/24/2006	0.062				
2/25/2006					
2/26/2006					
2/27/2006	0.084				
2/28/2006	0.093				
3/1/2006	0.087	0.09	25.73	0.002	
3/2/2006	0.092				
3/3/2006	0.087				
3/4/2006					
3/5/2006					
3/6/2006	0.089				
3/7/2006	0.046				
3/8/2006	0.001	0.000002	0.315	0.046	
3/9/2006	0.082				
3/10/2006	0.000				
3/11/2006					
3/12/2006					
3/13/2006	0.002				
3/14/2006	0.100				
3/15/2006	0.091	0.46	28.45	0.003	
3/16/2006	0.000				
3/17/2006	0.108				
3/18/2006					
3/19/2006					
3/20/2006	0.001				
3/21/2006	0.094				
3/22/2006	0.096	0.72	33.64	0.003	
3/23/2006	0.089				
3/24/2006	0.094				
3/25/2006					
3/26/2006					
3/27/2006	0.009				
3/28/2006	0.098				
3/29/2006	0.097	0.56	31.46	0.002	
3/30/2006	0.085				
3/31/2006					
4/1/2006					
4/2/2006					
4/3/2006	0.004				
4/4/2006	0.091				
4/5/2006	0.091	0.10	35.98	0.001	
4/6/2006	0.088				
4/7/2006	0.090				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
4/8/2006					
4/9/2006					
4/10/2006	0.009				
4/11/2006	0.082				
4/12/2006	0.102	0.21	28.64	0.001	
4/13/2006	0.084				
4/14/2006					
4/15/2006					
4/16/2006					
4/17/2006	0.052				
4/18/2006	0.095				
4/19/2006	0.096	0.18	36.18	0.003	
4/20/2006	0.087				
4/21/2006	0.093				
4/22/2006					
4/23/2006					
4/24/2006	0.007				
4/25/2006	0.092				
4/26/2006	0.096	0.19	28.36	0.001	
4/27/2006	0.112				
4/28/2006	0.072				
4/29/2006					
4/30/2006					
5/1/2006	0.104				
5/2/2006					
5/3/2006					
5/4/2006					
5/5/2006					
5/6/2006					
5/7/2006					
5/8/2006					
5/9/2006					
5/10/2006					
5/11/2006					
5/12/2006					
5/13/2006					
5/14/2006					
5/15/2006					
5/16/2006					
5/17/2006					
5/18/2006					
5/19/2006					
5/20/2006					
5/21/2006					
5/22/2006					
5/23/2006					
5/24/2006					
5/25/2006					
5/26/2006					
5/27/2006					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
5/28/2006					
5/29/2006					
5/30/2006					
5/31/2006					
6/1/2006					
6/2/2006	0.006				
6/3/2006	0.097	0.06	51.65	0.006	
6/4/2006					
6/5/2006	0.097				
6/6/2006	0.095	0.08	47.09	0.005	
6/7/2006	0.092				
6/8/2006	0.095				
6/9/2006	0.090				
6/10/2006					
6/11/2006					
6/12/2006	0.005				
6/13/2006					
6/14/2006					
6/15/2006					
6/16/2006					
6/17/2006					
6/18/2006					
6/19/2006					
6/20/2006					
6/21/2006					
6/22/2006					
6/23/2006					
6/24/2006					
6/25/2006					
6/26/2006					
6/27/2006					
6/28/2006					
6/29/2006					
6/30/2006					
7/1/2006					
7/2/2006					
7/3/2006					
7/4/2006					
7/5/2006					
7/6/2006					
7/7/2006					
7/8/2006					
7/9/2006					
7/10/2006					
7/11/2006					
7/12/2006					
7/13/2006					
7/14/2006					
7/15/2006					
7/16/2006					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
7/17/2006					
7/18/2006	0.076				
7/19/2006	0.081	0.88	35.98	0.004	
7/20/2006	0.091				
7/21/2006	0.091				
7/22/2006					
7/23/2006					
7/24/2006	0.024				
7/25/2006					
7/26/2006					
7/27/2006					
7/28/2006					
7/29/2006					
7/30/2006					
7/31/2006					
8/1/2006					
8/2/2006					
8/3/2006					
8/4/2006					
8/5/2006					
8/6/2006					
8/7/2006					
8/8/2006					
8/9/2006					
8/10/2006					
8/11/2006					
8/12/2006					
8/13/2006					
8/14/2006					
8/15/2006					
8/16/2006					
8/17/2006					
8/18/2006					
8/19/2006					
8/20/2006					
8/21/2006					
8/22/2006					
8/23/2006					
8/24/2006					
8/25/2006					
8/26/2006					
8/27/2006					
8/28/2006					
8/29/2006					
8/30/2006	0.050				
8/31/2006					
9/1/2006					
9/2/2006					
9/3/2006					
9/4/2006					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
9/5/2006					
9/6/2006					
9/7/2006					
9/8/2006					
9/9/2006					
9/10/2006					
9/11/2006					
9/12/2006					
9/13/2006					
9/14/2006					
9/15/2006					
9/16/2006					
9/17/2006					
9/18/2006					
9/19/2006					
9/20/2006					
9/21/2006					
9/22/2006					
9/23/2006					
9/24/2006					
9/25/2006					
9/26/2006					
9/27/2006					
9/28/2006					
9/29/2006					
9/30/2006					
10/1/2006					
10/2/2006					
10/3/2006					
10/4/2006					
10/5/2006					
10/6/2006					
10/7/2006					
10/8/2006					
10/9/2006					
10/10/2006					
10/11/2006					
10/12/2006					
10/13/2006					
10/14/2006					
10/15/2006					
10/16/2006					
10/17/2006					
10/18/2006					
10/19/2006	0.006				
10/20/2006	0.024				
10/21/2006					
10/22/2006					
10/23/2006					
10/24/2006					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
10/25/2006					
10/26/2006					
10/27/2006					
10/28/2006					
10/29/2006					
10/30/2006					
10/31/2006					
11/1/2006					
11/2/2006					
11/3/2006					
11/4/2006					
11/5/2006					
11/6/2006	0.011				
11/7/2006	0.077	0.10	44.08		
11/8/2006	0.077				
11/9/2006	0.078				
11/10/2006	0.077				
11/11/2006					
11/12/2006					
11/13/2006	0.008				
11/14/2006	0.075	0.06	46.65	0.000	
11/15/2006	0.078				
11/16/2006	0.077				
11/17/2006	0.081				
11/18/2006					
11/19/2006					
11/20/2006	0.034				
11/21/2006	0.079	0.05	40.49	0.000	
11/22/2006	0.081				
11/23/2006					
11/24/2006					
11/25/2006					
11/26/2006					
11/27/2006	0.079				
11/28/2006	0.080	0.07	32.13	0.000	
11/29/2006	0.079				
11/30/2006	0.080				
12/1/2006	0.081				
12/2/2006					
12/3/2006					
12/4/2006	0.012				
12/5/2006	0.066	0.05	23.68	0.001	
12/6/2006	0.078				
12/7/2006	0.081				
12/8/2006	0.083				
12/9/2006					
12/10/2006					
12/11/2006	0.010				
12/12/2006	0.081	0.12	22.44	0.001	
12/13/2006	0.081				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
12/14/2006	0.082				
12/15/2006	0.083				
12/16/2006					
12/17/2006					
12/18/2006	0.010				
12/19/2006	0.082				
12/20/2006	0.082	0.24	20.80	0.000	
12/21/2006	0.084				
12/22/2006	0.089				
12/23/2006					
12/24/2006					
12/25/2006					
12/26/2006	0.006				
12/27/2006	0.085				
12/28/2006	0.087	0.36	18.22	0.000	
12/29/2006	0.085				
12/30/2006					
12/31/2006					
1/1/2007					
1/2/2007	0.005				
1/3/2007	0.006				
1/4/2007	0.086	0.21	22.93	0.000	
1/5/2007	0.085				
1/6/2007					
1/7/2007					
1/8/2007	0.086				
1/9/2007	0.088	0.09	16.53	0.000	
1/10/2007	0.086				
1/11/2007	0.085				
1/12/2007	0.086				
1/13/2007					
1/14/2007					
1/15/2007	0.088				
1/16/2007	0.086	0.06	17.90	0.000	
1/17/2007	0.085				
1/18/2007	0.088				
1/19/2007	0.088				
1/20/2007					
1/21/2007					
1/22/2007	0.010				
1/23/2007	0.086	0.33	18.79	0.000	
1/24/2007	0.085				
1/25/2007	0.085				
1/26/2007	0.084				
1/27/2007					
1/28/2007					
1/29/2007	0.008				
1/30/2007	0.002				
1/31/2007	0.001				
2/1/2007	0.001				
2/2/2007	0.001				
2/3/2007					
2/4/2007					
2/5/2007	0.001				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
2/6/2007	0.000				
2/7/2007	0.005				
2/8/2007	0.086	0.36	22.22	0.000	
2/9/2007	0.085				
2/10/2007					
2/11/2007					
2/12/2007	0.009				
2/13/2007	0.088	0.24	19.00	0.000	
2/14/2007	0.087				
2/15/2007	0.099				
2/16/2007	0.078				
2/17/2007					
2/18/2007					
2/19/2007	0.089				
2/20/2007	0.091	0.37	20.19	0.000	
2/21/2007	0.089				
2/22/2007	0.096				
2/23/2007	0.083				
2/24/2007					
2/25/2007					
2/26/2007	0.089				
2/27/2007	0.089	0.28	20.60		
2/28/2007	0.089				
3/1/2007	0.088				
3/2/2007	0.090				
3/3/2007					
3/4/2007					
3/5/2007	0.009				
3/6/2007	0.092	0.02	24.4	0.000	
3/7/2007	0.085				
3/8/2007	0.085				
3/9/2007	0.095				
3/10/2007					
3/11/2007					
3/12/2007	0.092				
3/13/2007	0.091	0.01	23.6	0.000	
3/14/2007	0.089				
3/15/2007	0.092				
3/16/2007	0.090				
3/17/2007					
3/18/2007					
3/19/2007	0.092				
3/20/2007	0.092	0.01	17.6	0.000	
3/21/2007	0.096				
3/22/2007	0.094				
3/23/2007	0.087				
3/24/2007					
3/25/2007					
3/26/2007	0.093				
3/27/2007	0.094	0.22	21.9	0.000	
3/28/2007	0.022				
3/29/2007					
3/30/2007					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
3/31/2007					
4/1/2007					
4/2/2007	0.000				
4/3/2007					
4/4/2007					
4/5/2007					
4/6/2007					
4/7/2007					
4/8/2007					
4/9/2007					
4/10/2007	0.081	0.10	25.41	0.000	
4/11/2007	0.093				
4/12/2007	0.090				
4/13/2007	0.089				
4/14/2007					
4/15/2007					
4/16/2007	0.090				
4/17/2007	0.090	0.12	26.02	0.000	
4/18/2007	0.089				
4/19/2007	0.090				
4/20/2007	0.091				
4/21/2007					
4/22/2007					
4/23/2007	0.092				
4/24/2007	0.091	0.13	27.16	0.000	
4/25/2007	0.090				
4/26/2007	0.091				
4/27/2007	0.092				
4/28/2007					
4/29/2007					
4/30/2007					
5/1/2007					
5/2/2007					
5/3/2007					
5/4/2007					
5/5/2007					
5/6/2007					
5/7/2007					
5/8/2007					
5/9/2007					
5/10/2007					
5/11/2007					
5/12/2007					
5/13/2007					
5/14/2007					
5/15/2007					
5/16/2007					
5/17/2007					
5/18/2007					
5/19/2007					
5/20/2007					
5/21/2007					
5/22/2007					
5/23/2007					
5/24/2007					
5/25/2007					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
5/26/2007					
5/27/2007					
5/28/2007					
5/29/2007					
5/30/2007					
5/31/2007					
6/1/2007					
6/2/2007					
6/3/2007					
6/4/2007					
6/5/2007					
6/6/2007					
6/7/2007					
6/8/2007					
6/9/2007					
6/10/2007					
6/11/2007					
6/12/2007					
6/13/2007					
6/14/2007					
6/15/2007					
6/16/2007					
6/17/2007					
6/18/2007					
6/19/2007					
6/20/2007					
6/21/2007					
6/22/2007					
6/23/2007					
6/24/2007					
6/25/2007					
6/26/2007					
6/27/2007					
6/28/2007					
6/29/2007					
6/30/2007					
7/1/2007					
7/2/2007					
7/3/2007					
7/4/2007					
7/5/2007					
7/6/2007					
7/7/2007					
7/8/2007					
7/9/2007					
7/10/2007					
7/11/2007					
7/12/2007					
7/13/2007					
7/14/2007					
7/15/2007					
7/16/2007					
7/17/2007					
7/18/2007					
7/19/2007					
7/20/2007					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
7/21/2007					
7/22/2007					
7/23/2007					
7/24/2007					
7/25/2007					
7/26/2007					
7/27/2007					
7/28/2007					
7/29/2007					
7/30/2007					
7/31/2007					
8/1/2007					
8/2/2007					
8/3/2007					
8/4/2007					
8/5/2007					
8/6/2007					
8/7/2007					
8/8/2007					
8/9/2007					
8/10/2007					
8/11/2007					
8/12/2007					
8/13/2007					
8/14/2007					
8/15/2007					
8/16/2007					
8/17/2007					
8/18/2007					
8/19/2007					
8/20/2007					
8/21/2007					
8/22/2007					
8/23/2007					
8/24/2007					
8/25/2007					
8/26/2007					
8/27/2007					
8/28/2007					
8/29/2007					
8/30/2007					
8/31/2007					
9/1/2007					
9/2/2007					
9/3/2007					
9/4/2007					
9/5/2007					
9/6/2007					
9/7/2007					
9/8/2007					
9/9/2007					
9/10/2007					
9/11/2007					
9/12/2007					
9/13/2007					
9/14/2007					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
9/15/2007					
9/16/2007					
9/17/2007					
9/18/2007					
9/19/2007					
9/20/2007					
9/21/2007					
9/22/2007					
9/23/2007					
9/24/2007					
9/25/2007					
9/26/2007					
9/27/2007					
9/28/2007					
9/29/2007					
9/30/2007					
10/1/2007					
10/2/2007					
10/3/2007					
10/4/2007					
10/5/2007					
10/6/2007					
10/7/2007					
10/8/2007					
10/9/2007					
10/10/2007					
10/11/2007					
10/12/2007					
10/13/2007					
10/14/2007					
10/15/2007					
10/16/2007					
10/17/2007					
10/18/2007					
10/19/2007					
10/20/2007					
10/21/2007					
10/22/2007					
10/23/2007					
10/24/2007					
10/25/2007					
10/26/2007					
10/27/2007					
10/28/2007					
10/29/2007					
10/30/2007					
10/31/2007					
11/1/2007					
11/2/2007					
11/3/2007					
11/4/2007					
11/5/2007					
11/6/2007					
11/7/2007					
11/8/2007					
11/9/2007					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
11/10/2007					
11/11/2007					
11/12/2007					
11/13/2007					
11/14/2007					
11/15/2007					
11/16/2007					
11/17/2007					
11/18/2007					
11/19/2007					
11/20/2007					
11/21/2007					
11/22/2007					
11/23/2007					
11/24/2007					
11/25/2007					
11/26/2007					
11/27/2007					
11/28/2007					
11/29/2007					
11/30/2007					
12/1/2007					
12/2/2007					
12/3/2007	0.004				
12/4/2007	0.093				
12/5/2007	0.104				
12/6/2007	0.111	0.04	36.80	0.000	
12/7/2007	0.110				
12/8/2007					
12/9/2007					
12/10/2007	0.040				
12/11/2007	0.097				
12/12/2007	0.107	0.04	34.21	0.000	
12/13/2007	0.112				
12/14/2007	0.100				
12/15/2007					
12/16/2007					
12/17/2007	0.013				
12/18/2007	0.087				
12/19/2007	0.029				
12/20/2007	0.000				
12/21/2007	0.093	0.01	27.73	0.000	
12/22/2007					
12/23/2007					
12/24/2007	0.013				
12/25/2007					
12/26/2007	0.016				
12/27/2007	0.000				
12/28/2007	0.033				
12/29/2007					
12/30/2007					
12/31/2007	0.009				
1/1/2008					
1/2/2008	0.015				
1/3/2008	0.121				
1/4/2008	0.119	0.11	31.40	0.001	

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
1/5/2008					
1/6/2008					
1/7/2008	0.120				
1/8/2008	0.109				
1/9/2008	0.120				
1/10/2008	0.118	0.09	29.40	0.000	
1/11/2008	0.117				
1/12/2008					
1/13/2008					
1/14/2008	0.121				
1/15/2008	0.126				
1/16/2008	0.115				
1/17/2008	0.118	0.21	29.30	0.000	
1/18/2008	0.116				
1/19/2008					
1/20/2008					
1/21/2008	0.007				
1/22/2008	0.000				
1/23/2008	0.000				
1/24/2008	0.000				
1/25/2008	0.000				
1/26/2008					
1/27/2008					
1/28/2008	0.000				
1/29/2008	0.000				
1/30/2008	0.000				
1/31/2008	0.000				
2/1/2008	0.000				
2/2/2008					
2/3/2008					
2/4/2008	0.000				
2/5/2008	0.100				
2/6/2008	0.117				
2/7/2008	0.122	0.12	29.80	0.002	
2/8/2008	0.116				
2/9/2008					
2/10/2008					
2/11/2008	0.120				
2/12/2008	0.115				
2/13/2008	0.122				
2/14/2008	0.124	0.11	32.90	0.002	
2/15/2008	0.118				
2/16/2008					
2/17/2008					
2/18/2008	0.121				
2/19/2008	0.121				
2/20/2008	0.119				
2/21/2008	0.123	0.19	32.20	0.002	
2/22/2008	0.123				
2/23/2008					
2/24/2008					
2/25/2008	0.125				
2/26/2008	0.119				
2/27/2008	0.128	0.19	38.30	0.002	
2/28/2008	0.029				
2/29/2008	0.000				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
3/1/2008					
3/2/2008					
3/3/2008	0.000				
3/4/2008	0.000				
3/5/2008	0.000				
3/6/2008	0.000				
3/7/2008	0.000				
3/8/2008					
3/9/2008					
3/10/2008	0.000				
3/11/2008	0.000				
3/12/2008	0.000				
3/13/2008	0.000				
3/14/2008	0.000				
3/15/2008					
3/16/2008					
3/17/2008	0.000				
3/18/2008	0.000				
3/19/2008	0.000				
3/20/2008	0.000				
3/21/2008	0.000				
3/22/2008					
3/23/2008					
3/24/2008	0.000				
3/25/2008	0.000				
3/26/2008	0.000				
3/27/2008	0.000				
3/28/2008	0.000				
3/29/2008					
3/30/2008					
3/31/2008	0.000				
4/1/2008	0.000				
4/2/2008	0.094				
4/3/2008	0.106	0.05	35.30	0.002	
4/4/2008	0.110				
4/5/2008					
4/6/2008					
4/7/2008	0.109				
4/8/2008	0.111				
4/9/2008	0.111				
4/10/2008	0.110	0.18	29.40	0.001	
4/11/2008	0.114				
4/12/2008					
4/13/2008					
4/14/2008	0.010				
4/15/2008	0.108				
4/16/2008	0.110				
4/17/2008	0.115	0.19	30.50	0.001	
4/18/2008	0.114				
4/19/2008					
4/20/2008					
4/21/2008	0.011				
4/22/2008	0.105				
4/23/2008	0.111				
4/24/2008	0.116	0.13	35.10	0.001	
4/25/2008	0.108				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
4/26/2008					
4/27/2008					
4/28/2008	0.012				
4/29/2008	0.050				
4/30/2008	0.050				
5/1/2008	0.100	0.10	31.20	0.001	
5/2/2008	0.105				
5/3/2008					
5/4/2008					
5/5/2008	0.011				
5/6/2008	0.093				
5/7/2008	0.107				
5/8/2008	0.101	0.16	28.60	0.001	
5/9/2008	0.100				
5/10/2008					
5/11/2008					
5/12/2008	0.009				
5/13/2008	0.000				
5/14/2008	0.000				
5/15/2008	0.000				
5/16/2008	0.000				
5/17/2008					
5/18/2008					
5/19/2008	0.000				
5/20/2008	0.099				
5/21/2008	0.100				
5/22/2008	0.102	0.09	29.30	0.001	
5/23/2008	0.099				
5/24/2008					
5/25/2008					
5/26/2008	0.010				
5/27/2008	0.097				
5/28/2008	0.103				
5/29/2008	0.100	0.07	29.90	0.001	
5/30/2008	0.099				
5/31/2008					
6/1/2008					
6/2/2008	0.005				
6/3/2008	0.000				
6/4/2008	0.000				
6/5/2008	0.000				
6/6/2008	0.000				
6/7/2008					
6/8/2008					
6/9/2008	0.000				
6/10/2008	0.000				
6/11/2008	0.000				
6/12/2008	0.000				
6/13/2008	0.000				
6/14/2008					
6/15/2008					
6/16/2008	0.000				
6/17/2008	0.000				
6/18/2008	0.000				
6/19/2008	0.000				
6/20/2008	0.000				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
6/21/2008					
6/22/2008					
6/23/2008	0.000				
6/24/2008	0.000				
6/25/2008	0.000				
6/26/2008	0.000				
6/27/2008	0.000				
6/28/2008					
6/29/2008					
6/30/2008	0.000				
7/1/2008	0.000				
7/2/2008	0.000				
7/3/2008	0.000				
7/4/2008	0.000				
7/5/2008	0.000				
7/6/2008	0.000				
7/7/2008	0.000				
7/8/2008	0.000				
7/9/2008	0.000				
7/10/2008	0.000				
7/11/2008	0.000				
7/12/2008	0.000				
7/13/2008	0.000				
7/14/2008	0.000				
7/15/2008	0.000				
7/16/2008	0.000				
7/17/2008	0.000				
7/18/2008	0.000				
7/19/2008	0.000				
7/20/2008	0.000				
7/21/2008	0.000				
7/22/2008	0.000				
7/23/2008	0.000				
7/24/2008	0.000				
7/25/2008	0.000				
7/26/2008	0.000				
7/27/2008	0.000				
7/28/2008	0.000				
7/29/2008	0.000				
7/30/2008	0.000				
7/31/2008	0.000				
8/1/2008	0.000				
8/2/2008	0.000				
8/3/2008	0.000				
8/4/2008	0.000				
8/5/2008	0.101				
8/6/2008	0.095				
8/7/2008	0.102	0.01	52.40	0.001	
8/8/2008	0.103				
8/9/2008	0.011				
8/10/2008	0.011				
8/11/2008	0.011				
8/12/2008	0.103				
8/13/2008	0.106				
8/14/2008	0.104	0.01	51.30	0.001	
8/15/2008	0.109				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
8/16/2008	0.010				
8/17/2008	0.010				
8/18/2008	0.010				
8/19/2008	0.099				
8/20/2008	0.105				
8/21/2008	0.106	0.03	49.80	0.002	
8/22/2008	0.105				
8/23/2008	0.012				
8/24/2008	0.012				
8/25/2008	0.012				
8/26/2008	0.110				
8/27/2008	0.047				
8/28/2008	0.073	0.01	36.70	0.003	
8/29/2008	0.083				
8/30/2008					
8/31/2008					
9/1/2008	0.007				
9/2/2008	0.007				
9/3/2008	0.079				
9/4/2008	0.098	0.02	39.70	0.002	
9/5/2008	0.110				
9/6/2008	0.103	0.03			
9/7/2008	0.103				
9/8/2008	0.103				
9/9/2008	0.107				
9/10/2008	0.106				
9/11/2008	0.101	0.03	67.70	0.001	
9/12/2008	0.097				
9/13/2008	0.010				
9/14/2008	0.010				
9/15/2008	0.010				
9/16/2008	0.089	0.03	47.90	0.001	
9/17/2008	0.110				
9/18/2008	0.109				
9/19/2008	0.112				
9/20/2008	0.012				
9/21/2008	0.012				
9/22/2008	0.012				
9/23/2008	0.105				
9/24/2008	0.110				
9/25/2008	0.111	0.03	29.50	0.001	
9/26/2008	0.103				
9/27/2008	0.011				
9/28/2008	0.011				
9/29/2008	0.011				
9/30/2008	0.103				
10/1/2008	0.111				
10/2/2008	0.105	0.17	30.30	0.001	
10/3/2008	0.109				
10/4/2008	0.010				
10/5/2008	0.010				
10/6/2008	0.010				
10/7/2008	0.110				
10/8/2008	0.106				
10/9/2008	0.109	0.29	48.70	0.003	
10/10/2008	0.108				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
10/11/2008	0.010				
10/12/2008	0.010				
10/13/2008	0.010				
10/14/2008	0.105				
10/15/2008	0.113				
10/16/2008	0.098	0.35	60.10	0.012	
10/17/2008	0.108				
10/18/2008	0.011				
10/19/2008	0.011				
10/20/2008	0.011				
10/21/2008	0.103				
10/22/2008	0.110				
10/23/2008	0.031				
10/24/2008	0.000				
10/25/2008	0.004				
10/26/2008	0.004				
10/27/2008	0.004				
10/28/2008	0.000				
10/29/2008	0.000				
10/30/2008	0.000				
10/31/2008	0.000				
11/1/2008	0.000				
11/2/2008	0.000				
11/3/2008	0.000				
11/4/2008	0.000				
11/5/2008	0.000				
11/6/2008	0.000				
11/7/2008	0.000				
11/8/2008	0.000				
11/9/2008	0.000				
11/10/2008	0.000				
11/11/2008	0.001				
11/12/2008	0.109				
11/13/2008	0.111				
11/14/2008	0.105	0.29	35.30	0.011	
11/15/2008	0.042				
11/16/2008	0.042				
11/17/2008	0.042				
11/18/2008	0.099				
11/19/2008	0.116				
11/20/2008	0.111				
11/21/2008	0.106				
11/22/2008	0.102				
11/23/2008	0.102				
11/24/2008	0.102				
11/25/2008	0.000				
11/26/2008	0.000				
11/27/2008	0.000				
11/28/2008	0.000				
11/29/2008	0.000				
11/30/2008	0.000				
12/1/2008					
12/2/2008					
12/3/2008					
12/4/2008					
12/5/2008					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
12/6/2008					
12/7/2008					
12/8/2008					
12/9/2008					
12/10/2008					
12/11/2008					
12/12/2008					
12/13/2008					
12/14/2008					
12/15/2008					
12/16/2008					
12/17/2008					
12/18/2008					
12/19/2008					
12/20/2008					
12/21/2008					
12/22/2008					
12/23/2008					
12/24/2008					
12/25/2008					
12/26/2008					
12/27/2008					
12/28/2008					
12/29/2008					
12/30/2008					
12/31/2008					
1/1/2009					
1/2/2009					
1/3/2009					
1/4/2009					
1/5/2009	0.000				
1/6/2009	0.000				
1/7/2009	0.000				
1/8/2009	0.000				
1/9/2009	0.000				
1/10/2009	0.000				
1/11/2009	0.000				
1/12/2009	0.000				
1/13/2009	0.000				
1/14/2009	0.000				
1/15/2009	0.000				
1/16/2009	0.000				
1/17/2009	0.000				
1/18/2009	0.000				
1/19/2009	0.000				
1/20/2009	0.000				
1/21/2009	0.069				
1/22/2009	0.106	0.03	14.30	0.001	
1/23/2009	0.093				
1/24/2009	0.950				
1/25/2009	0.113				
1/26/2009	0.113				
1/27/2009	0.113	0.04	10.10	0.001	
1/28/2009	0.089				
1/29/2009	0.101				
1/30/2009	0.096				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
1/31/2009	0.094				
2/1/2009	0.094				
2/2/2009	0.094				
2/3/2009	0.107	0.02	6.10	0.001	
2/4/2009	0.100				
2/5/2009	0.117				
2/6/2009	0.108				
2/7/2009	0.105				
2/8/2009	0.105				
2/9/2009	0.105				
2/10/2009	0.119				
2/11/2009	0.102				
2/12/2009	0.106				
2/13/2009	0.123	0.05	9.90	0.001	
2/14/2009	0.098				
2/15/2009	0.098				
2/16/2009	0.098				
2/17/2009	0.124	0.06	10.20	0.001	
2/18/2009	0.099				
2/19/2009	0.120				
2/20/2009	0.111				
2/21/2009	0.105				
2/22/2009	0.105				
2/23/2009	0.105				
2/24/2009	0.123	0.08	11.80	0.001	
2/25/2009	0.114				
2/26/2009	0.111				
2/27/2009	0.127				
2/28/2009	0.112				
3/1/2009	0.112				
3/2/2009	0.112				
3/3/2009	0.113	0.27	12.50	0.001	
3/4/2009	0.100				
3/5/2009	0.123				
3/6/2009	0.117				
3/7/2009	0.122				
3/8/2009	0.122				
3/9/2009	0.122				
3/10/2009	0.028	0.09	3.30	0.001	
3/11/2009	0.095				
3/12/2009	0.133				
3/13/2009	0.120				
3/14/2009	0.065				
3/15/2009	0.065				
3/16/2009	0.065				
3/17/2009	0.096	0.14	15.60	0.001	
3/18/2009	0.075				
3/19/2009	0.035				
3/20/2009	0.000				
3/21/2009	0.093				
3/22/2009	0.093				
3/23/2009	0.093				
3/24/2009	0.000				
3/25/2009	0.000				
3/26/2009	0.000				
3/27/2009	0.000				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
3/28/2009	0.000				
3/29/2009	0.000				
3/30/2009	0.000				
3/31/2009	0.000				
4/1/2009					
4/2/2009					
4/3/2009					
4/4/2009					
4/5/2009					
4/6/2009					
4/7/2009					
4/8/2009					
4/9/2009					
4/10/2009					
4/11/2009					
4/12/2009					
4/13/2009					
4/14/2009					
4/15/2009					
4/16/2009					
4/17/2009					
4/18/2009					
4/19/2009					
4/20/2009					
4/21/2009					
4/22/2009					
4/23/2009					
4/24/2009					
4/25/2009					
4/26/2009					
4/27/2009					
4/28/2009					
4/29/2009					
4/30/2009					
5/1/2009					
5/2/2009					
5/3/2009					
5/4/2009					
5/5/2009					
5/6/2009					
5/7/2009					
5/8/2009					
5/9/2009					
5/10/2009					
5/11/2009					
5/12/2009					
5/13/2009					
5/14/2009					
5/15/2009					
5/16/2009					
5/17/2009					
5/18/2009					
5/19/2009					
5/20/2009					
5/21/2009					
5/22/2009					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
5/23/2009					
5/24/2009					
5/25/2009					
5/26/2009					
5/27/2009					
5/28/2009					
5/29/2009					
5/30/2009					
5/31/2009					
6/1/2009					
6/2/2009					
6/3/2009					
6/4/2009					
6/5/2009					
6/6/2009					
6/7/2009					
6/8/2009					
6/9/2009					
6/10/2009					
6/11/2009					
6/12/2009					
6/13/2009					
6/14/2009					
6/15/2009					
6/16/2009					
6/17/2009					
6/18/2009					
6/19/2009					
6/20/2009					
6/21/2009					
6/22/2009					
6/23/2009					
6/24/2009					
6/25/2009					
6/26/2009					
6/27/2009					
6/28/2009					
6/29/2009					
6/30/2009					
7/1/2009					
7/2/2009					
7/3/2009					
7/4/2009					
7/5/2009					
7/6/2009					
7/7/2009					
7/8/2009					
7/9/2009					
7/10/2009					
7/11/2009					
7/12/2009					
7/13/2009					
7/14/2009					
7/15/2009					
7/16/2009					
7/17/2009					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
7/18/2009					
7/19/2009					
7/20/2009					
7/21/2009					
7/22/2009					
7/23/2009					
7/24/2009					
7/25/2009					
7/26/2009					
7/27/2009					
7/28/2009					
7/29/2009					
7/30/2009					
7/31/2009					
8/1/2009					
8/2/2009					
8/3/2009					
8/4/2009					
8/5/2009					
8/6/2009					
8/7/2009					
8/8/2009					
8/9/2009					
8/10/2009					
8/11/2009					
8/12/2009					
8/13/2009					
8/14/2009					
8/15/2009					
8/16/2009					
8/17/2009					
8/18/2009					
8/19/2009					
8/20/2009					
8/21/2009					
8/22/2009					
8/23/2009					
8/24/2009					
8/25/2009					
8/26/2009					
8/27/2009					
8/28/2009					
8/29/2009					
8/30/2009					
8/31/2009					
9/1/2009					
9/2/2009					
9/3/2009					
9/4/2009					
9/5/2009					
9/6/2009					
9/7/2009					
9/8/2009					
9/9/2009					
9/10/2009					
9/11/2009					

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
9/12/2009					
9/13/2009					
9/14/2009					
9/15/2009					
9/16/2009					
9/17/2009					
9/18/2009					
9/19/2009					
9/20/2009					
9/21/2009					
9/22/2009					
9/23/2009					
9/24/2009					
9/25/2009					
9/26/2009					
9/27/2009					
9/28/2009					
9/29/2009					
9/30/2009					
10/1/2009					
10/2/2009					
10/3/2009					
10/4/2009					
10/5/2009					
10/6/2009					
10/7/2009					
10/8/2009					
10/9/2009					
10/10/2009					
10/11/2009					
10/12/2009					
10/13/2009					
10/14/2009					
10/15/2009					
10/16/2009					
10/17/2009					
10/18/2009					
10/19/2009					
10/20/2009					
10/21/2009					
10/22/2009					
10/23/2009					
10/24/2009					
10/25/2009					
10/26/2009					
10/27/2009					
10/28/2009					
10/29/2009					
10/30/2009					
10/31/2009					
11/1/2009	0.000				
11/2/2009	0.000				
11/3/2009	0.000				
11/4/2009	0.000				
11/5/2009	0.000				
11/6/2009	0.000				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
11/7/2009	0.000				
11/8/2009	0.000				
11/9/2009	0.000				
11/10/2009	0.000				
11/11/2009	0.000				
11/12/2009	0.000				
11/13/2009	0.000				
11/14/2009	0.000				
11/15/2009	0.000				
11/16/2009	0.000				
11/17/2009	0.000				
11/18/2009	0.001				
11/19/2009	0.005				
11/20/2009	0.093				
11/21/2009	0.078				
11/22/2009	0.078				
11/23/2009	0.078				
11/24/2009	0.110				
11/25/2009	0.106				
11/26/2009	0.000	0.08	21.10	0.002	
11/27/2009	0.330				
11/28/2009	0.032				
11/29/2009	0.032				
11/30/2009	0.032				
12/1/2009	0.100	0.03	9.50	0.001	
12/2/2009	0.109				
12/3/2009	0.108				
12/4/2009	0.090				
12/5/2009	0.104				
12/6/2009	0.104				
12/7/2009	0.104				
12/8/2009	0.100	0.06	7.50	0.001	
12/9/2009	0.104				
12/10/2009	0.105				
12/11/2009	0.082				
12/12/2009	0.097				
12/13/2009	0.097				
12/14/2009	0.097				
12/15/2009	0.096	0.04	5.10	0.001	
12/16/2009	0.021				
12/17/2009	0.089				
12/18/2009	0.082				
12/19/2009	0.104				
12/20/2009	0.104				
12/21/2009	0.104	0.04	3.10	0.001	
12/22/2009	0.088				
12/23/2009	0.083				
12/24/2009	0.070				
12/25/2009	0.117				
12/26/2009	0.117				
12/27/2009	0.117				
12/28/2009	0.117	0.02			
12/29/2009	0.118		2.90	0.000	
12/30/2009	0.033				
12/31/2009	0.033				
1/1/2010	0.070				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
1/2/2010	0.070				
1/3/2010	0.070				
1/4/2010	0.070				
1/5/2010	0.062	0.04	8.70	0.001	
1/6/2010	0.064				
1/7/2010	0.054				
1/8/2010	0.079				
1/9/2010	0.075				
1/10/2010	0.075				
1/11/2010	0.075				
1/12/2010	0.093	0.07	9.50	0.001	
1/13/2010	0.098				
1/14/2010	0.095				
1/15/2010	0.071				
1/16/2010	0.098				
1/17/2010	0.098				
1/18/2010	0.098				
1/19/2010	0.102	0.08	13.30	0.001	
1/20/2010	0.114				
1/21/2010	0.109				
1/22/2010	0.079				
1/23/2010	0.079				
1/24/2010	0.079				
1/25/2010	0.079				
1/26/2010	0.106	0.07	19.90	0.001	
1/27/2010	0.102				
1/28/2010	0.093				
1/29/2010	0.120				
1/30/2010	0.000				
1/31/2010	0.000				
2/1/2010	0.000				
2/2/2010	0.000				
2/3/2010	0.000				
2/4/2010	0.000				
2/5/2010	0.000				
2/6/2010					
2/7/2010					
2/8/2010	0.074				
2/9/2010	0.105	0.13	15.00	0.001	
2/10/2010	0.043				
2/11/2010	0.014				
2/12/2010	0.094				
2/13/2010					
2/14/2010					
2/15/2010	0.092				
2/16/2010	0.093	0.07	9.80	0.001	
2/17/2010	0.010				
2/18/2010	0.000				
2/19/2010	0.083				
2/20/2010					
2/21/2010					
2/22/2010	0.101				
2/23/2010	0.004	0.08	0.10	0.001	
2/24/2010	0.000				
2/25/2010	0.071				
2/26/2010	0.094				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
2/27/2010					
2/28/2010					
3/1/2010	0.115				
3/2/2010	0.111	0.18	18.50	0.001	
3/3/2010	0.096				
3/4/2010	0.132				
3/5/2010	0.107				
3/6/2010	0.113				
3/7/2010	0.113				
3/8/2010	0.113				
3/9/2010	0.030	0.14	5.80	0.001	
3/10/2010	0.000				
3/11/2010	0.000				
3/12/2010	0.000				
3/13/2010	0.068				
3/14/2010	0.068				
3/15/2010	0.068				
3/16/2010	0.124	0.26	22.00	0.001	
3/17/2010	0.128				
3/18/2010	0.127				
3/19/2010	0.036				
3/20/2010	0.000				
3/21/2010	0.000				
3/22/2010	0.000				
3/23/2010	0.000				
3/24/2010	0.000				
3/25/2010	0.000				
3/26/2010	0.000				
3/27/2010	0.000				
3/28/2010	0.000				
3/29/2010	0.335				
3/30/2010	0.128	0.39	22.40	0.001	
3/31/2010	0.112				
4/1/2010	0.191				
4/2/2010	0.049				
4/3/2010	0.124				
4/4/2010	0.124				
4/5/2010	0.124				
4/6/2010	0.099				
4/7/2010	0.138				
4/8/2010	0.099	0.36	24.80	0.001	
4/9/2010	0.000				
4/10/2010	0.000				
4/11/2010	0.000				
4/12/2010	0.000				
4/13/2010	0.000				
4/14/2010	0.000				
4/15/2010	0.000				
4/16/2010	0.000				
4/17/2010	0.000				
4/18/2010	0.000				
4/19/2010	0.000				
4/20/2010	0.000				
4/21/2010	0.000				
4/22/2010	0.000				
4/23/2010	0.000				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
4/24/2010	0.099				
4/25/2010	0.099				
4/26/2010	0.099				
4/27/2010	0.116	0.22	31.70	0.001	
4/28/2010	0.118				
4/29/2010	0.072				
4/30/2010	0.078				
5/1/2010	0.030				
5/2/2010	0.030				
5/3/2010	0.030				
5/4/2010	0.000				
5/5/2010	0.000				
5/6/2010	0.022				
5/7/2010	0.104	0.29	22.90	0.001	
5/8/2010	0.109				
5/9/2010	0.109				
5/10/2010	0.109				
5/11/2010	0.105	0.28	27.10	0.001	
5/12/2010	0.110				
5/13/2010	0.123				
5/14/2010	0.112				
5/15/2010	0.098				
5/16/2010	0.098				
5/17/2010	0.098	0.41	25.80	0.001	
5/18/2010	0.000				
5/19/2010	0.000				
5/20/2010	0.000				
5/21/2010	0.000				
5/22/2010	0.093				
5/23/2010	0.093				
5/24/2010	0.093				
5/25/2010	0.102	0.03	31.00	0.001	
5/26/2010	0.056				
5/27/2010	0.108				
5/28/2010	0.101				
5/29/2010	0.092				
5/30/2010	0.092				
5/31/2010	0.092				
6/1/2010	0.092				
6/2/2010	0.089	0.30	27.76	0.001	
6/3/2010	0.091				
6/4/2010	0.091				
6/5/2010	0.091				
6/6/2010	0.091				
6/7/2010	0.091				
6/8/2010	0.086	0.45	27.79	0.001	
6/9/2010	0.107				
6/10/2010	0.080				
6/11/2010	0.010				
6/12/2010	0.081				
6/13/2010	0.081				
6/14/2010	0.081				
6/15/2010	0.060	0.15	21.47	0.000	
6/16/2010	0.000				
6/17/2010	0.000				
6/18/2010	0.046				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
6/19/2010	0.085				
6/20/2010	0.085				
6/21/2010	0.085				
6/22/2010	0.085				
6/23/2010	0.072	0.08	33.76	0.007	
6/24/2010	0.055				
6/25/2010	0.066				
6/26/2010	0.052				
6/27/2010	0.052				
6/28/2010	0.052				
6/29/2010	0.067				
6/30/2010	0.066				
7/1/2010	0.067				
7/2/2010	0.067				
7/3/2010	0.034				
7/4/2010	0.034				
7/5/2010	0.034				
7/6/2010	0.034				
7/7/2010	0.078				
7/8/2010	0.019	0.01	6.31	0.001	
7/9/2010	0.000				
7/10/2010	0.000				
7/11/2010	0.000				
7/12/2010	0.000				
7/13/2010	0.013				
7/14/2010	0.000				
7/15/2010	0.000				
7/16/2010	0.020				
7/17/2010	0.000				
7/18/2010	0.000				
7/19/2010	0.000				
7/20/2010	0.004				
7/21/2010	0.013				
7/22/2010	0.000				
7/23/2010	0.002				
7/24/2010	0.004				
7/25/2010	0.004				
7/26/2010	0.004				
7/27/2010	0.000				
7/28/2010	0.000				
7/29/2010	0.000				
7/30/2010	0.000				
7/31/2010	0.000				
8/1/2010	0.000				
8/2/2010	0.000				
8/3/2010	0.000				
8/4/2010	0.000				
8/5/2010	0.000				
8/6/2010	0.000				
8/7/2010	0.000				
8/8/2010	0.000				
8/9/2010	0.000				
8/10/2010	0.000				
8/11/2010	0.000				
8/12/2010	0.000				
8/13/2010	0.000				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
8/14/2010	0.000				
8/15/2010	0.000				
8/16/2010	0.000				
8/17/2010	0.000				
8/18/2010	0.000				
8/19/2010	0.000				
8/20/2010	0.000				
8/21/2010	0.000				
8/22/2010	0.000				
8/23/2010	0.000				
8/24/2010	0.000				
8/25/2010	0.000				
8/26/2010	0.000				
8/27/2010	0.000				
8/28/2010	0.000				
8/29/2010	0.000				
8/30/2010	0.000				
8/31/2010	0.000				
9/1/2010	0.000				
9/2/2010	0.000				
9/3/2010	0.000				
9/4/2010	0.000				
9/5/2010	0.000				
9/6/2010	0.000				
9/7/2010	0.000				
9/8/2010	0.000				
9/9/2010	0.000				
9/10/2010	0.000				
9/11/2010	0.000				
9/12/2010	0.000				
9/13/2010	0.000				
9/14/2010	0.000				
9/15/2010	0.000				
9/16/2010	0.000				
9/17/2010	0.000				
9/18/2010	0.000				
9/19/2010	0.000				
9/20/2010	0.000				
9/21/2010	0.000				
9/22/2010	0.000				
9/23/2010	0.000				
9/24/2010	0.000				
9/25/2010	0.000				
9/26/2010	0.000				
9/27/2010	0.000				
9/28/2010	0.000				
9/29/2010	0.000				
9/30/2010	0.000				
10/1/2010	0.000				
10/2/2010	0.000				
10/3/2010	0.000				
10/4/2010	0.000				
10/5/2010	0.000				
10/6/2010	0.000				
10/7/2010	0.000				
10/8/2010	0.000				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
10/9/2010	0.000				
10/10/2010	0.000				
10/11/2010	0.000				
10/12/2010	0.000				
10/13/2010	0.000				
10/14/2010	0.000				
10/15/2010	0.000				
10/16/2010	0.074				
10/17/2010	0.074				
10/18/2010	0.074				
10/19/2010	0.134	0.25	82.92	0.015	
10/20/2010	0.093				
10/21/2010	0.093				
10/22/2010	0.076				
10/23/2010	0.008				
10/24/2010	0.008				
10/25/2010	0.008				
10/26/2010	0.000				
10/27/2010	0.000				
10/28/2010	0.000				
10/29/2010	0.088	0.10	43.57	0.004	
10/30/2010	0.090				
10/31/2010	0.090				
11/1/2010	0.000				
11/2/2010	0.000				
11/3/2010	0.000				
11/4/2010	0.000				
11/5/2010	0.000				
11/6/2010	0.000				
11/7/2010	0.000				
11/8/2010	0.066				
11/9/2010	0.105				
11/10/2010	0.080	0.12	29.38	0.001	
11/11/2010	0.100				
11/12/2010	0.110				
11/13/2010	0.110				
11/14/2010	0.110				
11/15/2010	0.091				
11/16/2010	0.027				
11/17/2010	0.073	0.09	28.67	0.002	
11/18/2010	0.075				
11/19/2010	0.093				
11/20/2010	0.093				
11/21/2010	0.093				
11/22/2010	0.046				
11/23/2010	0.080				
11/24/2010	0.090				
11/25/2010	0.090	0.28	27.52	0.002	
11/26/2010	0.097				
11/27/2010	0.097				
11/28/2010	0.097				
11/29/2010	0.098				
11/30/2010	0.099				
12/1/2010	0.103				
12/2/2010	0.109				
12/3/2010	0.095				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
12/4/2010	0.091				
12/5/2010	0.091				
12/6/2010	0.091				
12/7/2010	0.048				
12/8/2010	0.001				
12/9/2010	0.004				
12/10/2010	0.091				
12/11/2010	0.095				
12/12/2010	0.095				
12/13/2010	0.095				
12/14/2010	0.084	0.12	27.42	0.007	
12/15/2010	0.097				
12/16/2010	0.090				
12/17/2010	0.108				
12/18/2010	0.076				
12/19/2010	0.076				
12/20/2010	0.076				
12/21/2010	0.087	0.25	27.33	0.007	
12/22/2010	0.090				
12/23/2010	0.071				
12/24/2010	0.086				
12/25/2010	0.092				
12/26/2010	0.092				
12/27/2010	0.092				
12/28/2010	0.113	0.24	24.23	0.002	
12/29/2010	0.077				
12/30/2010	0.082				
12/31/2010	0.094				
1/1/2011	0.084				
1/2/2011	0.091				
1/3/2011	0.094				
1/4/2011	0.091	0.23	19.45	0.008	
1/5/2011	0.091				
1/6/2011	0.090				
1/7/2011	0.090				
1/8/2011	0.089				
1/9/2011	0.088				
1/10/2011	0.086				
1/11/2011	0.085	0.08	24.34	0.010	
1/12/2011	0.088				
1/13/2011	0.090				
1/14/2011	0.087				
1/15/2011	0.090				
1/16/2011	0.092				
1/17/2011	0.085				
1/18/2011	0.067	0.38	13.76	0.010	
1/19/2011	0.093				
1/20/2011	0.093				
1/21/2011	0.092				
1/22/2011	0.088				
1/23/2011	0.079				
1/24/2011	0.079				
1/25/2011	0.071	0.18	11.23	0.003	
1/26/2011	0.073				
1/27/2011	0.073				
1/28/2011	0.076				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
1/29/2011	0.091				
1/30/2011	0.090				
1/31/2011	0.090				
2/1/2011	0.091	0.30	17.52	0.004	
2/2/2011	0.085				
2/3/2011	0.085				
2/4/2011	0.088				
2/5/2011	0.088				
2/6/2011	0.088				
2/7/2011	0.086				
2/8/2011	0.085	0.06	23.28	0.003	
2/9/2011	0.088				
2/10/2011	0.089				
2/11/2011	0.091				
2/12/2011	0.090				
2/13/2011	0.090				
2/14/2011	0.082				
2/15/2011	0.075	0.15	22.00	0.004	
2/16/2011	0.055				
2/17/2011	0.046				
2/18/2011	0.059				
2/19/2011	0.060				
2/20/2011	0.008				
2/21/2011	0.000				
2/22/2011	0.000				
2/23/2011	0.000				
2/24/2011	0.000				
2/25/2011	0.000				
2/26/2011	0.000				
2/27/2011	0.000				
2/28/2011	0.069				
3/1/2011	0.100				
3/2/2011	0.098				
3/3/2011	0.100	0.61	23.81	0.003	
3/4/2011	0.099				
3/5/2011	0.098				
3/6/2011	0.098				
3/7/2011	0.098				
3/8/2011	0.097	0.25	21.93	0.002	
3/9/2011	0.099				
3/10/2011	0.098				
3/11/2011	0.099				
3/12/2011	0.098				
3/13/2011	0.098				
3/14/2011	0.098				
3/15/2011	0.098	0.30	19.70	0.002	
3/16/2011	0.097				
3/17/2011	0.097				
3/18/2011	0.097				
3/19/2011	0.096				
3/20/2011	0.097				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
3/21/2011	0.096				
3/22/2011	0.097	0.48	24.00	0.001	
3/23/2011	0.091				
3/24/2011	0.090				
3/25/2011	0.079				
3/26/2011	0.063				
3/27/2011	0.085				
3/28/2011	0.098	0.53	27.73	0.002	
3/29/2011	0.096				
3/30/2011	0.096				
3/31/2011	0.097				
4/1/2011	0.096				
4/2/2011	0.097				
4/3/2011	0.093				
4/4/2011	0.097				
4/5/2011	0.096	0.38	26.97	0.005	
4/6/2011	0.031				
4/7/2011	0.028				
4/8/2011	0.096				
4/9/2011	0.096				
4/10/2011	0.096				
4/11/2011	0.096				
4/12/2011	0.096	0.37	26.08	0.002	
4/13/2011	0.095				
4/14/2011	0.094				
4/15/2011	0.095				
4/16/2011	0.095				
4/17/2011	0.092				
4/18/2011	0.094				
4/19/2011	0.093	0.25	27.01	0.001	
4/20/2011	0.094				
4/21/2011	0.093				
4/22/2011	0.094				
4/23/2011	0.095				
4/24/2011	0.095				
4/25/2011	0.093				
4/26/2011	0.093	0.23	24.81	0.002	
4/27/2011	0.094				
4/28/2011	0.094				
4/29/2011	0.093				
4/30/2011	0.094				
5/1/2011	0.094				
5/2/2011	0.093				
5/3/2011	0.093	0.20	25.71	0.002	
5/4/2011	0.086				
5/5/2011	0.096				
5/6/2011	0.096				
5/7/2011	0.095				
5/8/2011	0.069				
5/9/2011	0.057				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
5/10/2011	0.094	0.14	25.85	0.001	
5/11/2011	0.095				
5/12/2011	0.095				
5/13/2011	0.095				
5/14/2011	0.095				
5/15/2011	0.095				
5/16/2011	0.094				
5/17/2011	0.094	0.14	23.14	0.000	
5/18/2011	0.090				
5/19/2011	0.072				
5/20/2011	0.073				
5/21/2011	0.075				
5/22/2011	0.075				
5/23/2011	0.074				
5/24/2011	0.074	0.12	9.07	0.001	
5/25/2011	0.075				
5/26/2011	0.075				
5/27/2011	0.079				
5/28/2011	0.025				
5/29/2011	0.000				
5/30/2011	0.000				
5/31/2011	0.000				
6/1/2011	0.000				
6/2/2011	0.000				
6/3/2011	0.000				
6/4/2011	0.000				
6/5/2011	0.000				
6/6/2011	0.000				
6/7/2011	0.000				
6/8/2011	0.000				
6/9/2011	0.000				
6/10/2011	0.000				
6/11/2011	0.000				
6/12/2011	0.000				
6/13/2011	0.000				
6/14/2011	0.000				
6/15/2011	0.000				
6/16/2011	0.000				
6/17/2011	0.000				
6/18/2011	0.000				
6/19/2011	0.000				
6/20/2011	0.000				
6/21/2011	0.000				
6/22/2011	0.000				
6/23/2011	0.000				
6/24/2011	0.000				
6/25/2011	0.000				
6/26/2011	0.000				
6/27/2011	0.000				
6/28/2011	0.000				

Sample Date	INTERNAL OUTFALL 002B				Notes:
	Flow MGD	Total CN LBS/Day	Fluoride LBS/Day	B(a)P LBS/Day	
6/29/2011	0.000				
6/30/2011	0.000				
Average	0.059	0.18	25.98	0.002	
Maximum	0.95	0.88	82.92	0.046	
Minimum	0.00	0.00	0.10	0.000	
Count	1197	139	138	136.000	

Millennium Bulk Terminals - Longview, LLC
Outfall 002 Data - Concentrations
January 2006 - June 2011

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
1/1/2006												
1/2/2006												
1/3/2006	2950.8	1.56									0.26	50.39
1/4/2006	2950.8	1.00		< 5.00	< 5.0	11.40	0.060	0.822	< 0.0100	0.0132	0.21	49.90
1/5/2006	2950.8	1.00									0.00	50.52
1/6/2006	2950.8	1.00									0.63	50.79
1/7/2006												
1/8/2006												
1/9/2006	2954.4	1.21									0.72	49.67
1/10/2006	2959.0	4.54									0.43	51.91
1/11/2006	2963.8	4.78		< 5.00	7.0	12.30	0.030	1.290	< 0.0100	0.0109	0.25	50.74
1/12/2006	2964.8	1.02									0.11	50.57
1/13/2006	2966.2	1.40									0.31	51.60
1/14/2006												
1/15/2006												
1/16/2006	2969.0	0.95									0.84	59.57
1/17/2006	2971.9	2.86									0.75	48.86
1/18/2006	2972.6	0.71		0.76	9.0	15.00	0.070	1.970	< 0.0100	0.0268	0.26	49.49
1/19/2006	2973.0	0.42									0.04	49.66
1/20/2006	2974.9	1.95									0.85	49.28
1/21/2006												
1/22/2006												
1/23/2006	2977.0	0.67									0.14	55.65
1/24/2006	2978.8	1.86									0.00	56.47
1/25/2006	2983.4	4.58		2.50	< 5.0	14.40	0.120	0.845	< 0.0100	0.0150	0.00	49.02
1/26/2006	2989.7	6.31									0.00	48.88
1/27/2006	2995.8	6.14									0.44	66.05
1/28/2006												
1/29/2006												
1/30/2006	3014.6	6.25									2.85	62.01
1/31/2006	3020.9	6.31									0.06	60.59
2/1/2006	3028.7	7.81		0.76	10.0	17.10	0.070	1.260	< 0.0100	0.0090	0.51	46.51
2/2/2006	3035.0	6.24									0.00	48.56
2/3/2006	3038.9	3.91									0.00	49.17
2/4/2006												
2/5/2006												
2/6/2006	3050.1	3.74									1.32	48.24
2/7/2006	3053.7	3.59									0.00	48.15
2/8/2006	3057.2	3.54		0.76	5.0	16.90	0.130	1.100	< 0.0100	0.0132	0.04	49.30
2/9/2006	3061.4	4.21									0.00	48.43
2/10/2006	3066.7	5.31									0.00	48.07
2/11/2006												
2/12/2006												
2/13/2006	3081.2	4.83									0.05	50.03
2/14/2006	3085.6	4.36									0.15	49.84
2/15/2006	3090.2	4.64		0.95	7.0	13.70	0.110	0.642	< 0.0100	0.0104	0.00	47.85
2/16/2006	3094.8	4.56									0.00	47.18
2/17/2006	3100.0	5.22									0.00	46.51
2/18/2006												
2/19/2006												
2/20/2006	3116.9	5.65									0.00	44.40
2/21/2006	3123.0	6.08									0.04	45.85

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
2/22/2006	3125.6	2.59		0.76	43.0	15.00	0.130	3.190	< 0.0100	0.0310	0.02	47.54
2/23/2006	3128.3	2.67									0.13	48.69
2/24/2006	3132.8	4.50									0.50	47.12
2/25/2006												
2/26/2006												
2/27/2006	3148.1	5.10									0.31	48.06
2/28/2006	3151.0	2.95									0.49	48.60
3/1/2006	3153.9	2.93		< 5.00	11.0	15.40	0.110	1.300	< 0.0100	0.0113	0.02	48.46
3/2/2006	3156.0	2.07									0.00	49.76
3/3/2006	3158.3	2.30									0.00	48.93
3/4/2006												
3/5/2006												
3/6/2006	3164.7	2.12									0.08	51.20
3/7/2006	3168.3	3.63									0.33	50.93
3/8/2006	3171.1	2.85		< 5.00	34.0	15.60	0.120	1.970	< 0.0100	0.0191	0.02	50.72
3/9/2006	3175.0	3.89									0.25	46.35
3/10/2006	3178.4	3.37									1.40	47.17
3/11/2006												
3/12/2006												
3/13/2006	3185.5	2.35									0.10	50.58
3/14/2006	3187.6	2.10									0.02	50.87
3/15/2006	3189.4	1.86		0.95	20.0	7.90	0.060	0.987	< 0.0100	0.0145	0.11	50.81
3/16/2006	3191.7	2.28									0.12	51.76
3/17/2006	3196.5	4.82									0.13	52.11
3/18/2006												
3/19/2006												
3/20/2006	3210.2	4.55									0.06	52.34
3/21/2006	3212.4	2.23									0.04	53.27
3/22/2006	3215.7	3.28		< 5.00	< 5.0	4.90	0.030	0.220	< 0.0100	0.0044	0.04	52.79
3/23/2006	3220.1	4.38				4.70		0.230			0.00	53.14
3/24/2006	3225.4	5.36									0.19	52.73
3/25/2006												
3/26/2006												
3/27/2006	3236.9	3.82									0.26	52.65
3/28/2006	3238.8	1.91			< 5.0	4.60		0.284			0.01	54.87
3/29/2006	3241.4	2.63		< 5.00	< 5.0	4.00	0.030	0.221	< 0.0100	0.0047	0.00	54.94
3/30/2006	3245.4	4.04									0.00	53.85
3/31/2006	3250.7	5.24									0.00	54.20
4/1/2006												
4/2/2006												
4/3/2006	3263.5	4.26									0.91	54.27
4/4/2006	3266.6	3.09			5.0	4.70		0.309			0.08	53.61
4/5/2006	3270.3	3.72		< 5.00	< 5.0	5.10	0.010	0.299	< 0.0100	0.0070	0.00	54.50
4/6/2006	3275.0	4.70									0.00	55.02
4/7/2006	3281.0	5.99									0.00	54.42
4/8/2006												
4/9/2006												
4/10/2006	3299.1	6.06									0.59	55.57
4/11/2006	3304.5	5.41			< 5.0	4.10		0.205			0.00	55.10
4/12/2006	3311.7	7.16		< 5.00	< 5.0	4.40	0.010	0.171	< 0.0100	< 0.0020	0.09	56.00
4/13/2006	3314.2	2.48									0.00	55.66
4/14/2006												
4/15/2006												
4/16/2006												
4/17/2006	3331.2	4.25									0.70	52.71
4/18/2006	3337.3	6.16			< 5.0	4.20		0.256			0.07	53.50

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
4/19/2006	3343.9	6.55		< 5.00	< 5.0	4.76	0.010	0.219	< 0.0100	< 0.0020	0.00	54.89
4/20/2006	3350.2	6.32									0.00	55.27
4/21/2006	3354.8	4.60									0.00	55.07
4/22/2006												
4/23/2006												
4/24/2006	3362.2	2.47									0.00	56.21
4/25/2006	3365.9	3.68			< 5.0	3.10		0.081			0.00	56.85
4/26/2006	3370.8	4.94		< 5.00	6.0	3.61	0.020	0.218	< 0.0100	< 0.0020	0.00	56.63
4/27/2006	3378.2	7.37									0.00	59.37
4/28/2006	3383.1	4.92									0.00	57.42
4/29/2006												
4/30/2006												
5/1/2006	3397.6	4.84									0.00	54.91
5/2/2006	3398.8	1.21									0.00	55.15
5/3/2006	3400.4	1.56		< 5.00	7.0	2.00	< 0.005	0.081	< 0.0100	< 0.0020	0.00	59.14
5/4/2006	3401.4	0.99									0.00	56.50
5/5/2006	3402.6	1.19			< 5.0	2.39		0.110	< 0.0100	< 0.0020	0.00	57.32
5/6/2006												
5/7/2006												
5/8/2006	3405.8	1.07									0.45	54.88
5/9/2006	3406.5	0.73									0.00	54.90
5/10/2006	3408.0	1.52		< 5.00	< 5.0	3.30	< 0.005	0.231	< 0.0100	0.0067	0.00	56.41
5/11/2006	3409.5	1.44									0.00	63.13
5/12/2006	3410.9	1.40			< 5.0	2.50		0.146	< 0.0100	0.0040	0.00	57.01
5/13/2006												
5/14/2006												
5/15/2006	3413.4	0.84									0.00	59.16
5/16/2006	3414.4	1.00		< 5.00	< 5.0	2.00	0.010	0.119	< 0.0100	< 0.0020	0.00	60.34
5/17/2006	3415.8	1.42									0.00	60.04
5/18/2006	3417.4	1.60			5.0	2.00		0.138			0.00	63.72
5/19/2006	3419.0	1.65									0.00	59.23
5/20/2006												
5/21/2006												
5/22/2006											0.92	
5/23/2006	3429.2	2.54		< 5.00	16.0	10.00	0.010	1.600	< 0.0100	0.0816	0.72	58.57
5/24/2006	3431.8	2.63									0.34	58.12
5/25/2006	3434.4	2.59			12.0	8.67		1.100	< 0.0100	0.0263	0.19	58.21
5/26/2006	3437.8	3.37									0.47	58.54
5/27/2006												
5/28/2006												
5/29/2006												
5/30/2006	3447.1	2.34									0.60	57.68
5/31/2006	3449.1	1.99									0.00	58.92
6/1/2006	3451.2	2.08		< 5.00	< 5.0	2.91	< 0.005	0.139	< 0.0100	< 0.0020	0.02	59.29
6/2/2006	3453.9	2.66			10.0	5.31		0.332	< 0.0100	0.0090	0.49	59.63
6/3/2006												
6/4/2006												
6/5/2006	3460.0	2.06									0.30	61.23
6/6/2006	3462.1	2.05		< 5.00	7.0	5.62	< 0.005	0.462	< 0.0100	0.0193	0.00	60.42
6/7/2006	3464.1	2.02									0.00	59.99
6/8/2006	3466.3	2.18									0.00	59.49
6/9/2006	3468.3	2.04			7.0	5.10		0.277			0.03	58.80
6/10/2006												
6/11/2006												
6/12/2006	3474.3	1.98									0.00	61.04
6/13/2006	3476.2	1.95		< 5.00	< 5.0	2.70	0.020	0.196	< 0.0100	0.0041	0.18	59.49

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
6/14/2006	3478.8	2.59									0.01	58.94
6/15/2006	3480.6	1.76			< 5.0	2.10		0.130			0.07	58.22
6/16/2006	3483.0	2.37									0.04	59.72
6/17/2006												
6/18/2006												
6/19/2006	3488.0	1.67									0.00	58.85
6/20/2006	3489.4	1.41		< 5.00	< 5.0	1.70	< 0.005	0.124	< 0.0100	< 0.0020	0.00	58.26
6/21/2006	3490.8	1.48									0.00	58.34
6/22/2006	3492.3	1.47			< 5.0	1.80		0.142	< 0.0100	< 0.0020	0.00	59.02
6/23/2006	3493.8	1.50									0.00	59.30
6/24/2006												
6/25/2006												
6/26/2006	3499.4	1.87									0.00	62.71
6/27/2006	3501.7	2.27									0.00	63.42
6/28/2006	3504.1	2.44			24.0	1.90		0.200	< 0.0100	0.0040	0.00	60.00
6/29/2006	3506.8	2.68									0.00	60.24
6/30/2006	3509.2	2.35		< 5.00	< 5.0	2.10	< 0.005	0.150	< 0.0100	< 0.0020	0.00	61.65
7/1/2006												
7/2/2006												
7/3/2006												
7/4/2006												
7/5/2006	3520.0	2.16		< 5.00	5.0	1.50	< 0.005	0.165	< 0.0100	< 0.0020	0.00	59.41
7/6/2006	3522.0	2.08									0.00	59.17
7/7/2006	3524.1	2.07			10.0	1.40		0.093			0.00	58.65
7/8/2006												
7/9/2006												
7/10/2006	3530.0	1.96									0.00	62.27
7/11/2006	3532.0	1.99									0.00	59.85
7/12/2006	3534.1	2.10		< 5.00	8.0	1.80	0.020	0.218	< 0.0100	< 0.0020	0.24	59.76
7/13/2006	3536.3	2.19									0.08	60.10
7/14/2006	3538.3	2.02			6.0	3.00		0.374			0.00	60.64
7/15/2006												
7/16/2006												
7/17/2006	3544.2	1.99									0.00	62.24
7/18/2006	3548.0	3.72									0.00	60.15
7/19/2006	3551.2	3.26		< 5.00	9.0	9.10	2.200	1.500	< 0.0100	0.0172	0.00	59.15
7/20/2006	3555.0	3.74									0.00	59.63
7/21/2006	3558.6	3.69			< 5.0	4.27		0.424			0.00	60.04
7/22/2006												
7/23/2006												
7/24/2006	3569.8	3.71									0.00	61.95
7/25/2006	3571.9	2.16		5.57	< 5.0	1.16	0.059	< 0.100	< 0.0100	0.0025	0.00	62.01
7/26/2006	3574.2	2.31									0.00	61.93
7/27/2006	3576.5	2.23			< 5.0	1.53		0.122			0.00	60.71
7/28/2006	3579.2	2.75									0.00	60.55
7/29/2006												
7/30/2006												
7/31/2006	3586.0	2.26									0.05	58.16
8/1/2006	3588.6	2.57		< 5.00							0.00	59.08
8/2/2006	3591.0	2.44			< 5.0	1.51	0.007	0.115	< 0.0100	< 0.0020	0.00	59.69
8/3/2006	3593.0	1.98									0.00	59.96
8/4/2006	3594.8	1.86			< 5.0	3.07		0.245			0.00	59.75
8/5/2006												
8/6/2006												
8/7/2006	3600.9	2.02									0.00	62.01
8/8/2006	3603.1	2.23		< 5.00	< 5.0	1.87	0.029	< 0.100	< 0.0100	0.0025	0.00	60.53

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
8/9/2006	3605.3	2.16									0.05	61.27
8/10/2006	3607.3	2.07			< 5.0	2.65		0.112			0.00	60.96
8/11/2006	3609.3	1.98									0.00	60.45
8/12/2006												
8/13/2006												
8/14/2006	3615.9	2.19									0.00	61.10
8/15/2006	3618.2	2.36									0.00	61.10
8/16/2006	3620.3	2.03		< 5.00	< 5.0	1.00	< 0.005	< 0.100	< 0.0100	< 0.0020	0.00	59.96
8/17/2006	3622.4	2.13									0.00	59.83
8/18/2006	3624.5	2.06			< 5.0	1.08		0.104			0.00	59.42
8/19/2006												
8/20/2006												
8/21/2006	3631.1	2.20									0.00	61.63
8/22/2006	3633.4	2.37		< 5.00	< 5.0	1.19	0.025	0.224	< 0.0100	0.0026	0.00	59.93
8/23/2006	3635.5	2.08									0.00	59.85
8/24/2006	3637.8	2.26			< 5.0	1.14		0.275			0.00	59.83
8/25/2006	3639.8	2.02									0.00	58.48
8/26/2006												
8/27/2006												
8/28/2006	3646.2	2.12									0.00	62.65
8/29/2006	3648.1	1.98		< 5.00	17.0	13.70	2.170	2.150	< 0.0100	0.0195	0.00	60.74
8/30/2006	3651.5	3.39									0.51	58.38
8/31/2006	3654.1	2.61			10.0	8.10		0.894			0.00	58.15
9/1/2006	3656.7	2.53									0.00	58.72
9/2/2006												
9/3/2006												
9/4/2006												
9/5/2006	3665.1	2.11		< 5.00	< 5.0	1.32	0.030	0.068	< 0.0100	< 0.0020	0.00	59.34
9/6/2006	3667.0	1.86									0.00	59.87
9/7/2006	3668.8	1.79			< 5.0	1.34		0.085			0.00	59.45
9/8/2006	3670.7	1.89									0.00	58.91
9/9/2006												
9/10/2006												
9/11/2006	3676.8	2.06									0.02	59.05
9/12/2006	3679.0	2.19		< 5.00	< 5.0	1.02	0.011	< 0.100	< 0.0100	< 0.0020	0.00	60.89
9/13/2006	3681.0	1.97									0.00	59.28
9/14/2006	3683.7	2.72			< 5.0	0.90		< 0.100			0.18	58.27
9/15/2006	3685.5	1.82									0.00	59.44
9/16/2006												
9/17/2006												
9/18/2006	3692.7	2.38									0.76	59.43
9/19/2006	3694.9	2.23		< 5.00							0.18	59.15
9/20/2006	3697.0	2.12			< 5.0	3.11	0.023	0.274	< 0.0100	0.0043	0.03	58.19
9/21/2006	3700.1	3.07									0.38	58.00
9/22/2006	3701.9	1.84			< 5.0	3.31		0.301			0.01	56.37
9/23/2006												
9/24/2006												
9/25/2006	3708.0	2.02									0.00	58.31
9/26/2006	3710.3	2.28		< 5.00	< 5.0	1.92	0.019	< 0.100	< 0.0100	0.0020	0.00	58.28
9/27/2006	3712.7	2.47									0.00	58.37
9/28/2006	3715.0	2.27			< 5.0	1.00		< 0.100			0.00	58.98
9/29/2006	3717.7	2.65									0.00	59.15
9/30/2006												
10/1/2006												
10/2/2006	3724.9	2.43									0.00	56.69
10/3/2006	3727.5	2.54		< 5.00	< 5.0	1.09	0.013	< 0.100	< 0.0100	< 0.0020	0.00	57.12

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
10/4/2006	3729.9	2.44									0.00	57.70
10/5/2006	3732.4	2.45			< 5.0	1.03		< 0.100			0.00	56.67
10/6/2006	3735.0	2.68									0.07	56.86
10/7/2006												
10/8/2006												
10/9/2006	3744.0	2.97									0.17	56.08
10/10/2006	3747.0	3.10		< 5.00	< 5.0	1.01	0.007	< 0.100	< 0.0100	< 0.0020	0.00	55.54
10/11/2006	3750.3	3.20									0.00	55.47
10/12/2006	3752.7	2.42			< 5.0	0.70		< 0.100			0.00	55.83
10/13/2006	3755.0	2.38									0.00	56.67
10/14/2006												
10/15/2006												
10/16/2006	3763.7	2.88									0.53	55.62
10/17/2006	3766.2	2.51		< 5.00	< 5.0	2.57	0.027	0.162	< 0.0100	0.0039	0.03	55.72
10/18/2006	3768.6	2.44									0.01	55.84
10/19/2006	3771.9	3.22			< 5.0	1.76		< 0.100			0.35	55.95
10/20/2006	3774.5	2.66									0.03	55.54
10/21/2006												
10/22/2006												
10/23/2006	3781.6	2.37									0.01	55.24
10/24/2006	3784.0	2.42		< 5.00	< 5.0	1.35	0.016	< 0.100	< 0.0100	< 0.0020	0.04	55.22
10/25/2006	3787.1	3.01									0.37	54.25
10/26/2006	3789.2	2.17			< 5.0	3.23		0.245			0.01	54.60
10/27/2006	3791.7	2.44									0.00	55.45
10/28/2006												
10/29/2006												
10/30/2006	3797.9	2.07									0.07	53.34
10/31/2006	3800.2	2.34		< 5.00	11.0	2.10	0.020	0.212	< 0.0100	0.0080	0.00	52.26
11/1/2006	3802.6	2.42									0.00	51.94
11/2/2006	3805.5	2.83			< 5.0	1.32		< 0.100			0.28	52.87
11/3/2006	3809.4	3.91									0.71	53.27
11/4/2006												
11/5/2006												
11/6/2006	3826.0	5.56									4.97	52.64
11/7/2006	3835.3	9.25		< 5.00	11.0	7.72	0.050	1.280	< 0.0100	0.0093	3.06	59.19
11/8/2006	3842.2	6.95									0.38	56.14
11/9/2006	3845.0	2.78			< 5.0	8.09		1.220			0.34	54.48
11/10/2006	3847.3	2.29									0.16	53.57
11/11/2006												
11/12/2006												
11/13/2006	3856.9	3.20									1.49	51.35
11/14/2006	3859.7	2.77		< 5.00	< 5.0	6.28	0.018	0.823	< 0.0100	0.0069	0.32	52.09
11/15/2006	3861.9	2.24									0.00	53.02
11/16/2006	3864.9	2.97			< 5.0	8.48		0.836			0.25	52.53
11/17/2006	3867.4	2.52									0.00	52.50
11/18/2006												
11/19/2006												
11/20/2006	3875.5	2.69		< 5.00	< 5.0	6.52	0.087	0.626	< 0.0100	0.0043	0.32	52.66
11/21/2006	3878.8	3.31									0.55	52.38
11/22/2006	3882.2	3.40			13.0	9.20		1.180			0.34	51.60
11/23/2006												
11/24/2006												
11/25/2006												
11/26/2006												
11/27/2006	3903.5	4.25									2.72	48.28
11/28/2006	3906.8	3.36		< 5.00	< 5.0	9.23	0.043	0.899	< 0.0100	0.0052	0.10	48.38

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
11/29/2006	3909.8	2.94									0.06	47.99
11/30/2006	3912.9	3.19			< 5.0	8.75		0.673			0.23	47.89
12/1/2006	3915.6	2.65									0.05	50.10
12/2/2006												
12/3/2006												
12/4/2006	3922.8	2.42									0.01	50.07
12/5/2006	3925.3	2.49		< 5.00	< 5.0	4.93	0.061	0.341	< 0.0100	0.0029	0.02	51.15
12/6/2006	3927.8	2.46									0.00	51.13
12/7/2006	3930.2	2.43			< 5.0	5.44		0.358			0.00	50.83
12/8/2006	3932.6	2.39									0.00	51.13
12/9/2006												
12/10/2006												
12/11/2006	3941.0	2.80									0.32	51.86
12/12/2006	3944.4	3.37		< 5.00	14.0	5.60	0.076	1.740	< 0.0100	0.0070	0.63	51.22
12/13/2006	3949.0	4.59									0.74	50.82
12/14/2006	3952.0	3.04			< 5.0	12.90		1.200			0.34	51.70
12/15/2006	3959.3	7.27									1.38	49.42
12/16/2006												
12/17/2006												
12/18/2006	3967.5	2.74		< 5.00	11.0	8.13	0.090	2.260	< 0.0100	0.0057	0.14	48.22
12/19/2006	3970.0	2.47									0.00	48.42
12/20/2006	3972.1	2.11			33.0	6.35		0.717			0.01	49.09
12/21/2006	3975.3	3.24									0.57	48.06
12/22/2006	3978.4	3.12									0.29	49.25
12/23/2006												
12/24/2006												
12/25/2006												
12/26/2006	3992.1	3.41		< 5.00	13.0	7.70	0.059	0.925	< 0.0100	0.0048	1.38	50.81
12/27/2006	3997.4	5.35									0.81	48.46
12/28/2006	4000.9	3.51			9.0	8.32		0.851			0.00	48.72
12/29/2006	4004.0	3.10									0.00	48.44
12/30/2006												
12/31/2006												
1/1/2007												
1/2/2007	4014.7	2.67		< 5.00	9.0	4.32	0.054	0.437	< 0.0100	0.0033	0.08	50.76
1/3/2007	4021.9	7.24									2.02	49.62
1/4/2007	4026.4	4.41			14.0	8.51		1.150			0.24	49.48
1/5/2007	4029.7	3.30									0.08	49.00
1/6/2007												
1/7/2007												
1/8/2007	4046.9	5.74									2.67	48.68
1/9/2007	4050.2	3.29		< 5.00	12.0	7.51	0.022	0.923	< 0.0100	0.0060	0.02	50.97
1/10/2007	4053.9	3.69									0.34	49.01
1/11/2007	4057.6	3.70			16.0	8.14		0.985			0.15	47.67
1/12/2007	4060.6	2.99									0.03	47.01
1/13/2007												
1/14/2007												
1/15/2007	4069.6	3.02									0.00	46.84
1/16/2007	4072.6	2.96		< 5.00	14.0	5.68	0.025	0.400	< 0.0100	0.0029	0.03	47.25
1/17/2007	4075.4	2.84									0.02	48.18
1/18/2007	4078.5	3.06			10.0	5.20		0.557			0.07	48.25
1/19/2007	4081.7	3.19									0.10	48.58
1/20/2007												
1/21/2007												
1/22/2007	4089.8	2.73									0.23	50.45
1/23/2007	4092.6	2.72		< 5.00	14.0	4.88	0.040	0.632	< 0.0100	0.0051	0.01	51.26

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
1/24/2007	4095.2	2.68									0.00	51.12
1/25/2007	4097.7	2.45			6.0	4.08		0.301			0.00	51.22
1/26/2007	4100.0	2.30									0.00	51.34
1/27/2007												
1/28/2007												
1/29/2007	4106.7	2.24									0.02	49.38
1/30/2007	4108.8	2.13		< 5.00	11.0	2.32	0.014	0.360	< 0.0100	< 0.0020	0.00	49.97
1/31/2007	4111.0	2.15									0.00	49.59
2/1/2007	4113.1	2.14			6.0	2.13		0.173			0.00	49.27
2/2/2007	4115.2	2.12									0.00	49.24
2/3/2007												
2/4/2007												
2/5/2007	4121.2	2.00									0.21	52.31
2/6/2007	4123.5	2.29		< 5.00	6.0	3.83	0.038	0.558	< 0.0100	0.0043	0.01	51.54
2/7/2007	4125.9	2.35									0.01	51.90
2/8/2007	4128.2	2.37			8.0	4.58		0.257			0.17	51.57
2/9/2007	4130.4	2.13									0.15	51.98
2/10/2007												
2/11/2007												
2/12/2007	4136.6	2.09									0.08	52.58
2/13/2007	4138.9	2.27		< 5.00	9.0	4.22	0.039	0.337	< 0.0100	0.0031	0.03	52.72
2/14/2007	4141.2	2.31									0.07	52.51
2/15/2007	4145.1	3.87			9.0	5.61		0.489			1.08	51.51
2/16/2007	4148.5	3.47									0.39	51.76
2/17/2007												
2/18/2007												
2/19/2007	4155.2	2.22									0.39	52.12
2/20/2007	4160.2	4.99		< 5.00	15.0	7.62	0.064	1.490	< 0.0100	0.0069	1.35	49.08
2/21/2007	4164.1	3.92									0.33	48.68
2/22/2007	4166.5	2.39			14.0	8.61		1.700			0.01	
2/23/2007	4168.8	2.35									0.23	50.62
2/24/2007												
2/25/2007												
2/26/2007	4175.8	2.32									0.42	49.62
2/27/2007	4178.4	2.58		< 5.00	7.0	7.43	0.055	0.680	< 0.0100	0.0057	0.26	49.62
2/28/2007	4182.0	3.57									0.36	48.31
3/1/2007	4184.7	2.71			9.0	8.25		0.861			0.29	48.32
3/2/2007	4187.1	2.46									0.15	49.67
3/3/2007												
3/4/2007												
3/5/2007	4193.5	2.13									0.15	53.22
3/6/2007	4195.9	2.42		< 5.00	5.0	6.34	< 0.005	0.412	< 0.0100	< 0.0020	0.00	53.35
3/7/2007	4198.2	2.30									0.11	54.36
3/8/2007	4200.8	2.59			8.0	6.91		0.608			0.22	52.91
3/9/2007	4203.2	2.42									0.01	52.57
3/10/2007												
3/11/2007												
3/12/2007	4212.4	3.05									0.56	55.23
3/13/2007	4214.9	2.48		< 5.00	27.0	6.34	< 0.005	2.470	< 0.0100	0.0042	0.00	53.35
3/14/2007	4217.4	2.50									0.09	53.53
3/15/2007	4219.7	2.35			12.0	5.36		0.922			0.00	52.68
3/16/2007	4222.4	2.63									0.00	53.12
3/17/2007												
3/18/2007												
3/19/2007	4230.6	2.73									0.07	55.57
3/20/2007	4233.9	3.37			11.0	3.92	< 0.005	0.718	< 0.0100	0.0029	0.44	53.60

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
3/21/2007	4236.5	2.53		< 5.00							0.03	52.19
3/22/2007	4238.8	2.31			5.0	4.31		0.474			0.01	54.10
3/23/2007	4241.0	2.26									0.02	54.46
3/24/2007												
3/25/2007												
3/26/2007	4251.0	3.33									1.06	53.51
3/27/2007	4253.6	2.64		< 5.00	7.0	5.67	< 0.005	0.671	< 0.0100	0.0038	0.04	53.00
3/28/2007	4256.3	2.61									0.01	52.83
3/29/2007	4258.9	2.60			< 5.0	3.61		0.261			0.00	53.55
3/30/2007	4261.3	2.42									0.00	54.87
3/31/2007												
4/1/2007												
4/2/2007	4269.1	2.60									0.12	53.23
4/3/2007	4271.6	2.51		< 5.00	< 5.0	3.31	< 0.005	0.194	< 0.0100	< 0.0020	0.01	52.74
4/4/2007	4274.2	2.60									0.01	54.31
4/5/2007	4276.8	2.65			< 5.0	2.68		0.134			0.00	54.74
4/6/2007												
4/7/2007												
4/8/2007												
4/9/2007	4289.0	3.05									1.27	54.28
4/10/2007	4292.7	3.65		< 5.00	15.0	5.52	0.026	1.370	< 0.0100	0.0069	0.55	52.75
4/11/2007	4295.1	2.45									0.03	53.78
4/12/2007	4297.9	2.84			8.0	5.77		0.652			0.10	53.11
4/13/2007	4300.9	2.93									0.11	53.58
4/14/2007												
4/15/2007												
4/16/2007	4309.4	2.85									0.09	55.25
4/17/2007	4312.3	2.92		< 5.00	< 5.0	3.96	0.021	0.253	< 0.0100	0.0035	0.10	53.86
4/18/2007	4315.0	2.63									0.13	53.88
4/19/2007	4317.3	2.32			9.0	4.29		0.335			0.04	54.20
4/20/2007	4319.7	2.43									0.00	54.47
4/21/2007												
4/22/2007												
4/23/2007	4328.0	2.76									0.11	55.36
4/24/2007	4330.7	2.70		< 5.00	5.0	3.70	0.016	0.244	< 0.0100	0.0036	0.05	56.52
4/25/2007	4333.5	2.81									0.09	55.49
4/26/2007	4336.2	2.66			< 5.0	3.73		0.192			0.01	55.40
4/27/2007	4338.9	2.69									0.00	55.92
4/28/2007												
4/29/2007												
4/30/2007	4346.8	2.64									0.00	55.89
5/1/2007	4349.5	2.77		< 5.00	< 5.0	2.16	0.010	0.147	< 0.0100	0.0022	0.17	55.32
5/2/2007	4352.4	2.85									0.13	55.81
5/3/2007	4355.2	2.81			18.0	3.23		1.230			0.28	54.83
5/4/2007	4358.0	2.76									0.37	54.70
5/5/2007												
5/6/2007												
5/7/2007	4364.4	2.14									0.00	56.74
5/8/2007	4366.7	2.29		< 5.00	5.0	2.24	0.010	0.207	< 0.0100	< 0.0020	0.00	57.79
5/9/2007	4369.3	2.59									0.00	56.27
5/10/2007	4371.8	2.48			5.0	1.99		0.103			0.00	56.31
5/11/2007	4374.3	2.50									0.00	56.06
5/12/2007												
5/13/2007												
5/14/2007	4381.9	2.54									0.00	55.68
5/15/2007	4384.0	2.14		< 5.00	< 5.0	1.77	< 0.005	< 0.100	< 0.0100	0.0010	0.00	58.27

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
5/16/2007	4385.9	1.86									0.00	56.92
5/17/2007	4388.6	2.75			< 5.0	1.59		< 0.100			0.00	56.21
5/18/2007	4392.0	3.34									0.00	56.57
5/19/2007												
5/20/2007												
5/21/2007	4406.6	4.87									0.75	55.25
5/22/2007	4412.3	5.76		< 5.00	11.0	3.05	0.010	0.493	< 0.0100	0.0030	0.00	55.54
5/23/2007	4418.0	5.74									0.00	56.39
5/24/2007	4424.1	6.08			< 5.0	1.87		0.108			0.00	57.02
5/25/2007	4430.4	6.27									0.00	58.34
5/26/2007												
5/27/2007												
5/28/2007												
5/29/2007	4454.5	6.01		< 5.00	< 5.0	1.22	< 0.005	< 0.100	< 0.0100	< 0.0020	0.02	56.98
5/30/2007	4460.0	5.59									0.00	58.91
5/31/2007	4466.3	6.23			< 5.0	1.44		< 0.100			0.00	59.64
6/1/2007	4472.1	5.86	7.28								0.00	59.00
6/2/2007												
6/3/2007												
6/4/2007	4490.4	6.10	7.25								0.02	58.96
6/5/2007	4496.8	6.38	7.12	< 5.00	6.0	1.66	< 0.005	0.135	< 0.0100	0.0020	0.17	58.11
6/6/2007	4503.0	6.18	7.16								0.02	57.61
6/7/2007	4509.2	6.20	7.18		< 5.0	1.13		< 0.100			0.01	58.34
6/8/2007	4515.3	6.10	7.22								0.00	56.70
6/9/2007												
6/10/2007												
6/11/2007	4533.7	6.14	7.14								0.33	58.30
6/12/2007	4540.4	6.76	7.28	< 5.00	7.0	1.23	< 0.005	< 0.100	< 0.0100	0.0011	0.01	58.20
6/13/2007	4545.6	5.14	7.26								0.00	57.90
6/14/2007	4551.6	5.98	7.19		< 5.0	1.18		< 0.100			0.00	57.30
6/15/2007	4557.6	6.03	7.09								0.11	57.80
6/16/2007												
6/17/2007												
6/18/2007	4578.1	6.82	7.09								0.05	59.10
6/19/2007	4581.8	3.75	7.03	< 5.00	< 5.0	1.22	< 0.005	0.160	< 0.0100	< 0.0020	0.00	56.50
6/20/2007	4587.8	5.95	7.15								0.00	58.10
6/21/2007	4593.8	6.01	7.19		< 5.0	1.12		0.052			0.00	58.70
6/22/2007	4599.7	5.93	7.16								0.00	59.06
6/23/2007												
6/24/2007												
6/25/2007	4617.9	6.08	7.02								0.28	57.41
6/26/2007	4623.9	5.97	6.80	< 5.00	6.0	2.14	< 0.005	0.390	< 0.0100	0.0300	0.00	58.35
6/27/2007	4626.9	2.95	6.90								0.00	58.67
6/28/2007	4630.3	3.44	6.83		7.0	2.56		0.980			0.03	59.28
6/29/2007	4634.9	4.60	6.79								0.27	58.82
6/30/2007												
7/1/2007												
7/2/2007	4651.3	5.47									0.00	59.25
7/3/2007	4657.0	5.62		< 5.00	< 5.0	1.15	< 0.005	0.537	< 0.0100	0.0074	0.00	60.47
7/4/2007	4662.8	5.88									0.00	61.37
7/5/2007	4668.8	5.96			< 5.0	0.95		0.143			0.00	61.65
7/6/2007												
7/7/2007												
7/8/2007												
7/9/2007	4692.6	5.95									0.00	61.14
7/10/2007	4695.1	2.49		< 5.00	36.0	0.87	< 0.005	1.050	< 0.0100	0.0207	0.00	63.02

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
7/11/2007	4696.8	1.74									0.00	62.74
7/12/2007	4698.2	1.39			< 5.0	1.03		< 0.100			0.00	63.34
7/13/2007	4699.7	1.54									0.02	62.56
7/14/2007												
7/15/2007												
7/16/2007	4703.9	1.40									0.00	61.97
7/17/2007	4705.8	1.82		< 5.00	9.0	1.02	< 0.005	0.261	< 0.0100	0.0050	0.29	61.98
7/18/2007	4707.5	1.75									0.18	60.50
7/19/2007	4709.9	2.40			13.0	5.18		0.951			0.59	62.36
7/20/2007	4711.8	1.94									0.46	63.02
7/21/2007												
7/22/2007												
7/23/2007	4716.8	1.65									0.19	60.68
7/24/2007	4718.5	1.67		< 5.00	16.0	1.73	< 0.005	0.947	< 0.0100	0.0089	0.01	60.15
7/25/2007	4720.0	1.52									0.00	60.36
7/26/2007	4721.6	1.61			< 5.0	1.72		0.159			0.00	60.99
7/27/2007	4723.1	1.51									0.00	59.90
7/28/2007												
7/29/2007												
7/30/2007	4727.8	1.57									0.02	59.20
7/31/2007	4729.3	1.50		< 5.00	< 5.0	0.86	< 0.005	< 0.100	< 0.0100	0.0020	0.00	59.71
8/1/2007	4730.9	1.55									0.00	60.40
8/2/2007	4732.3	1.46			< 5.0	0.81		< 0.100			0.00	62.36
8/3/2007	4733.8	1.44									0.00	61.12
8/4/2007												
8/5/2007												
8/6/2007	4738.7	1.63									0.02	59.43
8/7/2007	4740.3	1.65		< 5.00	< 5.0	0.74	< 0.005	0.112	< 0.0100	0.0028	0.00	58.82
8/8/2007	4741.9	1.63									0.02	59.17
8/9/2007	4743.6	1.64			< 5.0	0.76		< 0.100			0.00	59.58
8/10/2007	4745.1	1.49									0.00	59.01
8/11/2007												
8/12/2007												
8/13/2007	4749.8	1.56									0.00	58.52
8/14/2007	4751.2	1.41		< 5.00	< 5.0	0.96	< 0.005	< 0.100	< 0.0100	0.0013	0.00	59.65
8/15/2007	4752.5	1.37									0.00	60.56
8/16/2007	4753.9	1.32			< 5.0	0.97		< 0.100			0.00	60.26
8/17/2007	4755.6	1.75									0.13	59.64
8/18/2007												
8/19/2007												
8/20/2007	4760.7	1.69									0.45	59.62
8/21/2007	4762.3	1.63		< 5.00	< 5.0	1.69	< 0.005	0.104	< 0.0100	0.0018	0.03	59.60
8/22/2007	4763.8	1.46									0.00	61.50
8/23/2007	4765.3	1.55			< 5.0	0.98		< 0.100			0.00	59.97
8/24/2007	4766.7	1.44									0.00	60.07
8/25/2007												
8/26/2007												
8/27/2007	4771.4	1.56									0.00	58.39
8/28/2007	4783.8	1.54		< 5.00	< 5.0	0.72	< 0.005	< 0.100	< 0.0100	< 0.0020	0.00	59.17
8/29/2007	4803.9	1.54									0.00	59.95
8/30/2007	4826.3	1.54			< 5.0	0.71		< 0.100			0.00	60.74
8/31/2007	4849.4	1.54									0.00	59.88
9/1/2007												
9/2/2007												
9/3/2007												
9/4/2007	4944.5	1.67		< 5.00	10.0	0.72	< 0.010	< 0.100	< 0.0100	0.0016	0.05	63.27

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
9/5/2007	4968.7	1.54									0.00	59.45
9/6/2007	4991.7	1.54			< 5.0	0.73		< 0.100			0.00	60.25
9/7/2007	5014.7	1.54									0.00	58.30
9/8/2007												
9/9/2007												
9/10/2007	5084.2	1.54									0.00	59.02
9/11/2007	5108.0	1.54		< 5.00	5.0	0.52	< 0.010	< 0.100	< 0.0100	< 0.0020	0.00	60.10
9/12/2007	5130.6	1.54									0.00	58.91
9/13/2007	5151.5	1.54			< 5.0	0.59		0.195			0.00	58.66
9/14/2007	5174.3	1.54									0.00	58.24
9/15/2007												
9/16/2007												
9/17/2007	5243.5	2.00									0.17	57.75
9/18/2007	5265.8	1.65		< 5.00	5.0	1.12	< 0.010	0.108	< 0.0100	0.0013	0.04	57.03
9/19/2007	5289.1	1.54									0.00	56.85
9/20/2007	5311.7	1.54			< 5.0	0.65		< 0.100			0.00	57.00
9/21/2007	5335.3	1.56									0.01	58.10
9/22/2007												
9/23/2007												
9/24/2007	5403.1	1.54									0.00	56.40
9/25/2007	5426.5	1.54			< 5.0	0.61	< 0.010	< 0.100	< 0.0100	0.0011	0.00	56.50
9/26/2007	5449.1	1.54									0.00	56.60
9/27/2007	5471.6	1.54			< 5.0	0.60		< 0.100			0.00	56.50
9/28/2007	5494.9	2.37		< 5.00							0.31	57.31
9/29/2007												
9/30/2007												
10/1/2007	5564.6	2.75									0.45	55.68
10/2/2007	5586.6	1.81		< 5.00	< 5.0	1.79	< 0.005	0.250	< 0.0100	< 0.0020	0.10	56.59
10/3/2007	5609.5	3.45									0.71	56.07
10/4/2007	5632.9	2.48			10.0	3.07		0.520			0.35	55.18
10/5/2007	5655.4	1.52									0.02	54.59
10/6/2007												
10/7/2007												
10/8/2007	5725.3	1.80									0.29	55.04
10/9/2007	5747.8	1.54		< 5.00	10.0	1.19	< 0.005	< 0.100	< 0.0100	0.0016	0.00	56.02
10/10/2007	5770.2	1.62									0.03	56.02
10/11/2007	5793.1	2.05			10.0	2.09	< 0.005	0.588			0.19	55.79
10/12/2007	5816.4	1.73									0.07	55.93
10/13/2007												
10/14/2007												
10/15/2007	5885.6	1.59									0.02	56.47
10/16/2007	5908.9	1.94		< 5.00	10.0	1.69	< 0.005	0.580	< 0.0100	0.0024	0.15	55.45
10/17/2007	5931.6	1.81									0.17	54.69
10/18/2007	5955.5	3.13			10.0	1.67		0.590			0.59	54.40
10/19/2007	5977.9	2.64									0.41	55.46
10/20/2007												
10/21/2007												
10/22/2007	6047.8	2.45									1.01	54.93
10/23/2007	6070.2	1.54		< 5.00	10.0	2.03	0.013	0.210	< 0.0100	< 0.0020	0.00	55.29
10/24/2007	6093.0	1.57									0.01	56.24
10/25/2007	6115.6	1.57			< 5.0	1.55		0.091			0.01	54.20
10/26/2007	6139.0	1.54									0.00	52.91
10/27/2007												
10/28/2007												
10/29/2007	6206.4	1.57									0.01	54.30
10/30/2007	6232.3	1.57		5.98	< 5.0	0.82	< 0.005	0.074	< 0.0100	< 0.0020	0.01	52.73

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
10/31/2007	6254.3	1.54									0.00	53.41
11/1/2007	6277.5	1.54			< 5.0	1.17		0.062			0.00	53.72
11/2/2007	6300.1	1.54									0.00	52.77
11/3/2007												
11/4/2007												
11/5/2007	6371.0	1.54									0.00	55.01
11/6/2007	6394.4	1.54									0.00	53.87
11/7/2007	6417.0	1.57		< 5.00	< 5.0	1.42	0.013	< 0.100	< 0.0100	< 0.0020	0.01	53.71
11/8/2007	6440.3	1.54			< 5.0	1.02		< 0.100			0.00	54.24
11/9/2007	6462.8	1.54									0.00	54.45
11/10/2007												
11/11/2007												
11/12/2007	6531.7	2.17									0.66	53.75
11/13/2007	6555.0	2.97		< 5.00	10.0	2.71	0.021	0.625	< 0.0100	0.0031	0.53	52.09
11/14/2007	6578.3	1.57									0.01	52.39
11/15/2007	6601.3	1.59			< 5.0	2.32		0.188			0.02	53.32
11/16/2007	6624.3	3.45									0.71	54.21
11/17/2007												
11/18/2007												
11/19/2007	6695.1	2.25									0.79	52.32
11/20/2007	6718.5	2.24		< 5.00							0.26	51.64
11/21/2007	6741.2	1.54			10.0	3.77	0.042	0.806	< 0.0100	0.0030	0.00	51.49
11/22/2007												
11/23/2007	6786.9	1.54			10.0	2.42		0.326			0.00	49.82
11/24/2007												
11/25/2007												
11/26/2007	6857.3	1.54									0.01	50.10
11/27/2007	6879.4	2.67			10.0	1.99	0.021	0.473	< 0.0100	< 0.0020	0.42	49.11
11/28/2007	6902.6	1.89									0.13	49.63
11/29/2007	6926.1	3.34			10.0	3.48		0.739			0.67	48.83
11/30/2007	6949.1	1.70									0.06	50.77
12/1/2007												
12/2/2007												
12/3/2007	7022.5	5.26									4.14	51.63
12/4/2007	7040.5	3.30									0.62	52.87
12/5/2007	7060.8	1.88		< 5.00	20.0	6.96	0.022	2.290	< 0.0100	0.0071	0.09	52.76
12/6/2007	7081.6	2.32									0.25	52.03
12/7/2007	7102.0	1.86			10.0	6.24		0.665			0.08	51.61
12/8/2007												
12/9/2007												
12/10/2007	7169.4	1.69									0.12	49.87
12/11/2007	7192.0	1.54		< 5.00	10.0	4.52	0.052	0.604	< 0.0100	0.0035	0.00	49.77
12/12/2007	7215.4	1.67									0.01	49.79
12/13/2007	7239.6	1.73			10.0	5.48		0.491			0.03	50.33
12/14/2007	7261.5	1.67									0.01	51.10
12/15/2007												
12/16/2007												
12/17/2007	7333.2	2.13									0.64	50.43
12/18/2007	7354.2	2.19		< 5.00	10.0	5.69	0.050	0.910	< 0.0100	0.0231	0.21	50.81
12/19/2007	7376.0	1.81									0.09	51.29
12/20/2007	7400.2	4.99			10.0	6.24		1.360			1.28	48.97
12/21/2007	7422.3	2.17									0.20	49.24
12/22/2007												
12/23/2007												
12/24/2007	7493.0	2.76									1.34	51.47
12/25/2007												

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
12/26/2007	7538.9	2.30									0.56	49.05
12/27/2007	7563.0	1.86		< 5.00	< 5.0	5.82	0.039	0.653	< 0.0100	0.0036	0.12	49.87
12/28/2007	7587.0	3.00									0.53	48.60
12/29/2007												
12/30/2007												
12/31/2007	7657.4	2.42									0.97	49.57
1/1/2008		2.47			10.0	6.00		0.516				
1/2/2008	7703.8	2.47									0.08	49.68
1/3/2008	7727.9	2.82		< 4.84	10.0	5.75	0.054	0.413	< 0.0100	0.0029	0.13	50.53
1/4/2008	7750.7	3.14									0.25	50.90
1/5/2008												
1/6/2008												
1/7/2008	7822.1	3.39									1.02	49.54
1/8/2008	7843.9	3.27		< 4.81	10.0	6.63	0.059	0.737	< 0.0100	0.0031	0.30	48.41
1/9/2008	7867.8	3.50									0.38	49.02
1/10/2008	7891.7	2.98			10.0	6.97		0.702			0.19	50.20
1/11/2008	7914.0	4.32									0.76	51.87
1/12/2008												
1/13/2008												
1/14/2008	7982.4	2.89									0.46	50.72
1/15/2008	8006.3	3.45		< 4.82	10.0	6.51	0.060	0.968	< 0.0100	0.0035	0.36	48.77
1/16/2008	8028.4	2.52									0.02	49.17
1/17/2008	8051.6	2.47			< 5.0	6.35		0.434			0.00	49.63
1/18/2008	8074.5	2.52									0.02	50.18
1/19/2008												
1/20/2008												
1/21/2008	8143.5	2.47									0.12	49.69
1/22/2008	8167.3	2.35		< 4.81	10.0	4.15	0.047	0.456	< 0.0100	< 0.0020	0.00	48.34
1/23/2008	8190.3	2.35									0.00	48.48
1/24/2008	8214.3	2.35			15.4	4.21		0.435			0.00	48.35
1/25/2008	8237.1	2.35									0.00	47.80
1/26/2008												
1/27/2008												
1/28/2008	8307.1	2.62									0.30	49.78
1/29/2008	8329.9	3.05		< 4.81	10.0	5.16	0.046	0.679	< 0.0100	0.0048	0.26	49.74
1/30/2008	8353.9	3.89									0.57	48.12
1/31/2008	8377.4	3.16			10.0	5.14		0.777			0.30	49.85
2/1/2008	8402.0	4.32									0.73	47.16
2/2/2008												
2/3/2008												
2/4/2008	8471.4	3.07									0.80	48.42
2/5/2008	8494.2	2.69		< 4.76	10.0	6.64	0.044	0.712	< 0.0100	0.0023	0.09	49.24
2/6/2008	8517.5	3.90									0.53	47.83
2/7/2008	8541.7	4.32			10.0	6.53		1.670			0.96	46.26
2/8/2008	8564.2	3.63									0.43	48.49
2/9/2008												
2/10/2008												
2/11/2008	8631.8	3.33									0.95	51.94
2/12/2008	8653.4	2.47		< 4.82	10.0	6.94	0.047	0.762	< 0.0100	0.0033	0.00	51.96
2/13/2008	8676.3	2.85									0.14	51.39

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
2/14/2008	8699.9	2.50			20.0	5.92		0.991			0.01	51.22
2/15/2008	8722.5	2.47									0.00	51.04
2/16/2008												
2/17/2008												
2/18/2008	8791.7	2.47									0.00	51.19
2/19/2008	8811.5	2.47		< 4.85	10.0	4.52	0.037	0.515	< 0.0100	0.0036	0.00	51.62
2/20/2008	8837.2	2.50									0.01	52.11
2/21/2008	8860.5	2.47			10.0	4.58		0.472			0.00	51.52
2/22/2008	8883.7	2.48									0.00	52.44
2/23/2008												
2/24/2008												
2/25/2008	8953.9	2.60									0.14	53.86
2/26/2008	8975.9	2.90		< 4.85	10.0	4.88	0.035	0.717	< 0.0100	0.0049	0.16	52.87
2/27/2008	8999.6	2.48									0.00	53.23
2/28/2008	9022.1	2.38			10.0	4.62		0.410			0.00	54.13
2/29/2008	9045.9	2.35									0.00	54.66
3/1/2008												
3/2/2008												
3/3/2008	9115.3	2.76									0.45	52.64
3/4/2008	9138.1	2.76		< 4.77	10.0	4.27	0.030	0.646	< 0.0100	0.0166	0.15	51.21
3/5/2008	9161.6	2.41									0.02	51.79
3/6/2008	9184.6	2.35			< 5.0	3.42		0.298			0.00	52.30
3/7/2008	9207.8	2.35									0.00	52.59
3/8/2008												
3/9/2008												
3/10/2008	9276.5	2.43									0.09	56.26
3/11/2008	9299.3	2.78		< 4.90	10.0	2.73	0.022	0.417	< 0.0100	0.0047	0.16	54.80
3/12/2008	9322.5	2.68									0.12	52.99
3/13/2008	9346.4	3.11			6.0	3.14		0.475			0.28	53.47
3/14/2008	9369.9	3.46									0.41	52.66
3/15/2008												
3/16/2008												
3/17/2008	9439.0	2.65									0.33	52.76
3/18/2008	9462.0	2.65		< 4.82	4.0	3.61	0.030	0.510	< 0.0100	0.0031	0.11	53.50
3/19/2008	9487.1	2.46									0.04	53.03
3/20/2008	9509.5	2.73			8.2	3.31		0.399			0.14	52.81
3/21/2008	9531.7	3.48									0.42	51.05
3/22/2008												
3/23/2008												
3/24/2008	9601.3	2.68									0.36	51.61
3/25/2008	9624.6	2.35		< 4.85	10.0	4.86	0.028	0.754	< 0.0100	0.0048	0.00	52.38
3/26/2008	9647.7	2.84									0.18	52.35
3/27/2008	9670.7	3.51			10.0	4.49		1.180			0.43	48.55
3/28/2008	9693.8	2.68									0.12	51.03
3/29/2008												
3/30/2008												
3/31/2008	9763.3	3.31									1.07	50.93
4/1/2008	9787.5	2.41		< 5.01	10.0	4.63	0.025	0.828	< 0.0100	0.0050	0.02	50.98
4/2/2008	9810.1	2.45									0.00	51.54
4/3/2008	9833.1	2.46			8.0	5.44		0.932			0.00	52.26

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
4/4/2008	9856.8	2.52									0.02	53.32
4/5/2008												
4/6/2008												
4/7/2008	9926.6	2.74									0.31	53.04
4/8/2008	9949.7	2.98		< 5.01	10.0	4.95	0.027	1.010	< 0.0100	0.0040	0.19	52.98
4/9/2008	9972.9	2.65									0.07	52.95
4/10/2008	9995.7	2.52			6.0	4.45		0.560			0.02	53.39
4/11/2008	10019.4	2.47									0.00	52.74
4/12/2008												
4/13/2008												
4/14/2008	10088.3	2.50									0.15	54.82
4/15/2008	10111.9	2.84		< 5.01	8.1	3.67	0.021	0.619	< 0.0100	0.0044	0.14	53.28
4/16/2008	10135.0	2.68									0.08	53.31
4/17/2008	10158.5	2.47			4.0	4.11		0.335			0.00	54.10
4/18/2008	10181.8	2.60									0.05	53.94
4/19/2008												
4/20/2008												
4/21/2008	10251.6	2.75									0.43	52.15
4/22/2008	10257.2	3.43		< 5.01	12.0	5.10	0.025	0.976	< 0.0100	0.0220	0.36	51.66
4/23/2008	10257.2	2.73									0.10	52.00
4/24/2008	10257.2	2.60			10.0	5.80		0.641			0.05	52.94
4/25/2008	10257.2	2.51									0.02	53.48
4/26/2008												
4/27/2008												
4/28/2008	10257.2	2.45									0.09	55.20
4/29/2008	10257.2	2.43		< 5.00	6.0	2.71	0.021	0.268	< 0.0100	0.0030	0.03	55.67
4/30/2008	10257.2	2.51									0.04	54.89
5/1/2008	10257.2	2.51			2.0	3.24		0.278			0.02	54.98
5/2/2008	10257.2	2.46									0.00	55.87
5/3/2008												
5/4/2008												
5/5/2008	10257.2	2.37									0.01	57.17
5/6/2008	10257.2	2.45		< 5.02	4.0	2.23	0.009	0.207	< 0.0100	0.0022	0.00	56.84
5/7/2008	10257.2	2.46									0.00	56.88
5/8/2008	10257.2	2.45			4.0	3.11		0.172			0.00	56.88
5/9/2008	10257.2	2.45									0.00	56.90
5/10/2008												
5/11/2008												
5/12/2008	10257.2	2.45									0.10	56.15
5/13/2008	10257.2	2.35		< 5.00	6.0	2.00	0.011	0.159	< 0.0100	< 0.0020	0.00	56.37
5/14/2008	10257.5	2.81									0.17	56.61
5/15/2008	10258.0	2.38			8.0	2.40		0.315			0.01	58.09
5/16/2008	10262.3	2.35									0.00	58.81
5/17/2008												
5/18/2008												
5/19/2008	10269.7	2.48									0.00	59.42
5/20/2008	10272.2	2.53		< 5.01	12.0	3.41	0.011	0.638	< 0.0100	0.0064	0.41	59.41
5/21/2008	10274.6	2.41									0.05	57.68
5/22/2008	10277.1	2.48			14.0	4.76		0.685			0.02	56.39
5/23/2008	10279.6	2.46									0.01	56.09

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
5/24/2008												
5/25/2008												
5/26/2008	10287.0	2.48									0.19	57.39
5/27/2008	10289.5	2.48		< 5.00	12.0	2.26	0.013	0.596	< 0.0100	0.0031	0.01	57.57
5/28/2008	10292.0	2.53									0.04	58.69
5/29/2008	10294.5	2.47			8.0	2.57		0.528			0.00	57.11
5/30/2008	10296.9	2.46									0.00	57.61
5/31/2008												
6/1/2008												
6/2/2008	10304.3	2.46									0.00	56.74
6/3/2008	10307.0	2.70		< 4.82	14.0	2.69	0.012	0.663	< 0.0100	0.0030	0.81	57.64
6/4/2008	10309.7	2.66									0.03	57.35
6/5/2008	10312.0	2.31			6.0	2.85		0.299			0.00	56.66
6/6/2008	10314.5	2.45									0.33	55.98
6/7/2008												
6/8/2008												
6/9/2008	10322.1	2.55									0.37	57.13
6/10/2008	10324.7	2.55		< 5.00	6.0	2.36	0.012	0.308	< 0.0100	0.0019	0.42	54.92
6/11/2008	10327.2	2.56									0.02	55.42
6/12/2008	10329.6	2.35			2.0	2.27		0.211			0.00	55.76
6/13/2008	10332.5	2.98									0.00	57.46
6/14/2008												
6/15/2008												
6/16/2008	10339.9	2.45									0.00	58.00
6/17/2008	10342.3	2.40		< 4.96	2.0	1.38	< 0.005	< 0.100	< 0.0100	< 0.0020	0.00	58.28
6/18/2008	10344.7	2.41									0.00	60.42
6/19/2008	10347.1	2.45			2.0	1.70		< 0.100			0.00	57.67
6/20/2008	10349.6	2.49									0.00	58.84
6/21/2008												
6/22/2008												
6/23/2008	10356.9	2.43									0.00	58.55
6/24/2008	10359.3	2.40		< 4.95	2.0	0.92	< 0.005	< 0.100	< 0.0100	< 0.0020	0.00	57.84
6/25/2008	10361.7	2.43									0.00	58.92
6/26/2008	10364.2	2.50			2.0	0.89		< 0.100			0.00	58.78
6/27/2008	10366.6	2.37									0.00	58.93
6/28/2008												
6/29/2008												
6/30/2008	10374.0	2.48									0.00	61.13
7/1/2008	10376.5	2.47	7.04		3.6	1.40	0.005	0.143	< 0.0100	< 0.0100	0.00	60.65
7/2/2008	10378.9	2.44									0.00	60.98
7/3/2008	10381.4	2.48		< 4.76	4.0	1.20		< 0.100			0.03	60.16
7/4/2008		2.50										
7/5/2008		2.50										
7/6/2008		2.50										
7/7/2008	10391.4	2.50									0.27	58.90
7/8/2008	10393.9	2.44	7.04	< 4.86	4.0	1.15	0.005	< 0.100	< 0.0010	0.0013	0.00	59.96
7/9/2008	10396.3	2.47									0.00	62.35
7/10/2008	10398.8	2.45			4.0	1.04		< 0.100			0.00	61.46
7/11/2008	10401.1	2.36									0.00	60.35
7/12/2008		2.49										

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
7/13/2008		2.49										
7/14/2008	10408.6	2.49									0.00	63.16
7/15/2008	10411.0	2.41	7.10	< 5.00	3.6	1.01	< 0.005	< 0.100	< 0.0010	< 0.0010	0.00	63.29
7/16/2008	10413.5	2.48									0.00	62.81
7/17/2008	10415.9	2.41			3.5	1.01		< 0.100			0.00	64.15
7/18/2008	10418.4	2.48									0.00	59.82
7/19/2008		2.43										
7/20/2008		2.43										
7/21/2008	10425.7	2.43									0.00	59.79
7/22/2008	10428.1	2.44	7.57	< 4.81	3.6	0.88	< 0.005	< 0.100	< 0.0010	< 0.0010	0.00	59.36
7/23/2008	10430.6	2.46									0.00	58.85
7/24/2008	10433.0	2.45			3.8	0.91		< 0.100			0.00	57.62
7/25/2008	10435.4	2.43									0.00	59.21
7/26/2008		2.44										
7/27/2008		2.44										
7/28/2008	10442.8	2.44									0.00	58.66
7/29/2008	10445.3	2.48	7.36	< 4.82	4.0	0.90	< 0.005	< 0.100	< 0.0010	< 0.0010	0.01	59.19
7/30/2008	10447.7	2.42									0.05	58.85
7/31/2008	10450.2	2.50			3.7	1.00		< 0.100			0.00	58.32
8/1/2008	10452.6	2.41									0.02	59.71
8/2/2008		2.47										
8/3/2008		2.47										
8/4/2008	10460.0	2.47									0.06	58.91
8/5/2008	10462.7	2.68	7.45	< 4.81	3.9	1.19	0.005	< 0.100	< 0.0010	< 0.0100	0.00	60.83
8/6/2008	10464.9	2.21									0.00	60.81
8/7/2008	10467.3	2.40									0.00	66.01
8/8/2008	10469.7	2.41			1.9	3.26		< 0.100			0.00	59.81
8/9/2008		2.46										
8/10/2008		2.46										
8/11/2008	10477.1	2.46									0.24	59.21
8/12/2008	10479.5	2.44	7.40	< 4.90	3.9	1.54	< 0.005	< 0.100	< 0.0010	< 0.0010	0.00	60.73
8/13/2008	10482.0	2.48									0.00	60.13
8/14/2008	10484.4	2.43			2.0	3.17		< 0.100			0.00	60.57
8/15/2008	10488.2	3.76									0.00	66.57
8/16/2008		1.51										
8/17/2008		1.51										
8/18/2008	10492.7	1.51									0.05	62.17
8/19/2008	10494.7	2.00	7.46	< 4.77	57.8	2.84	0.010	2.160	< 0.0010	0.0010	0.16	57.45
8/20/2008	10496.5	1.76									0.23	58.91
8/21/2008	10499.5	3.00			35.9	3.53		1.480			0.40	58.59
8/22/2008	10502.0	2.58									0.01	61.89
8/23/2008		2.64										
8/24/2008		2.64										
8/25/2008	10521.6	2.64									0.31	59.88
8/26/2008	10523.4	1.83	7.31	< 4.82	6.0	1.94	0.007	0.177	< 0.0010	0.0014	0.00	59.72
8/27/2008	10526.6	3.19									0.13	59.25
8/28/2008	10530.0	3.36			3.8	2.54		0.105			0.05	62.11
8/29/2008	10533.5	3.56									0.00	60.58
8/30/2008		2.44										
8/31/2008		2.44										

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
9/1/2008		2.85										
9/2/2008	10557.3	2.85	7.18	< 4.77	1.9	1.10	0.006	< 0.100	< 0.0010	< 0.0010	0.09	57.68
9/3/2008	10560.3	2.96									0.00	58.17
9/4/2008	10562.8	2.48			3.8	2.15		< 0.100			0.00	58.14
9/5/2008	10565.2	2.40									0.00	58.67
9/6/2008		2.49										
9/7/2008		2.49										
9/8/2008	10572.6	2.49									0.00	59.12
9/9/2008	10575.1	2.49	7.58	< 4.76	3.9	3.70	< 0.005	< 0.100	< 0.0010	0.0011	0.00	59.73
9/10/2008	10577.6	2.47									0.00	58.17
9/11/2008	10580.1	2.51			3.7	3.98		< 0.100			0.00	58.53
9/12/2008	10582.6	2.47									0.00	59.63
9/13/2008		2.47										
9/14/2008		2.47										
9/15/2008	10590.0	2.47									0.00	59.00
9/16/2008	10592.4	2.38									0.00	58.95
9/17/2008	10594.9	2.56									0.00	59.12
9/18/2008	10597.3	2.41	7.41	< 4.76	3.9	3.43	0.014	< 0.100	< 0.0010	0.0012	0.00	58.35
9/19/2008	10599.8	2.45									0.00	58.12
9/20/2008		2.44			4.0	3.90		< 0.100				
9/21/2008		2.44										
9/22/2008	10607.1	2.44									0.18	57.83
9/23/2008	10609.5	2.44	7.35	< 4.91	3.8	1.91	< 0.005	< 0.100	< 0.0010	< 0.0010	0.01	57.05
9/24/2008	10612.0	2.42									0.00	57.63
9/25/2008	10614.4	2.48			3.7	2.80		< 0.100			0.03	57.86
9/26/2008	10616.8	2.31									0.02	57.68
9/27/2008		2.44										
9/28/2008		2.44										
9/29/2008	10624.1	2.44									0.00	58.12
9/30/2008	10626.4	2.35	7.40	< 4.90	1.9	1.43	< 0.005	< 0.100	< 0.0010	< 0.0010	0.00	58.69
10/1/2008	10628.9	2.50									0.00	58.58
10/2/2008	10631.3	2.38			3.8	2.54		< 0.100			0.03	58.50
10/3/2008	10633.8	2.47									0.05	58.47
10/4/2008		2.46										
10/5/2008		2.46										
10/6/2008	10641.1	2.46									0.53	57.13
10/7/2008	10643.7	2.56		< 5.01	3.8	1.77	0.006	< 0.100	< 0.0010	< 0.0020	0.07	57.54
10/8/2008	10646.1	2.36									0.00	56.65
10/9/2008	10648.5	2.41			3.9	3.69		0.168			0.00	55.58
10/10/2008	10650.9	2.46									0.25	54.36
10/11/2008		2.42										
10/12/2008		2.42										
10/13/2008	10658.2	2.42									0.02	56.03
10/14/2008	10660.6	2.45		< 5.01	2.0	1.84	0.014	< 0.100	< 0.0010	< 0.0010	0.04	55.77
10/15/2008	10663.2	2.57									0.00	55.11
10/16/2008	10665.4	2.22			3.9	4.57		0.641			0.04	55.51
10/17/2008	10667.9	2.46									0.00	55.55
10/18/2008		1.90										
10/19/2008		1.90										
10/20/2008	10673.6	1.90									0.10	55.28

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
10/21/2008	10673.6	2.89									0.16	54.69
10/22/2008	10673.6	2.46									0.00	54.26
10/23/2008	10673.6	2.38									0.00	54.48
10/24/2008	10673.6	2.35									0.00	54.03
10/25/2008		2.36										
10/26/2008		2.36										
10/27/2008	10673.6	2.36									0.00	54.41
10/28/2008	10675.8	2.18		< 4.96	7.9	1.55	0.011	0.446	< 0.0010	< 0.0020	0.00	55.21
10/29/2008	10678.2	2.40									0.00	55.35
10/30/2008	10680.5	2.38			1.9	1.05		< 0.100			0.00	55.32
10/31/2008	10683.0	2.49									0.00	55.52
11/1/2008		2.49										
11/2/2008		2.49										
11/3/2008	10690.5	2.49									0.67	55.21
11/4/2008	10693.1	2.61	7.76	< 4.77	7.7	2.27	0.006	0.335	< 0.0010	0.0021	0.76	53.59
11/5/2008	10695.5	2.34									0.20	53.32
11/6/2008	10698.0	2.49			3.7	1.96		0.144			0.49	53.02
11/7/2008	10700.4	2.49									0.00	55.06
11/8/2008		2.42										
11/9/2008		2.42										
11/10/2008	10707.7	2.42									0.29	55.28
11/11/2008	10710.1	2.44	7.81	< 4.82	4.0	2.04	0.010	0.111	< 0.0010	0.0013	0.04	59.64
11/12/2008	10713.1	2.99									1.35	56.18
11/13/2008	10716.4	2.47			15.7	6.38		1.320			1.78	56.44
11/14/2008	10718.9	2.47										54.68
11/15/2008		2.42										
11/16/2008		2.42										
11/17/2008	10726.1	2.42										54.52
11/18/2008	10728.4	2.33	7.70	< 4.76	3.8	4.51	0.110	0.374	< 0.0010	0.0027		54.59
11/19/2008	10731.0	2.54									0.02	53.74
11/20/2008	10733.5	2.44	7.29		3.8	4.74		0.472			0.09	52.24
11/21/2008	10735.9	2.44									0.34	
11/22/2008		2.43									0.09	
11/23/2008		2.43										
11/24/2008	10743.2	2.43	7.20								0.09	51.54
11/25/2008	10746.6	3.41	7.73	< 4.76	3.8	3.78	0.047	0.220	< 0.0010	0.0026		49.12
11/26/2008	10748.0	1.44									0.06	51.90
11/27/2008		2.43										
11/28/2008	10752.9	2.43			1.9						0.03	52.43
11/29/2008		2.36				2.24		0.162				
11/30/2008	10752.9	2.42										
12/1/2008	10760.2	2.42									0.10	
12/2/2008	10762.7	2.42	7.73	4.76	3.8	2.34	0.029	0.236	0.0010	0.0020	0.29	
12/3/2008	10765.0	2.34									0.07	
12/4/2008	10767.4	2.43			1.9	2.77		0.268			0.00	
12/5/2008	10769.8	2.43									0.00	
12/6/2008		2.45										
12/7/2008		2.45										
12/8/2008	10777.2	2.45									0.32	
12/9/2008	10779.6	2.37	7.90	< 4.76	11.4	2.80	< 0.005	0.419	< 0.0010	0.0020	0.00	

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
12/10/2008	10782.0	2.46									0.00	
12/11/2008	10784.5	2.44			3.8	2.81		0.241			0.02	
12/12/2008	10786.9	2.39									0.00	
12/13/2008		2.65										
12/14/2008		2.65										
12/15/2008	10794.8	2.65			5.7	4.55	0.051	0.597	< 0.0010	0.0020	1.59	
12/16/2008	10797.4	2.57	7.70	< 4.76							0.00	
12/17/2008	10799.8	2.38									0.00	
12/18/2008	10802.2	2.43			5.6	4.09		0.377			0.35	
12/19/2008	10804.7	2.52									0.19	
12/20/2008		2.47										
12/21/2008		2.47										
12/22/2008	10812.1	2.47			24.8	2.59		0.913	< 0.0010	0.0055	0.31	
12/23/2008	10814.5	2.33	7.80	962.00	5.7	2.06		0.276			0.00	
12/24/2008	10816.9	2.40									0.00	
12/25/2008		2.45										
12/26/2008	10821.8	2.45									0.61	
12/27/2008		2.94										
12/28/2008		2.94										
12/29/2008	10830.6	2.94			10.0	4.66		0.373	< 0.0010	0.0024	0.96	
12/30/2008	10833.9	3.26	7.60	< 4.76	10.0	4.69		0.382			0.35	
12/31/2008	10837.1	3.21									0.24	
1/1/2009		3.18										
1/2/2009	10844.1	3.18									2.77	44.22
1/3/2009		3.69										
1/4/2009		3.69										
1/5/2009	10855.1	3.69									0.15	41.82
1/6/2009	10858.5	3.33									0.14	46.43
1/7/2009	10862.4	3.94	7.68		10.0	5.28	0.027	0.522	< 0.0010	0.0027	1.56	49.72
1/8/2009	10866.3	3.91		< 4.81	10.0	4.73		0.848			2.05	49.98
1/9/2009	10869.9	3.57									0.19	48.70
1/10/2009		3.70										
1/11/2009		3.70										
1/12/2009	10881.0	3.70									0.37	50.05
1/13/2009	10884.3	3.33	7.63	< 4.81	10.0	5.21	0.028	0.390	< 0.0010	0.0018	0.00	51.01
1/14/2009	10887.8	3.47									0.00	50.26
1/15/2009	10891.5	3.68			10.0	5.87		0.295			0.00	49.81
1/16/2009	10894.8	3.34									0.00	49.07
1/17/2009		3.27										
1/18/2009		3.27										
1/19/2009	10904.6	3.27									0.00	48.04
1/20/2009	10908.0	1.62		< 4.76	< 10.0	5.85	0.079	0.430	< 0.0010	0.0032	0.00	48.85
1/21/2009	10908.0	1.85									0.00	47.41
1/22/2009	10908.0	1.95	7.79		< 10.0	5.85		0.298			0.00	47.90
1/23/2009	10908.0	2.11									0.00	49.23
1/24/2009		1.74										
1/25/2009		1.74										
1/26/2009	10908.0	1.74									0.00	47.84
1/27/2009	10908.0	1.97			< 10.0	5.26	0.055	0.276	< 0.0010	0.0020	0.00	46.85
1/28/2009	10908.0	1.60									0.00	47.31

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
1/29/2009	10909.9	1.90	7.75	< 4.76	< 10.0	5.05		0.342			0.05	48.19
1/30/2009	10913.1	3.23									0.03	48.40
1/31/2009	10921.8	2.90										
2/1/2009		2.90									0.00	
2/2/2009	10921.8	2.90									0.00	48.99
2/3/2009	10924.4	2.55	7.76	< 4.76	40.0	4.87	0.052	1.040	< 0.0010	0.0042	0.00	48.54
2/4/2009	10926.6	2.26									0.00	48.84
2/5/2009	10929.3	2.71									0.00	49.37
2/6/2009	10931.8	2.46			20.0	4.95		0.817			0.01	50.05
2/7/2009		2.32									0.00	
2/8/2009		2.32									0.00	
2/9/2009	10938.7	2.32									0.09	48.94
2/10/2009	10941.3	2.59	8.40	< 4.81	< 10.0	4.28	0.031	0.363	< 0.0010	0.0020	0.11	47.95
2/11/2009	10943.7	2.39									0.00	47.75
2/12/2009	10946.0	2.27		< 4.81	< 10.0	4.58		0.489		0.0023	0.00	48.13
2/13/2009	10948.9	2.94									0.00	49.28
2/14/2009		2.20									0.00	
2/15/2009		2.20									0.00	
2/16/2009	10955.5	2.20									0.00	48.59
2/17/2009	10958.1	2.62	7.94	< 4.76	< 10.0	4.13	0.041	0.539	< 0.0010	0.0035	0.00	49.71
2/18/2009	10960.2	2.08									0.00	49.63
2/19/2009	10962.7	2.51			< 10.0	3.89		0.421			0.00	49.77
2/20/2009	10965.5	2.80									0.00	51.89
2/21/2009		2.20									0.00	
2/22/2009		2.20									0.00	
2/23/2009	10972.1	2.20									0.03	51.17
2/24/2009	10974.8	2.66	7.95	< 4.72	< 10.0	4.11	0.033	0.777	< 0.0010	0.0036	0.52	49.73
2/25/2009	10977.1	2.33									0.29	51.22
2/26/2009	10979.4	2.33			< 10.0	5.18		0.948			0.05	48.31
2/27/2009	10982.0	2.55									0.00	47.68
2/28/2009		2.45										
3/1/2009		2.45										
3/2/2009	10989.3	2.45									0.13	53.87
3/3/2009	10991.7	2.40		< 4.72	10.0	5.16	0.039	0.671	< 0.0010	0.0062	0.25	52.62
3/4/2009	10993.7	1.97	7.83								0.03	51.00
3/5/2009	10996.2	2.49			< 10.0	6.60		0.824			0.24	50.62
3/6/2009	10998.5	2.30									0.00	49.78
3/7/2009		2.40										
3/8/2009		2.40										
3/9/2009	11005.7	2.40									0.07	45.45
3/10/2009	11008.3	2.69		< 5.00							0.00	49.56
3/11/2009	11010.3	2.00			10.0	8.71	0.073	1.040	< 0.0010	0.0050	0.00	48.67
3/12/2009	11013.0	2.63			10.0	8.94		0.827			0.00	50.44
3/13/2009	11015.4	2.37	8.05								0.00	50.78
3/14/2009		2.30										
3/15/2009		2.30										
3/16/2009	11022.3	2.30									0.14	48.22
3/17/2009	11025.1	2.82		< 4.76	10.0	7.20	0.070	0.873	< 0.0010	0.0070	0.19	49.86
3/18/2009	11027.2	2.15									0.00	50.20
3/19/2009	11029.9	2.68	7.38		10.0	6.95		1.690			0.08	52.36

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
3/20/2009	11032.0	2.04									0.02	52.37
3/21/2009		2.37										
3/22/2009		2.37										
3/23/2009	11039.1	2.37	7.54								0.29	51.41
3/24/2009	11041.8	2.75	7.52	< 4.72	40.0	9.44	0.073	0.159	< 0.0010	0.0150	0.01	52.16
3/25/2009	11044.2	2.43									0.13	51.94
3/26/2009	11046.6	2.34	6.85		30.0	6.23		0.100			0.00	52.46
3/27/2009	11048.6	2.03	6.84								0.00	52.41
3/28/2009		2.43										
3/29/2009		2.43										
3/30/2009	11055.9	2.43									0.00	51.06
3/31/2009	11058.4	2.52			20.0	5.23	0.042	0.852	< 0.0010	0.0113	0.12	52.63
4/1/2009	11061.4	2.14	6.12	6.10							0.48	51.36
4/2/2009	11063.5	2.14			70.0	4.28		1.360			0.13	50.69
4/3/2009	11066.0	2.41									0.00	51.31
4/4/2009		2.38										
4/5/2009		2.38										
4/6/2009	11073.1	2.38									0.00	54.06
4/7/2009	11075.5	2.44		< 4.72	10.0	3.42	0.032	0.211	< 0.0010	0.0041	0.00	54.85
4/8/2009	11078.4	2.92									0.00	56.24
4/9/2009	11080.5	2.06	7.52		10.0	3.18		0.278			0.16	54.60
4/10/2009	11082.6	2.10									0.12	53.96
4/11/2009		2.62									0.00	
4/12/2009		2.62									0.60	
4/13/2009	11090.5	2.62									0.27	53.64
4/14/2009	11092.4	1.92		< 4.72	20.0	4.63	0.018	0.746	< 0.0010	0.0140	0.02	52.60
4/15/2009	11094.9	2.48									0.00	52.91
4/16/2009	11097.7	2.89			20.0	1.74		0.296			0.00	44.55
4/17/2009	11101.8	4.02	6.94								0.32	56.83
4/18/2009		2.98									0.00	
4/19/2009		2.98									0.00	
4/20/2009	11110.7	2.98									0.00	54.58
4/21/2009	11113.9	3.21		< 4.76	20.0	2.27	0.017	0.158	< 0.0050	0.0068	0.00	56.24
4/22/2009	11116.9	3.04									0.00	56.37
4/23/2009	11119.9	3.01	7.75		10.0	2.06		0.146			0.00	54.28
4/24/2009	11123.0	3.02									0.00	54.16
4/25/2009		3.20									0.00	
4/26/2009		3.20									0.00	
4/27/2009	11132.6	3.20									0.38	55.47
4/28/2009	11136.0	3.40		< 4.81	20.0	2.50	0.015	0.428	< 0.0010	0.0090	0.56	56.07
4/29/2009	11138.9	2.90	7.27								0.05	55.35
4/30/2009	11141.6	2.71			20.0	3.47		0.194			0.00	55.13
5/1/2009	11144.4	2.79									0.00	56.90
5/2/2009		2.80									0.23	
5/3/2009		2.80									0.02	
5/4/2009	11152.8	2.80									0.52	56.38
5/5/2009	11155.8	2.98		< 4.72	20.0	2.75	0.016	0.131	< 0.0010	0.0120	0.22	54.79
5/6/2009	11158.7	2.98	7.41								0.47	55.73
5/7/2009	11161.7	2.94			10.0	4.37		0.474			0.34	55.22
5/8/2009	11164.8	3.09									0.00	58.27

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
5/9/2009		3.38									0.00	
5/10/2009		3.38									0.00	
5/11/2009	11174.9	3.38									0.00	57.93
5/12/2009	11176.5	1.59		< 4.76	30.0	3.73	0.018	0.516	< 0.0010	0.0129	0.24	54.94
5/13/2009	11180.0	3.50	7.15								0.80	54.72
5/14/2009	11182.6	2.61			10.0	2.43		0.334			0.00	55.53
5/15/2009	11186.5	3.84									0.00	58.97
5/16/2009		3.19									0.00	
5/17/2009		3.19									0.00	
5/18/2009	11196.0	3.19									0.16	57.74
5/19/2009	11199.1	3.03		< 5.00	10.0	1.22	0.006	0.802	< 0.0010	0.0126	0.35	57.46
5/20/2009	11202.1	3.07	7.77								0.00	56.92
5/21/2009	11205.0	2.91			10.0	1.61		1.280			0.00	56.58
5/22/2009	11208.8	3.78									0.00	60.75
5/23/2009		3.07									0.00	
5/24/2009		3.07									0.00	
5/25/2009		3.07									0.00	
5/26/2009	11221.1	3.07		< 4.72	10.0	1.31	0.008	2.530	< 0.0010	0.0206	0.00	58.35
5/27/2009	11223.8	2.72	7.15								0.00	57.56
5/28/2009	11226.9	3.06			20.0			0.228			0.00	58.30
5/29/2009	11230.4	3.53									0.00	61.13
5/30/2009		3.44									0.00	
5/31/2009		3.44									0.00	
6/1/2009	11240.7	3.44									0.00	61.85
6/2/2009	11244.2	3.42		< 5.00	20.0	1.08	< 0.005	0.302	< 0.0010	0.0092	0.00	59.93
6/3/2009	11247.2	3.03	7.24								0.00	65.81
6/4/2009	11250.1	2.93			20.0	1.23		0.431			0.33	59.97
6/5/2009	11253.4	3.28									0.04	60.69
6/6/2009		3.12									0.00	
6/7/2009		3.12									0.00	
6/8/2009	11262.8	3.12									0.00	58.70
6/9/2009	11266.1	3.33		< 4.76	90.0	1.62		0.506			0.00	61.97
6/10/2009	11268.7	2.65	7.36								0.00	59.24
6/11/2009	11271.7	2.96			10.0	1.40	< 0.005	0.550	< 0.0010	0.0060	0.00	59.50
6/12/2009	11275.5	3.76									0.00	71.21
6/13/2009		3.28									0.05	
6/14/2009		3.28									0.00	
6/15/2009	11285.3	3.28									0.00	63.00
6/16/2009	11288.0	2.69		< 4.72	10.0	1.57	0.006	0.353	< 0.0010	0.0078	0.00	59.45
6/17/2009	11291.3	3.30	7.61								0.01	60.48
6/18/2009	11293.9	2.60			< 10.0	0.90		< 0.100			0.30	66.61
6/19/2009	11297.3	3.38									0.04	61.89
6/20/2009		2.95									0.00	
6/21/2009		2.95									0.00	
6/22/2009	11306.1	2.95									0.00	60.31
6/23/2009	11309.2	3.07		< 4.85	20.0	2.40	0.007	0.835	< 0.0010	0.0149	0.00	65.28
6/24/2009	11312.3	3.14									0.00	60.74
6/25/2009	11315.9	3.53	7.27		10.0	1.80		0.102			0.00	62.00
6/26/2009	11318.7	2.81									0.00	58.85
6/27/2009		3.31									0.00	

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
6/28/2009		3.31									0.00	
6/29/2009	11328.6	3.31		< 5.00	160.0	1.42	0.029	1.620	< 0.0010	0.0150	0.00	69.25
6/30/2009	11331.8	3.19									0.00	60.24
7/1/2009	11335.1	3.30	7.67		< 10.0	0.95					0.00	60.90
7/2/2009	11338.5	3.44									0.00	62.63
7/3/2009		3.46									0.00	
7/4/2009		3.46									0.00	
7/5/2009		3.46									0.00	
7/6/2009	11352.4	3.46									0.06	61.18
7/7/2009	11354.7	2.32		< 4.81	10.0	1.22	0.006	0.138	< 0.0010	0.0063	0.00	60.10
7/8/2009	11357.5	2.78	7.72								0.00	59.52
7/9/2009	11360.6	3.11			< 10.0	1.01		< 0.100			0.00	61.03
7/10/2009	11363.3	2.71									0.00	63.39
7/11/2009		2.92									0.00	
7/12/2009		2.92									0.00	
7/13/2009	11372.0	2.92									0.00	62.13
7/14/2009	11374.8	2.79			10.0	1.26	0.006	0.146	< 0.0010	0.0022	0.00	62.46
7/15/2009	11377.3	2.46		< 4.80							0.00	61.99
7/16/2009	11380.5	3.21			< 10.0	1.04		0.144			0.00	65.02
7/17/2009	11382.6	2.17	7.34								0.00	63.02
7/18/2009		2.82									0.00	
7/19/2009		2.82									0.00	
7/20/2009	11391.1	2.82									0.00	61.40
7/21/2009	11394.9	3.77		< 4.80	< 10.0	0.89	0.006	0.194	< 0.0010	0.0023	0.00	65.27
7/22/2009	11397.3	2.39									0.00	62.21
7/23/2009	11400.4	3.07			< 10.0	0.81		< 0.100			0.00	61.88
7/24/2009	11402.3	1.97	7.83								0.00	60.83
7/25/2009		3.42									0.00	
7/26/2009		3.42									0.00	
7/27/2009	11412.6	3.42									0.00	62.13
7/28/2009	11415.9	3.28		< 4.80	20.0	0.77	0.007	0.294	< 0.0010	0.0079	0.00	62.43
7/29/2009	11419.7	3.80									0.00	64.91
7/30/2009	11422.2	2.56	7.27		30.0	1.14		1.110			0.00	64.22
7/31/2009	11425.7	3.50									0.00	62.28
8/1/2009		3.36									0.00	
8/2/2009		3.36									0.00	
8/3/2009	11435.8	3.36									0.00	65.49
8/4/2009	11438.0	2.17		< 4.95	10.0	0.51	< 0.005	0.108	< 0.0010	0.0040	0.00	61.76
8/5/2009	11441.4	3.46	7.20								0.00	62.72
8/6/2009	11444.2	2.77			10.0	1.00		< 0.100			0.00	60.33
8/7/2009	11447.1	2.90									0.00	58.50
8/8/2009		2.66									0.00	
8/9/2009		2.66									0.00	
8/10/2009	11455.1	2.66									0.00	59.85
8/11/2009	11458.8	3.75		< 4.73	< 10.0	0.75	< 0.005	< 0.100	< 0.0010	< 0.0010	0.16	60.72
8/12/2009	11461.4	2.61	7.70								0.12	60.99
8/13/2009	11464.8	3.40			10.0	1.50		< 0.100			0.01	62.82
8/14/2009	11467.6	2.80									0.00	58.99
8/15/2009		3.23									0.00	
8/16/2009		3.23									0.00	

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
8/17/2009	11477.3	3.23									0.00	59.84
8/18/2009	11480.7	3.37			10.0	1.42	< 0.005	0.232	< 0.0010	< 0.0010	0.00	60.66
8/19/2009	11483.6	2.94	7.30	< 4.81							0.00	61.81
8/20/2009	11487.4	3.77			10.0	0.96		< 0.100			0.00	61.48
8/21/2009	11490.7	3.31									0.00	61.10
8/22/2009		3.47									0.00	
8/23/2009		3.47									0.00	
8/24/2009	11501.1	3.47									0.00	61.42
8/25/2009	11503.7	2.58		< 4.73	10.0	0.63	< 0.005	0.175	< 0.0010	0.0026	0.00	58.82
8/26/2009	11507.4	3.75									0.00	60.15
8/27/2009	11510.4	2.92			< 10.0	0.62		0.144			0.00	59.31
8/28/2009	11513.8	3.40	7.60								0.00	60.27
8/29/2009		3.40									0.00	
8/30/2009		3.40									0.00	
8/31/2009	11524.0	3.40									0.00	65.87
9/1/2009	11527.1	3.12		< 4.76	20.0	0.71	0.006	0.781	< 0.0010	0.0059	0.01	68.92
9/2/2009	11529.7	2.64									0.01	57.98
9/3/2009	11533.1	3.42			10.0	0.69		0.128			0.02	59.24
9/4/2009	11536.4	3.23	7.28								0.01	58.50
9/5/2009		3.41									0.29	
9/6/2009		3.41									0.35	
9/7/2009		3.41									0.07	
9/8/2009	11550.0	3.41			< 10.0	1.14	< 0.005	0.131	< 0.0010	0.0016	0.00	58.98
9/9/2009	11553.0	3.02		< 5.01							0.00	58.73
9/10/2009	11556.5	3.47			10.0	0.89		< 0.100			0.00	60.23
9/11/2009	11559.6	3.15	7.64								0.00	59.02
9/12/2009		3.33									0.00	
9/13/2009		3.33									0.00	
9/14/2009	11569.6	3.33									0.00	59.32
9/15/2009	11572.5	2.90		< 4.96	20.0	0.72	< 0.005	< 0.100	< 0.0010	< 0.0010	0.00	59.08
9/16/2009	11576.1	3.56									0.14	60.04
9/17/2009	11578.5	2.45			10.0	0.78		< 0.100			0.00	58.05
9/18/2009	11581.8	3.32	7.64								0.00	57.94
9/19/2009		3.39									0.31	
9/20/2009		3.39									0.00	
9/21/2009		3.39									0.00	
9/22/2009	11595.4	3.39			< 10.0	0.70	0.043	< 0.100	< 0.0010	0.0015	0.00	59.05
9/23/2009	11598.4	3.01		< 4.90							0.00	58.10
9/24/2009	11602.3	3.89			< 10.0	0.66		< 0.100			0.00	59.07
9/25/2009	11605.5	3.17	7.57								0.00	60.15
9/26/2009		3.22									0.00	
9/27/2009		3.22									0.00	
9/28/2009	11615.2	3.22									0.09	57.41
9/29/2009	11618.5	3.32		< 4.86	< 10.0	0.61	< 0.005	< 0.100	< 0.0010	< 0.0010	0.33	57.24
9/30/2009	11621.1	2.63	7.69								0.02	55.57
10/1/2009	11624.9	3.80			< 10.0	1.02		< 0.100			0.10	57.17
10/2/2009	11627.6	2.70									0.30	54.44
10/3/2009		3.00									0.00	
10/4/2009		3.00									0.00	
10/5/2009	11636.6	3.00									0.00	55.69

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
10/6/2009	11639.8	3.22									0.00	55.99
10/7/2009	11643.2	3.39		< 4.73	< 10.0	0.86	< 0.005	< 0.100	< 0.0010	< 0.0010	0.00	57.43
10/8/2009	11646.5	3.25	7.76		< 10.0	0.82		0.124			0.00	58.03
10/9/2009	11649.4	2.96	7.56								0.00	56.65
10/10/2009		3.06									0.00	
10/11/2009		3.06									0.00	
10/12/2009	11658.6	3.06									0.00	54.87
10/13/2009	11662.1	3.53		< 5.00	< 10.0	0.66	< 0.005	< 0.100	< 0.0010	< 0.0010	0.02	55.23
10/14/2009	11665.0	2.90									0.00	55.37
10/15/2009	11667.8	2.76			< 10.0	1.88		0.270			0.00	56.49
10/16/2009	11670.4	2.61	7.50								0.00	56.70
10/17/2009		3.14									0.00	
10/18/2009		3.14									0.00	
10/19/2009	11679.8	3.14									0.00	57.10
10/20/2009	11683.1	3.24		< 4.73	10.0	1.18	< 0.005	0.151	< 0.0010	0.0010	0.00	55.61
10/21/2009	11686.0	2.96									0.00	56.48
10/22/2009	11688.9	2.89			< 10.0	1.26		0.123			0.00	56.43
10/23/2009	11691.5	2.62	7.60								0.00	56.33
10/24/2009		3.23									0.00	
10/25/2009		3.23									0.00	
10/26/2009	11701.2	3.23									0.00	55.03
10/27/2009	11704.5	3.32		< 5.00	10.0	1.80	0.005	0.278	< 0.0010	0.0020	0.00	54.99
10/28/2009	11707.2	2.71									0.00	54.42
10/29/2009	11710.1	2.82			< 10.0	1.04		< 0.100			0.00	53.19
10/30/2009	11712.7	2.60	7.66								0.00	54.72
10/31/2009		2.97									0.00	
11/1/2009		2.97										
11/2/2009	11721.6	2.97									0.00	55.35
11/3/2009	11724.1	2.52		< 5.01	< 10.0	1.25	< 0.005	0.100	0.0010	0.0020	0.00	55.61
11/4/2009	11726.7	2.63									0.00	55.70
11/5/2009	11729.5	2.77			< 10.0	0.79		0.100			0.00	55.06
11/6/2009	11731.8	2.31	7.77								0.00	53.38
11/7/2009		3.35									0.00	
11/8/2009		3.35									0.00	
11/9/2009	11741.8	3.35									0.00	
11/10/2009	11744.9	3.05		< 5.26	10.0	1.00	< 0.005	0.298	0.0010	0.0020	0.00	54.36
11/11/2009	11747.8	2.96									0.00	53.92
11/12/2009	11750.8	2.96			< 10.0	1.52		0.174			0.00	49.68
11/13/2009	11753.3	2.48	7.69								0.00	52.14
11/14/2009		3.38									0.00	
11/15/2009		3.38									0.00	
11/16/2009	11763.4	3.38									0.86	53.13
11/17/2009	11766.8	3.36		< 5.01	10.0	1.74	< 0.005	0.175	0.0010	0.0020	0.67	53.36
11/18/2009	11770.0	3.23									0.40	53.01
11/19/2009	11773.4	3.43			10.0	1.32		0.125			0.53	52.22
11/20/2009	11776.8	3.36	7.54								0.30	53.39
11/21/2009		3.34									0.37	
11/22/2009		3.34									0.72	
11/23/2009	11786.8	3.34									1.43	52.77
11/24/2009	11790.1	3.32		< 4.73	10.0	2.67	0.142	0.547	0.0010	0.0027	0.05	54.07

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
11/25/2009	11793.5	3.34									0.00	53.77
11/26/2009		3.34			< 10.0	4.02		0.203			1.13	
11/27/2009	11799.5	3.02	7.45								0.00	51.37
11/28/2009		3.33									0.00	
11/29/2009		3.33									0.00	
11/30/2009	11809.5	3.33									0.00	53.65
12/1/2009	11812.3	2.81			< 10.0	3.58	0.038	0.188	0.0010	0.0023	0.00	53.65
12/2/2009	11815.6	3.28		< 4.73							0.00	52.25
12/3/2009	11818.8	3.27			< 10.0	2.79		0.241			0.03	51.61
12/4/2009	11821.6	2.74	7.56								0.00	50.32
12/5/2009		3.02									0.00	
12/6/2009		3.02									0.00	
12/7/2009	347.3	3.02									0.00	
12/8/2009	350.8	3.49		4.77	< 10.0	2.77	0.031	0.343	0.0010	0.0035	0.00	48.64
12/9/2009	354.7	3.92									0.00	48.15
12/10/2009	357.7	2.98			< 10.0	2.66		0.495			0.00	48.29
12/11/2009	361.7	3.97	7.54								0.00	46.98
12/12/2009		3.67									0.00	
12/13/2009		3.67									0.07	
12/14/2009	372.7	3.67									0.24	49.20
12/15/2009	376.0	3.28		< 4.76	20.0	2.79	0.022	0.293	0.0010	0.0044	0.39	49.03
12/16/2009	379.4	3.45									0.95	50.67
12/17/2009	382.7	3.25			10.0	4.01		0.439			0.50	50.92
12/18/2009	385.3	2.60	7.41								0.03	51.35
12/19/2009		3.54									0.03	
12/20/2009		3.54									0.30	
12/21/2009	395.9	3.54		< 4.77	50.0	3.43	0.021	0.319	0.0010	0.0027	0.53	51.79
12/22/2009	399.5	3.62									0.19	51.06
12/23/2009	403.0	3.49			30.0	4.12		0.275			0.00	50.44
12/24/2009	405.7	2.72	7.57								0.00	49.58
12/25/2009		3.76									0.00	
12/26/2009		3.76									0.00	
12/27/2009		3.76									0.00	
12/28/2009	420.7	3.76		< 4.96	5.0	2.65	0.018	0.235	0.0010	0.0030	0.00	50.60
12/29/2009	424.2	3.44									0.00	49.61
12/30/2009		3.16			30.0	2.90		0.105			0.20	49.46
12/31/2009	430.5	3.16	7.80								0.13	50.07
1/1/2010	430.5	2.98									0.37	
1/2/2010		2.98									0.05	
1/3/2010		2.98									0.00	
1/4/2010	445.4	2.98									1.10	49.20
1/5/2010	448.7	3.25			20.0	2.39	0.007	0.301	0.0010	0.0030	0.30	52.25
1/6/2010	452.2	3.57		< 4.73							0.44	52.64
1/7/2010	455.7	3.48			3.0	2.47		0.117			0.00	51.57
1/8/2010	458.5	2.76	7.57								0.51	50.02
1/9/2010		2.51									0.00	
1/10/2010		2.51									0.00	
1/11/2010	466.0	2.51									0.49	51.24
1/12/2010	468.5	2.49			22.9	2.79	0.012	0.241	0.0010	0.0030	0.37	50.22
1/13/2010	471.2	2.73									0.31	51.74

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
1/14/2010	474.0	2.78		< 4.72	13.3	5.06		0.369			0.23	51.07
1/15/2010	475.9	1.89	7.40								0.45	50.94
1/16/2010		2.85									0.05	
1/17/2010		2.85									0.10	
1/18/2010	484.4	2.85									0.57	51.58
1/19/2010	487.5	3.01		< 5.00	5.0	6.03	0.063	0.191	0.0010	0.0042	0.00	52.23
1/20/2010	490.6	3.17									0.05	52.08
1/21/2010	493.7	3.11			20.0	5.63		0.132			0.00	52.37
1/22/2010	11974.0	2.56	7.54								0.00	50.15
1/23/2010		3.38									0.00	
1/24/2010		3.38									0.70	
1/25/2010	11984.1	3.38									0.46	52.10
1/26/2010	11987.5	3.38		< 4.82	22.0	5.17	0.046	0.513	0.0010	0.0046	0.02	52.21
1/27/2010	11990.7	3.16									0.04	51.67
1/28/2010	11994.1	3.46			10.0	5.17		0.341			0.00	51.90
1/29/2010	11998.3	4.20	7.57								0.01	52.38
1/30/2010		3.71									0.06	
1/31/2010		3.71									0.00	
2/1/2010	12009.5	3.71									0.03	51.85
2/2/2010	12013.5	4.00		5.01	8.9	3.84	0.035	0.195	< 0.0010	< 0.0020	0.29	51.80
2/3/2010	12017.3	3.83									0.09	52.72
2/4/2010	12020.9	3.60	7.52		3.0	3.92		0.358			0.40	52.62
2/5/2010	12025.2	4.34									0.00	52.96
2/6/2010											0.05	
2/7/2010											0.05	
2/8/2010	12038.0	4.27									0.05	53.88
2/9/2010	12041.9	3.90		4.86	10.0	3.28	0.025	0.260	< 0.0010	0.0023	0.01	53.23
2/10/2010	12045.7	3.79									0.11	51.90
2/11/2010	12049.9	4.13			14.0	3.19		0.800			0.02	52.29
2/12/2010	12053.5	3.68	7.58								0.34	52.57
2/13/2010											0.16	
2/14/2010											0.21	
2/15/2010	12064.8	3.75									0.01	50.14
2/16/2010	12068.8	3.98		4.95	6.0	3.94	0.059	0.338	< 0.0010	0.0027	0.27	54.55
2/17/2010	12072.5	3.77									0.02	53.99
2/18/2010	12076.1	3.61			6.7	3.96		0.201			0.00	54.57
2/19/2010	12079.2	3.04	7.75								0.00	51.75
2/20/2010											0.00	
2/21/2010											0.00	
2/22/2010	12089.9	3.57									0.00	52.62
2/23/2010	12092.9	3.06		4.76	7.5	3.05	0.019	0.160	< 0.0010	< 0.0020	0.06	52.02
2/24/2010	12096.3	3.36									0.29	52.78
2/25/2010	12099.6	3.26			6.3	2.85		0.249			0.11	53.85
2/26/2010	12102.4	2.79	7.56								0.37	53.23
2/27/2010											0.06	
2/28/2010											0.05	
3/1/2010	12112.6	3.42									0.00	54.41
3/2/2010	12115.8	3.17		< 5.01	8.6	3.32	0.309	0.253	0.0010	0.0020	0.00	54.23
3/3/2010	12118.9	3.17									0.28	53.02
3/4/2010	12121.4	2.42			10.0	3.35		0.249			0.00	55.17

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
3/5/2010	12124.0	2.67	7.71								0.02	54.85
3/6/2010		2.85									0.02	
3/7/2010		2.85									0.00	
3/8/2010	12132.6	2.85									0.17	54.00
3/9/2010	12135.6	2.99		< 4.76	10.0	3.16	0.103	0.194	0.0010	0.0022	0.01	51.97
3/10/2010	12138.7	3.15									0.03	52.93
3/11/2010	12142.0	3.35			5.1	2.27		0.177			0.44	51.74
3/12/2010	12144.8	2.75	7.67								0.72	50.88
3/13/2010		3.01									0.25	
3/14/2010		3.01									0.03	
3/15/2010	12153.8	3.01									0.00	54.06
3/16/2010	12156.8	2.94		< 4.86	10.0	4.38	0.044	0.298	0.0010	0.0027	0.02	54.41
3/17/2010	12159.8	3.05									0.16	56.23
3/18/2010	12162.8	2.94			12.5	5.35		0.354			0.00	55.39
3/19/2010	12165.5	2.76	7.51								0.00	51.16
3/20/2010		2.93									0.00	
3/21/2010		2.93									0.15	
3/22/2010	12174.3	2.93									0.00	56.11
3/23/2010	12177.3	3.02			10.0	4.08	0.029	0.341	0.0010	0.0030	0.05	57.13
3/24/2010	12180.2	2.91		< 5.01							0.00	55.82
3/25/2010	12183.5	3.22			8.6			0.246			0.21	55.09
3/26/2010	12186.8	3.34	7.91			3.63					0.53	53.05
3/27/2010		3.58									0.00	
3/28/2010		3.58									0.15	
3/29/2010	12197.5	3.58									0.37	53.66
3/30/2010	12201.5	3.99		< 5.01	11.4	4.66	0.046	0.411	0.0010	0.0022	0.43	52.48
3/31/2010	12205.3	3.75									0.10	53.16
4/1/2010	12209.5	4.26			8.6	4.40		0.318			0.23	53.69
4/2/2010	12213.3	3.73	7.36								2.00	50.68
4/3/2010		3.95										
4/4/2010		3.95										
4/5/2010	12225.1	3.95									0.12	53.01
4/6/2010	12228.4	3.30	7.74	< 4.82	10.0	4.44	0.046	0.299	0.0010	0.0021	0.39	51.21
4/7/2010	12232.8	4.41									0.04	53.51
4/8/2010	12236.7	3.92			8.0	4.50		0.333			0.30	52.89
4/9/2010	12240.5	3.77									0.06	53.77
4/10/2010		3.81									0.02	
4/11/2010		3.81									0.04	
4/12/2010	12251.9	3.81									0.25	55.57
4/13/2010	12255.7	3.79		< 5.01	6.7	4.21	0.030	0.383	0.0010	0.0020	0.06	56.90
4/14/2010	12259.5	3.75										58.73
4/15/2010	12263.2	3.76			6.2	3.87		0.225			0.07	58.85
4/16/2010	12266.4	3.13	7.94									58.21
4/17/2010		3.85									0.03	
4/18/2010		3.85									0.01	
4/19/2010	12277.9	3.85									0.06	58.15
4/20/2010	12281.6	3.66		< 4.95	10.0	3.05	0.015	0.289	0.0010	0.0034	0.17	57.86
4/21/2010	12285.4	3.77									0.02	56.87
4/22/2010	12288.9	3.57									0.00	57.94
4/23/2010	12291.8	2.84	7.62		8.3	4.54		0.470			0.00	54.74

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
4/24/2010		3.28									0.08	
4/25/2010		3.28									0.08	
4/26/2010	12301.6	3.28									0.00	56.87
4/27/2010	12304.9	3.34			23.3	4.75	0.024	0.613	0.0010	0.0050	0.60	56.48
4/28/2010	12308.2	3.30									0.29	57.30
4/29/2010	12310.7	2.44		< 5.01	15.0	7.60		1.030			0.22	54.79
4/30/2010	12314.3	3.65	7.69								0.05	56.42
5/1/2010											0.04	
5/2/2010											0.05	
5/3/2010	12324.8	3.48									0.25	55.81
5/4/2010	12327.4	2.64		< 5.26	14.0	5.44	0.023	0.715	0.0010	0.0064	0.32	54.17
5/5/2010	12332.0	4.62									0.22	54.53
5/6/2010	12336.7	4.67	7.62		7.5	5.47		0.474			0.00	58.18
5/7/2010	12340.0	3.35										55.51
5/8/2010												
5/9/2010											0.04	
5/10/2010	12352.6	4.20									0.32	57.31
5/11/2010	12356.3	3.70		< 4.81	6.7	5.23	0.043	0.257	0.0010	0.0034	0.05	56.26
5/12/2010	12360.1	3.78	7.54								0.00	54.79
5/13/2010	12364.5	4.42									0.00	57.56
5/14/2010	12368.6	4.07			8.6	6.40		0.208			0.00	59.21
5/15/2010											0.00	
5/16/2010											0.00	
5/17/2010	12382.7	4.71									0.00	64.86
5/18/2010	12384.3	1.53		< 4.85				0.381	0.0010	0.0042	0.27	60.68
5/19/2010	12387.0	2.77			< 10.0	4.18	< 0.030				0.32	62.99
5/20/2010	12389.6	2.53									0.35	57.78
5/21/2010	12392.5	2.89	7.51		6.7	4.13		0.446			0.54	55.86
5/22/2010											0.20	
5/23/2010											0.55	
5/24/2010	12401.1	2.88									0.04	55.95
5/25/2010	12404.3	3.17	7.43		8.3	5.59	0.050	0.526	< 0.0010	0.0050	0.15	58.98
5/26/2010	12406.4	2.07		< 5.01							0.18	57.05
5/27/2010	12409.6	3.21									0.27	56.78
5/28/2010	12412.5	2.98			11.4	6.32		0.521			0.09	56.65
5/29/2010		3.08									0.90	
5/30/2010		3.08									0.04	
5/31/2010		3.08										
6/1/2010	12424.9	3.08									0.47	
6/2/2010	12428.1	3.20		< 5.01	10.0	6.79	0.066	0.382	0.0010	0.0050	0.31	
6/3/2010	12431.3	3.28									0.02	
6/4/2010	12434.6	3.25	7.49		10.0	6.45		0.510			0.24	
6/5/2010		3.30									0.00	
6/6/2010		3.30									0.50	
6/7/2010	12444.5	3.30									0.06	
6/8/2010	12447.6	3.13		< 5.01	6.7	6.30	0.062	0.728	0.0010	0.0065	0.00	
6/9/2010	12451.3	3.70	7.61								0.19	
6/10/2010	12454.6	3.30			7.1	5.91		0.491			0.50	
6/11/2010	12457.1	2.51									0.00	
6/12/2010		3.00									0.00	

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
6/13/2010		3.00									0.00	
6/14/2010	12466.1	3.00									0.00	
6/15/2010	12469.1	2.99		< 5.01	9.1	6.00	0.038	0.427	0.0010	0.0079	0.07	
6/16/2010	12472.6	3.45									0.22	
6/17/2010	12475.1	2.54	7.60		5.0	4.70		0.232			0.00	
6/18/2010	12478.1	3.01										
6/19/2010		3.16										
6/20/2010		3.16										
6/21/2010		3.16										
6/22/2010	12490.8	3.16		< 5.57	10.0	4.50	0.053	0.267	0.0010	0.0030	0.05	
6/23/2010	12493.7	2.94									0.00	
6/24/2010	12496.1	2.38	7.59		4.3	5.70		0.312			0.00	
6/25/2010	12499.1	2.98									0.00	
6/26/2010		3.21									0.00	
6/27/2010		3.21									0.00	
6/28/2010	12508.7	3.21									0.00	
6/29/2010	12512.8	4.12		< 4.96	10.0		0.011	0.361	0.0010		0.00	
6/30/2010	12517.4	4.62	7.60								0.00	
7/1/2010		5.19									0.00	
7/2/2010	12527.8	5.19									0.21	61.42
7/3/2010		5.33									0.00	
7/4/2010		5.33									0.00	
7/5/2010		5.33									0.00	
7/6/2010	12549.2	5.33			16.7	3.19	0.010	0.528	0.0010	0.0051	0.00	58.71
7/7/2010	12555.0	5.89	7.59	< 5.56							0.00	60.82
7/8/2010	12560.0	4.97			5.6	3.47		0.304			0.00	63.22
7/9/2010	12565.5	5.45									0.00	63.95
7/10/2010		5.55									0.00	
7/11/2010		5.55									0.00	
7/12/2010	12582.1	5.55									0.00	68.51
7/13/2010	12585.9	3.76			2.4	3.02	0.005	0.153	0.0010	0.0029	0.00	66.74
7/14/2010	12590.0	4.09	7.84	< 4.76							0.00	66.13
7/15/2010	12594.4	4.47			3.5	3.93		0.124			0.00	69.82
7/16/2010	12599.5	5.10									0.00	70.42
7/17/2010		3.82									0.00	
7/18/2010		3.82									0.00	
7/19/2010	12611.0	3.82									0.00	66.38
7/20/2010	12616.4	5.43			13.3	6.73	0.024	0.492	0.0010	0.0075	0.00	66.56
7/21/2010	12620.6	4.20	8.13	< 4.90							0.00	64.45
7/22/2010	12625.5	4.92									0.00	62.67
7/23/2010	12629.7	4.21			8.9	3.74		0.114	0.0010	0.0025	0.00	61.26
7/24/2010		4.72									0.00	
7/25/2010		4.72									0.00	
7/26/2010	12643.9	4.72									0.00	64.40
7/27/2010	12648.8	4.89		< 5.00	5.3	2.08	0.006	0.172	0.0010	0.0033	0.00	65.34
7/28/2010	12653.2	4.42	7.78								0.00	61.35
7/29/2010	12657.4	4.22			5.3	1.88		0.191			0.00	61.37
7/30/2010	12661.6	4.19									0.00	63.06
7/31/2010		3.42									0.00	
8/1/2010	12671.9	3.42									0.00	

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
8/2/2010	12671.9	3.42									0.00	63.67
8/3/2010	12676.6	4.69		< 5.26	4.0	2.24	0.005	0.100	0.0010	0.0051	0.00	61.25
8/4/2010	12681.2	4.65	7.78								0.00	61.29
8/5/2010	12685.7	4.46			2.0	1.56		0.100			0.00	62.19
8/6/2010	12690.1	4.46									0.00	62.05
8/7/2010		4.11									0.00	
8/8/2010		4.11									0.07	
8/9/2010	12702.5	4.11									0.00	64.05
8/10/2010	12706.5	4.07		< 4.95	4.0	1.16	0.008	0.145	0.0010	0.0023	0.00	60.26
8/11/2010	12710.7	4.13	7.86								0.00	60.09
8/12/2010	12714.8	4.18			3.0	0.96		0.100			0.00	60.89
8/13/2010	12719.1	4.22									0.00	62.10
8/14/2010		2.43									0.00	
8/15/2010		2.43									0.00	
8/16/2010	12726.3	2.43									0.00	62.72
8/17/2010	12728.8	2.51		< 4.95	4.0	0.82	0.005	0.100	0.0010	0.0020	0.00	63.10
8/18/2010	12731.2	2.35	7.83								0.00	61.68
8/19/2010	12733.7	2.48			3.0	0.96		0.100			0.00	62.36
8/20/2010	12736.0	2.29									0.00	58.91
8/21/2010		2.57									0.00	
8/22/2010		2.57									0.00	
8/23/2010	12743.7	2.57									0.00	58.40
8/24/2010	12746.0	2.37		< 4.85	4.0	0.93	0.005	0.100	0.0010	0.0020	0.00	58.87
8/25/2010	12749.0	2.97									0.00	65.25
8/26/2010	12751.5	2.47	7.80		3.0	0.83		0.100			0.00	61.36
8/27/2010	12753.6	2.10									0.00	59.04
8/28/2010		2.45									0.00	
8/29/2010		2.45									0.00	
8/30/2010	12760.9	2.45									0.04	58.11
8/31/2010	12763.3	2.33									0.07	57.84
9/1/2010	12765.9	2.66	7.67	4.77							0.60	60.21
9/2/2010	12768.6	2.67			5.0	1.79		0.215			0.01	58.61
9/3/2010	12771.5	2.90									0.00	59.29
9/4/2010		2.85									0.00	
9/5/2010		2.85									0.00	
9/6/2010		2.85									0.00	
9/7/2010	12782.9	2.85		4.77							0.09	59.24
9/8/2010	12785.2	2.31			7.0	3.46	0.018	1.010	0.0010	0.0041	0.00	56.95
9/9/2010	12787.9	2.74	7.71								0.00	56.84
9/10/2010	12790.7	2.81			5.0	3.74		0.722			0.00	57.31
9/11/2010		3.24									0.00	
9/12/2010		3.24									0.00	
9/13/2010	12800.5	3.24									0.00	59.42
9/14/2010	12803.5	3.04		4.86	6.0	0.50	0.006	0.507	0.0010	0.0039	0.00	57.43
9/15/2010	12806.7	3.20	7.78								0.00	57.35
9/16/2010	12810.7	4.01			7.0	1.92		0.978			0.30	58.41
9/17/2010	12814.1	3.35									0.04	57.62
9/18/2010		3.47									0.30	
9/19/2010		3.47									0.45	
9/20/2010	12824.5	3.47									0.15	58.15

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
9/21/2010	12827.2	2.70		5.00	10.0	1.83	0.005	0.724	0.0010	0.0042	0.02	56.70
9/22/2010	12830.6	3.41	7.75								0.00	56.76
9/23/2010	12833.8	3.19			8.0	2.38		0.438			0.07	56.16
9/24/2010	12837.1	3.36									0.07	56.75
9/25/2010		3.18									0.00	
9/26/2010		3.18									0.05	
9/27/2010	12846.7	3.18									0.03	60.96
9/28/2010	12849.1	2.46		4.85	6.0	2.73	0.013	0.644	0.0010	0.0039	0.00	59.17
9/29/2010	12852.2	3.09	7.78								0.08	58.59
9/30/2010	12855.4	3.17			3.0	1.86		0.224			0.00	57.06
10/1/2010	12858.7	3.28									0.00	57.17
10/2/2010		3.28									0.00	
10/3/2010		3.28									0.00	
10/4/2010	12868.5	3.28									0.00	57.18
10/5/2010	12871.2	2.67		9.12	7.0	1.61	0.013	0.548	0.0010	0.0044	0.00	55.74
10/6/2010	12874.3	3.15	7.78								0.00	56.04
10/7/2010	12877.5	3.18			7.0	1.93		0.683			0.00	56.75
10/8/2010	12881.0	3.50									0.00	57.75
10/9/2010		2.98									0.25	
10/10/2010		2.98									0.29	
10/11/2010	12889.9	2.98									0.20	57.69
10/12/2010	12892.9	2.96	7.57	4.95	11.7	6.63	0.028	2.340	0.0010	0.0169	0.00	55.88
10/13/2010	12895.9	2.99	7.73								0.00	55.52
10/14/2010	12898.5	2.66	7.47		12.0	4.98		1.630			0.00	56.16
10/15/2010	12901.4	2.81	7.32								0.03	56.18
10/16/2010		2.64									0.00	
10/17/2010		2.64									0.00	
10/18/2010	12909.3	2.64	7.46								0.00	53.09
10/19/2010	12912.4	3.13		5.56	28.0	19.70	0.066	5.640	0.0010	0.0222	0.00	56.43
10/20/2010	12914.7	2.32	7.52								0.00	55.94
10/21/2010	12917.6	2.87			16.4	17.60		3.440			0.00	55.76
10/22/2010	12920.3	2.71									0.01	55.91
10/23/2010		3.81									0.05	
10/24/2010		3.81									0.40	
10/25/2010	12931.7	3.81									1.01	54.31
10/26/2010	12934.2	2.50		5.00	14.2	8.74	0.058	1.730	0.0010	0.0132	0.85	51.69
10/27/2010	12935.5	1.26	7.64								0.87	51.63
10/28/2010	12936.6	1.08			13.8	8.71		1.520			0.08	54.46
10/29/2010	12937.8	1.23									0.18	55.01
10/30/2010		1.45									0.05	
10/31/2010		1.45										
11/1/2010	12942.2	1.45									0.30	
11/2/2010	12943.8	1.65		5.00	8.4	6.87	0.075	1.900	0.0010	0.0112	1.05	
11/3/2010	12945.5	1.73	7.29								0.03	
11/4/2010	12947.4	1.84			11.1	11.40		1.880			0.00	
11/5/2010	12949.4	2.03									0.00	
11/6/2010		2.03									0.06	
11/7/2010		2.03									0.25	
11/8/2010	12956.2	2.25									0.23	
11/9/2010	12959.2	3.04		4.76	15.8	9.44	0.042	1.680	0.0010	0.0146	0.17	

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
11/10/2010	12961.8	2.65	7.60								0.14	
11/11/2010	12964.9	3.05			22.3	15.30		2.630			0.00	
11/12/2010	12968.4	3.46									0.21	
11/13/2010		3.46									0.12	
11/14/2010		3.46									0.14	
11/15/2010	12978.8	3.49									0.08	
11/16/2010	12980.1	1.33		5.00	14.8	10.70	0.044	2.410	0.0010	0.0173	0.28	
11/17/2010	12980.7	0.53	7.88								0.07	
11/18/2010	12981.3	0.63			18.0	7.98		1.430			0.95	
11/19/2010	12981.7	0.37									0.23	
11/20/2010		0.37									0.11	
11/21/2010		0.37									0.13	
11/22/2010	12982.5	0.27									0.20	
11/23/2010	12982.8	0.29			78.0	8.97	0.057	6.470	0.0010	0.0241	0.59	
11/24/2010	12983.0	0.25	7.87	5.00							0.03	
11/25/2010		0.25			33.6	14.00		2.920			0.00	
11/26/2010	12983.3	0.13									0.09	
11/27/2010		0.13									0.20	
11/28/2010		0.13									0.13	
11/29/2010	12986.3	1.00									0.01	
11/30/2010	12987.8	1.54									0.22	
12/1/2010	12989.4	1.54	8.02								0.38	51.23
12/2/2010	12991.0	1.64			14.0	6.26		1.160			0.03	52.41
12/3/2010	12992.4	1.41									0.07	52.73
12/4/2010		1.44									0.00	
12/5/2010		1.44									0.00	
12/6/2010	12996.8	1.44									0.03	51.14
12/7/2010	12998.4	1.67		< 6.25	11.6	4.45	0.042	0.682	< 0.0010	0.0038	0.02	52.78
12/8/2010	12999.6	1.21	8.16								0.68	50.36
12/9/2010	13000.0	0.38			12.4	4.44		1.110			0.41	51.76
12/10/2010	13000.1	0.08									0.82	51.32
12/11/2010		0.00									0.06	
12/12/2010		0.00									0.87	
12/13/2010	13000.1	0.00									0.51	52.14
12/14/2010	13002.3	2.25		< 5.00	22.9	7.48	0.041	2.110	< 0.0010	0.0095	0.73	51.04
12/15/2010	13004.9	2.53									0.24	51.50
12/16/2010	13007.2	2.33	7.89		16.0	8.46		1.860			0.08	50.21
12/17/2010	13009.6	2.36									0.02	51.55
12/18/2010		1.77									0.05	
12/19/2010		1.77									0.16	
12/20/2010	13014.9	1.77									0.18	50.53
12/21/2010	13016.3	1.47		< 4.91	11.1	6.20	0.034	1.190	< 0.0010	0.0095	0.05	50.96
12/22/2010	13017.9	1.54	7.60								0.03	51.10
12/23/2010	13019.4	1.50			22.2	8.37		2.010			0.00	50.67
12/24/2010	13020.7	1.34									0.00	51.16
12/25/2010		0.66									0.10	
12/26/2010		0.66									0.13	
12/27/2010	13022.7	0.66									0.43	49.38
12/28/2010	13022.8	0.13			15.6	4.05	0.023	1.730	0.0010	0.0110	0.94	50.56
12/29/2010	13025.1	2.25	7.71								0.54	48.94

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
12/30/2010	13027.5	2.40		< 4.86	13.0	6.61		1.260			0.03	49.30
12/31/2010	13030.1	2.64									0.00	47.98
1/1/2011		2.55									0.01	46.44
1/2/2011		2.55									0.02	43
1/3/2011		2.44									0	44.57
1/4/2011		2.41		< 5.01	16.4	4.93	0.043	0.634	< 0.0010	0.005	0	48.32
1/5/2011		2.44	7.81								0.2	48.05
1/6/2011		2.41			18.9	4.96		1.020			0.16	49.52
1/7/2011		2.40									0.11	49.7
1/8/2011		2.38									0.2	48.75
1/9/2011		2.38									0.15	48.62
1/10/2011		2.35									0.04	48.39
1/11/2011		2.35			7.0	6.36	0.028	0.872	< 0.0005	0.005	0	47.65
1/12/2011		2.58	7.71	< 4.76								47.71
1/13/2011		3.09			< 5.0	6.7		1.070			0.9	52.1
1/14/2011		2.64									0.05	54.03
1/15/2011		2.96									0.7	53.34
1/16/2011		5.06									2.6	53.52
1/17/2011		4.11									0.2	53.29
1/18/2011		3.71	7.76	< 4.76	< 5.0	6.89	0.062	0.861	< 0.0005	0.003	0.1	51.15
1/19/2011		3.19									0.17	49.26
1/20/2011		3.40			< 5.0	8.29		0.668			0	48.52
1/21/2011		3.68									0.24	48.15
1/22/2011		3.37									0.03	47.65
1/23/2011		3.35									0	47.44
1/24/2011		3.30									0.1	47.57
1/25/2011		3.30	7.65	< 4.76	< 5.0	14.5	0.132	0.954	< 0.0005	0.005	0.03	48.58
1/26/2011		3.30									0.01	49.77
1/27/2011		3.30			< 5.0	10.9		0.815			trace	50.39
1/28/2011		3.30									0	50.24
1/29/2011		3.30									0.2	51.17
1/30/2011		3.30									0.05	51.19
1/31/2011		3.30									0.04	50.91
2/1/2011		3.56									0.02	
2/2/2011		2.37		1.40	< 5.0	8.61	0.082	0.486	< 0.0005	0.002	0	
2/3/2011		2.37									0	
2/4/2011		2.43			< 5.0	7.89		0.404			0	
2/5/2011		2.39									0.17	
2/6/2011		2.42									0.08	
2/7/2011		2.46									0.27	
2/8/2011		2.38		1.30	< 5.0	8.85	0.065	0.470	< 0.0005	0.003	0.09	
2/9/2011		2.38									0	
2/10/2011		2.37			< 5.0	9.46		0.406			0	
2/11/2011		2.37									Trace	
2/12/2011		2.48	7.82								Trace	
2/13/2011		2.48									0.33	
2/14/2011		2.51									0.19	
2/15/2011		2.50			5.0	9.12	0.08	0.623	< 0.0005	0.003	0.27	
2/16/2011		2.50									0.24	
2/17/2011		2.46		1.00	< 5.0	4.32		0.639			0.15	
2/18/2011		2.46									0.2	
2/19/2011		2.36									0.21	
2/20/2011		2.36									0.01	
2/21/2011		2.35									0	
2/22/2011		2.44		< 0.86	< 5.0	5.81	0.046	0.224	< 0.0005	0.002	0.25	
2/23/2011		2.47									0.25	

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
2/24/2011		2.42			< 5.0	7.26		0.342			0.13	
2/25/2011		2.39									0.1	
2/26/2011		2.36									0.15	
2/27/2011		2.53									0.04	
2/28/2011		3.34	7.14								1.65	
3/1/2011		2.75	7.23		11.0	5.2	0.034	1.180	< 0.0005	0.004	0.72	
3/2/2011		2.63									0.2	
3/3/2011		2.63		< 0.86	< 5.0	8.01		0.590			0.09	
3/4/2011		2.64									0.04	
3/5/2011		2.60									0.15	
3/6/2011		2.60									0	
3/7/2011		2.56									0.01	
3/8/2011		2.60			< 5.0	9.57	0.074	0.530	< 0.0005	0.003	0.03	
3/9/2011		2.74									0.11	
3/10/2011		2.87		< 0.87	< 5.0	8.82		0.594			0.58	
3/11/2011		2.52									0.17	
3/12/2011		2.53									0.07	
3/13/2011		2.58									0.2	
3/14/2011		2.70									0.6	
3/15/2011		2.79		< 0.87	< 5.0	8.18	0.051	0.550	< 0.0005	0.003	0.09	
3/16/2011		2.79									0.45	
3/17/2011		2.62			< 5.0	8.31		0.696			0.16	
3/18/2011		2.69									0.07	
3/19/2011		2.59									0.12	
3/20/2011		2.65									0	
3/21/2011		2.62									0.17	
3/22/2011		2.63		< 0.88	< 5.0	9.21	0.082	0.420	< 0.0005	0.002	0	
3/23/2011		2.63									0.01	
3/24/2011		2.70			5.0	8.9		0.447			0.07	
3/25/2011		2.64									0.26	
3/26/2011		2.88									0.1	
3/27/2011		2.78									0.52	
3/28/2011		2.85		< 0.88	< 5.0	8.07	0.079	0.490	< 0.0005	0.003	0	
3/29/2011		3.06	7.81								0.15	
3/30/2011		3.06									0.51	
3/31/2011		3.11			< 5.0	7.42		0.435			0.3	
4/1/2011		3.06									0.03	
4/2/2011		3.15	7.82								0.07	
4/3/2011		3.09									0.06	
4/4/2011		3.65			< 5.0	6.75	0.061	0.622	< 0.0005	0.003	0.28	
4/5/2011		3.40									0.66	
4/6/2011		3.42									0.45	
4/7/2011		3.37		1.80	< 5.0	7.37		0.514			0.1	
4/8/2011		2.96									0	
4/9/2011		2.39									0	
4/10/2011		2.41									0.08	
4/11/2011		2.46									0.22	
4/12/2011		2.41		< 0.87	< 5.0	7.85	0.068	0.393	< 0.0005	0.003	0.03	
4/13/2011		2.42									0.11	
4/14/2011		2.56			< 5.0	8.44		0.368			0.15	
4/15/2011		2.58									0.6	
4/16/2011		2.41									0.16	
4/17/2011		2.39									0	
4/18/2011		2.37									0.01	
4/19/2011		2.37			< 5.0	8.41	0.061	0.330	< 0.0005	0.002	0.04	
4/20/2011		2.35									0	

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
4/21/2011		2.37		< 0.86	< 5.0	7.67		0.276			0	
4/22/2011		2.35									0.05	
4/23/2011		2.35									0.01	
4/24/2011		2.47	7.38								0.23	
4/25/2011		2.71									0.69	
4/26/2011		2.62		1.40	< 5.0	6.78	0.05	0.394	< 0.0005	0.002	0.55	
4/27/2011		2.51									0.14	
4/28/2011		2.51									0.31	
4/29/2011		2.42			< 5.0	8.76		0.469			0.26	
4/30/2011		2.38										
5/1/2011		2.37									0	
5/2/2011		2.41									0.06	
5/3/2011		2.40			< 5.0	7.24	0.047	0.319	< 0.0005	0.002	0.2	
5/4/2011		2.38									trace	
5/5/2011		2.46		< 0.87	< 5.0	7.17		0.330			0.1	
5/6/2011		2.58									0.01	
5/7/2011		2.52	7.33								0.43	
5/8/2011		2.50									0.1	
5/9/2011		2.45									0.05	
5/10/2011		2.46	7.97	1.30	5.0	6.92	0.034	0.262	< 0.0005	0.002	0.01	
5/11/2011		2.57									0.01	
5/12/2011		2.47			6.0	7.23		0.336			0.29	
5/13/2011		2.46									trace	
5/14/2011		2.45									0	
5/15/2011		2.70									0.47	
5/16/2011		2.48									0.27	
5/17/2011		2.45			< 5.0	8.05	0.051	0.349	< 0.0005	0.002	0	
5/18/2011		2.44									0	
5/19/2011		2.44		< 0.88	< 5.0	8.07		0.294			0	
5/20/2011		2.43									0	
5/21/2011		2.41									0.03	
5/22/2011		2.42									0	
5/23/2011		2.43									0.01	
5/24/2011		2.46			< 5.0	6.87	0.033	0.209	< 0.0005	0.002	0.05	
5/25/2011		2.46									0.15	
5/26/2011		2.46		1.1	< 5.0	6.71		0.228			0.14	
5/27/2011		2.46									0.1	
5/28/2011		2.46									0.27	
5/29/2011		2.46									0.05	
5/30/2011		2.46									0	
5/31/2011		2.46			< 5.0	4.46		0.139			0.1	
6/1/2011		1.16	7.32								0.15	
6/2/2011		1.16		< 0.867	< 5.0	4.16	0.021	0.149	< 0.0005	0.002	trace	
6/3/2011		1.18									0.31	
6/4/2011		1.09									0	
6/5/2011		1.09									0	
6/6/2011		1.09									0	
6/7/2011		0.97									0.01	
6/8/2011		0.39									0.04	
6/9/2011		0.00									0	
6/10/2011		0.00									trace	
6/11/2011		0.00									0	
6/12/2011		0.00									0	
6/13/2011		0.00									0.05	
6/14/2011		0.00	8.45	< 0.86							0	
6/15/2011		0.45		< 0.885	8.0	4.74	< 0.01	0.137	< 0.0005	0.002	0.01	

Sample Date	OUTFALL 002A											
	Meter MG	Flow MGD	pH SU	O&G mg/L	TSS mg/L	F mg/L	Total CN (mg/L)	Al (mg/L)	Sb (mg/L)	Ni (mg/L)	Rainfall inches	Temp F
6/16/2011		0.00									0.06	
6/17/2011		0.04									0	
6/18/2011		1.25		< 0.876	< 5.0	4.77	< 0.01	< 0.050	< 0.0005	0.013	0.15	
6/19/2011		1.29									0.1	
6/20/2011		1.29									0	
6/21/2011		0.80			8.0	4.17	0.022	0.084	< 0.0005	0.002	0	
6/22/2011		0.86									0	
6/23/2011		1.08			8.0	3.8		< 0.050			0.04	
6/24/2011		0.89		1.2							0	
6/25/2011		0.95									0	
6/26/2011		0.95									0	
6/27/2011		0.95									0.01	
6/28/2011		1.12		4.6	5.0	4.6	0.017	< 0.050	< 0.0005	0.001	0.24	
6/29/2011		1.05									0.03	
6/30/2011		0.83			< 5.0	4.1		0.068			0.09	
Average	**8222.1**	**2.81**	**7.52**	**7.91**	**9.78**	**4.1**	**0.045**	**0.511**	**0.0052**	**0.005**	**0.1**	**55.3**
Maximum	**13030.1**	**9.25**	**8.45**	**962.0**	**160.0**	**19.7**	**2.200**	**6.470**	**0.0100**	**0.082**	**5.0**	**71.2**
Minimum	**347.3**	**0.00**	**6.12**	**0.8**	**1.9**	**0.5**	**0.005**	**0.050**	**0.0005**	**0.001**	**0.0**	**41.8**
Count	**1272**	**1713**	**172**	**286**	**554**	**553**	**283**	**554**	**291**	**291**	**1626**	**1232**

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
1/1/2006						Replaced ND w/ Test America's RLs:
1/2/2006						Sb = 0.01 mg/L
1/3/2006	44.01	0.088				Ni = 0.002 mg/L
1/4/2006	44.10	0.093	0.18	37.40	2.100	CN = 0.005 mg/L
1/5/2006	44.17	0.071				TSS = 5 mg/L
1/6/2006	44.19	0.021				
1/7/2006						
1/8/2006						
1/9/2006	44.22	0.009				
1/10/2006	44.32	0.098				
1/11/2006	44.41	0.096	0.32	34.90	1.100	
1/12/2006	44.51	0.098				
1/13/2006	44.60	0.092				
1/14/2006						
1/15/2006						
1/16/2006	44.87	0.091				
1/17/2006	44.97	0.096				
1/18/2006	45.07	0.097	0.35	33.30	0.450	
1/19/2006	45.16	0.094				
1/20/2006	45.25	0.091				
1/21/2006						
1/22/2006						
1/23/2006	45.53	0.094				
1/24/2006	45.62	0.092				
1/25/2006	45.72	0.098	0.29	31.30	0.710	
1/26/2006	45.81	0.083				
1/27/2006	45.90	0.095				
1/28/2006						
1/29/2006						
1/30/2006	46.17	0.091				
1/31/2006	46.26	0.084				
2/1/2006	46.37	0.107	0.27	34.20	1.400	
2/2/2006	46.46	0.096				
2/3/2006	46.55	0.090				
2/4/2006						
2/5/2006						
2/6/2006	46.79	0.079				
2/7/2006	46.88	0.088				
2/8/2006	46.97	0.092	0.41	31.40	2.900	
2/9/2006	47.05	0.084				
2/10/2006	47.09	0.036				
2/11/2006						
2/12/2006						
2/13/2006	47.34	0.084				
2/14/2006	47.43	0.085				
2/15/2006	47.52	0.098	0.48	32.00	0.870	
2/16/2006	47.62	0.093				
2/17/2006	47.70	0.089				
2/18/2006						
2/19/2006						
2/20/2006	47.99	0.096				
2/21/2006	48.08	0.091				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
2/22/2006	48.15	0.065	0.08	38.80	1.300	
2/23/2006	48.22	0.070				
2/24/2006	48.28	0.062				
2/25/2006						
2/26/2006						
2/27/2006	48.53	0.084				
2/28/2006	48.63	0.093				
3/1/2006	48.71	0.087	0.12	35.50	3.400	
3/2/2006	48.80	0.092				
3/3/2006	48.89	0.087				
3/4/2006						
3/5/2006						
3/6/2006	49.16	0.089				
3/7/2006	49.20	0.046				
3/8/2006	49.20	0.001	0.27	37.80	5.500	
3/9/2006	49.29	0.082				
3/10/2006	49.29	0.000				
3/11/2006						
3/12/2006						
3/13/2006	49.29	0.002				
3/14/2006	49.39	0.100				
3/15/2006	49.48	0.091	0.60	37.40	3.600	
3/16/2006	49.57					
3/17/2006	49.67	0.108				
3/18/2006						
3/19/2006						
3/20/2006	49.68	0.001				
3/21/2006	49.77	0.094				
3/22/2006	49.87	0.096	0.90	42.10	3.500	
3/23/2006	49.96	0.089				
3/24/2006	50.05	0.094				
3/25/2006						
3/26/2006						
3/27/2006	50.08	0.009				
3/28/2006	50.17	0.098				
3/29/2006	50.27	0.097	0.70	39.00	2.300	
3/30/2006	50.35	0.085				
3/31/2006	50.44	0.090				
4/1/2006						
4/2/2006						
4/3/2006	50.46	0.004				
4/4/2006	50.55	0.091				
4/5/2006	50.64	0.091	0.13	47.20	1.800	
4/6/2006	50.73	0.088				
4/7/2006	50.82	0.090				
4/8/2006						
4/9/2006						
4/10/2006	50.85	0.009				
4/11/2006	50.93	0.082				
4/12/2006	51.03	0.102	0.25	33.50	0.940	
4/13/2006	51.11	0.084				
4/14/2006						
4/15/2006						
4/16/2006						
4/17/2006	51.32	0.052				
4/18/2006	51.42	0.095				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
4/19/2006	51.52	0.096	0.23	44.99	3.800	
4/20/2006	51.60	0.087				
4/21/2006	51.70	0.093				
4/22/2006						
4/23/2006						
4/24/2006	51.72	0.007				
4/25/2006	51.81	0.092				
4/26/2006	51.91	0.096	0.24	35.49	0.940	
4/27/2006	52.02	0.112				
4/28/2006	52.09	0.072				
4/29/2006						
4/30/2006						
5/1/2006	52.19	0.104				
5/2/2006						
5/3/2006						
5/4/2006						
5/5/2006						
5/6/2006						
5/7/2006						
5/8/2006						
5/9/2006						
5/10/2006						
5/11/2006						
5/12/2006						
5/13/2006						
5/14/2006						
5/15/2006						
5/16/2006						
5/17/2006						
5/18/2006						
5/19/2006						
5/20/2006						
5/21/2006						
5/22/2006						
5/23/2006						
5/24/2006						
5/25/2006						
5/26/2006						
5/27/2006						
5/28/2006						
5/29/2006						
5/30/2006						
5/31/2006						
6/1/2006	52.19					
6/2/2006	52.20	0.006				
6/3/2006		0.097	0.08	63.90	7.200	
6/4/2006						
6/5/2006	52.49	0.097				
6/6/2006	52.58	0.095	0.10	59.30	6.100	
6/7/2006	52.68	0.092				
6/8/2006	52.77	0.095				
6/9/2006	52.86	0.090				
6/10/2006						
6/11/2006						
6/12/2006	52.88	0.005				
6/13/2006						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
6/14/2006						
6/15/2006						
6/16/2006						
6/17/2006						
6/18/2006						
6/19/2006						
6/20/2006						
6/21/2006						
6/22/2006						
6/23/2006						
6/24/2006						
6/25/2006						
6/26/2006						
6/27/2006						
6/28/2006						
6/29/2006						
6/30/2006						
7/1/2006						
7/2/2006						
7/3/2006						
7/4/2006						
7/5/2006						
7/6/2006						
7/7/2006						
7/8/2006						
7/9/2006						
7/10/2006						
7/11/2006						
7/12/2006						
7/13/2006						
7/14/2006						
7/15/2006						
7/16/2006						
7/17/2006	52.88					
7/18/2006	52.95	0.076				
7/19/2006	53.03	0.081	1.30	53.40	5.400	
7/20/2006	53.12	0.091				
7/21/2006	53.21	0.091				
7/22/2006						
7/23/2006						
7/24/2006	53.24	0.008				
7/25/2006						
7/26/2006						
7/27/2006						
7/28/2006						
7/29/2006						
7/30/2006						
7/31/2006	53.24					
8/1/2006						
8/2/2006						
8/3/2006						
8/4/2006						
8/5/2006						
8/6/2006						
8/7/2006						
8/8/2006						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
8/9/2006						
8/10/2006						
8/11/2006						
8/12/2006						
8/13/2006						
8/14/2006						
8/15/2006						
8/16/2006						
8/17/2006						
8/18/2006						
8/19/2006						
8/20/2006						
8/21/2006						
8/22/2006						
8/23/2006						
8/24/2006						
8/25/2006						
8/26/2006						
8/27/2006						
8/28/2006						
8/29/2006	53.24					
8/30/2006	53.29	0.050				
8/31/2006	53.29					
9/1/2006						
9/2/2006						
9/3/2006						
9/4/2006						
9/5/2006						
9/6/2006						
9/7/2006						
9/8/2006						
9/9/2006						
9/10/2006						
9/11/2006						
9/12/2006						
9/13/2006						
9/14/2006						
9/15/2006						
9/16/2006						
9/17/2006						
9/18/2006						
9/19/2006						
9/20/2006						
9/21/2006						
9/22/2006						
9/23/2006						
9/24/2006						
9/25/2006						
9/26/2006						
9/27/2006						
9/28/2006						
9/29/2006	53.31					
9/30/2006						
10/1/2006						
10/2/2006						
10/3/2006						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
10/4/2006						
10/5/2006						
10/6/2006						
10/7/2006						
10/8/2006						
10/9/2006						
10/10/2006						
10/11/2006						
10/12/2006						
10/13/2006						
10/14/2006						
10/15/2006						
10/16/2006						
10/17/2006						
10/18/2006	53.31					
10/19/2006	53.32	0.006				
10/20/2006	53.34	0.024				
10/21/2006						
10/22/2006						
10/23/2006						
10/24/2006						
10/25/2006						
10/26/2006						
10/27/2006						
10/28/2006						
10/29/2006						
10/30/2006						
10/31/2006	53.37					
11/1/2006						
11/2/2006						
11/3/2006	53.37					Only ran a few hours
11/4/2006						
11/5/2006						
11/6/2006	53.41	0.011				
11/7/2006	53.48	0.077	0.15	69.00		
11/8/2006	53.56	0.077				
11/9/2006	53.64	0.078				
11/10/2006	53.71	0.077				
11/11/2006						
11/12/2006						
11/13/2006	53.74	0.008				
11/14/2006	53.82	0.075	0.09	74.30	0.253	
11/15/2006	53.89	0.078				
11/16/2006	53.97	0.077				
11/17/2006	54.05	0.081				
11/18/2006						
11/19/2006						
11/20/2006	54.15	0.034				
11/21/2006	54.23	0.079	0.08	61.70	0.317	
11/22/2006	54.31	0.081				
11/23/2006						
11/24/2006						
11/25/2006						
11/26/2006						
11/27/2006	54.70	0.079				
11/28/2006	54.78	0.080	0.10	48.10	0.310	

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
11/29/2006	54.86	0.079				
11/30/2006	54.94	0.080				
12/1/2006	55.02	0.081				
12/2/2006						
12/3/2006						
12/4/2006	55.06	0.012				
12/5/2006	55.13	0.066	0.09	42.90	1.190	
12/6/2006	55.21	0.078				
12/7/2006	55.29	0.081				
12/8/2006	55.37	0.083				
12/9/2006						
12/10/2006						
12/11/2006	55.40	0.010				
12/12/2006	55.48	0.081	0.18	33.10	1.060	
12/13/2006	55.56	0.081				
12/14/2006	55.64	0.082				
12/15/2006	55.73	0.083				
12/16/2006						
12/17/2006						
12/18/2006	55.76	0.010				
12/19/2006	55.84	0.082				
12/20/2006	55.92	0.082	0.35	30.30	0.230	
12/21/2006	56.01	0.084				
12/22/2006	56.09	0.089				
12/23/2006						
12/24/2006						
12/25/2006						
12/26/2006	56.12	0.006				
12/27/2006	56.20	0.085				
12/28/2006	56.29	0.087	0.49	25.20	0.546	
12/29/2006	56.37	0.085				
12/30/2006						
12/31/2006						
1/1/2007						
1/2/2007	56.39	0.005				
1/3/2007	56.40	0.006				
1/4/2007	56.49	0.086	0.30	32.00	0.311	
1/5/2007	56.57	0.085				
1/6/2007						
1/7/2007						
1/8/2007	56.83	0.086				
1/9/2007	56.92	0.088	0.12	22.60	0.121	
1/10/2007	57.00	0.086				
1/11/2007	57.09	0.085				
1/12/2007	57.17	0.086				
1/13/2007						
1/14/2007						
1/15/2007	57.44	0.088				
1/16/2007	57.52	0.086	0.08	24.90	0.138	
1/17/2007	57.61	0.085				
1/18/2007	57.70	0.088				
1/19/2007	57.78	0.088				
1/20/2007						
1/21/2007						
1/22/2007	57.81	0.010				
1/23/2007	57.90	0.086	0.46	26.20	0.433	

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
1/24/2007	57.98	0.085				
1/25/2007	58.07	0.085				
1/26/2007	58.15	0.084				
1/27/2007						
1/28/2007						
1/29/2007	58.18	0.008				
1/30/2007	58.18	0.002				
1/31/2007	58.18	0.001				
2/1/2007	58.18	0.001				
2/2/2007	58.18	0.001				
2/3/2007						
2/4/2007						
2/5/2007	58.18	0.001				
2/6/2007	58.18	0.000				
2/7/2007	58.19	0.005				
2/8/2007	58.27	0.086	0.50	30.90	0.568	
2/9/2007	58.36	0.085				
2/10/2007						
2/11/2007						
2/12/2007	58.39	0.009				
2/13/2007	58.47	0.088	0.33	26.00	0.161	
2/14/2007	58.56	0.087				
2/15/2007	58.66	0.099				
2/16/2007	58.74	0.078				
2/17/2007						
2/18/2007						
2/19/2007	59.00	0.089				
2/20/2007	59.10	0.091	0.48	26.60	0.140	
2/21/2007	59.18	0.089				
2/22/2007	59.28	0.096				
2/23/2007	59.36	0.083				
2/24/2007						
2/25/2007						
2/26/2007	59.63	0.089				
2/27/2007	59.72	0.089	0.37	27.60		
2/28/2007	59.81	0.089				
3/1/2007	59.90	0.088				
3/2/2007	59.99	0.090				
3/3/2007						
3/4/2007						
3/5/2007	60.01	0.009				
3/6/2007	60.10	0.092	0.02	31.90	0.125	
3/7/2007	60.19	0.085				
3/8/2007	60.27	0.085				
3/9/2007	60.37	0.095				
3/10/2007						
3/11/2007						
3/12/2007	60.64	0.092				
3/13/2007	60.73	0.091	0.01	31.20	0.151	
3/14/2007	60.82	0.089				
3/15/2007	60.92	0.092				
3/16/2007	61.01	0.090				
3/17/2007						
3/18/2007						
3/19/2007	61.28	0.092				
3/20/2007	61.37	0.092	0.01	22.90	0.154	

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
3/21/2007	61.47	0.096				
3/22/2007	61.56	0.094				
3/23/2007	61.65	0.087				
3/24/2007						
3/25/2007						
3/26/2007	61.93	0.093				
3/27/2007	62.02	0.094	0.01	28.00	0.496	
3/28/2007	62.04	0.022				
3/29/2007						
3/30/2007						
3/31/2007						
4/1/2007						
4/2/2007	62.04	0.000				
4/3/2007						
4/4/2007						
4/5/2007						
4/6/2007						
4/7/2007						
4/8/2007						
4/9/2007	62.04					
4/10/2007	62.12	0.081	0.16	37.80	0.556	
4/11/2007	62.22	0.093				
4/12/2007	62.31	0.090				
4/13/2007	62.40	0.089				
4/14/2007						
4/15/2007						
4/16/2007	62.67	0.090				
4/17/2007	62.76	0.090	0.16	34.70	0.280	
4/18/2007	62.84	0.089				
4/19/2007	62.93	0.090				
4/20/2007	63.02	0.091				
4/21/2007						
4/22/2007						
4/23/2007	63.30	0.092				
4/24/2007	63.39	0.091	0.17	35.90	0.113	
4/25/2007	63.48	0.090				
4/26/2007	63.57	0.091				
4/27/2007	63.66	0.092				
4/28/2007						
4/29/2007						
4/30/2007						
5/1/2007						
5/2/2007						
5/3/2007						
5/4/2007						
5/5/2007						
5/6/2007						
5/7/2007						
5/8/2007						
5/9/2007						
5/10/2007						
5/11/2007						
5/12/2007						
5/13/2007						
5/14/2007						
5/15/2007						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
5/16/2007						
5/17/2007						
5/18/2007						
5/19/2007						
5/20/2007						
5/21/2007						
5/22/2007						
5/23/2007						
5/24/2007						
5/25/2007						
5/26/2007						
5/27/2007						
5/28/2007						
5/29/2007						
5/30/2007						
5/31/2007						
6/1/2007						
6/2/2007						
6/3/2007						
6/4/2007						
6/5/2007						
6/6/2007						
6/7/2007						
6/8/2007						
6/9/2007						
6/10/2007						
6/11/2007						
6/12/2007						
6/13/2007						
6/14/2007						
6/15/2007						
6/16/2007						
6/17/2007						
6/18/2007						
6/19/2007						
6/20/2007						
6/21/2007						
6/22/2007						
6/23/2007						
6/24/2007						
6/25/2007						
6/26/2007						
6/27/2007						
6/28/2007						
6/29/2007						
6/30/2007						
7/1/2007						
7/2/2007						
7/3/2007						
7/4/2007						
7/5/2007						
7/6/2007						
7/7/2007						
7/8/2007						
7/9/2007						
7/10/2007						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
7/11/2007						
7/12/2007						
7/13/2007						
7/14/2007						
7/15/2007						
7/16/2007						
7/17/2007						
7/18/2007						
7/19/2007						
7/20/2007						
7/21/2007						
7/22/2007						
7/23/2007						
7/24/2007						
7/25/2007						
7/26/2007						
7/27/2007						
7/28/2007						
7/29/2007						
7/30/2007						
7/31/2007						
8/1/2007						
8/2/2007						
8/3/2007						
8/4/2007						
8/5/2007						
8/6/2007						
8/7/2007						
8/8/2007						
8/9/2007						
8/10/2007						
8/11/2007						
8/12/2007						
8/13/2007						
8/14/2007						
8/15/2007						
8/16/2007						
8/17/2007						
8/18/2007						
8/19/2007						
8/20/2007						
8/21/2007						
8/22/2007						
8/23/2007						
8/24/2007						
8/25/2007						
8/26/2007						
8/27/2007						
8/28/2007						
8/29/2007						
8/30/2007						
8/31/2007						
9/1/2007						
9/2/2007						
9/3/2007						
9/4/2007						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
9/5/2007						
9/6/2007						
9/7/2007						
9/8/2007						
9/9/2007						
9/10/2007						
9/11/2007						
9/12/2007						
9/13/2007						
9/14/2007						
9/15/2007						
9/16/2007						
9/17/2007						
9/18/2007						
9/19/2007						
9/20/2007						
9/21/2007						
9/22/2007						
9/23/2007						
9/24/2007						
9/25/2007						
9/26/2007						
9/27/2007						
9/28/2007						
9/29/2007						
9/30/2007						
10/1/2007						
10/2/2007						
10/3/2007						
10/4/2007						
10/5/2007						
10/6/2007						
10/7/2007						
10/8/2007						
10/9/2007						
10/10/2007						
10/11/2007						
10/12/2007						
10/13/2007						
10/14/2007						
10/15/2007						
10/16/2007						
10/17/2007						
10/18/2007						
10/19/2007						
10/20/2007						
10/21/2007						
10/22/2007						
10/23/2007						
10/24/2007						
10/25/2007						
10/26/2007						
10/27/2007						
10/28/2007						
10/29/2007						
10/30/2007						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
10/31/2007						
11/1/2007						
11/2/2007						
11/3/2007						
11/4/2007						
11/5/2007						
11/6/2007						
11/7/2007						
11/8/2007						
11/9/2007						
11/10/2007						
11/11/2007						
11/12/2007						
11/13/2007						
11/14/2007						
11/15/2007						
11/16/2007						
11/17/2007						
11/18/2007						
11/19/2007						
11/20/2007						
11/21/2007						
11/22/2007						
11/23/2007						
11/24/2007						
11/25/2007						
11/26/2007						
11/27/2007						
11/28/2007						
11/29/2007						
11/30/2007						
12/1/2007						
12/2/2007	76.74					
12/3/2007	76.74	0.004				
12/4/2007	76.83	0.093				
12/5/2007	76.94	0.104				
12/6/2007	77.05	0.111	0.04	39.60	0.281	
12/7/2007	77.16	0.110				
12/8/2007						
12/9/2007						
12/10/2007	77.20	0.040				
12/11/2007	77.29	0.097				
12/12/2007	77.40	0.107	0.05	38.40	0.203	
12/13/2007	77.51	0.112				
12/14/2007	77.61	0.100				
12/15/2007						
12/16/2007						
12/17/2007	77.65	0.013				
12/18/2007	77.74	0.087				
12/19/2007	77.77	0.029				
12/20/2007	77.77	0.000				
12/21/2007	77.86	0.093	0.02	35.90	0.380	
12/22/2007						
12/23/2007						
12/24/2007	77.90	0.013				
12/25/2007						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
12/26/2007	77.93	0.016				
12/27/2007	77.93	0.000				
12/28/2007	77.96	0.033				
12/29/2007						
12/30/2007						
12/31/2007	77.99	0.009				
1/1/2008						
1/2/2008	78.02	0.015				
1/3/2008	78.14	0.121				
1/4/2008	78.26	0.119	0.11	31.70	0.505	
1/5/2008						
1/6/2008						
1/7/2008	78.62	0.120				
1/8/2008	78.73	0.109				
1/9/2008	78.85	0.120				
1/10/2008	78.96	0.118	0.09	29.80	0.155	
1/11/2008	79.08	0.117				
1/12/2008						
1/13/2008						
1/14/2008	79.44	0.121				
1/15/2008	79.57	0.126				
1/16/2008	79.69	0.115				
1/17/2008	79.80	0.118	0.21	29.60	0.254	
1/18/2008	79.92	0.116				
1/19/2008						
1/20/2008						
1/21/2008	79.94	0.007				
1/22/2008	79.94	0.000				
1/23/2008	79.94	0.000				
1/24/2008	79.94	0.000				
1/25/2008	79.94	0.000				
1/26/2008						
1/27/2008						
1/28/2008	79.94	0.000				
1/29/2008	79.94	0.000				
1/30/2008	79.94	0.000				
1/31/2008	79.94	0.000				
2/1/2008	79.94	0.000				
2/2/2008						
2/3/2008						
2/4/2008	79.94	0.000				
2/5/2008	80.04	0.100				
2/6/2008	80.16	0.117				
2/7/2008	80.28	0.122	0.12	29.20	2.330	
2/8/2008	80.40	0.116				
2/9/2008						
2/10/2008						
2/11/2008	80.76	0.120				
2/12/2008	80.87	0.115				
2/13/2008	80.99	0.122				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
2/14/2008	81.12	0.124	0.11	31.90	1.650	
2/15/2008	81.23	0.118				
2/16/2008						
2/17/2008						
2/18/2008	81.60	0.121				
2/19/2008	81.72	0.121				
2/20/2008	81.84	0.119				
2/21/2008	81.96	0.123	0.18	31.40	2.410	
2/22/2008	82.08	0.123				
2/23/2008						
2/24/2008						
2/25/2008	82.46	0.125				
2/26/2008	82.57	0.119				
2/27/2008	82.70	0.128	0.18	35.80	2.300	
2/28/2008	82.73	0.029				
2/29/2008	82.73	0.000				
3/1/2008						
3/2/2008						
3/3/2008	82.73	0.000				
3/4/2008	82.73	0.000				
3/5/2008	82.73	0.000				
3/6/2008	82.73	0.000				
3/7/2008	82.73	0.000				
3/8/2008						
3/9/2008						
3/10/2008	82.73	0.000				
3/11/2008	82.73	0.000				
3/12/2008	82.73	0.000				
3/13/2008	82.73	0.000				
3/14/2008	82.73	0.000				
3/15/2008						
3/16/2008						
3/17/2008	82.73	0.000				
3/18/2008	82.73	0.000				
3/19/2008	82.73	0.000				
3/20/2008	82.73	0.000				
3/21/2008	82.73	0.000				
3/22/2008						
3/23/2008						
3/24/2008	82.73	0.000				
3/25/2008	82.73	0.000				
3/26/2008	82.73	0.000				
3/27/2008	82.73	0.000				
3/28/2008	82.73	0.000				
3/29/2008						
3/30/2008						
3/31/2008	82.73					
4/1/2008	82.73	0.000				
4/2/2008	82.83	0.094				
4/3/2008	82.93	0.106	0.06	39.80	1.820	

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
4/4/2008	83.04	0.110				
4/5/2008						
4/6/2008						
4/7/2008	83.37	0.109				
4/8/2008	83.48	0.111				
4/9/2008	83.59	0.111				
4/10/2008	83.70	0.110	0.20	32.00	0.925	
4/11/2008	83.82	0.114				
4/12/2008						
4/13/2008						
4/14/2008	83.85	0.010				
4/15/2008	83.95	0.108				
4/16/2008	84.06	0.110				
4/17/2008	84.18	0.115	0.20	31.80	1.500	
4/18/2008	84.29	0.114				
4/19/2008						
4/20/2008						
4/21/2008	84.33	0.011				
4/22/2008	84.43	0.105				
4/23/2008	84.54	0.111				
4/24/2008	84.66	0.116	0.13	36.40	0.780	
4/25/2008	84.77	0.108				
4/26/2008						
4/27/2008						
4/28/2008	84.80	0.012				
4/29/2008	84.80	0.000				
4/30/2008	84.85	0.050				
5/1/2008	84.95	0.100	0.11	37.40	0.879	
5/2/2008	85.06	0.105				
5/3/2008						
5/4/2008						
5/5/2008	85.09	0.011				
5/6/2008	85.18	0.093				
5/7/2008	85.29	0.107				
5/8/2008	85.39	0.101	0.19	33.90	0.308	
5/9/2008	85.49	0.100				
5/10/2008						
5/11/2008						
5/12/2008	85.52	0.009				
5/13/2008	85.52	0.000				
5/14/2008	85.52	0.000				
5/15/2008	85.52	0.000				
5/16/2008	85.52	0.000				
5/17/2008						
5/18/2008						
5/19/2008	85.52	0.000				
5/20/2008	85.62	0.099				
5/21/2008	85.72	0.100				
5/22/2008	85.82	0.102	0.11	34.60	0.148	
5/23/2008	85.92	0.099				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
5/24/2008						
5/25/2008						
5/26/2008	85.95	0.010				
5/27/2008	86.04	0.097				
5/28/2008	86.15	0.103				
5/29/2008	86.25	0.100	0.09	35.90	0.206	
5/30/2008	86.34	0.099				
5/31/2008						
6/1/2008						
6/2/2008	86.36	0.005				
6/3/2008	86.36	0.000				
6/4/2008	86.36	0.000				
6/5/2008	86.36	0.000				
6/6/2008	86.36	0.000				
6/7/2008						
6/8/2008						
6/9/2008	86.36	0.000				
6/10/2008	86.36	0.000				
6/11/2008	86.36	0.000				
6/12/2008	86.36	0.000				
6/13/2008	86.36	0.000				
6/14/2008						
6/15/2008						
6/16/2008	86.36	0.000				
6/17/2008	86.36	0.000				
6/18/2008	86.36	0.000				
6/19/2008	86.36	0.000				
6/20/2008	86.36	0.000				
6/21/2008						
6/22/2008						
6/23/2008	86.36	0.000				
6/24/2008	86.36	0.000				
6/25/2008	86.36	0.000				
6/26/2008	86.36	0.000				
6/27/2008	86.36	0.000				
6/28/2008						
6/29/2008						
6/30/2008	86.36	0.000				
7/1/2008	86.36	0.000				
7/2/2008	86.36	0.000				
7/3/2008	86.36	0.000				
7/4/2008		0.000				
7/5/2008		0.000				
7/6/2008		0.000				
7/7/2008	86.36	0.000				
7/8/2008	86.36	0.000				
7/9/2008	86.36	0.000				
7/10/2008	86.36	0.000				
7/11/2008	86.36	0.000				
7/12/2008		0.000				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
7/13/2008		0.000				
7/14/2008	86.36	0.000				
7/15/2008	86.36	0.000				
7/16/2008	86.36	0.000				
7/17/2008	86.36	0.000				
7/18/2008	86.36	0.000				
7/19/2008		0.000				
7/20/2008		0.000				
7/21/2008	86.36	0.000				
7/22/2008	86.36	0.000				
7/23/2008	86.36	0.000				
7/24/2008	86.36	0.000				
7/25/2008	86.36	0.000				
7/26/2008		0.000				
7/27/2008		0.000				
7/28/2008	86.36	0.000				
7/29/2008	86.36	0.000				
7/30/2008	86.36	0.000				
7/31/2008	86.36	0.000				
8/1/2008	86.36	0.000				
8/2/2008		0.000				
8/3/2008		0.000				
8/4/2008	86.36	0.000				
8/5/2008	86.46	0.101				
8/6/2008	86.56	0.095				
8/7/2008	86.66	0.102	0.01	61.80	0.183	
8/8/2008	86.76	0.103				
8/9/2008		0.011				
8/10/2008		0.011				
8/11/2008	86.79	0.011				
8/12/2008	86.90	0.103				
8/13/2008	87.00	0.106				
8/14/2008	87.11	0.104	0.01	59.00	0.222	
8/15/2008	87.22	0.109				
8/16/2008		0.010				
8/17/2008		0.010				
8/18/2008	87.25	0.010				
8/19/2008	87.35	0.099				
8/20/2008	87.45	0.105				
8/21/2008	87.56	0.106	0.03	56.50	2.580	
8/22/2008	87.66	0.105				
8/23/2008		0.012				
8/24/2008		0.012				
8/25/2008	87.70	0.012				
8/26/2008	87.81	0.110				
8/27/2008	87.85	0.047				
8/28/2008	87.93	0.073	0.02	60.20	4.970	
8/29/2008	88.01	0.083				
8/30/2008						
8/31/2008						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
9/1/2008		0.007				
9/2/2008	88.04	0.006				
9/3/2008	88.11	0.079				
9/4/2008	88.21	0.098	0.02	48.70	2.700	
9/5/2008	88.32	0.110				
9/6/2008		0.103	0.03			
9/7/2008		0.103				
9/8/2008	88.63	0.103				
9/9/2008	88.74	0.107				
9/10/2008	88.84	0.106				
9/11/2008	88.94	0.101	0.04	80.30	1.570	
9/12/2008	89.04	0.097				
9/13/2008		0.010				
9/14/2008		0.010				
9/15/2008	89.07	0.010				
9/16/2008	89.16	0.089	0.04	64.60	0.319	
9/17/2008	89.27	0.110				
9/18/2008	89.38	0.109				
9/19/2008	89.49	0.112				
9/20/2008		0.012				
9/21/2008		0.012				
9/22/2008	89.53	0.012				
9/23/2008	89.63	0.105				
9/24/2008	89.74	0.110				
9/25/2008	89.85	0.111	0.04	31.80	0.830	
9/26/2008	89.96	0.103				
9/27/2008		0.011				
9/28/2008		0.011				
9/29/2008	89.99	0.011				
9/30/2008	90.09	0.103				
10/1/2008	90.20	0.111				
10/2/2008	90.31	0.105	0.19	34.60	1.150	
10/3/2008	90.42	0.109				
10/4/2008		0.010				
10/5/2008		0.010				
10/6/2008	90.45	0.010				
10/7/2008	90.56	0.110				
10/8/2008	90.66	0.106				
10/9/2008	90.77	0.109	0.32	53.80	2.810	
10/10/2008	90.88	0.108				
10/11/2008		0.010				
10/12/2008		0.010				
10/13/2008	90.91	0.010				
10/14/2008	91.01	0.105				
10/15/2008	91.13	0.113				
10/16/2008	91.23	0.098	0.42	73.40	14.800	
10/17/2008	91.33	0.108				
10/18/2008		0.011				
10/19/2008		0.011				
10/20/2008	91.37	0.011				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
10/21/2008	91.47	0.103				
10/22/2008	91.58	0.110				
10/23/2008	91.61	0.031				
10/24/2008	91.61	0.000				
10/25/2008		0.004				
10/26/2008		0.004				
10/27/2008	91.62	0.004				
10/28/2008	91.62	0.000				
10/29/2008	91.62	0.000				
10/30/2008	91.62	0.000				
10/31/2008	91.62	0.000				
11/1/2008		0.000				
11/2/2008		0.000				
11/3/2008	91.62	0.000				
11/4/2008	91.62	0.000				
11/5/2008	91.62	0.000				
11/6/2008	91.62	0.000				
11/7/2008	91.62	0.000				
11/8/2008		0.000				
11/9/2008		0.000				
11/10/2008	91.62	0.000				
11/11/2008	91.62	0.001				
11/12/2008	91.73	0.109				
11/13/2008	91.84	0.111				
11/14/2008	91.95	0.105	0.33	40.30	12.100	
11/15/2008		0.042				
11/16/2008		0.042				
11/17/2008	92.08	0.042				
11/18/2008	92.17	0.099				
11/19/2008	92.29	0.116				
11/20/2008	92.40	0.111				
11/21/2008	92.51	0.106				
11/22/2008		0.102				
11/23/2008		0.102				
11/24/2008	92.81	0.102				
11/25/2008	92.81	0.000				
11/26/2008	92.81	0.000				
11/27/2008	92.81	0.000				
11/28/2008	92.81	0.000				
11/29/2008		0.000				
11/30/2008	92.81					
12/1/2008	92.81	0.000				
12/2/2008						
12/3/2008						
12/4/2008						
12/5/2008						
12/6/2008						
12/7/2008						
12/8/2008						
12/9/2008						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
12/10/2008						
12/11/2008						
12/12/2008						
12/13/2008						
12/14/2008						
12/15/2008						
12/16/2008						
12/17/2008						
12/18/2008						
12/19/2008						
12/20/2008						
12/21/2008						
12/22/2008						
12/23/2008						
12/24/2008						
12/25/2008						
12/26/2008						
12/27/2008						
12/28/2008						
12/29/2008						
12/30/2008						
12/31/2008						
1/1/2009						
1/2/2009	92.81					
1/3/2009						
1/4/2009						
1/5/2009	92.81	0.000				
1/6/2009	92.81	0.000				
1/7/2009	92.81	0.000				
1/8/2009	92.81	0.000				
1/9/2009	92.81	0.000				
1/10/2009						
1/11/2009						
1/12/2009	92.81	0.000				
1/13/2009	92.81	0.000				
1/14/2009	92.81	0.000				
1/15/2009	92.81	0.000				
1/16/2009	92.81	0.000				
1/17/2009						
1/18/2009						
1/19/2009	92.81					
1/20/2009	92.81	0.000				
1/21/2009	92.88	0.069				
1/22/2009	92.99	0.106	0.03	16.10	0.253	
1/23/2009	93.08	0.093				
1/24/2009		0.950				
1/25/2009		0.113				
1/26/2009	93.37	0.113				
1/27/2009	93.48	0.113	0.04	10.70	0.566	
1/28/2009	93.57	0.089				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
1/29/2009	93.67	0.101				
1/30/2009	93.77	0.096				
1/31/2009		0.094				
2/1/2009		0.094				
2/2/2009	94.05	0.094				
2/3/2009	94.16	0.107	0.02	6.82	0.096	
2/4/2009	94.26	0.100				
2/5/2009	94.37	0.117				
2/6/2009	94.48	0.108				
2/7/2009		0.105				
2/8/2009		0.105				
2/9/2009	94.80	0.105				
2/10/2009	94.91	0.119				
2/11/2009	95.02	0.102				
2/12/2009	95.12	0.106				
2/13/2009	95.25	0.123	0.05	9.60	0.544	
2/14/2009		0.098				
2/15/2009		0.098				
2/16/2009	95.54	0.098				
2/17/2009	95.66	0.124	0.06	9.85	0.380	
2/18/2009	95.76	0.099				
2/19/2009	95.88	0.120				
2/20/2009	95.99	0.111				
2/21/2009		0.105				
2/22/2009		0.105				
2/23/2009	96.31	0.105				
2/24/2009	96.43	0.123	0.08	11.50	1.010	
2/25/2009	96.55	0.114				
2/26/2009	96.66	0.111				
2/27/2009	96.78	0.127				
2/28/2009		0.112				
3/1/2009		0.112				
3/2/2009	97.12	0.112				
3/3/2009	97.23	0.113	0.28	13.20	0.142	
3/4/2009	97.33	0.100				
3/5/2009	97.46	0.123				
3/6/2009	97.57	0.117				
3/7/2009		0.122				
3/8/2009		0.122				
3/9/2009	97.94	0.122				
3/10/2009	97.97	0.028	0.39	14.40	0.266	
3/11/2009	98.06	0.095				
3/12/2009	98.19	0.133				
3/13/2009	98.31	0.120				
3/14/2009		0.065				
3/15/2009		0.065				
3/16/2009	98.51	0.065				
3/17/2009	98.60	0.096	0.18	19.40	0.698	
3/18/2009	98.68	0.075				
3/19/2009	98.71	0.035				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
3/20/2009	98.71	0.000				
3/21/2009		0.093				
3/22/2009		0.093				
3/23/2009	98.99	0.093				
3/24/2009	98.99	0.000				
3/25/2009	98.99	0.000				
3/26/2009	98.99	0.000				
3/27/2009	98.99	0.000				
3/28/2009	98.99	0.000				
3/29/2009	98.99	0.000				
3/30/2009	98.99	0.000				
3/31/2009	98.99	0.000				
4/1/2009						
4/2/2009						
4/3/2009						
4/4/2009						
4/5/2009						
4/6/2009						
4/7/2009						
4/8/2009						
4/9/2009						
4/10/2009						
4/11/2009						
4/12/2009						
4/13/2009						
4/14/2009						
4/15/2009						
4/16/2009						
4/17/2009						
4/18/2009						
4/19/2009						
4/20/2009						
4/21/2009						
4/22/2009						
4/23/2009						
4/24/2009						
4/25/2009						
4/26/2009						
4/27/2009						
4/28/2009						
4/29/2009						
4/30/2009						
5/1/2009						
5/2/2009						
5/3/2009						
5/4/2009						
5/5/2009						
5/6/2009						
5/7/2009						
5/8/2009						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
5/9/2009						
5/10/2009						
5/11/2009						
5/12/2009						
5/13/2009						
5/14/2009						
5/15/2009						
5/16/2009						
5/17/2009						
5/18/2009						
5/19/2009						
5/20/2009						
5/21/2009						
5/22/2009						
5/23/2009						
5/24/2009						
5/25/2009						
5/26/2009						
5/27/2009						
5/28/2009						
5/29/2009						
5/30/2009						
5/31/2009						
6/1/2009						
6/2/2009						
6/3/2009						
6/4/2009						
6/5/2009						
6/6/2009						
6/7/2009						
6/8/2009						
6/9/2009						
6/10/2009						
6/11/2009						
6/12/2009						
6/13/2009						
6/14/2009						
6/15/2009						
6/16/2009						
6/17/2009						
6/18/2009						
6/19/2009						
6/20/2009						
6/21/2009						
6/22/2009						
6/23/2009						
6/24/2009						
6/25/2009						
6/26/2009						
6/27/2009						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
6/28/2009						
6/29/2009						
6/30/2009						
7/1/2009						
7/2/2009						
7/3/2009						
7/4/2009						
7/5/2009						
7/6/2009						
7/7/2009						
7/8/2009						
7/9/2009						
7/10/2009						
7/11/2009						
7/12/2009						
7/13/2009						
7/14/2009						
7/15/2009						
7/16/2009						
7/17/2009						
7/18/2009						
7/19/2009						
7/20/2009						
7/21/2009						
7/22/2009						
7/23/2009						
7/24/2009						
7/25/2009						
7/26/2009						
7/27/2009						
7/28/2009						
7/29/2009						
7/30/2009						
7/31/2009						
8/1/2009						
8/2/2009						
8/3/2009						
8/4/2009						
8/5/2009						
8/6/2009						
8/7/2009						
8/8/2009						
8/9/2009						
8/10/2009						
8/11/2009						
8/12/2009						
8/13/2009						
8/14/2009						
8/15/2009						
8/16/2009						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
8/17/2009						
8/18/2009						
8/19/2009						
8/20/2009						
8/21/2009						
8/22/2009						
8/23/2009						
8/24/2009						
8/25/2009						
8/26/2009						
8/27/2009						
8/28/2009						
8/29/2009						
8/30/2009						
8/31/2009						
9/1/2009						
9/2/2009						
9/3/2009						
9/4/2009						
9/5/2009						
9/6/2009						
9/7/2009						
9/8/2009						
9/9/2009						
9/10/2009						
9/11/2009						
9/12/2009						
9/13/2009						
9/14/2009						
9/15/2009						
9/16/2009						
9/17/2009						
9/18/2009						
9/19/2009						
9/20/2009						
9/21/2009						
9/22/2009						
9/23/2009						
9/24/2009						
9/25/2009						
9/26/2009						
9/27/2009						
9/28/2009						
9/29/2009						
9/30/2009						
10/1/2009						
10/2/2009						
10/3/2009						
10/4/2009						
10/5/2009						

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
10/6/2009						
10/7/2009						
10/8/2009						
10/9/2009						
10/10/2009						
10/11/2009						
10/12/2009						
10/13/2009						
10/14/2009						
10/15/2009						
10/16/2009						
10/17/2009						
10/18/2009						
10/19/2009						
10/20/2009						
10/21/2009						
10/22/2009						
10/23/2009						
10/24/2009						
10/25/2009						
10/26/2009						
10/27/2009						
10/28/2009						
10/29/2009						
10/30/2009						
10/31/2009						
11/1/2009	98.99	0.000				
11/2/2009	98.99	0.000				
11/3/2009	98.99	0.000				
11/4/2009	98.99	0.000				
11/5/2009	98.99	0.000				
11/6/2009	98.99	0.000				
11/7/2009	98.99	0.000				
11/8/2009	98.99	0.000				
11/9/2009	98.99	0.000				
11/10/2009	98.99	0.000				
11/11/2009	98.99	0.000				
11/12/2009	98.99	0.000				
11/13/2009	98.99	0.000				
11/14/2009	98.99	0.000				
11/15/2009	98.99	0.000				
11/16/2009	98.99	0.000				
11/17/2009	98.99	0.000				
11/18/2009	98.99	0.001				
11/19/2009	99.00	0.005				
11/20/2009	99.09	0.093				
11/21/2009		0.078				
11/22/2009		0.078				
11/23/2009	99.33	0.078				
11/24/2009	99.44	0.110				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
11/25/2009	99.54	0.106				
11/26/2009	99.72	0.182	0.05	13.90	1.100	
11/27/2009	100.05	0.330				
11/28/2009		0.032				
11/29/2009		0.032				
11/30/2009	100.15	0.032				
12/1/2009	100.15	0.100	0.04	11.40	0.374	
12/2/2009	100.26	0.109				
12/3/2009	100.37	0.108				
12/4/2009	100.46	0.090				
12/5/2009		0.104				
12/6/2009		0.104				
12/7/2009	2.75	0.104				
12/8/2009	2.85	0.100	0.07	8.60	0.852	
12/9/2009	2.95	0.104				
12/10/2009	3.06	0.105				
12/11/2009	3.14	0.082				
12/12/2009		0.097				
12/13/2009		0.097				
12/14/2009	3.43	0.097				
12/15/2009	3.53	0.096	0.05	6.80	1.100	
12/16/2009	3.55	0.021				
12/17/2009	3.64	0.089				
12/18/2009	3.72	0.082				
12/19/2009		0.104				
12/20/2009		0.104				
12/21/2009	4.03	0.104	0.05	4.51	0.874	
12/22/2009	4.12	0.088				
12/23/2009	4.20	0.083				
12/24/2009	4.27	0.070				
12/25/2009		0.117				
12/26/2009		0.117				
12/27/2009		0.117				
12/28/2009	4.74	0.117	0.08			
12/29/2009	4.86	0.118		10.60	0.672	
12/30/2009		0.033				
12/31/2009	4.93	0.033				
1/1/2010	4.93	0.070				
1/2/2010		0.070				
1/3/2010		0.070				
1/4/2010	5.21	0.070				
1/5/2010	5.27	0.062	0.08	16.90	1.000	
1/6/2010	5.33	0.064				
1/7/2010	5.39	0.054				
1/8/2010	5.47	0.079				
1/9/2010		0.075				
1/10/2010		0.075				
1/11/2010	5.69	0.075				
1/12/2010	5.78	0.093	0.09	12.20	0.219	
1/13/2010	5.88	0.098				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
1/14/2010	5.98	0.095				
1/15/2010	6.05	0.071				
1/16/2010		0.098				
1/17/2010		0.098				
1/18/2010	6.34	0.098				
1/19/2010	6.44	0.102	0.09	15.70	0.358	
1/20/2010	6.56	0.114				
1/21/2010	6.66	0.109				
1/22/2010	104.48	94.040				
1/23/2010		0.079				
1/24/2010		0.079				
1/25/2010	104.72	0.079				
1/26/2010	104.82	0.106	0.07	22.40	0.609	
1/27/2010	104.92	0.102				
1/28/2010	105.02	0.093				
1/29/2010	105.14	0.120				
1/30/2010		0.000				
1/31/2010		0.000				
2/1/2010	105.14	0.000				
2/2/2010	105.14	0.000				
2/3/2010	105.14	0.000				
2/4/2010	105.14	0.000				
2/5/2010	105.14	0.000				
2/6/2010						
2/7/2010						
2/8/2010	105.36	0.074				
2/9/2010	105.47	0.105	0.15	17.20	0.487	
2/10/2010	105.51	0.043				
2/11/2010	105.52	0.014				
2/12/2010	105.62	0.094				
2/13/2010						
2/14/2010						
2/15/2010	105.89	0.092				
2/16/2010	105.98	0.093	0.09	12.70	0.720	
2/17/2010	105.99	0.010				
2/18/2010	105.99	0.000				
2/19/2010	106.08	0.083				
2/20/2010						
2/21/2010						
2/22/2010	106.38	0.101				
2/23/2010	106.38	0.004	0.01	2.84	0.699	
2/24/2010	106.38	0.000				
2/25/2010	106.46	0.071				
2/26/2010	106.55	0.094				
2/27/2010						
2/28/2010						
3/1/2010	106.89	0.115				
3/2/2010	107.00	0.111	0.20	20.00	1.320	
3/3/2010	107.10	0.096				
3/4/2010	107.23	0.132				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
3/5/2010	107.34	0.107				
3/6/2010		0.113				
3/7/2010		0.113				
3/8/2010	107.68	0.113				
3/9/2010	107.71	0.030	0.55	23.50	0.261	
3/10/2010	107.71	0.000				
3/11/2010	107.71	0.000				
3/12/2010	107.71	0.000				
3/13/2010		0.068				
3/14/2010		0.068				
3/15/2010	107.91	0.068				
3/16/2010	108.04	0.124	0.25	21.20	0.874	
3/17/2010	108.16	0.128				
3/18/2010	108.29	0.127				
3/19/2010	108.33	0.036				
3/20/2010		0.000				
3/21/2010		0.000				
3/22/2010	108.33	0.000				
3/23/2010	108.33	0.000				
3/24/2010	108.33	0.000				
3/25/2010	108.33	0.000				
3/26/2010	108.33	0.000				
3/27/2010	108.33	0.000				
3/28/2010	108.33	0.000				
3/29/2010	108.66	0.335				
3/30/2010	108.79	0.128	0.37	21.00	1.190	
3/31/2010	108.90	0.112				
4/1/2010	109.09	0.191				
4/2/2010	109.14	0.049				
4/3/2010		0.124				
4/4/2010		0.124				
4/5/2010	109.51	0.124				
4/6/2010	109.61	0.099				
4/7/2010	109.75	0.138				
4/8/2010	109.85	0.099	0.43	30.00	0.644	
4/9/2010	109.85	0.000				
4/10/2010		0.000				
4/11/2010		0.000				
4/12/2010	109.85	0.000				
4/13/2010	109.85	0.000				
4/14/2010	109.85	0.000				
4/15/2010	109.85	0.000				
4/16/2010	109.85	0.000				
4/17/2010	109.85	0.000				
4/18/2010	109.85	0.000				
4/19/2010	109.85	0.000				
4/20/2010	109.85	0.000				
4/21/2010	109.85	0.000				
4/22/2010	109.85	0.000				
4/23/2010	109.85	0.000				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
4/24/2010		0.099				
4/25/2010		0.099				
4/26/2010	110.15	0.099				
4/27/2010	110.26	0.116	0.23	32.70	0.935	
4/28/2010	110.38	0.118				
4/29/2010	110.45	0.072				
4/30/2010	110.53	0.078				
5/1/2010		0.030				
5/2/2010		0.030				
5/3/2010	110.62	0.030				
5/4/2010	110.62	0.000				
5/5/2010	110.62	0.000				
5/6/2010	110.64	0.022				
5/7/2010	110.75	0.104	0.34	26.50	0.879	
5/8/2010		0.109				
5/9/2010		0.109				
5/10/2010	111.07	0.109				
5/11/2010	111.18	0.105	0.32	30.90	0.778	
5/12/2010	111.29	0.110				
5/13/2010	111.41	0.123				
5/14/2010	111.52	0.112				
5/15/2010		0.098				
5/16/2010		0.098				
5/17/2010	111.82	0.098	0.50	31.40	0.600	
5/18/2010	111.82	0.000				
5/19/2010	111.82	0.000				
5/20/2010	111.82	0.000				
5/21/2010	111.82	0.000				
5/22/2010		0.093				
5/23/2010		0.093				
5/24/2010	112.09	0.093				
5/25/2010	112.20	0.102	0.04	36.50	0.844	
5/26/2010	112.25	0.056				
5/27/2010	112.36	0.108				
5/28/2010	112.46	0.101				
5/29/2010		0.092				
5/30/2010		0.092				
5/31/2010		0.092				
6/1/2010	112.83	0.092				
6/2/2010	112.92	0.089	0.41	37.40	1.060	
6/3/2010	113.01	0.091				
6/4/2010	113.10	0.091				
6/5/2010		0.091				
6/6/2010		0.091				
6/7/2010	113.37	0.091				
6/8/2010	113.46	0.086	0.63	38.70	1.580	
6/9/2010	113.56	0.107				
6/10/2010	113.64	0.080				
6/11/2010	113.65	0.010				
6/12/2010		0.081				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
6/13/2010		0.081				
6/14/2010	113.90	0.081				
6/15/2010	113.96	0.060	0.30	43.00	0.726	
6/16/2010	113.96	0.000				
6/17/2010	113.96	0.000				
6/18/2010	114.00	0.046				
6/19/2010		0.085				
6/20/2010		0.085				
6/21/2010		0.085				
6/22/2010	114.34	0.085				
6/23/2010	114.42	0.072	0.13	56.00	11.300	
6/24/2010	114.47	0.055				
6/25/2010	114.54	0.066				
6/26/2010		0.052				
6/27/2010		0.052				
6/28/2010	114.69	0.052				
6/29/2010	114.76	0.067				
6/30/2010	114.82	0.066				
7/1/2010		0.067				
7/2/2010	114.96	0.067				
7/3/2010		0.034				
7/4/2010		0.034				
7/5/2010		0.034				
7/6/2010	115.10	0.034				
7/7/2010	115.17	0.078				
7/8/2010	115.19	0.019	0.07	40.00	3.730	
7/9/2010	115.19	0.000				
7/10/2010		0.000				
7/11/2010		0.000				
7/12/2010	115.19	0.000				
7/13/2010	115.21	0.013				
7/14/2010	115.21	0.000				
7/15/2010	115.21	0.000				
7/16/2010	115.23	0.020				
7/17/2010		0.000				
7/18/2010		0.000				
7/19/2010	115.23	0.000				
7/20/2010	115.23	0.004				
7/21/2010	115.24	0.013				
7/22/2010	115.24	0.000				
7/23/2010	115.24	0.002				
7/24/2010		0.004				
7/25/2010		0.004				
7/26/2010	115.26	0.004				
7/27/2010	115.26	0.000				
7/28/2010	115.26	0.000				
7/29/2010	115.26	0.000				
7/30/2010	115.26	0.000				
7/31/2010		0.000				
8/1/2010	115.26	0.000				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
8/2/2010	115.26	0.000				
8/3/2010	115.26	0.000				
8/4/2010	115.26	0.000				
8/5/2010	115.26	0.000				
8/6/2010	115.26	0.000				
8/7/2010	115.26	0.000				
8/8/2010	115.26	0.000				
8/9/2010	115.26	0.000				
8/10/2010	115.26	0.000				
8/11/2010	115.26	0.000				
8/12/2010	115.26	0.000				
8/13/2010	115.26	0.000				
8/14/2010	115.26	0.000				
8/15/2010	115.26	0.000				
8/16/2010	115.26	0.000				
8/17/2010	115.26	0.000				
8/18/2010	115.26	0.000				
8/19/2010	115.26	0.000				
8/20/2010	115.26	0.000				
8/21/2010	115.26	0.000				
8/22/2010	115.26	0.000				
8/23/2010	115.26	0.000				
8/24/2010	115.26	0.000				
8/25/2010	115.26	0.000				
8/26/2010	115.26	0.000				
8/27/2010	115.26	0.000				
8/28/2010	115.26	0.000				
8/29/2010	115.26	0.000				
8/30/2010	115.26	0.000				
8/31/2010	115.26	0.000				
9/1/2010	115.26	0.000				
9/2/2010	115.26	0.000				
9/3/2010	115.26	0.000				
9/4/2010	115.26	0.000				
9/5/2010	115.26	0.000				
9/6/2010	115.26	0.000				
9/7/2010	115.26	0.000				
9/8/2010	115.26	0.000				
9/9/2010	115.26	0.000				
9/10/2010	115.26	0.000				
9/11/2010	115.26	0.000				
9/12/2010	115.26	0.000				
9/13/2010	115.26	0.000				
9/14/2010	115.26	0.000				
9/15/2010	115.26	0.000				
9/16/2010	115.26	0.000				
9/17/2010	115.26	0.000				
9/18/2010	115.26	0.000				
9/19/2010	115.26	0.000				
9/20/2010	115.26	0.000				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
9/21/2010	115.26	0.000				
9/22/2010	115.26	0.000				
9/23/2010	115.26	0.000				
9/24/2010	115.26	0.000				
9/25/2010	115.26	0.000				
9/26/2010	115.26	0.000				
9/27/2010	115.26	0.000				
9/28/2010	115.26	0.000				
9/29/2010	115.26	0.000				
9/30/2010	115.26	0.000				
10/1/2010	115.26	0.000				
10/2/2010		0.000				
10/3/2010		0.000				
10/4/2010	115.26	0.000				
10/5/2010	115.26	0.000				
10/6/2010	115.26	0.000				
10/7/2010	115.26	0.000				
10/8/2010	115.26	0.000				
10/9/2010		0.000				
10/10/2010		0.000				
10/11/2010	115.26	0.000				
10/12/2010	115.26	0.000				
10/13/2010	115.26	0.000				
10/14/2010	115.26	0.000				
10/15/2010	115.26	0.000				
10/16/2010		0.074				
10/17/2010		0.074				
10/18/2010	115.48	0.074				
10/19/2010	115.61	0.134	0.22	74.00	13.000	
10/20/2010	115.71	0.093				
10/21/2010	115.80	0.093				
10/22/2010	115.88	0.076				
10/23/2010		0.008				
10/24/2010		0.008				
10/25/2010	115.90	0.008				
10/26/2010	115.90	0.000				
10/27/2010	115.90	0.000				
10/28/2010	115.90	0.000				
10/29/2010	115.99	0.088	0.14	59.30	5.130	
10/30/2010		0.090				
10/31/2010		0.090				
11/1/2010	116.17	0.000				
11/2/2010	116.17	0.000				
11/3/2010	116.17	0.000				
11/4/2010	116.17	0.000				
11/5/2010	116.17	0.000				
11/6/2010		0.000				
11/7/2010		0.000				
11/8/2010	116.36	0.066				
11/9/2010	116.47	0.105				

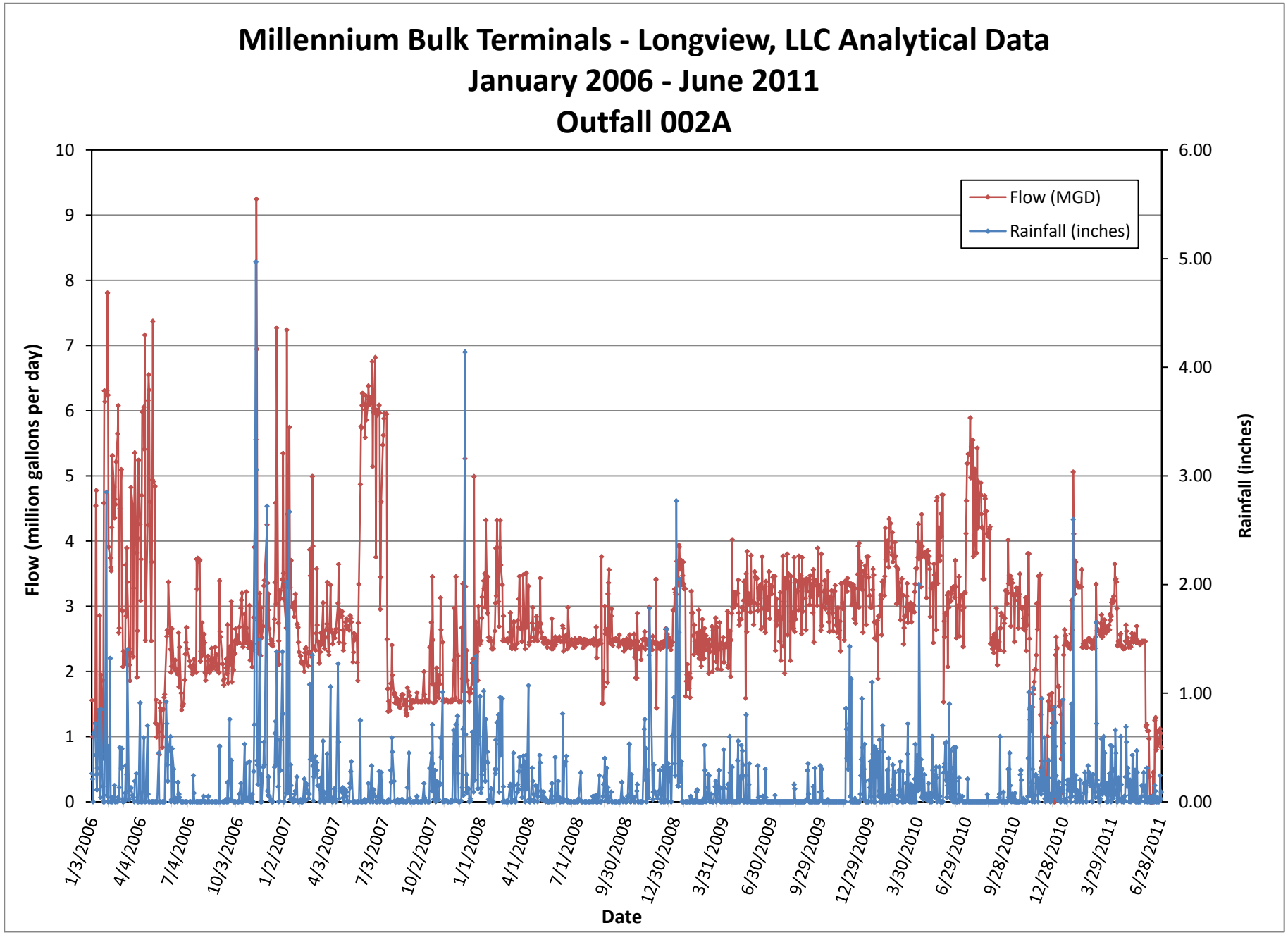
Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
11/10/2010	116.55	0.080	0.18	44.20	1.130	
11/11/2010	116.65	0.100				
11/12/2010	116.76	0.110				
11/13/2010		0.110				
11/14/2010		0.110				
11/15/2010	117.03	0.091				
11/16/2010	117.06	0.027				
11/17/2010	117.13	0.073	0.15	47.10	3.500	
11/18/2010	117.20	0.075				
11/19/2010	117.30	0.093				
11/20/2010		0.093				
11/21/2010		0.093				
11/22/2010	117.44	0.046				
11/23/2010	117.52	0.080				
11/24/2010	117.61	0.090				
11/25/2010		0.090	0.38	36.70	2.240	
11/26/2010	117.81	0.097				
11/27/2010		0.097				
11/28/2010		0.097				
11/29/2010	118.10	0.098				
11/30/2010	118.20	0.099				
12/1/2010	118.30	0.103				
12/2/2010	118.41	0.109				
12/3/2010	118.51	0.095				
12/4/2010		0.091				
12/5/2010		0.091				
12/6/2010	118.78	0.091				
12/7/2010	118.83	0.048				
12/8/2010	118.83	0.001				
12/9/2010	118.83	0.004				
12/10/2010	118.92	0.091				
12/11/2010		0.095				
12/12/2010		0.095				
12/13/2010	119.21	0.095				
12/14/2010	119.29	0.084	0.17	39.00	9.420	
12/15/2010	119.39	0.097				
12/16/2010	119.48	0.090				
12/17/2010	119.59	0.108				
12/18/2010		0.076				
12/19/2010		0.076				
12/20/2010	119.82	0.076				
12/21/2010	119.90	0.087	0.35	37.80	9.940	
12/22/2010	119.99	0.090				
12/23/2010	120.06	0.071				
12/24/2010	120.15	0.086				
12/25/2010		0.092				
12/26/2010		0.092				
12/27/2010	120.43	0.092				
12/28/2010	120.54	0.113	0.26	25.70	1.750	
12/29/2010	120.62	0.077				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
12/30/2010	120.70	0.082				
12/31/2010	120.79	0.094				
1/1/2011		0.084				
1/2/2011		0.091				
1/3/2011		0.094				
1/4/2011		0.091	0.309	25.6	10.3	
1/5/2011		0.091				
1/6/2011		0.090				
1/7/2011		0.090				
1/8/2011		0.089				
1/9/2011		0.088				
1/10/2011		0.086				
1/11/2011		0.085	0.116	34.5	13.5	
1/12/2011		0.088				
1/13/2011		0.090				
1/14/2011		0.087				
1/15/2011		0.090				
1/16/2011		0.092				
1/17/2011		0.085				
1/18/2011		0.067	0.674	24.6	17.8	
1/19/2011		0.093				
1/20/2011		0.093				
1/21/2011		0.092				
1/22/2011		0.088				
1/23/2011		0.079				
1/24/2011		0.079				
1/25/2011		0.071	0.3	19	5.51	
1/26/2011		0.073				
1/27/2011		0.073				
1/28/2011		0.076				
1/29/2011		0.091				
1/30/2011		0.090				
1/31/2011		0.090				
2/1/2011		0.091	0.4	23.2	5	
2/2/2011		0.085				
2/3/2011		0.085				
2/4/2011		0.088				
2/5/2011		0.088				
2/6/2011		0.088				
2/7/2011		0.086				
2/8/2011		0.085	0.0837	32.9	4.1	
2/9/2011		0.088				
2/10/2011		0.089				
2/11/2011		0.091				
2/12/2011		0.090				
2/13/2011		0.090				
2/14/2011		0.082				
2/15/2011		0.075	0.24	35.3	5.76	
2/16/2011		0.055				
2/17/2011		0.046				
2/18/2011		0.059				
2/19/2011		0.060				
2/20/2011		0.008				
2/21/2011		0.000				
2/22/2011		0.000				
2/23/2011		0.000				

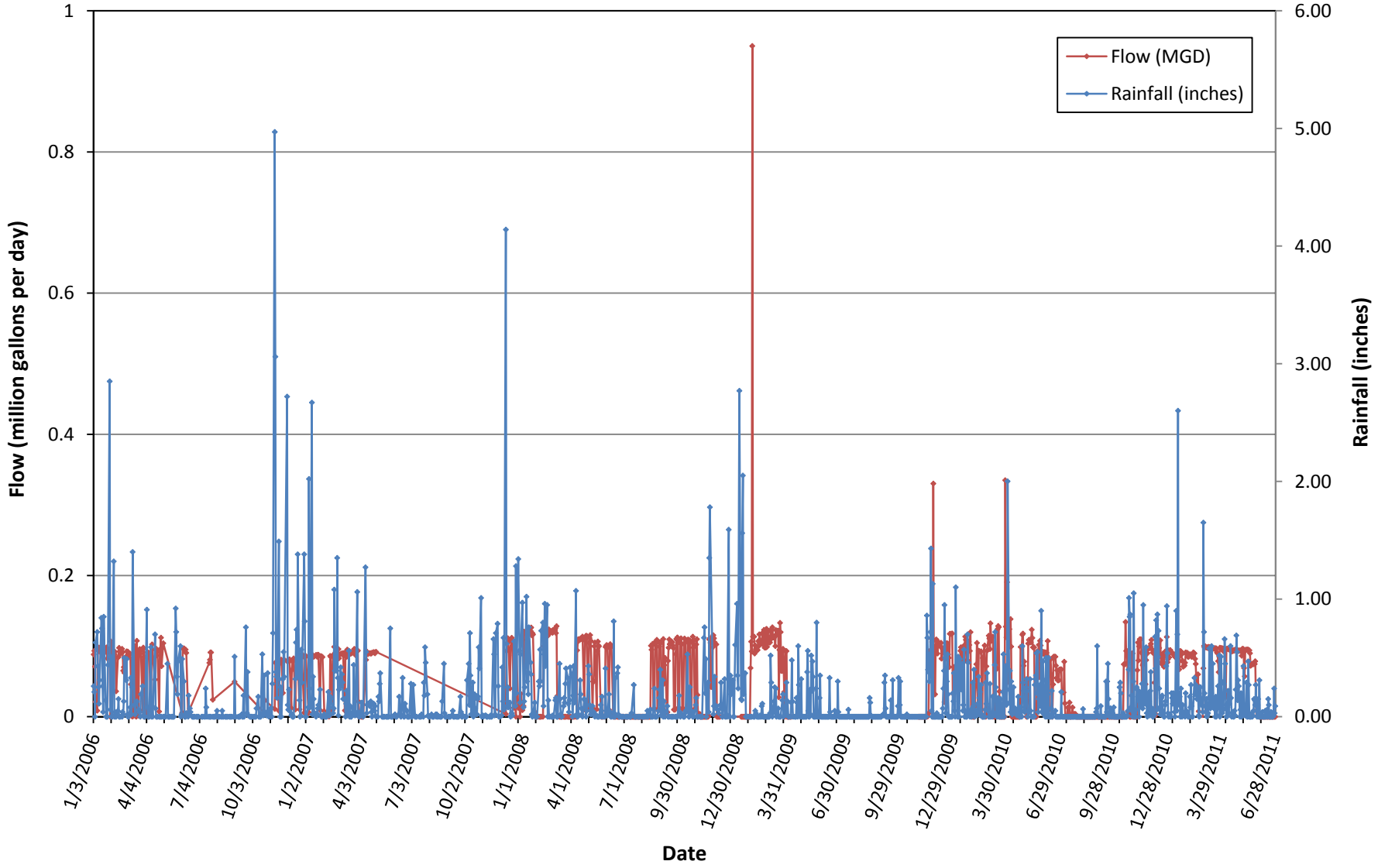
Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
2/24/2011		0.000				
2/25/2011		0.000				
2/26/2011		0.000				
2/27/2011		0.000				
2/28/2011		0.069				
3/1/2011		0.100				
3/2/2011		0.098				
3/3/2011		0.100	0.731	28.6	4.09	
3/4/2011		0.099				
3/5/2011		0.098				
3/6/2011		0.098				
3/7/2011		0.098				
3/8/2011		0.097	0.309	27.1	2.55	
3/9/2011		0.099				
3/10/2011		0.098				
3/11/2011		0.099				
3/12/2011		0.098				
3/13/2011		0.098				
3/14/2011		0.098				
3/15/2011		0.098	0.362	24.1	2.92	
3/16/2011		0.097				
3/17/2011		0.097				
3/18/2011		0.097				
3/19/2011		0.096				
3/20/2011		0.097				
3/21/2011		0.096				
3/22/2011		0.097	0.597	29.7	1.14	
3/23/2011		0.091				
3/24/2011		0.090				
3/25/2011		0.079				
3/26/2011		0.063				
3/27/2011		0.085				
3/28/2011		0.098	0.646	34	2.88	
3/29/2011		0.096				
3/30/2011		0.096				
3/31/2011		0.097				
4/1/2011		0.096				
4/2/2011		0.097				
4/3/2011		0.093				
4/4/2011		0.097				
4/5/2011		0.096	0.47	33.6	5.87	
4/6/2011		0.031				
4/7/2011		0.028				
4/8/2011		0.096				
4/9/2011		0.096				
4/10/2011		0.096				
4/11/2011		0.096				
4/12/2011		0.096	0.457	32.6	1.91	
4/13/2011		0.095				
4/14/2011		0.094				
4/15/2011		0.095				
4/16/2011		0.095				
4/17/2011		0.092				
4/18/2011		0.094				
4/19/2011		0.093	0.319	34.8	1.36	
4/20/2011		0.094				

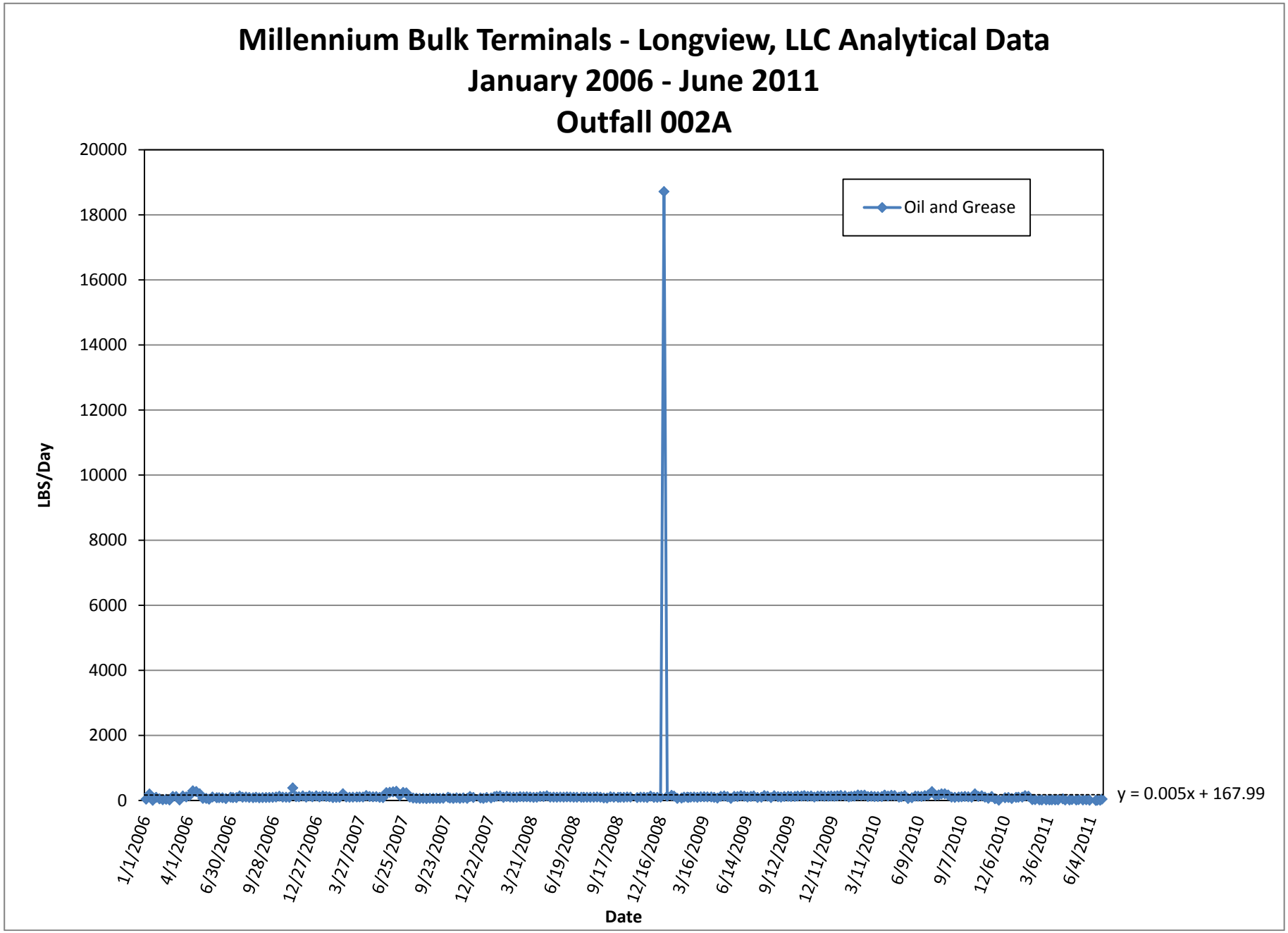
Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
4/21/2011		0.093				
4/22/2011		0.094				
4/23/2011		0.095				
4/24/2011		0.095				
4/25/2011		0.093				
4/26/2011		0.093	0.3	31.8	3.1	
4/27/2011		0.094				
4/28/2011		0.094				
4/29/2011		0.093				
4/30/2011		0.094				
5/1/2011		0.094				
5/2/2011		0.093				
5/3/2011		0.093	0.259	33	2.49	
5/4/2011		0.086				
5/5/2011		0.096				
5/6/2011		0.096				
5/7/2011		0.095				
5/8/2011		0.069				
5/9/2011		0.057				
5/10/2011		0.094	0.183	33.1	1.27	
5/11/2011		0.095				
5/12/2011		0.095				
5/13/2011		0.095				
5/14/2011		0.095				
5/15/2011		0.095				
5/16/2011		0.094				
5/17/2011		0.094	0.177	29.5	0.5	
5/18/2011		0.090				
5/19/2011		0.072				
5/20/2011		0.073				
5/21/2011		0.075				
5/22/2011		0.075				
5/23/2011		0.074				
5/24/2011		0.074	0.193	14.6	1.3	
5/25/2011		0.075				
5/26/2011		0.075				
5/27/2011		0.079				
5/28/2011		0.025				
5/29/2011		0.000				
5/30/2011		0.000				
5/31/2011		0.000				
6/1/2011		0.000				
6/2/2011		0.000				
6/3/2011		0.000				
6/4/2011		0.000				
6/5/2011		0.000				
6/6/2011		0.000				
6/7/2011		0.000				
6/8/2011		0.000				
6/9/2011		0.000				
6/10/2011		0.000				
6/11/2011		0.000				
6/12/2011		0.000				
6/13/2011		0.000				
6/14/2011		0.000				
6/15/2011		0.000				

Sample Date	INTERNAL OUTFALL 002B					Notes:
	Meter MG	Flow MGD	Total CN mg/L	F mg/L	B(a)P ug/L	
6/16/2011		0.000				
6/17/2011		0.000				
6/18/2011		0.000				
6/19/2011		0.000				
6/20/2011		0.000				
6/21/2011		0.000				
6/22/2011		0.000				
6/23/2011		0.000				
6/24/2011		0.000				
6/25/2011		0.000				
6/26/2011		0.000				
6/27/2011		0.000				
6/28/2011		0.000				
6/29/2011		0.000				
6/30/2011		0.000				
Average	**84.0**	**0.138**	**0.2**	**33.4**	**2.2**	
Maximum	**120.8**	**94.0**	**1.3**	**80.3**	**17.8**	
Minimum	**2.7**	**0.0**	**0.0**	**2.8**	**0.1**	
Count	**871**	**1192**	**139**	**138**	**136**	

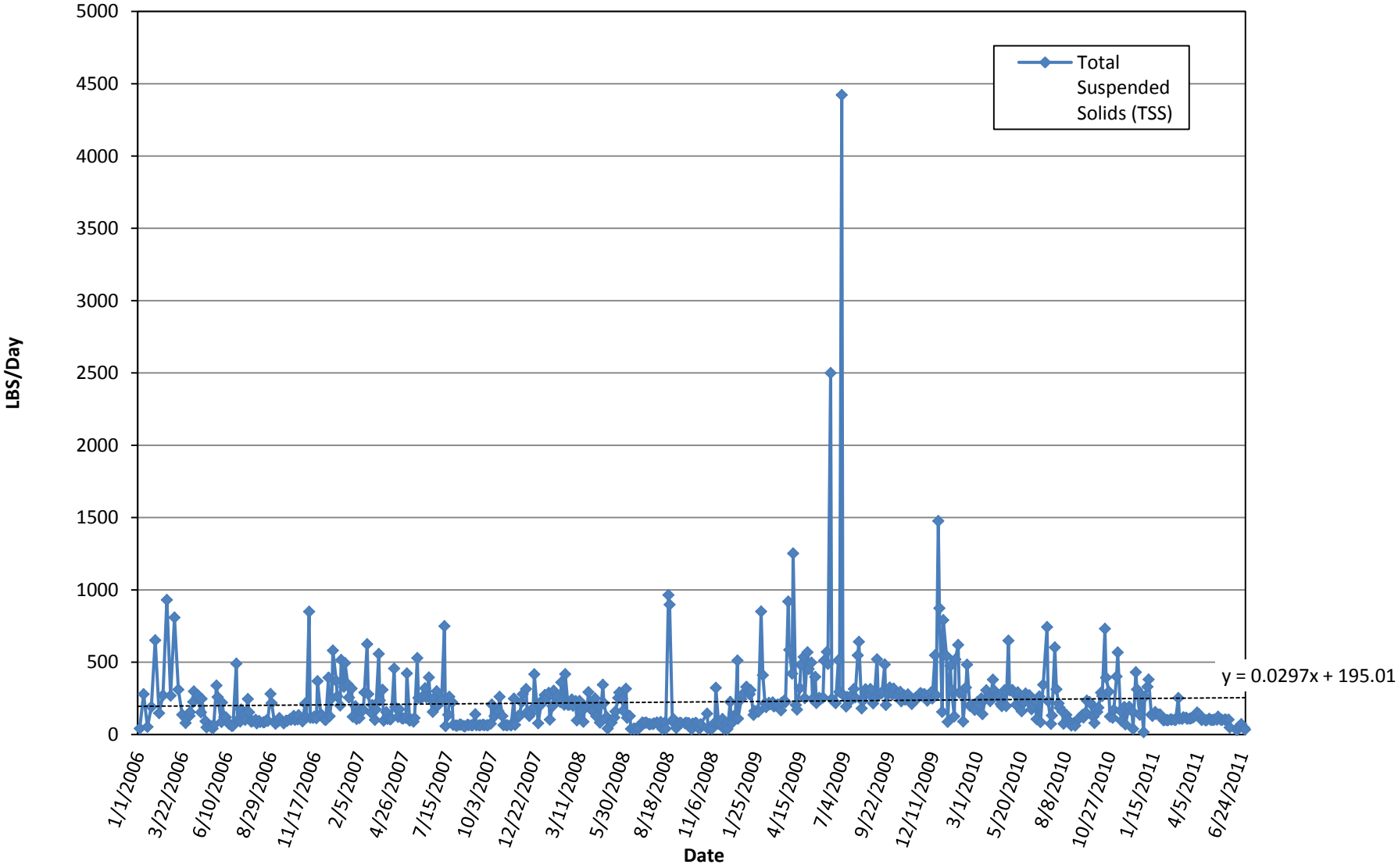

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002A
Flow (MGD)
Rainfall (inches)
Flow (million gallons per day)
Rainfall (inches)
Date
0
1
2
3
4
5
6
7
8
9
10
0.00
1.00
2.00
3.00
4.00
5.00
6.00
1/3/2006
4/4/2006
7/4/2006
10/3/2006
1/2/2007
4/3/2007
7/3/2007
10/2/2007
1/1/2008
4/1/2008
7/1/2008
9/30/2008
12/30/2008
3/31/2009
6/30/2009
9/29/2009
12/29/2009
3/30/2010
6/29/2010
9/28/2010
12/28/2010
3/29/2011
6/28/2011

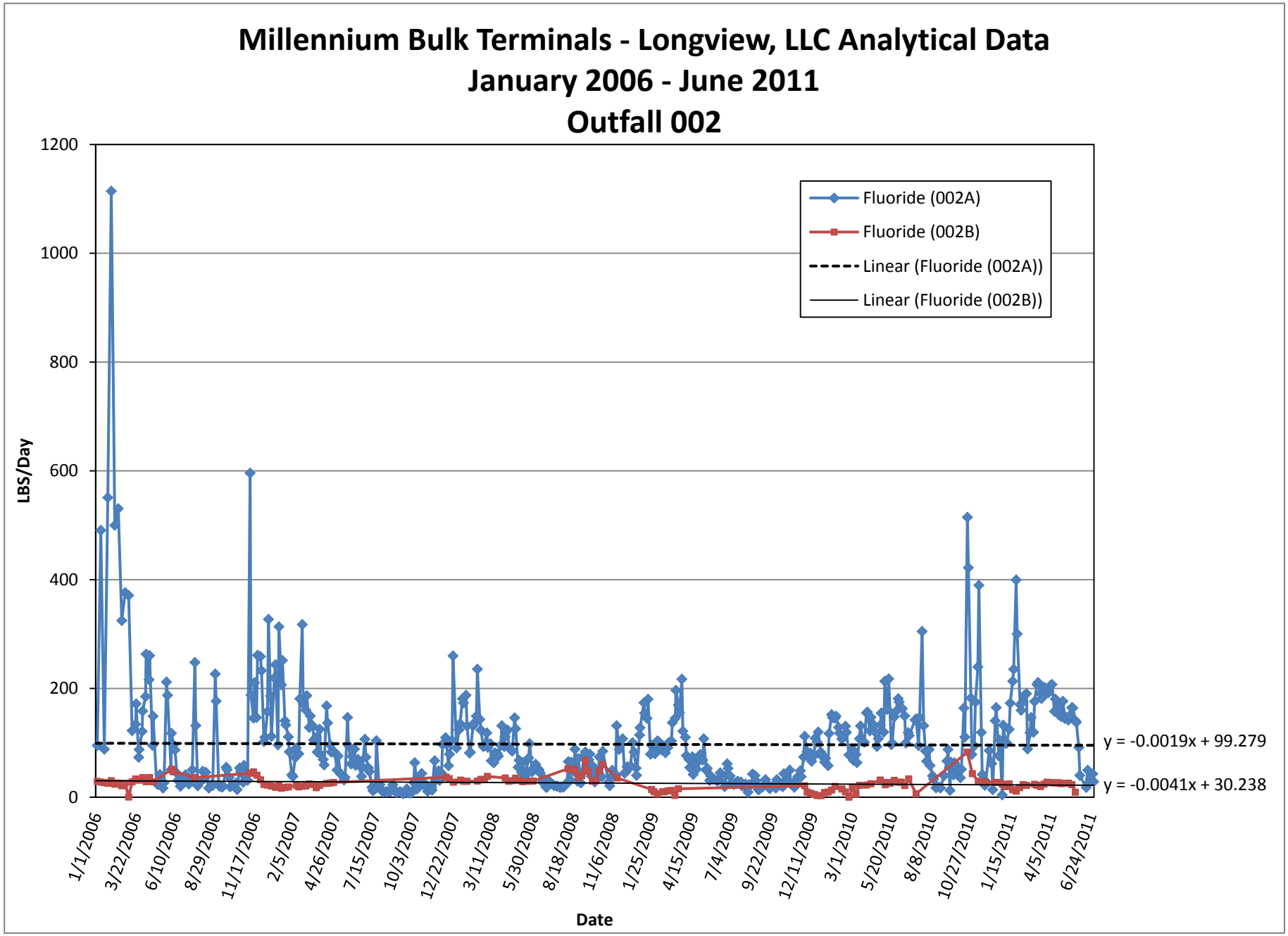
Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002B

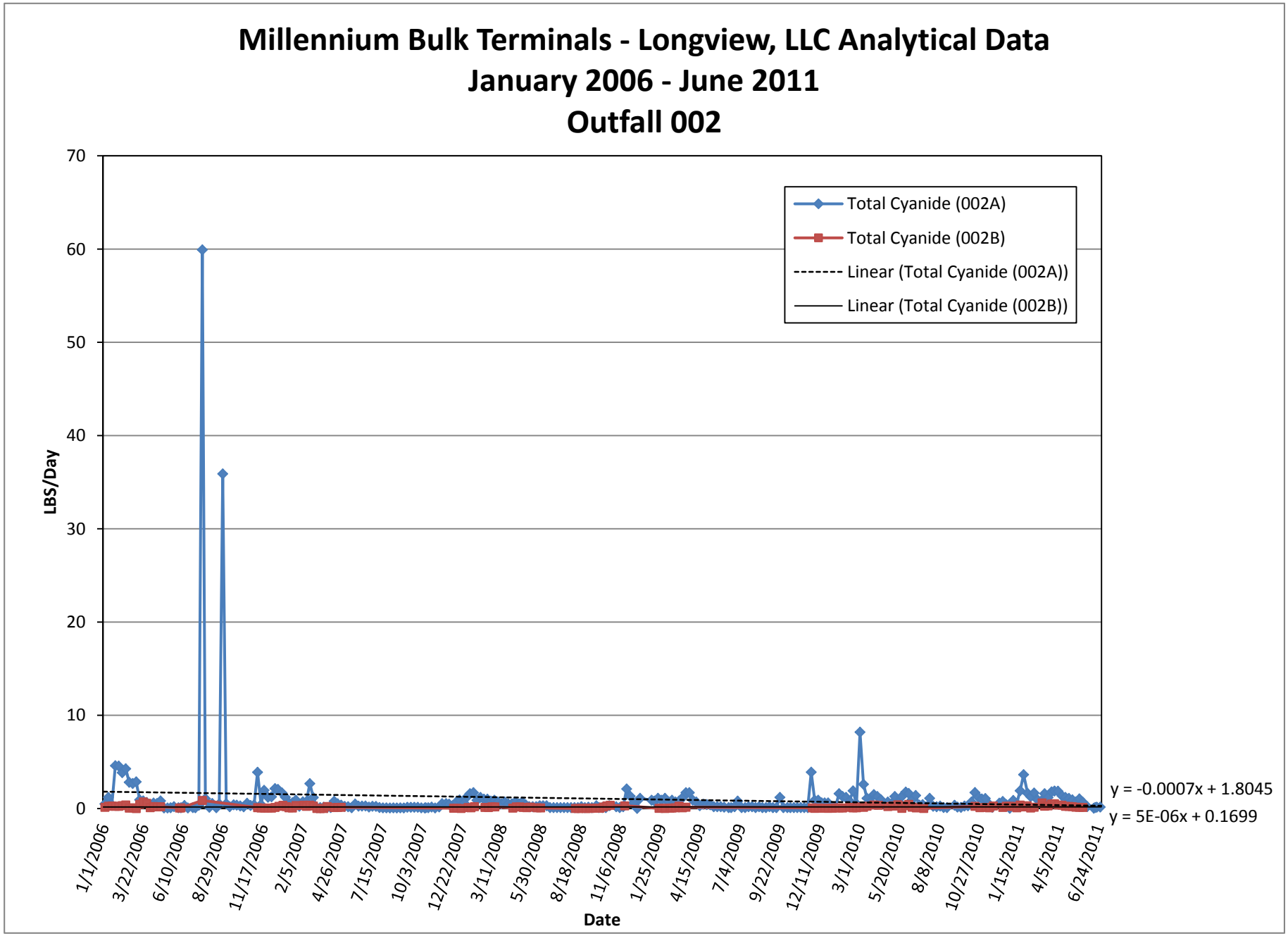


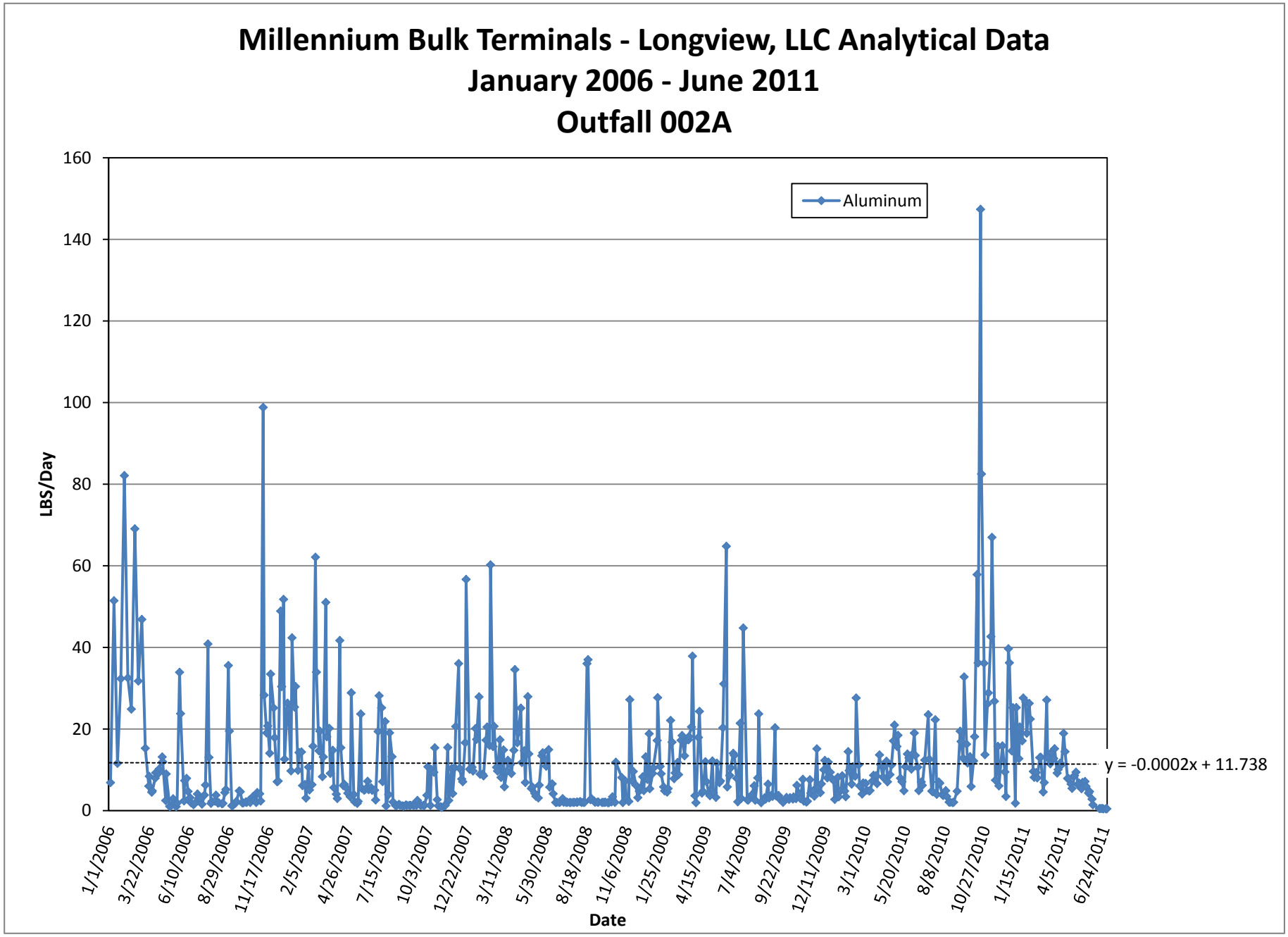

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002A
Oil and Grease
y = 0.005x + 167.99
LBS/Day
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
1/1/2006
4/1/2006
6/30/2006
9/28/2006
12/27/2006
3/27/2007
6/25/2007
9/23/2007
12/22/2007
3/21/2008
6/19/2008
9/17/2008
12/16/2008
3/16/2009
6/14/2009
9/12/2009
12/11/2009
3/11/2010
6/9/2010
9/7/2010
12/6/2010
3/6/2011
6/4/2011
Date

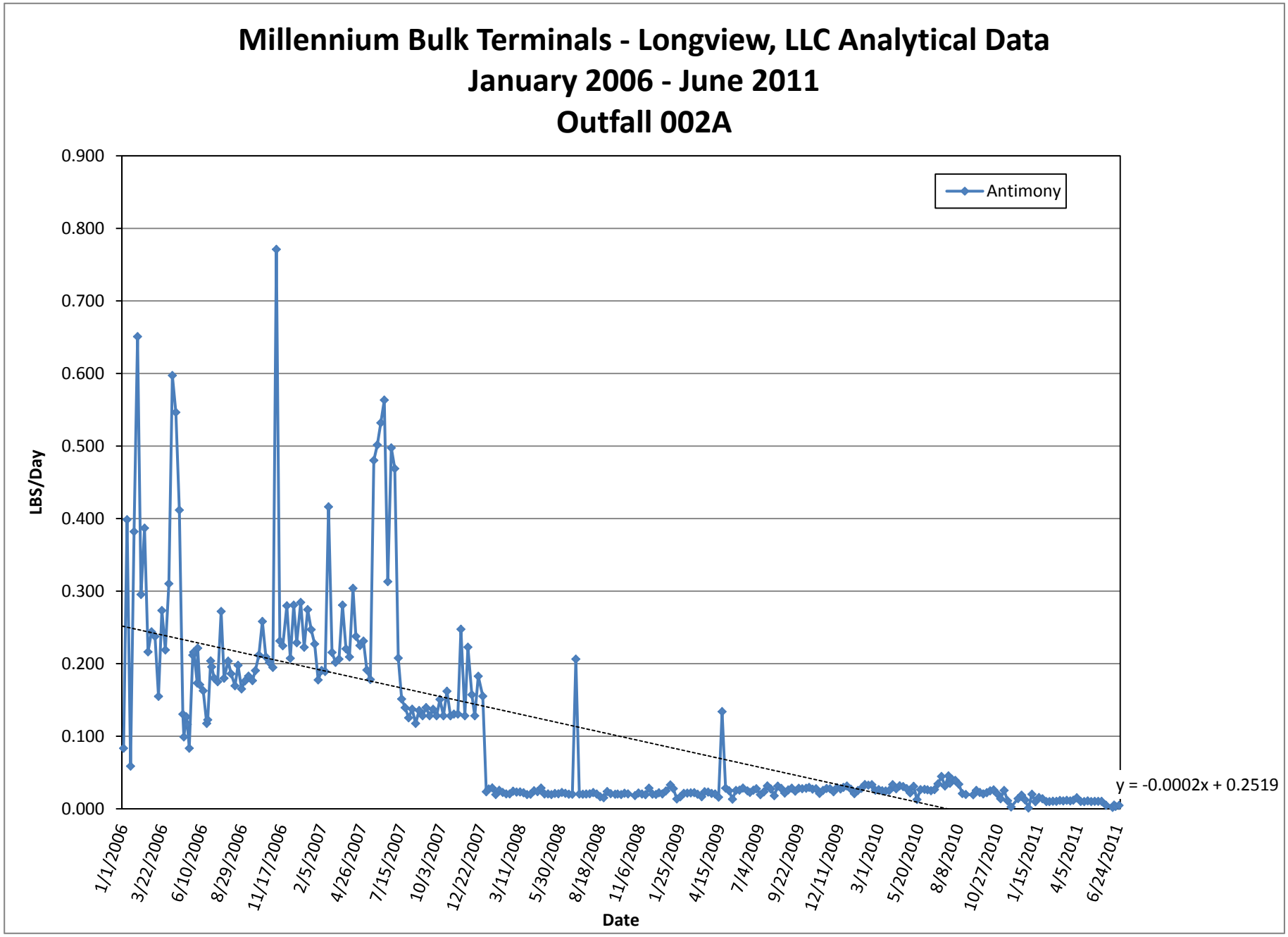
Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002A

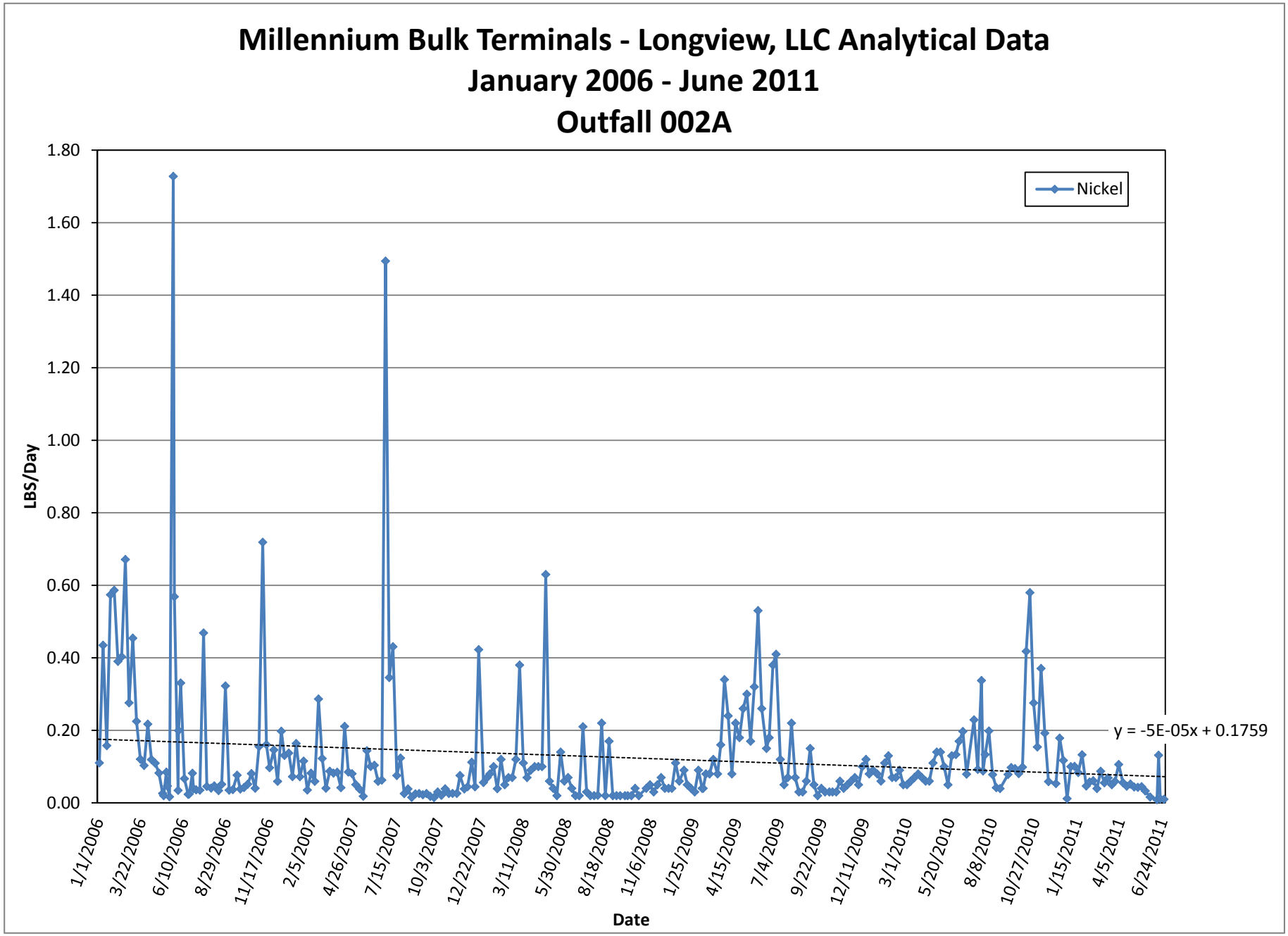


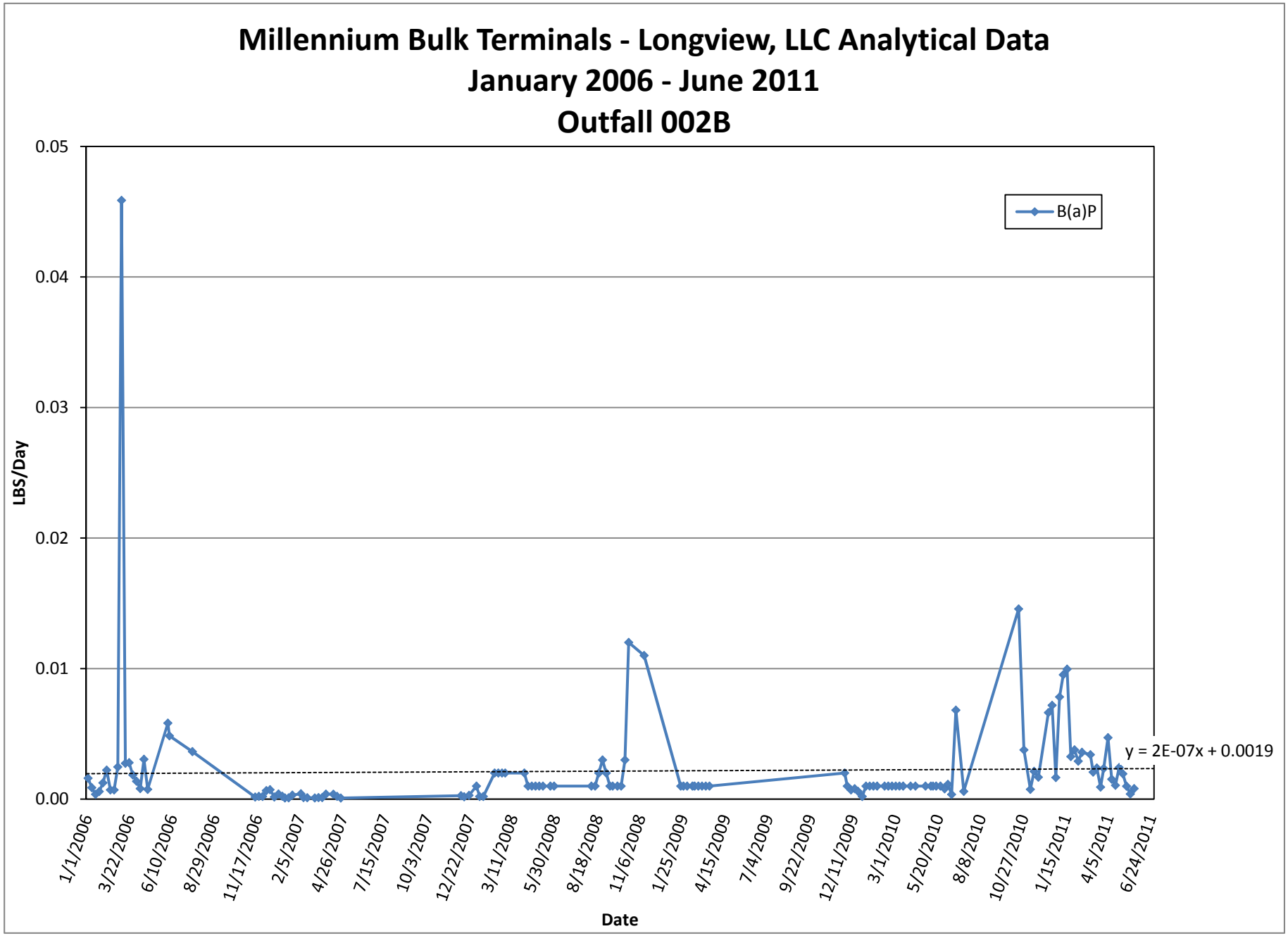

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002
LBS/Day
1200
1000
800
600
400
200
0
Fluoride (002A)
Fluoride (002B)
Linear (Fluoride (002A))
Linear (Fluoride (002B))
y = -0.0019x + 99.279
y = -0.0041x + 30.238
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011
Date


Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002
LBS/Day
70
60
50
40
30
20
10
0
Total Cyanide (002A)
Total Cyanide (002B)
Linear (Total Cyanide (002A))
Linear (Total Cyanide (002B))
y = -0.0007x + 1.8045
y = 5E-06x + 0.1699
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011
Date

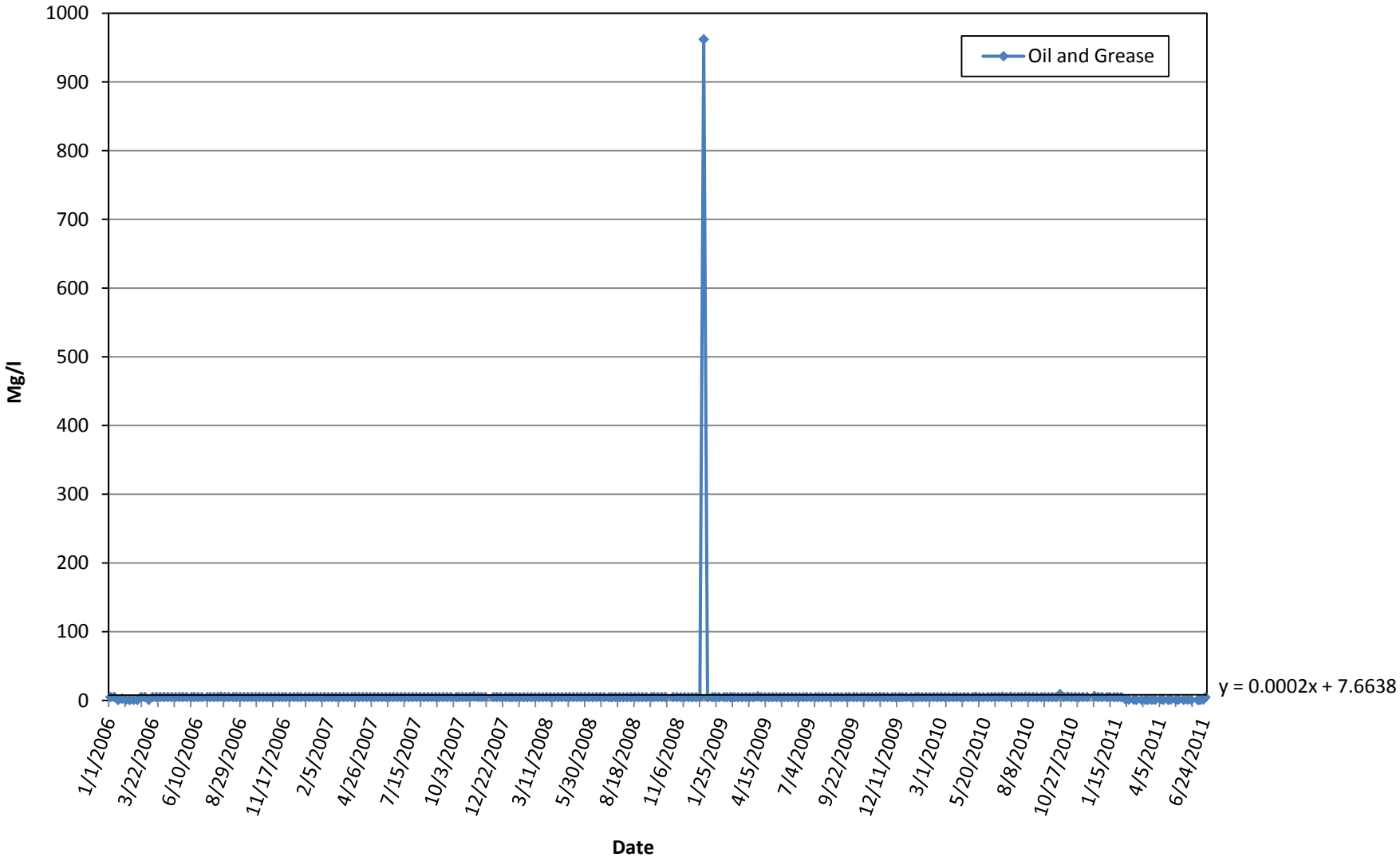

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002A
Aluminum
y = -0.0002x + 11.738
LBS/Day
Date
160
140
120
100
80
60
40
20
0
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011


Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002A
Antimony
y = -0.0002x + 0.2519
LBS/Day
0.900
0.800
0.700
0.600
0.500
0.400
0.300
0.200
0.100
0.000
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011
Date

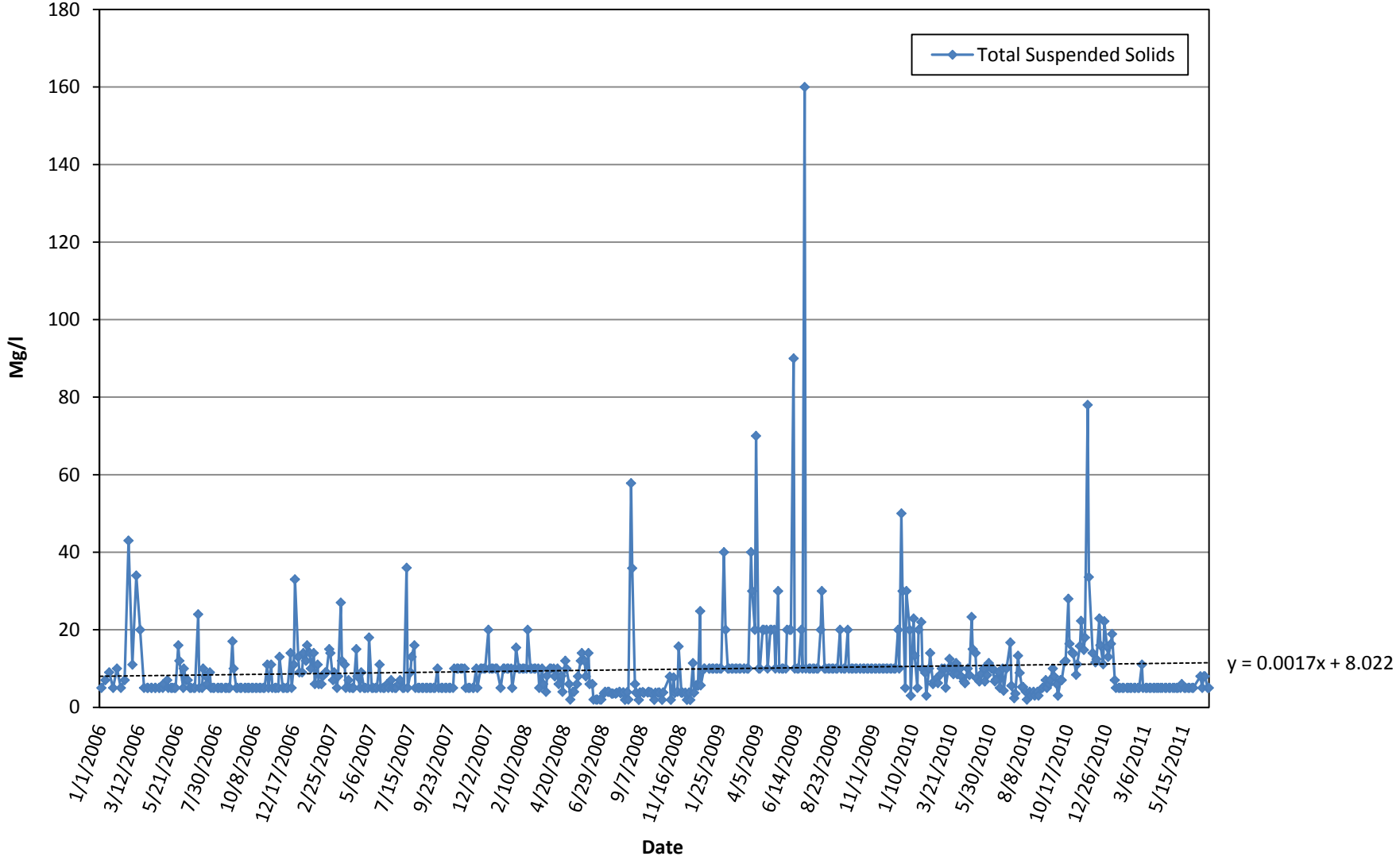

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002A
Nickel
y = -5E-05x + 0.1759
LBS/Day
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011
Date

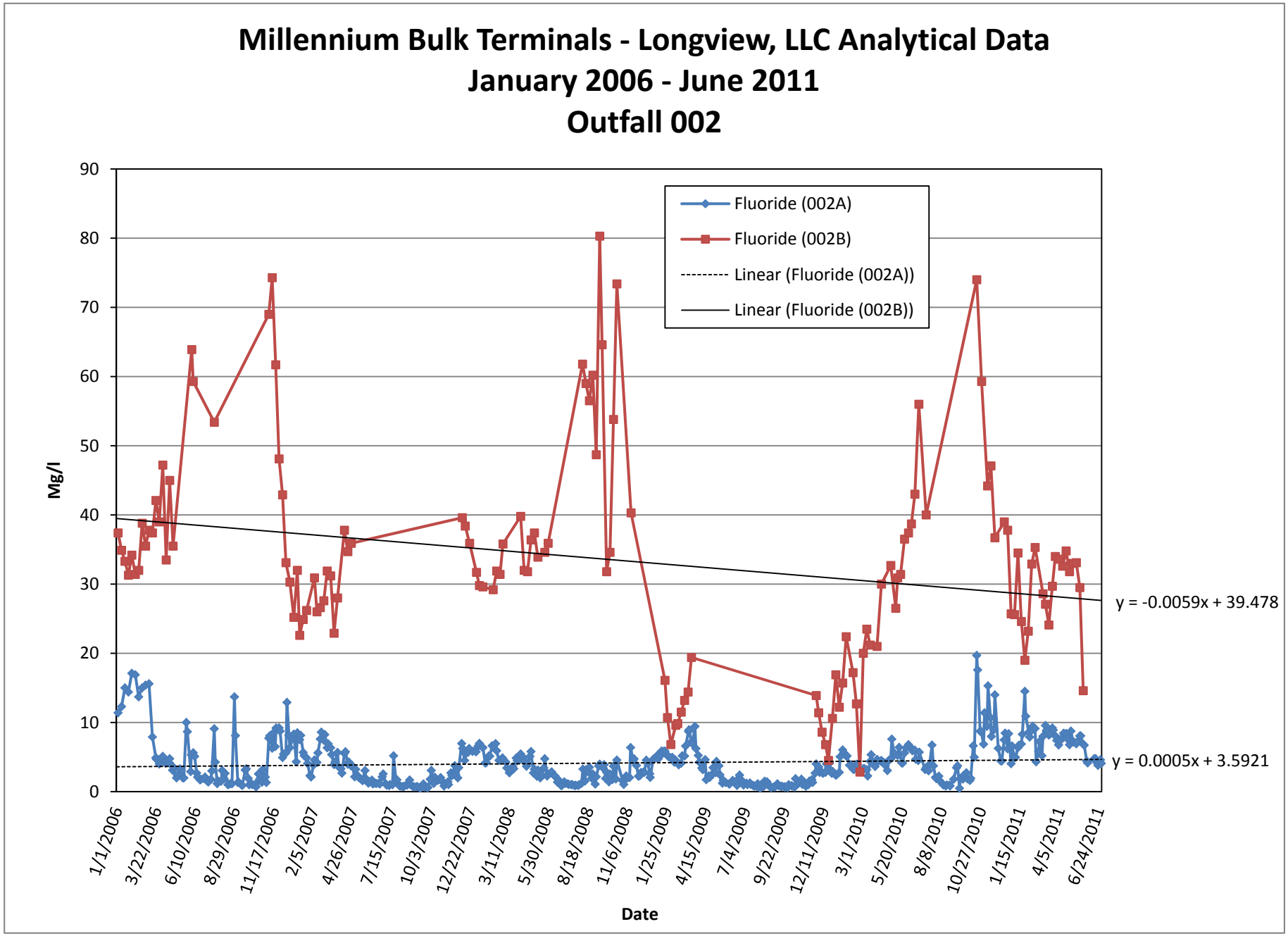

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002B
B(a)P
y = 2E-07x + 0.0019
LBS/Day
0.05
0.04
0.03
0.02
0.01
0.00
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011
Date

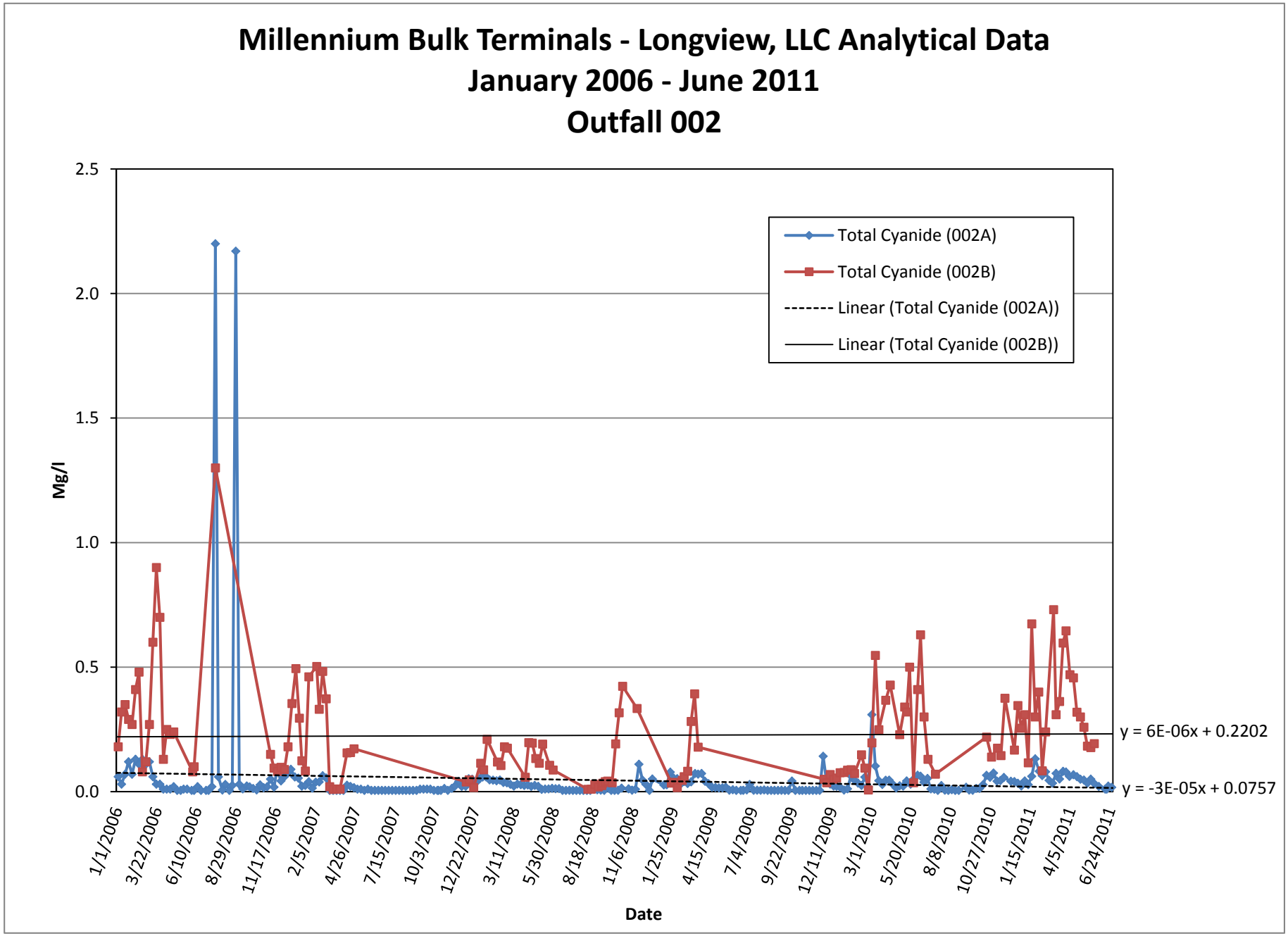
Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002A

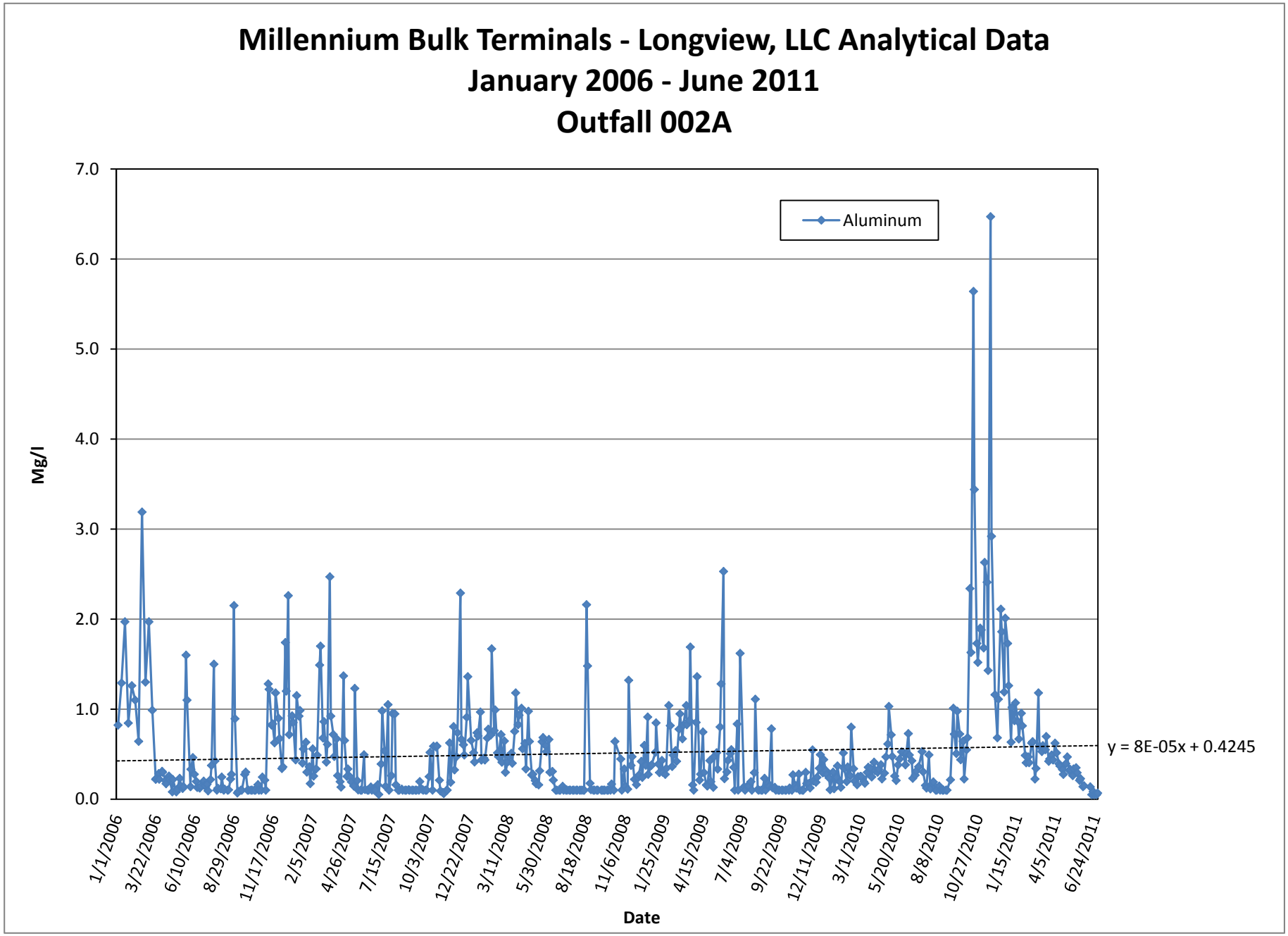


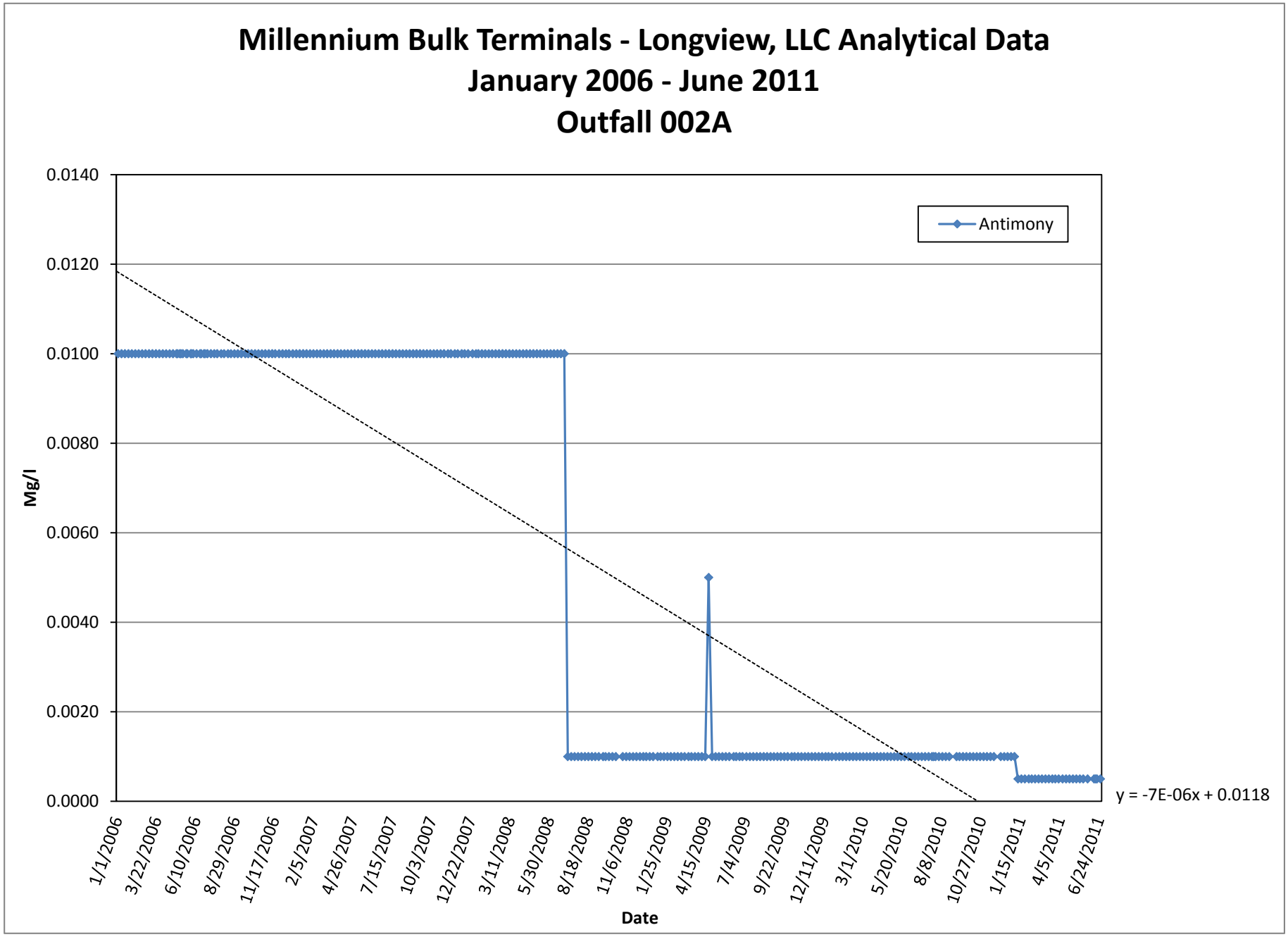
Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002A

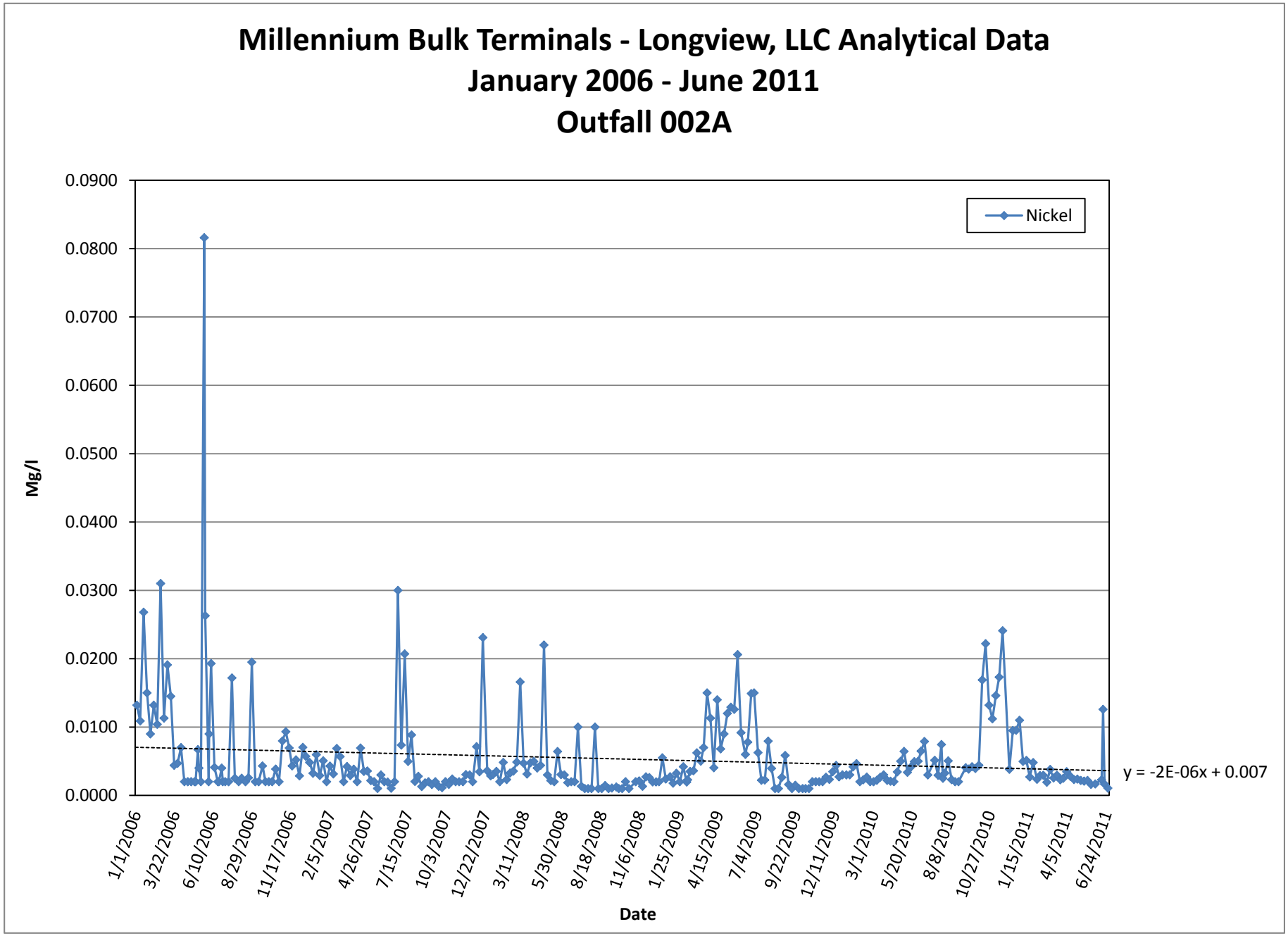


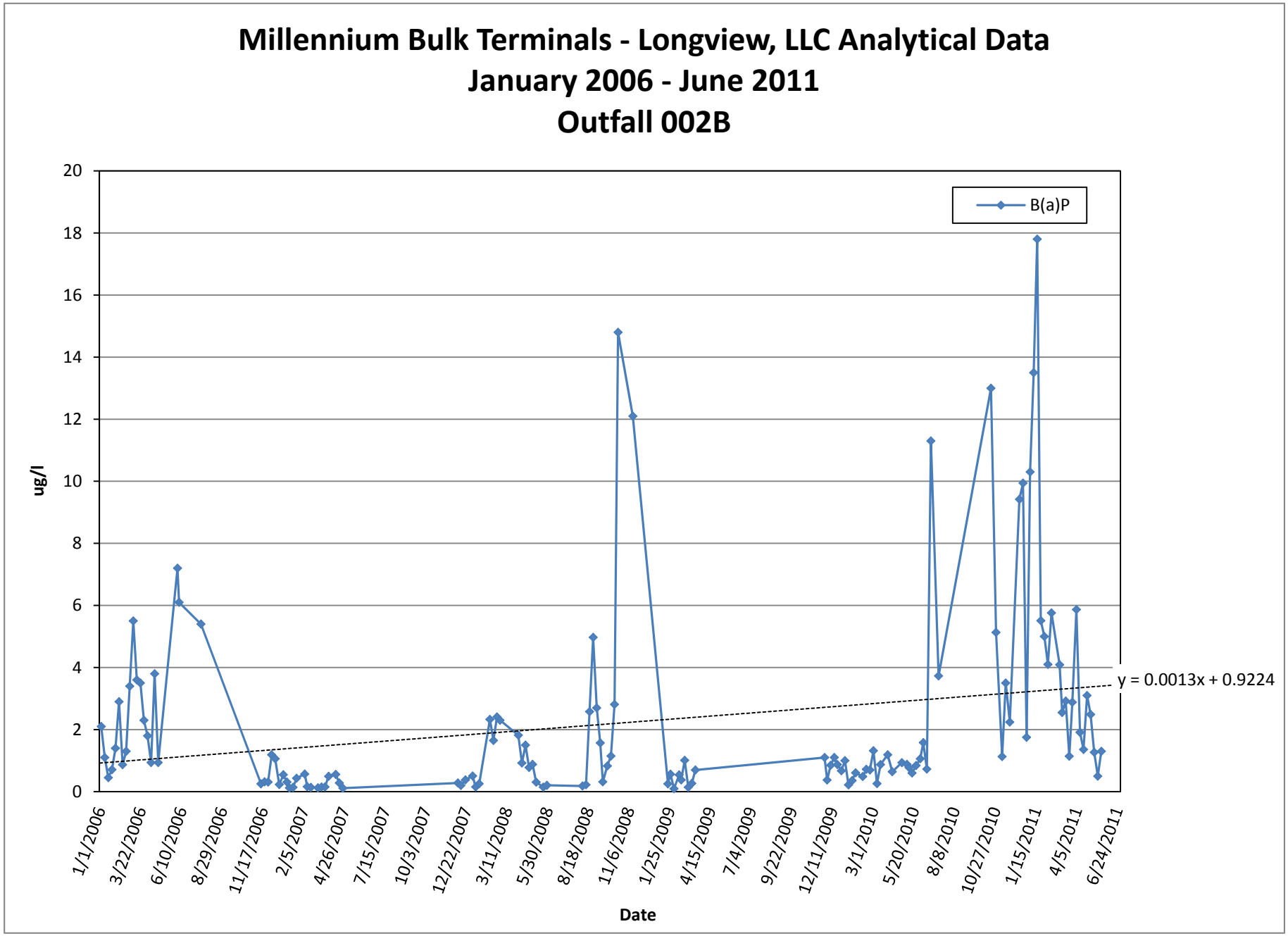

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002
Fluoride (002A)
Fluoride (002B)
Linear (Fluoride (002A))
Linear (Fluoride (002B))
y = -0.0059x + 39.478
y = 0.0005x + 3.5921
Mg/l
Date
0
10
20
30
40
50
60
70
80
90
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011


Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002
Total Cyanide (002A)
Total Cyanide (002B)
Linear (Total Cyanide (002A))
Linear (Total Cyanide (002B))
y = 6E-06x + 0.2202
y = -3E-05x + 0.0757
Mg/l
2.5
2.0
1.5
1.0
0.5
0.0
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011
Date


Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002A
Aluminum
y = 8E-05x + 0.4245
Mg/l
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011
Date


Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002A
Antimony
Mg/l
0.0140
0.0120
0.0100
0.0080
0.0060
0.0040
0.0020
0.0000
y = -7E-06x + 0.0118
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011
Date

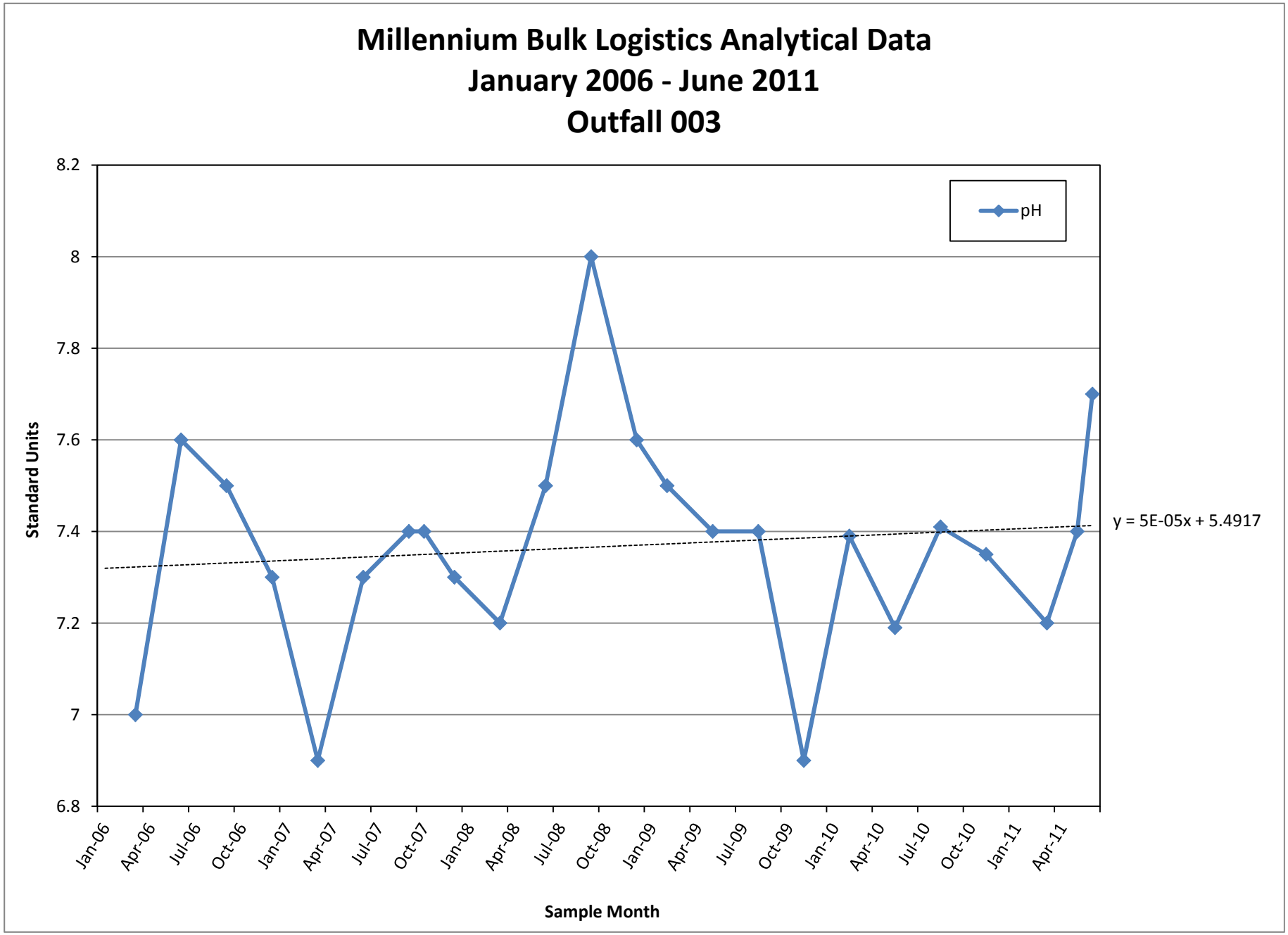

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002A
Nickel
Mg/l
0.0900
0.0800
0.0700
0.0600
0.0500
0.0400
0.0300
0.0200
0.0100
0.0000
y = -2E-06x + 0.007
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011
Date

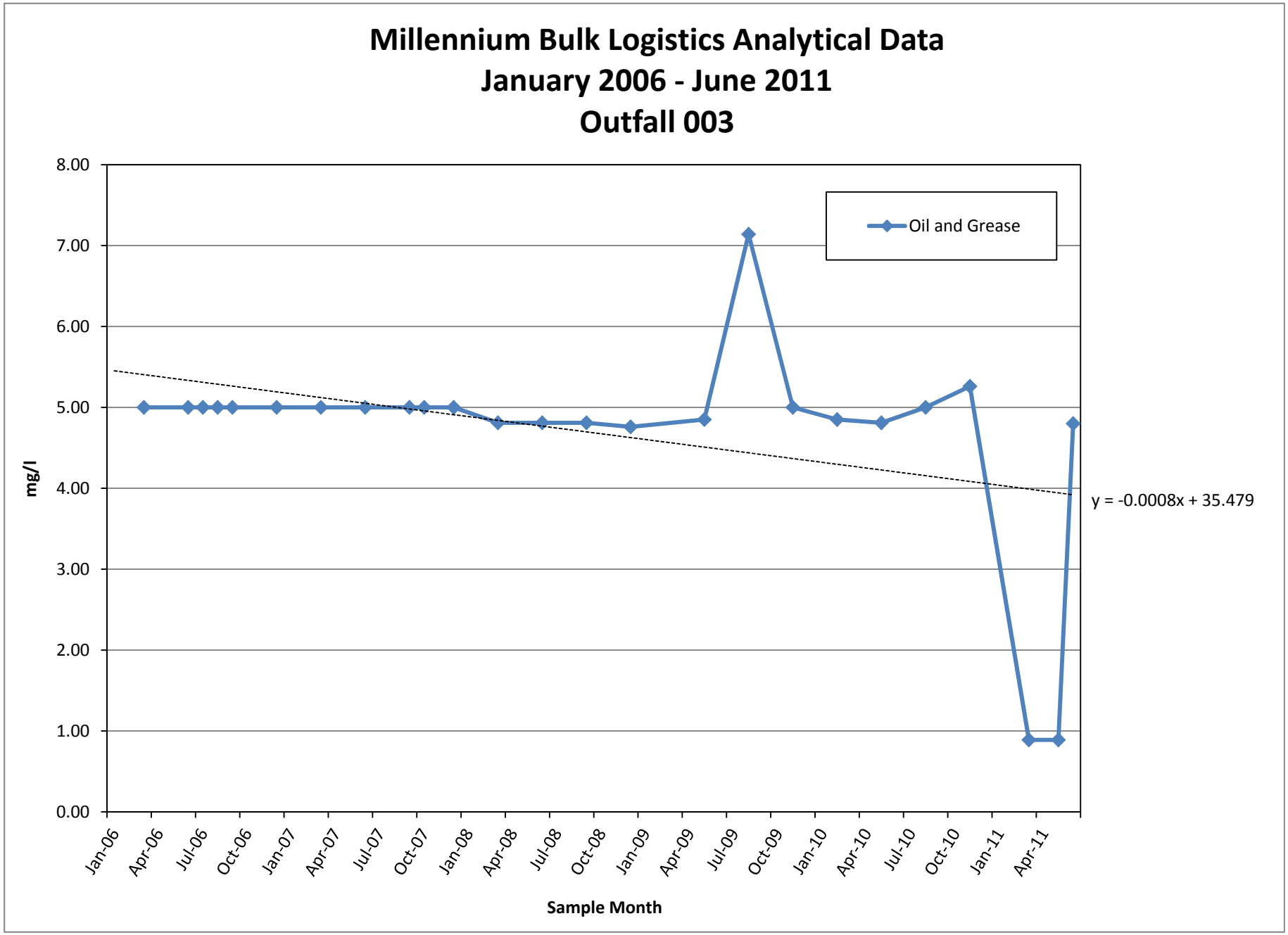

Millennium Bulk Terminals - Longview, LLC Analytical Data
January 2006 - June 2011
Outfall 002B
B(a)P
y = 0.0013x + 0.9224
ug/l
Date
20
18
16
14
12
10
8
6
4
2
0
1/1/2006
3/22/2006
6/10/2006
8/29/2006
11/17/2006
2/5/2007
4/26/2007
7/15/2007
10/3/2007
12/22/2007
3/11/2008
5/30/2008
8/18/2008
11/6/2008
1/25/2009
4/15/2009
7/4/2009
9/22/2009
12/11/2009
3/1/2010
5/20/2010
8/8/2010
10/27/2010
1/15/2011
4/5/2011
6/24/2011

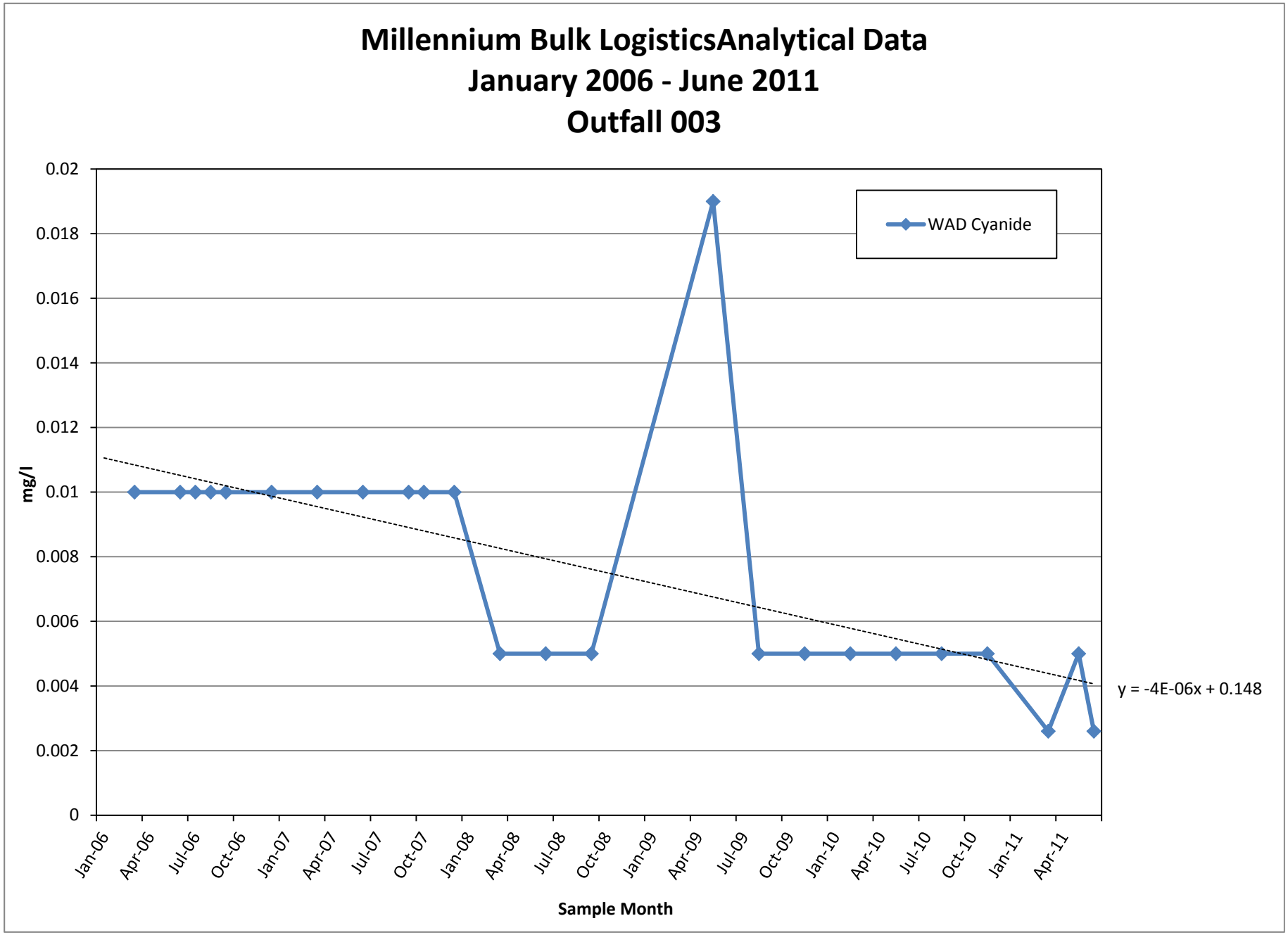
Millennium Bulk Terminals - Longview, LLC
Outfall 003 Data
January 2006 - June 2011

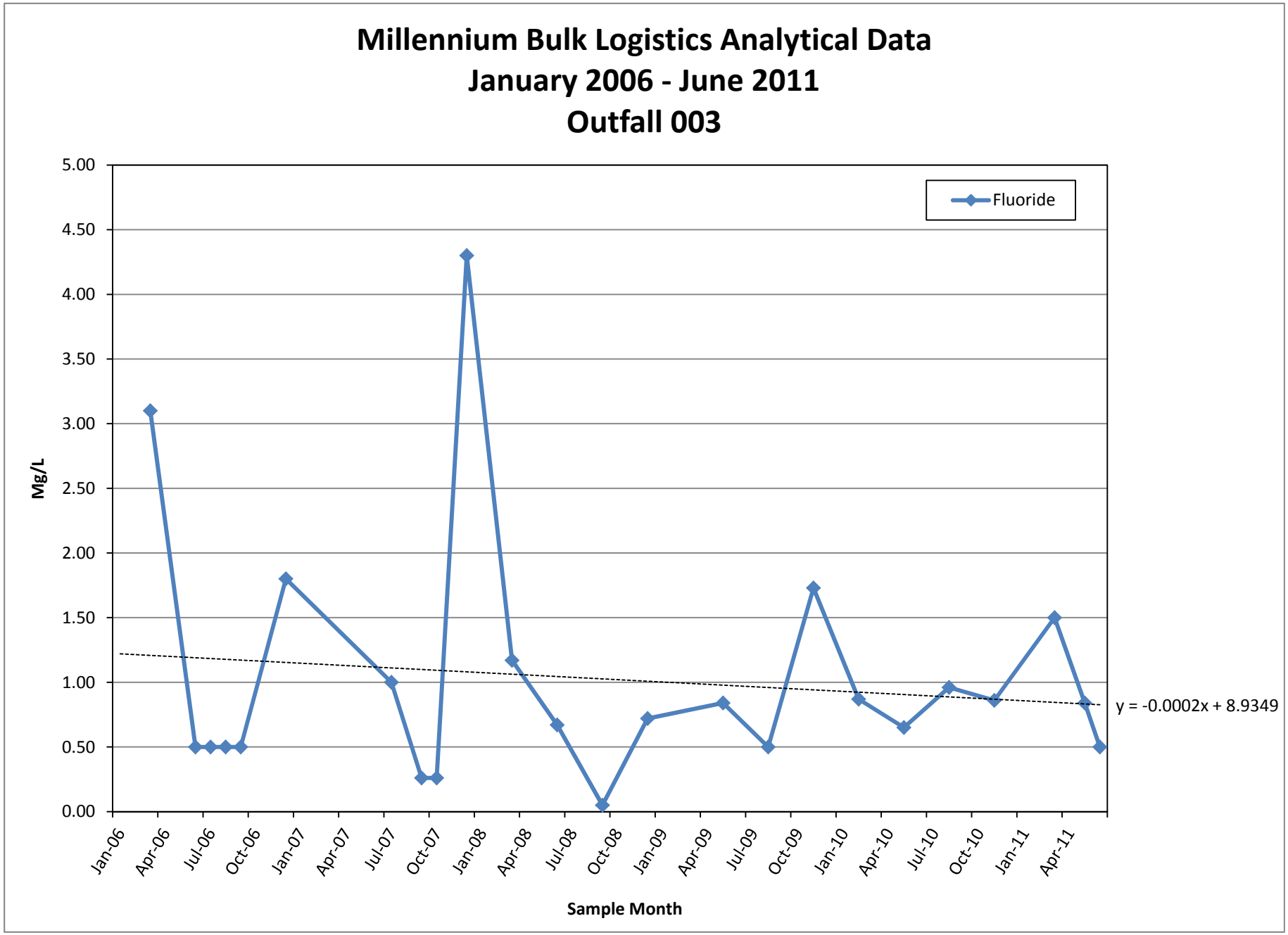
Sample Date	pH	O&G (mg/L)	WAD Cyanide (mg/L)	Fluoride (mg/L)	Temp (C)	Notes
Jan-06						Replaced ND's with the following RL's:
Feb-06						Fluoride = 0.5 mg/L
Mar-06	7.00	< 5.00	< 0.01	3.10		WAD CN = 0.01 mg/L
Apr-06						O&G = 5 mg/L
May-06						
Jun-06	7.60	< 5.00	< 0.01	< 0.50		
Jul-06		< 5.00	< 0.01	< 0.50		
Aug-06		< 5.00	< 0.01	< 0.50		
Sep-06	7.50	< 5.00	0.01	0.50		
Oct-06						
Nov-06						
Dec-06	7.30	< 5.00	< 0.01	1.80		
Jan-07						
Feb-07						
Mar-07	6.90	< 5.00	< 0.01			
Apr-07						
May-07						
Jun-07	7.30	< 5.00	< 0.01			
Jul-07				1.00		
Aug-07						
Sep-07	7.40	< 5.00	< 0.01	0.26		
Oct-07	7.40	< 5.00	< 0.01	0.26		
Nov-07						
Dec-07	7.30	< 5.00	< 0.01	4.30		
Jan-08						
Feb-08						
Mar-08	7.20	< 4.81	< 0.005	1.17	13.9	
Apr-08						
May-08						
Jun-08	7.50	< 4.81	< 0.005	0.67		
Jul-08						
Aug-08						
Sep-08	8.00	< 4.81	< 0.005	< 0.05		
Oct-08						
Nov-08						
Dec-08	7.60	< 4.76		0.72	12.4	
Jan-09						
Feb-09	7.50				16.5	
Mar-09						
Apr-09						
May-09	7.40	< 4.85	0.019	0.84	14.5	
Jun-09						
Jul-09						
Aug-09	7.40	7.14	< 0.005	< 0.50	19.2	
Sep-09						

Sample Date	pH	O&G (mg/L)	WAD Cyanide (mg/L)	Fluoride (mg/L)	Temp (C)	Notes
Oct-09						
Nov-09	6.90	< 5.00	< 0.005	1.73	14.5	
Dec-09						
Jan-10						
Feb-10	7.39	4.85	< 0.005	0.87	10.95	
Mar-10						
Apr-10						
May-10	7.19	< 4.81	< 0.005	0.65	13.95	
Jun-10						
Jul-10						
Aug-10	7.41	< 5.00	< 0.005	0.96		
Sep-10						
Oct-10						
Nov-10	7.35	5.26	< 0.005	0.86		
Dec-10						
Jan-11						
Feb-11						
Mar-11	7.20	< 0.89	< 0.0026	1.50		
Apr-11						
May-11	7.40	< 0.89	< 0.005	0.84		
Jun-11	7.70	< 4.80	< 0.0026	< 0.50		
average	7.37	4.71	0.008	1.02	14.5	
maximum	8.00	7.14	0.019	4.30	19.2	
minimum	6.90	0.89	0.0026	0.05	11.0	
count	24	25	24	24	8	


Millennium Bulk Logistics Analytical Data
January 2006 - June 2011
Outfall 003
pH
y = 5E-05x + 5.4917
Standard Units
8.2
8
7.8
7.6
7.4
7.2
7
6.8
Jan-06
Apr-06
Jul-06
Oct-06
Jan-07
Apr-07
Jul-07
Oct-07
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Sample Month


Millennium Bulk Logistics Analytical Data
January 2006 - June 2011
Outfall 003
Oil and Grease
y = -0.0008x + 35.479
mg/l
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Jan-06
Apr-06
Jul-06
Oct-06
Jan-07
Apr-07
Jul-07
Oct-07
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Sample Month


Millennium Bulk LogisticsAnalytical Data
January 2006 - June 2011
Outfall 003
WAD Cyanide
mg/l
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
Jan-06
Apr-06
Jul-06
Oct-06
Jan-07
Apr-07
Jul-07
Oct-07
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Sample Month
y = -4E-06x + 0.148


Millennium Bulk Logistics Analytical Data
January 2006 - June 2011
Outfall 003
Fluoride
Mg/L
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Jan-06
Apr-06
Jul-06
Oct-06
Jan-07
Apr-07
Jul-07
Oct-07
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10
Apr-10
Jul-10
Oct-10
Jan-11
Apr-11
Sample Month
y = -0.0002x + 8.9349

APPENDIX B
MGSFLOOD STORMWATER MODEL SUMMARY REPORTS

MGS FLOOD
PROJECT REPORT

Program Version: MGSFlood 4.09
Program License Number: 200510001
Run Date: 08/19/2011 2:46 PM

Input File Name: Millennium1.fld
Project Name: Millennium 1
Analysis Title: Millennium
Comments: Existing: PS 77 limited to 15 cfs - 98.55%
Alt 1: Add thickning ponds and limit PS 77 to 16 cfs -98.80%

——————————————— PRECIPITATION INPUT ———————————————

Computational Time Step (Minutes): 60

Extended Precipitation Timeseries Selected
Climatic Region Number: 21

Full Period of Record Available used for Routing
Precipitation Station : 97004805 Vancouver 48 in_5min 10/01/1939-10/01/2060
Evaporation Station : 971048 Vancouver 48 in MAP
Evaporation Scale Factor : 0.750

HSPF Parameter Region Number: 1
HSPF Parameter Region Name : USGS Default

********** Default HSPF Parameters Used (Not Modified by User) **********

********** **WATERSHED DEFINITION** **********

----------SCENARIO: PREDEVELOPED
Number of Subbasins: 10

---------- Subbasin : Subbasin 3 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	27.200
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	17.280

MGS FLOOD
PROJECT REPORT

Program Version: MGSFlood 4.09
Program License Number: 200510001
Run Date: 09/22/2011 10:30 AM

Input File Name: Millennium2.fld
Project Name: Millennium 2
Analysis Title: Millennium
Comments: Alt 2: Increase treatment rate to 20 cfs - 99.39%
Alt 3: Increase Storage to 200x600 lower inlet 1 ft - 99.36%

——————————————— PRECIPITATION INPUT ———————————————

Computational Time Step (Minutes): 60

Extended Precipitation Timeseries Selected
Climatic Region Number: 21

Full Period of Record Available used for Routing
Precipitation Station : 97004805 Vancouver 48 in_5min 10/01/1939-10/01/2060
Evaporation Station : 971048 Vancouver 48 in MAP
Evaporation Scale Factor : 0.750

HSPF Parameter Region Number: 1
HSPF Parameter Region Name : USGS Default

********** Default HSPF Parameters Used (Not Modified by User) **********

********** **WATERSHED DEFINITION** **********

----------SCENARIO: PREDEVELOPED
Number of Subbasins: 8

---------- Subbasin : Subbasin 3 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	27.200
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	17.280

Subbasin Total	44.480

---------- Subbasin : Subbasin 1 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	18.080
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	72.400
Subbasin Total	90.480

---------- Subbasin : Subbasin 3A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	15.820
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.340
Subbasin Total	16.160

---------- Subbasin : Subbasin 4 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	59.720
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	6.680
Subbasin Total	66.400

---------- Subbasin : Subbasin 5 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	37.010

Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	15.780
Subbasin Total	52.790

---------- Subbasin : Subbasin 6 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	41.650
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	3.580
Subbasin Total	45.230

---------- Subbasin : Subbasin 4A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	3.830
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	1.720
Subbasin Total	5.550

---------- Subbasin : Subbasin 5A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	26.140
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.000

Subbasin Total 26.140

----------SCENARIO: POSTDEVELOPED
Number of Subbasins: 8

---------- Subbasin : Subbasin 3 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	27.200
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	17.280
Subbasin Total	44.480

---------- Subbasin : Subbasin 1 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	18.080
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	72.400
Subbasin Total	90.480

---------- Subbasin : Subbasin 3A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	15.820
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.340
Subbasin Total	16.160

---------- Subbasin : Subbasin 4 ----------

-------Area(Acres) --------

Till Forest	0.000
Till Pasture	59.720
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	6.680
Subbasin Total	66.400

---------- Subbasin : Subbasin 5 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	37.010
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	15.780
Subbasin Total	52.790

---------- Subbasin : Subbasin 6 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	41.650
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	3.580
Subbasin Total	45.230

---------- Subbasin : Subbasin 4A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	3.830
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000

User	0.000
Impervious	1.720

Subbasin Total	5.550

---------- Subbasin : Subbasin 5A ----------

-------Area(Acres) --------

Till Forest	0.000
Till Pasture	26.140
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.000

Subbasin Total	26.140

********** **LINK DATA** **********

----------SCENARIO: PREDEVELOPED
Number of Links: 19

Link Name: 1
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 6
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 4
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 4A
Link Type: Copy
Downstream Link: None

Link Name: 3
Link Type: Copy

Downstream Link Name: Outfall 3

Link Name: 3A
Link Type: Copy
Downstream Link: None

Link Name: 5
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 5A
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: Outfall 3
Link Type: Copy
Downstream Link: None

Link Name: Outfall 5
Link Type: Copy
Downstream Link: None

Link Name: 77 Pump
Link Type: Copy
Downstream Link Name: 20 CFS

Link Name: Wet Pond
Link Type: Structure
Downstream Link Name: PS C

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 5.50
Riser Crest Elevation (ft) : 13.50
Max Pond Elevation (ft) : 20.25
Storage Depth (ft) : 8.00
Pond Bottom Length (ft) : 300.0
Pond Bottom Width (ft) : 135.0
Pond Side Slopes (ft/ft) : L1= 3.00 L2= 3.00 W1= 3.00 W2= 3.00
Bottom Area (sq-ft) : 40500.
Area at Riser Crest El (sq-ft) : 63,684.
(acres) : 1.462
Volume at Riser Crest (cu-ft) : 413,664.

	(ac-ft)	:	9.496
Area at Max Elevation	(sq-ft)	:	86830.
	(acres)	:	1.993
Vol at Max Elevation	(cu-ft)	:	932,540.
	(ac-ft)	:	21.408

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Low
Maintenance : Average or Better

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 20.00
Common Length (ft) : 0.000
Riser Crest Elevation : 13.50 ft

Hydraulic Structure Geometry

Number of Devices: 0

Link Name: Outfall 2A
Link Type: Copy
Downstream Link: None

Link Name: 20 CFS
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk12 - Wet Pond
Outflow 2 Connected to Link: Lnk18 - PS 77 Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
20.000	20.000	0.000
100.000	20.000	80.000

Link Name: Surplus
Link Type: Copy
Downstream Link: None

Link Name: 20 CFS
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk13 - Outfall 2A
Outflow 2 Connected to Link: Lnk19 - PS C Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
20.000	20.000	0.000
100.000	20.000	80.000

Link Name: PS C
Link Type: Copy
Downstream Link Name: 20 CFS

Link Name: PS 77 Short
Link Type: Copy
Downstream Link Name: Surplus

Link Name: PS C Short
Link Type: Copy
Downstream Link Name: Surplus

Structure Stage, Storage Discharge Tables

Link: Lnk12 Wet Pond

Elev (ft)	Storage (ac-ft)	Discharge (cfs)	Infilt Discharge (cfs)
5.500	0.000	0.000	0.000
5.543	0.040	0.000	0.000
5.585	0.079	0.000	0.000
5.670	0.159	0.000	0.000
5.840	0.320	0.000	0.000
6.010	0.482	0.000	0.000
6.180	0.646	0.000	0.000
6.350	0.812	0.000	0.000
6.520	0.980	0.000	0.000
6.690	1.149	0.000	0.000
6.860	1.321	0.000	0.000
7.030	1.494	0.000	0.000
7.200	1.669	0.000	0.000
7.370	1.845	0.000	0.000
7.540	2.024	0.000	0.000
7.710	2.204	0.000	0.000
7.880	2.386	0.000	0.000
8.050	2.570	0.000	0.000

8.220	2.756	0.000	0.000
8.390	2.944	0.000	0.000
8.560	3.133	0.000	0.000
8.730	3.325	0.000	0.000
8.900	3.518	0.000	0.000
9.070	3.714	0.000	0.000
9.240	3.911	0.000	0.000
9.410	4.110	0.000	0.000
9.580	4.311	0.000	0.000
9.750	4.514	0.000	0.000
9.920	4.719	0.000	0.000
10.090	4.925	0.000	0.000
10.260	5.134	0.000	0.000
10.430	5.345	0.000	0.000
10.600	5.558	0.000	0.000
10.770	5.772	0.000	0.000
10.940	5.989	0.000	0.000
11.110	6.207	0.000	0.000
11.280	6.428	0.000	0.000
11.450	6.651	0.000	0.000
11.620	6.875	0.000	0.000
11.790	7.102	0.000	0.000
11.960	7.331	0.000	0.000
12.130	7.561	0.000	0.000
12.300	7.794	0.000	0.000
12.470	8.029	0.000	0.000
12.640	8.266	0.000	0.000
12.810	8.505	0.000	0.000
12.980	8.746	0.000	0.000
13.150	8.989	0.000	0.000
13.320	9.234	0.000	0.000
13.365	9.300	0.000	0.000
13.410	9.365	0.000	0.000
13.455	9.431	0.000	0.000
13.500	9.496	0.000	0.000
13.543	9.559	0.155	0.000
13.585	9.621	0.438	0.000
13.628	9.683	0.803	0.000
13.670	9.746	1.232	0.000
13.713	9.809	1.712	0.000
13.755	9.872	2.232	0.000
13.798	9.935	2.780	0.000
13.840	9.998	3.344	0.000
14.010	10.252	5.531	0.000
14.180	10.508	7.123	0.000
14.350	10.766	8.066	0.000
14.520	11.026	8.836	0.000
14.690	11.288	9.544	0.000
14.860	11.553	10.203	0.000
15.030	11.820	10.822	0.000
15.200	12.089	11.407	0.000
15.370	12.360	11.964	0.000
15.540	12.633	12.496	0.000
15.710	12.909	13.006	0.000
15.880	13.187	13.497	0.000
16.050	13.467	13.971	0.000

16.220	13.749	14.429	0.000
16.390	14.034	14.873	0.000
16.560	14.320	15.304	0.000
16.730	14.609	15.724	0.000
16.900	14.901	16.132	0.000
17.070	15.194	16.531	0.000
17.240	15.490	16.920	0.000
17.410	15.788	17.300	0.000
17.580	16.088	17.672	0.000
17.750	16.391	18.037	0.000
17.920	16.696	18.394	0.000
18.090	17.003	18.744	0.000
18.260	17.313	19.088	0.000
18.430	17.625	19.426	0.000
18.600	17.939	19.758	0.000
18.770	18.256	20.085	0.000
18.940	18.574	20.406	0.000
19.110	18.896	20.722	0.000
19.280	19.219	21.034	0.000
19.450	19.545	21.341	0.000
19.620	19.874	21.644	0.000
19.790	20.205	21.942	0.000
19.960	20.538	22.237	0.000
20.130	20.873	22.528	0.000
20.300	21.211	22.815	0.000
20.470	21.552	23.098	0.000

********** **LINK DATA** **********

----------SCENARIO: POSTDEVELOPED
Number of Links: 20

Link Name: 1
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 6
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 4
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 4A
Link Type: Copy
Downstream Link: None

Link Name: 3
Link Type: Copy
Downstream Link Name: Outfall 3

Link Name: 3A
Link Type: Copy
Downstream Link: None

Link Name: 5
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 5A
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: Outfall 3
Link Type: Copy
Downstream Link: None

Link Name: Outfall 5
Link Type: Copy
Downstream Link: None

Link Name: 77 Pump
Link Type: Copy
Downstream Link Name: 20 CFS

Link Name: Wet Pond
Link Type: Structure
Downstream Link Name: PS C

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 6.00
Riser Crest Elevation (ft) : 12.50
Max Pond Elevation (ft) : 20.25
Storage Depth (ft) : 6.50
Pond Bottom Length (ft) : 600.0
Pond Bottom Width (ft) : 200.0

Pond Side Slopes (ft/ft) : L1= 3.00 L2= 3.00 W1= 3.00 W2= 3.00
Bottom Area (sq-ft) : 120000.
Area at Riser Crest El (sq-ft) : 152,721.
(acres) : 3.506
Volume at Riser Crest (cu-ft) : 884,695.
(ac-ft) : 20.310
Area at Max Elevation (sq-ft) : 195710.
(acres) : 4.493
Vol at Max Elevation (cu-ft) : 2,262,619.
(ac-ft) : 51.943

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Average to High
Maintenance : Poor

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 20.00
Common Length (ft) : 0.000
Riser Crest Elevation : 12.50 ft

Hydraulic Structure Geometry

Number of Devices: 0

Link Name: Outfall 2A
Link Type: Copy
Downstream Link: None

Link Name: 13.37 cfs
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk13 - Outfall 2A
Outflow 2 Connected to Link: Lnk20 - PS C Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
13.370	13.370	0.000
100.000	13.370	86.630

Link Name: Thickner Tanks
Link Type: Structure
Downstream Link Name: Wet Pond

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 100.00
Riser Crest Elevation (ft) : 118.00
Max Pond Elevation (ft) : 120.00
Storage Depth (ft) : 18.00
Pond Bottom Length (ft) : 90.0
Pond Bottom Width (ft) : 90.0
Pond Side Slopes (ft/ft) : L1= 0.00 L2= 0.00 W1= 0.00 W2= 0.00
Bottom Area (sq-ft) : 8100.
Area at Riser Crest El (sq-ft) : 8,100.
(acres) : 0.186
Volume at Riser Crest (cu-ft) : 145,800.
(ac-ft) : 3.347
Area at Max Elevation (sq-ft) : 8100.
(acres) : 0.186
Vol at Max Elevation (cu-ft) : 164,025.
(ac-ft) : 3.765

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Average to High
Maintenance : Poor

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 36.00
Common Length (ft) : 0.000
Riser Crest Elevation : 118.00 ft

Hydraulic Structure Geometry

Number of Devices: 1

---Device Number 1 ---
Device Type : Circular Orifice
Control Elevation (ft) : 101.00
Diameter (in) : 16.00
Orientation : Horizontal
Elbow : Yes

Link Name: Surplus
Link Type: Copy
Downstream Link: None

Link Name: PS C
Link Type: Copy
Downstream Link Name: 13.37 cfs

Link Name: 20 CFS

Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk15 - Thickner Tanks
Outflow 2 Connected to Link: Lnk19 - PS 77 Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
20.000	20.000	0.000
100.000	20.000	80.000

Link Name: PS 77 Short
Link Type: Copy
Downstream Link Name: Surplus

Link Name: PS C Short
Link Type: Copy
Downstream Link Name: Surplus

Structure Stage, Storage Discharge Tables

Link: Lnk12 Wet Pond

Elev (ft)	Storage (ac-ft)	Discharge (cfs)	Infilt Discharge (cfs)
6.000	0.000	0.000	0.000
6.043	0.117	0.000	0.000
6.085	0.235	0.000	0.000
6.170	0.470	0.000	0.000
6.340	0.943	0.000	0.000
6.510	1.419	0.000	0.000
6.680	1.899	0.000	0.000
6.850	2.382	0.000	0.000
7.020	2.868	0.000	0.000
7.190	3.357	0.000	0.000
7.360	3.849	0.000	0.000
7.530	4.345	0.000	0.000
7.700	4.844	0.000	0.000
7.870	5.346	0.000	0.000
8.040	5.851	0.000	0.000
8.210	6.360	0.000	0.000
8.380	6.872	0.000	0.000
8.550	7.388	0.000	0.000
8.720	7.906	0.000	0.000
8.890	8.428	0.000	0.000
9.060	8.954	0.000	0.000
9.230	9.482	0.000	0.000

9.400	10.014	0.000	0.000
9.570	10.549	0.000	0.000
9.740	11.088	0.000	0.000
9.910	11.630	0.000	0.000
10.080	12.176	0.000	0.000
10.250	12.724	0.000	0.000
10.420	13.276	0.000	0.000
10.590	13.832	0.000	0.000
10.760	14.391	0.000	0.000
10.930	14.953	0.000	0.000
11.100	15.519	0.000	0.000
11.270	16.088	0.000	0.000
11.440	16.661	0.000	0.000
11.610	17.237	0.000	0.000
11.780	17.817	0.000	0.000
11.950	18.400	0.000	0.000
12.120	18.986	0.000	0.000
12.290	19.576	0.000	0.000
12.343	19.759	0.000	0.000
12.395	19.942	0.000	0.000
12.448	20.126	0.000	0.000
12.500	20.310	0.000	0.000
12.543	20.459	0.155	0.000
12.585	20.608	0.438	0.000
12.628	20.758	0.803	0.000
12.670	20.908	1.232	0.000
12.713	21.058	1.712	0.000
12.755	21.208	2.232	0.000
12.798	21.358	2.780	0.000
12.840	21.509	3.344	0.000
13.010	22.114	5.531	0.000
13.180	22.722	7.123	0.000
13.350	23.334	8.066	0.000
13.520	23.949	8.836	0.000
13.690	24.568	9.544	0.000
13.860	25.190	10.203	0.000
14.030	25.816	10.822	0.000
14.200	26.446	11.407	0.000
14.370	27.079	11.964	0.000
14.540	27.716	12.496	0.000
14.710	28.356	13.006	0.000
14.880	29.001	13.497	0.000
15.050	29.648	13.971	0.000
15.220	30.300	14.429	0.000
15.390	30.955	14.873	0.000
15.560	31.614	15.304	0.000
15.730	32.276	15.724	0.000
15.900	32.943	16.132	0.000
16.070	33.613	16.531	0.000
16.240	34.287	16.920	0.000
16.410	34.965	17.300	0.000
16.580	35.646	17.672	0.000
16.750	36.332	18.037	0.000
16.920	37.021	18.394	0.000
17.090	37.715	18.744	0.000
17.260	38.412	19.088	0.000

17.430	39.113	19.426	0.000
17.600	39.818	19.758	0.000
17.770	40.527	20.085	0.000
17.940	41.240	20.406	0.000
18.110	41.958	20.722	0.000
18.280	42.679	21.034	0.000
18.450	43.404	21.341	0.000
18.620	44.133	21.644	0.000
18.790	44.867	21.942	0.000
18.960	45.604	22.237	0.000
19.130	46.346	22.528	0.000
19.300	47.092	22.815	0.000
19.470	47.842	23.098	0.000
19.640	48.596	23.378	0.000
19.810	49.354	23.655	0.000
19.980	50.117	23.928	0.000
20.150	50.884	24.199	0.000
20.320	51.655	24.466	0.000
20.490	52.430	24.730	0.000
20.660	53.210	24.992	0.000
20.830	53.994	25.251	0.000

Link: Lnk15 Thickner Tanks

Elev (ft)	Storage (ac-ft)	Discharge (cfs)	Infilt Discharge (cfs)
100.000	0.000	0.000	0.000
100.058	0.011	0.000	0.000
100.115	0.021	0.000	0.000
100.230	0.043	0.000	0.000
100.460	0.086	0.000	0.000
100.690	0.128	0.000	0.000
100.768	0.143	0.000	0.000
100.845	0.157	0.000	0.000
100.923	0.172	0.000	0.000
101.000	0.186	0.000	0.000
101.058	0.197	1.556	0.000
101.115	0.207	2.201	0.000
101.173	0.218	2.695	0.000
101.230	0.229	3.112	0.000
101.460	0.271	4.402	0.000
101.690	0.314	5.391	0.000
101.920	0.357	6.225	0.000
102.150	0.400	6.959	0.000
102.380	0.443	7.624	0.000
102.610	0.485	8.235	0.000
102.840	0.528	8.803	0.000
103.070	0.571	9.337	0.000
103.300	0.614	9.842	0.000
103.530	0.656	10.323	0.000
103.760	0.699	10.782	0.000
103.990	0.742	11.222	0.000
104.220	0.785	11.645	0.000
104.450	0.827	12.054	0.000
104.680	0.870	12.449	0.000
104.910	0.913	12.833	0.000

105.140	0.956	13.205	0.000
105.370	0.999	13.566	0.000
105.600	1.041	13.919	0.000
105.830	1.084	14.263	0.000
106.060	1.127	14.598	0.000
106.290	1.170	14.926	0.000
106.520	1.212	15.247	0.000
106.750	1.255	15.562	0.000
106.980	1.298	15.870	0.000
107.210	1.341	16.172	0.000
107.440	1.383	16.469	0.000
107.670	1.426	16.761	0.000
107.900	1.469	17.047	0.000
108.130	1.512	17.329	0.000
108.360	1.555	17.606	0.000
108.590	1.597	17.879	0.000
108.820	1.640	18.148	0.000
109.050	1.683	18.413	0.000
109.280	1.726	18.674	0.000
109.510	1.768	18.932	0.000
109.740	1.811	19.186	0.000
109.970	1.854	19.437	0.000
110.200	1.897	19.684	0.000
110.430	1.939	19.929	0.000
110.660	1.982	20.170	0.000
110.890	2.025	20.409	0.000
111.120	2.068	20.645	0.000
111.350	2.111	20.878	0.000
111.580	2.153	21.109	0.000
111.810	2.196	21.337	0.000
112.040	2.239	21.563	0.000
112.270	2.282	21.786	0.000
112.500	2.324	22.008	0.000
112.730	2.367	22.227	0.000
112.960	2.410	22.444	0.000
113.190	2.453	22.658	0.000
113.420	2.495	22.871	0.000
113.650	2.538	23.082	0.000
113.880	2.581	23.291	0.000
114.110	2.624	23.498	0.000
114.340	2.667	23.703	0.000
114.570	2.709	23.906	0.000
114.800	2.752	24.108	0.000
115.030	2.795	24.308	0.000
115.260	2.838	24.507	0.000
115.490	2.880	24.704	0.000
115.720	2.923	24.899	0.000
115.950	2.966	25.093	0.000
116.180	3.009	25.285	0.000
116.410	3.051	25.476	0.000
116.640	3.094	25.665	0.000
116.870	3.137	25.853	0.000
117.100	3.180	26.040	0.000
117.330	3.223	26.225	0.000
117.560	3.265	26.409	0.000
117.670	3.286	26.497	0.000

117.780	3.306	26.584	0.000
117.890	3.327	26.671	0.000
118.000	3.347	26.758	0.000
118.058	3.358	27.242	0.000
118.115	3.368	28.088	0.000
118.173	3.379	29.170	0.000
118.230	3.390	30.439	0.000
118.288	3.401	31.864	0.000
118.345	3.411	33.422	0.000
118.403	3.422	35.091	0.000
118.460	3.433	36.849	0.000
118.690	3.475	44.356	0.000
118.920	3.518	51.573	0.000
119.150	3.561	57.275	0.000

**********FLOOD FREQUENCY AND DURATION STATISTICS**********

----------SCENARIO: PREDEVELOPED
Number of Subbasins: 8
Number of Links: 19

----------SCENARIO: POSTDEVELOPED
Number of Subbasins: 8
Number of Links: 20

**********Water Quality Facility Data **********

----------SCENARIO: PREDEVELOPED

Number of Links: 19

********** Link: PS 77 Short **********

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 245.10
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

----------SCENARIO: POSTDEVELOPED

Number of Links: 20

********** Link: PS 77 Short **********

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 245.10
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

*************Compliance Point Results ***************

Scenario Predeveloped Compliance Link: PS 77 Short
Scenario Postdeveloped Compliance Link: PS 77 Short
****Point of Compliance Annual Maxima Flow Data ****

Predevelopment Runoff		Postdevelopment Runoff	
Date	Annual Max Q (cfs)	Date	Annual Max Q (cfs)
10/27/1939	6.370	10/27/1939	6.370
09/02/1941	11.860	09/02/1941	11.860
12/15/1941	21.226	12/15/1941	21.226
10/01/1942	0.000	10/01/1942	0.000
10/01/1943	0.000	10/01/1943	0.000
02/07/1945	9.867	02/07/1945	9.867
01/23/1946	3.899	01/23/1946	3.899
10/20/1946	7.178	10/20/1946	7.178
03/21/1948	9.926	03/21/1948	9.926
09/14/1949	5.547	09/14/1949	5.547
03/03/1950	34.331	03/03/1950	34.331
10/01/1950	0.000	10/01/1950	0.000
06/29/1952	16.108	06/29/1952	16.108
09/30/1953	8.556	09/30/1953	8.556
12/19/1953	3.629	12/19/1953	3.629
10/01/1954	0.000	10/01/1954	0.000
10/07/1955	5.589	10/07/1955	5.589
10/01/1956	0.000	10/01/1956	0.000
01/16/1958	3.683	01/16/1958	3.683
10/01/1958	0.000	10/01/1958	0.000
12/15/1959	5.305	12/15/1959	5.305
02/14/1961	5.480	02/14/1961	5.480
07/05/1962	8.299	07/05/1962	8.299
10/01/1962	0.000	10/01/1962	0.000
09/17/1964	9.886	09/17/1964	9.886
05/04/1965	3.134	05/04/1965	3.134
01/05/1966	2.921	01/05/1966	2.921
11/13/1966	17.780	11/13/1966	17.780
08/23/1968	20.949	08/23/1968	20.949
12/03/1968	0.860	12/03/1968	0.860
01/13/1970	3.387	01/13/1970	3.387
12/06/1970	1.597	12/06/1970	1.597
02/27/1972	16.889	02/27/1972	16.889
01/13/1973	0.513	01/13/1973	0.513
11/11/1973	3.422	11/11/1973	3.422
12/26/1974	14.157	12/26/1974	14.157
12/02/1975	1.325	12/02/1975	1.325
08/26/1977	5.184	08/26/1977	5.184
09/17/1978	15.341	09/17/1978	15.341
09/08/1979	9.329	09/08/1979	9.329
12/14/1979	12.810	12/14/1979	12.810
11/21/1980	12.621	11/21/1980	12.621
10/06/1981	28.245	10/06/1981	28.245
10/28/1982	13.832	10/28/1982	13.832
01/03/1984	3.778	01/03/1984	3.778
06/06/1985	1.339	06/06/1985	1.339

01/18/1986	10.868	01/18/1986	10.868
10/26/1986	20.115	10/26/1986	20.115
10/01/1987	0.000	10/01/1987	0.000
08/21/1989	4.892	08/21/1989	4.892
01/09/1990	32.022	01/09/1990	32.022
11/24/1990	29.704	11/24/1990	29.704
01/27/1992	5.524	01/27/1992	5.524
10/01/1992	0.000	10/01/1992	0.000
10/01/1993	0.000	10/01/1993	0.000
11/30/1994	2.995	11/30/1994	2.995
02/08/1996	14.256	02/08/1996	14.256
01/02/1997	10.430	01/02/1997	10.430
10/29/1997	1.659	10/29/1997	1.659
11/04/1998	40.254	11/04/1998	40.254
09/26/2000	28.234	09/26/2000	28.234
10/29/2000	9.940	10/29/2000	9.940
12/15/2001	0.431	12/15/2001	0.431
12/27/2002	26.147	12/27/2002	26.147
10/01/2003	0.000	10/01/2003	0.000
09/21/2005	1.259	09/21/2005	1.259
11/18/2005	0.630	11/18/2005	0.630
10/01/2006	0.000	10/01/2006	0.000
02/14/2008	5.819	02/14/2008	5.819
09/04/2009	13.456	09/04/2009	13.456
11/23/2009	0.483	11/23/2009	0.483
02/07/2011	6.649	02/07/2011	6.649
10/22/2011	13.665	10/22/2011	13.665
01/08/2013	4.186	01/08/2013	4.186
07/20/2014	11.390	07/20/2014	11.390
10/01/2014	0.000	10/01/2014	0.000
12/21/2015	17.201	12/21/2015	17.201
02/25/2017	5.746	02/25/2017	5.746
06/06/2018	16.807	06/06/2018	16.807
10/01/2018	0.000	10/01/2018	0.000
10/10/2019	9.976	10/10/2019	9.976
11/24/2020	8.054	11/24/2020	8.054
12/20/2021	4.276	12/20/2021	4.276
11/25/2022	6.549	11/25/2022	6.549
01/25/2024	2.676	01/25/2024	2.676
12/26/2024	6.309	12/26/2024	6.309
01/03/2026	6.963	01/03/2026	6.963
11/13/2026	7.392	11/13/2026	7.392
08/19/2028	34.981	08/19/2028	34.981
09/17/2029	24.499	09/17/2029	24.499
01/22/2030	33.466	01/22/2030	33.466
08/22/2031	5.922	08/22/2031	5.922
09/09/2032	5.120	09/09/2032	5.120
08/24/2033	6.249	08/24/2033	6.249
11/15/2033	18.822	11/15/2033	18.822
10/01/2034	0.000	10/01/2034	0.000
02/27/2036	9.313	02/27/2036	9.313
10/01/2036	0.000	10/01/2036	0.000
12/13/2037	12.056	12/13/2037	12.056
01/10/2039	15.467	01/10/2039	15.467
10/01/2039	0.000	10/01/2039	0.000
12/25/2040	13.254	12/25/2040	13.254

09/20/2042	15.787	09/20/2042	15.787
03/09/2043	16.729	03/09/2043	16.729
11/13/2043	0.712	11/13/2043	0.712
10/25/2044	2.350	10/25/2044	2.350
09/25/2046	17.166	09/25/2046	17.166
01/31/2047	1.651	01/31/2047	1.651
09/19/2048	11.137	09/19/2048	11.137
04/25/2049	3.939	04/25/2049	3.939
11/12/2049	3.420	11/12/2049	3.420
01/14/2051	5.307	01/14/2051	5.307
02/18/2052	3.417	02/18/2052	3.417
12/10/2052	18.294	12/10/2052	18.294
02/24/2054	2.048	02/24/2054	2.048
10/26/2054	11.281	10/26/2054	11.281
09/14/2056	31.566	09/14/2056	31.566
05/31/2057	24.689	05/31/2057	24.689
10/29/2057	22.126	10/29/2057	22.126
11/26/2058	4.124	11/26/2058	4.124
10/01/2059	0.000	10/01/2059	0.000

******Point of Compliance Ranked Maxima Flow Data ******

Predevelopment		Postdevelopment	
Tr (yrs)	Q (cfs)	Tr (yrs)	Q (cfs)
1.00	0.000	1.00	0.000
1.01	0.000	1.01	0.000
1.02	0.000	1.02	0.000
1.03	0.000	1.03	0.000
1.04	0.000	1.04	0.000
1.05	0.000	1.05	0.000
1.06	0.000	1.06	0.000
1.07	0.000	1.07	0.000
1.08	0.000	1.08	0.000
1.09	0.000	1.09	0.000
1.10	0.000	1.10	0.000
1.11	0.000	1.11	0.000
1.12	0.000	1.12	0.000
1.13	0.000	1.13	0.000
1.14	0.000	1.14	0.000
1.15	0.000	1.15	0.000
1.16	0.000	1.16	0.000
1.17	0.000	1.17	0.000
1.18	0.431	1.18	0.431
1.19	0.483	1.19	0.483
1.20	0.513	1.20	0.513
1.22	0.630	1.22	0.630
1.23	0.712	1.23	0.712
1.24	0.860	1.24	0.860
1.25	1.259	1.25	1.259
1.27	1.325	1.27	1.325
1.28	1.339	1.28	1.339
1.29	1.597	1.29	1.597
1.31	1.651	1.31	1.651
1.32	1.659	1.32	1.659
1.34	2.048	1.34	2.048

1.35	2.350	1.35	2.350
1.37	2.676	1.37	2.676
1.38	2.921	1.38	2.921
1.40	2.995	1.40	2.995
1.42	3.134	1.42	3.134
1.43	3.387	1.43	3.387
1.45	3.417	1.45	3.417
1.47	3.420	1.47	3.420
1.49	3.422	1.49	3.422
1.50	3.629	1.50	3.629
1.52	3.683	1.52	3.683
1.54	3.778	1.54	3.778
1.56	3.899	1.56	3.899
1.58	3.939	1.58	3.939
1.60	4.124	1.60	4.124
1.62	4.186	1.62	4.186
1.65	4.276	1.65	4.276
1.67	4.892	1.67	4.892
1.69	5.120	1.69	5.120
1.72	5.184	1.72	5.184
1.74	5.305	1.74	5.305
1.77	5.307	1.77	5.307
1.79	5.480	1.79	5.480
1.82	5.524	1.82	5.524
1.85	5.547	1.85	5.547
1.88	5.589	1.88	5.589
1.91	5.746	1.91	5.746
1.94	5.819	1.94	5.819
1.97	5.922	1.97	5.922
2.00	6.249	2.00	6.249
2.03	6.309	2.03	6.309
2.07	6.370	2.07	6.370
2.10	6.549	2.10	6.549
2.14	6.649	2.14	6.649
2.18	6.963	2.18	6.963
2.22	7.178	2.22	7.178
2.26	7.392	2.26	7.392
2.30	8.054	2.30	8.054
2.35	8.299	2.35	8.299
2.40	8.556	2.40	8.556
2.44	9.313	2.44	9.313
2.49	9.329	2.49	9.329
2.55	9.867	2.55	9.867
2.60	9.886	2.60	9.886
2.66	9.926	2.66	9.926
2.72	9.940	2.72	9.940
2.78	9.976	2.78	9.976
2.85	10.430	2.85	10.430
2.91	10.868	2.91	10.868
2.99	11.137	2.99	11.137
3.06	11.281	3.06	11.281
3.14	11.390	3.14	11.390
3.22	11.860	3.22	11.860
3.31	12.056	3.31	12.056
3.41	12.621	3.41	12.621
3.50	12.810	3.50	12.810

3.61	13.254	3.61	13.254
3.72	13.456	3.72	13.456
3.84	13.665	3.84	13.665
3.96	13.832	3.96	13.832
4.10	14.157	4.10	14.157
4.24	14.256	4.24	14.256
4.39	15.341	4.39	15.341
4.56	15.467	4.56	15.467
4.74	15.787	4.74	15.787
4.93	16.108	4.93	16.108
5.14	16.729	5.14	16.729
5.37	16.807	5.37	16.807
5.62	16.889	5.62	16.889
5.89	17.166	5.89	17.166
6.19	17.201	6.19	17.201
6.53	17.780	6.53	17.780
6.90	18.294	6.90	18.294
7.31	18.822	7.31	18.822
7.78	20.115	7.78	20.115
8.32	20.949	8.32	20.949
8.93	21.226	8.93	21.226
9.64	22.126	9.64	22.126
10.48	24.499	10.48	24.499
11.47	24.689	11.47	24.689
12.67	26.147	12.67	26.147
14.15	28.234	14.15	28.234
16.02	28.245	16.02	28.245
18.46	29.704	18.46	29.704
21.78	31.566	21.78	31.566
26.56	32.022	26.56	32.022
34.02	33.466	34.02	33.466
47.31	34.331	47.31	34.331
77.64	34.981	77.64	34.981
216.29	40.254	216.29	40.254

***** Point of Compliance Flow Frequency Data *****

Recurrence Interval Computed Using Gringorten Plotting Position

Predevelopment Runoff		Postdevelopment Runoff	
Tr (Years)	Discharge (cfs)	Tr (Years)	Discharge (cfs)
2-Year	6.249	2-Year	6.249
5-Year	16.314	5-Year	16.314
10-Year	23.165	10-Year	23.165
25-Year	31.882	25-Year	31.882
50-Year	34.404	50-Year	34.404
100-Year	36.283	100-Year	36.283
200-Year	39.851	200-Year	39.851

** Record too Short to Compute Peak Discharge for These Recurrence Intervals

***** Point of Compliance Flow Duration Data *****

Predevelopment Runoff		Postdevelopment Runoff	
Discharge (cfs)	Exceedance Probability	Discharge (cfs)	Exceedance Probability

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0.000E+00	1.0000E+00	0.000E+00	1.0000E+00
0.201	4.4782E-04	0.201	4.4782E-04
0.403	4.3179E-04	0.403	4.3179E-04
0.604	4.1293E-04	0.604	4.1293E-04
0.805	3.9502E-04	0.805	3.9502E-04
1.006	3.7899E-04	1.006	3.7899E-04
1.208	3.6108E-04	1.208	3.6108E-04
1.409	3.4128E-04	1.409	3.4128E-04
1.610	3.3280E-04	1.610	3.3280E-04
1.811	3.2337E-04	1.811	3.2337E-04
2.013	3.0734E-04	2.013	3.0734E-04
2.214	2.9509E-04	2.214	2.9509E-04
2.415	2.8754E-04	2.415	2.8754E-04
2.616	2.7906E-04	2.616	2.7906E-04
2.818	2.7435E-04	2.818	2.7435E-04
3.019	2.6303E-04	3.019	2.6303E-04
3.125	2.6012E-04	3.125	2.6012E-04
3.422	2.5172E-04	3.422	2.5172E-04
3.623	2.4512E-04	3.623	2.4512E-04
3.824	2.3286E-04	3.824	2.3286E-04
4.025	2.2626E-04	4.025	2.2626E-04
4.227	2.2155E-04	4.227	2.2155E-04
4.428	2.1589E-04	4.428	2.1589E-04
4.629	2.1024E-04	4.629	2.1024E-04
4.830	1.9987E-04	4.830	1.9987E-04
5.032	1.9138E-04	5.032	1.9138E-04
5.233	1.8384E-04	5.233	1.8384E-04
5.434	1.7913E-04	5.434	1.7913E-04
5.635	1.7064E-04	5.635	1.7064E-04
5.837	1.6216E-04	5.837	1.6216E-04
6.038	1.6027E-04	6.038	1.6027E-04
6.249	1.5728E-04	6.249	1.5728E-04
6.441	1.5367E-04	6.441	1.5367E-04
6.642	1.4801E-04	6.642	1.4801E-04
6.843	1.4424E-04	6.843	1.4424E-04
7.044	1.4236E-04	7.044	1.4236E-04
7.246	1.3670E-04	7.246	1.3670E-04
7.447	1.3105E-04	7.447	1.3105E-04
7.648	1.2822E-04	7.648	1.2822E-04
7.849	1.2633E-04	7.849	1.2633E-04
8.051	1.2539E-04	8.051	1.2539E-04
8.252	1.2162E-04	8.252	1.2162E-04
8.453	1.1785E-04	8.453	1.1785E-04
8.655	1.1408E-04	8.655	1.1408E-04
8.856	1.1313E-04	8.856	1.1313E-04
9.057	1.1030E-04	9.057	1.1030E-04
9.258	1.0559E-04	9.258	1.0559E-04
9.460	9.9934E-05	9.460	9.9934E-05
9.661	9.7105E-05	9.661	9.7105E-05
9.862	9.4277E-05	9.862	9.4277E-05
10.063	8.7678E-05	10.063	8.7678E-05
10.265	8.4849E-05	10.265	8.4849E-05
10.466	8.2021E-05	10.466	8.2021E-05
10.667	7.8250E-05	10.667	7.8250E-05

10.868	7.6364E-05	10.868	7.6364E-05
11.070	7.5422E-05	11.070	7.5422E-05
11.271	7.4479E-05	11.271	7.4479E-05
11.472	6.7879E-05	11.472	6.7879E-05
11.674	6.5994E-05	11.674	6.5994E-05
11.875	6.4108E-05	11.875	6.4108E-05
12.076	6.2223E-05	12.076	6.2223E-05
12.277	6.1280E-05	12.277	6.1280E-05
12.479	6.1280E-05	12.479	6.1280E-05
12.680	6.0337E-05	12.680	6.0337E-05
12.881	5.8452E-05	12.881	5.8452E-05
13.082	5.8452E-05	13.082	5.8452E-05
13.284	5.6566E-05	13.284	5.6566E-05
13.485	5.4681E-05	13.485	5.4681E-05
13.686	5.3738E-05	13.686	5.3738E-05
13.887	5.2795E-05	13.887	5.2795E-05
14.089	5.2795E-05	14.089	5.2795E-05
14.290	4.9967E-05	14.290	4.9967E-05
14.491	4.8081E-05	14.491	4.8081E-05
14.693	4.5253E-05	14.693	4.5253E-05
14.894	4.4310E-05	14.894	4.4310E-05
15.095	4.1482E-05	15.095	4.1482E-05
15.296	4.1482E-05	15.296	4.1482E-05
15.498	3.8654E-05	15.498	3.8654E-05
15.699	3.8654E-05	15.699	3.8654E-05
15.900	3.7711E-05	15.900	3.7711E-05
16.101	3.6768E-05	16.101	3.6768E-05
16.314	3.5752E-05	16.314	3.5752E-05
16.504	3.4882E-05	16.504	3.4882E-05
16.705	3.4882E-05	16.705	3.4882E-05
16.906	3.1111E-05	16.906	3.1111E-05
17.108	3.1111E-05	17.108	3.1111E-05
17.309	2.9226E-05	17.309	2.9226E-05
17.510	2.8283E-05	17.510	2.8283E-05
17.712	2.8283E-05	17.712	2.8283E-05
17.913	2.7340E-05	17.913	2.7340E-05
18.114	2.7340E-05	18.114	2.7340E-05
18.315	2.5455E-05	18.315	2.5455E-05
18.517	2.5455E-05	18.517	2.5455E-05
18.718	2.5455E-05	18.718	2.5455E-05
18.919	2.4512E-05	18.919	2.4512E-05
19.120	2.3569E-05	19.120	2.3569E-05
19.322	2.3569E-05	19.322	2.3569E-05
19.523	2.3569E-05	19.523	2.3569E-05
19.724	2.2626E-05	19.724	2.2626E-05
19.925	2.2626E-05	19.925	2.2626E-05
20.127	2.1684E-05	20.127	2.1684E-05
20.328	2.1684E-05	20.328	2.1684E-05
20.529	2.1684E-05	20.529	2.1684E-05
20.731	1.9798E-05	20.731	1.9798E-05
20.932	1.9798E-05	20.932	1.9798E-05
21.133	1.8855E-05	21.133	1.8855E-05
21.334	1.6970E-05	21.334	1.6970E-05
21.536	1.6027E-05	21.536	1.6027E-05
21.737	1.6027E-05	21.737	1.6027E-05
21.938	1.6027E-05	21.938	1.6027E-05

22.139	1.5084E-05	22.139	1.5084E-05
22.341	1.5084E-05	22.341	1.5084E-05
22.542	1.5084E-05	22.542	1.5084E-05
22.743	1.5084E-05	22.743	1.5084E-05
22.945	1.5084E-05	22.945	1.5084E-05
23.146	1.5084E-05	23.146	1.5084E-05
23.347	1.4142E-05	23.347	1.4142E-05
23.548	1.3199E-05	23.548	1.3199E-05
23.750	1.2256E-05	23.750	1.2256E-05
23.951	1.2256E-05	23.951	1.2256E-05
24.152	1.2256E-05	24.152	1.2256E-05
24.353	1.2256E-05	24.353	1.2256E-05
24.555	1.1313E-05	24.555	1.1313E-05
24.756	9.4277E-06	24.756	9.4277E-06
24.957	9.4277E-06	24.957	9.4277E-06
25.158	9.4277E-06	25.158	9.4277E-06
25.360	9.4277E-06	25.360	9.4277E-06
25.561	9.4277E-06	25.561	9.4277E-06
25.762	9.4277E-06	25.762	9.4277E-06
25.964	9.4277E-06	25.964	9.4277E-06
26.165	8.4849E-06	26.165	8.4849E-06
26.366	8.4849E-06	26.366	8.4849E-06
26.567	8.4849E-06	26.567	8.4849E-06
26.769	8.4849E-06	26.769	8.4849E-06
26.970	8.4849E-06	26.970	8.4849E-06
27.171	8.4849E-06	27.171	8.4849E-06
27.372	8.4849E-06	27.372	8.4849E-06
27.574	8.4849E-06	27.574	8.4849E-06
27.775	8.4849E-06	27.775	8.4849E-06
27.976	8.4849E-06	27.976	8.4849E-06
28.177	8.4849E-06	28.177	8.4849E-06
28.379	6.5994E-06	28.379	6.5994E-06
28.580	6.5994E-06	28.580	6.5994E-06
28.781	6.5994E-06	28.781	6.5994E-06
28.983	6.5994E-06	28.983	6.5994E-06
29.184	6.5994E-06	29.184	6.5994E-06
29.385	6.5994E-06	29.385	6.5994E-06
29.586	6.5994E-06	29.586	6.5994E-06
29.788	5.6566E-06	29.788	5.6566E-06
29.989	5.6566E-06	29.989	5.6566E-06
30.190	5.6566E-06	30.190	5.6566E-06
30.391	5.6566E-06	30.391	5.6566E-06
30.593	5.6566E-06	30.593	5.6566E-06
30.794	5.6566E-06	30.794	5.6566E-06
30.995	5.6566E-06	30.995	5.6566E-06
31.196	5.6566E-06	31.196	5.6566E-06
31.398	5.6566E-06	31.398	5.6566E-06
31.599	4.7139E-06	31.599	4.7139E-06
31.800	4.7139E-06	31.800	4.7139E-06
32.002	4.7139E-06	32.002	4.7139E-06
32.203	3.7711E-06	32.203	3.7711E-06
32.404	3.7711E-06	32.404	3.7711E-06
32.605	3.7711E-06	32.605	3.7711E-06
32.807	3.7711E-06	32.807	3.7711E-06
33.008	3.7711E-06	33.008	3.7711E-06
33.209	3.7711E-06	33.209	3.7711E-06

33.410	3.7711E-06	33.410	3.7711E-06
33.612	2.8283E-06	33.612	2.8283E-06
33.813	2.8283E-06	33.813	2.8283E-06
34.014	2.8283E-06	34.014	2.8283E-06
34.215	2.8283E-06	34.215	2.8283E-06
34.404	1.9242E-06	34.404	1.9242E-06
34.618	1.8855E-06	34.618	1.8855E-06
34.819	1.8855E-06	34.819	1.8855E-06
35.021	9.4277E-07	35.021	9.4277E-07
35.222	9.4277E-07	35.222	9.4277E-07
35.423	9.4277E-07	35.423	9.4277E-07
35.624	9.4277E-07	35.624	9.4277E-07
35.826	9.4277E-07	35.826	9.4277E-07
36.027	9.4277E-07	36.027	9.4277E-07
36.228	9.4277E-07	36.228	9.4277E-07
36.429	9.4277E-07	36.429	9.4277E-07
36.631	9.4277E-07	36.631	9.4277E-07
36.832	9.4277E-07	36.832	9.4277E-07
37.033	9.4277E-07	37.033	9.4277E-07
37.235	9.4277E-07	37.235	9.4277E-07
37.436	9.4277E-07	37.436	9.4277E-07
37.637	9.4277E-07	37.637	9.4277E-07
37.838	9.4277E-07	37.838	9.4277E-07
38.040	9.4277E-07	38.040	9.4277E-07
38.241	9.4277E-07	38.241	9.4277E-07
38.442	9.4277E-07	38.442	9.4277E-07
38.643	9.4277E-07	38.643	9.4277E-07
38.845	9.4277E-07	38.845	9.4277E-07
39.046	9.4277E-07	39.046	9.4277E-07
39.247	9.4277E-07	39.247	9.4277E-07
39.448	9.4277E-07	39.448	9.4277E-07
39.650	9.4277E-07	39.650	9.4277E-07
39.851	9.4277E-07	39.851	9.4277E-07
40.052	9.4277E-07	40.052	9.4277E-07
40.254	9.4277E-07	40.254	9.4277E-07

****** Flow Duration Performance According to Dept. of Ecology Criteria ******

Excursion at Predeveloped ½Q2 (Must be Less Than 0%):	0.0%	PASS
Maximum Excursion from ½Q2 to Q2 (Must be Less Than 0%):	0.0%	PASS
Maximum Excursion from Q2 to Q50 (Must be less than 10%):	0.0%	PASS
Percent Excursion from Q2 to Q50 (Must be less than 50%):	0.0%	PASS

POND MEETS ALL DURATION DESIGN CRITERIA: PASS

Subbasin Total	44.480

---------- Subbasin : Subbasin 1 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	18.080
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	72.400
Subbasin Total	90.480

---------- Subbasin : Subbasin 3A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	15.820
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.340
Subbasin Total	16.160

---------- Subbasin : Subbasin 4 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	59.720
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	6.680
Subbasin Total	66.400

---------- Subbasin : Subbasin 5 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	37.010

Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	15.780
Subbasin Total	52.790

---------- Subbasin : Subbasin 6 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	41.650
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	3.580
Subbasin Total	45.230

---------- Subbasin : Subbasin 4A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	3.830
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	1.720
Subbasin Total	5.550

---------- Subbasin : Subbasin 5A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	26.140
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.000

Subbasin Total 26.140

---------- Subbasin : Subbasin 2 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	33.120
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.000
Subbasin Total	33.120

---------- Subbasin : Subbasin 6A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	6.190
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.160
Subbasin Total	6.350

----------SCENARIO: POSTDEVELOPED

Number of Subbasins: 8

---------- Subbasin : Subbasin 3 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	27.200
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	17.280
Subbasin Total	44.480

---------- Subbasin : Subbasin 1 ----------

-------Area(Acres) --------

Till Forest	0.000
Till Pasture	0.000
Till Grass	18.080
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	72.400
Subbasin Total	90.480

---------- Subbasin : Subbasin 3A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	15.820
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.340
Subbasin Total	16.160

---------- Subbasin : Subbasin 4 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	59.720
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	6.680
Subbasin Total	66.400

---------- Subbasin : Subbasin 5 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	37.010
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000

User	0.000
Impervious	15.780
Subbasin Total	52.790

---------- Subbasin : Subbasin 6 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	41.650
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	3.580
Subbasin Total	45.230

---------- Subbasin : Subbasin 4A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	3.830
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	1.720
Subbasin Total	5.550

---------- Subbasin : Subbasin 5A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	26.140
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.000
Subbasin Total	26.140

********** **LINK DATA** **********

----------SCENARIO: PREDEVELOPED
Number of Links: 21

Link Name: 1
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 6
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 4
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 4A
Link Type: Copy
Downstream Link: None

Link Name: 3
Link Type: Copy
Downstream Link Name: Outfall 3

Link Name: 3A
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 5
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 5A
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: Outfall 3
Link Type: Copy

Downstream Link: None

Link Name: Outfall 5
Link Type: Copy
Downstream Link: None

Link Name: 77 Pump
Link Type: Copy
Downstream Link Name: 15 CFS

Link Name: Wet Pond
Link Type: Structure
Downstream Link Name: PS C

Prismatic Pond Option Used

Pond Floor Elevation (ft)	:	5.50
Riser Crest Elevation (ft)	:	13.50
Max Pond Elevation (ft)	:	20.25
Storage Depth (ft)	:	8.00
Pond Bottom Length (ft)	:	300.0
Pond Bottom Width (ft)	:	135.0
Pond Side Slopes (ft/ft)	:	L1= 3.00 L2= 3.00 W1= 3.00 W2= 3.00
Bottom Area (sq-ft)	:	40500.
Area at Riser Crest El (sq-ft)	:	63,684.
(acres)	:	1.462
Volume at Riser Crest (cu-ft)	:	413,664.
(ac-ft)	:	9.496
Area at Max Elevation (sq-ft)	:	86830.
(acres)	:	1.993
Vol at Max Elevation (cu-ft)	:	932,540.
(ac-ft)	:	21.408

Massmann Infiltration Option Used

Hydraulic Conductivity (in/hr)	:	0.00
Depth to Water Table (ft)	:	100.00
Bio-Fouling Potential	:	Low
Maintenance	:	Average or Better

Riser Geometry

Riser Structure Type	:	Circular
Riser Diameter (in)	:	20.00
Common Length (ft)	:	0.000
Riser Crest Elevation	:	13.50 ft

Hydraulic Structure Geometry

Number of Devices: 0

Link Name: Outfall 2A
Link Type: Copy
Downstream Link: None

Link Name: 15 CFS
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk12 - Wet Pond
Outflow 2 Connected to Link: Lnk18 - PS 77 Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
15.000	15.000	0.000
100.000	15.000	85.000

Link Name: Surplus
Link Type: Copy
Downstream Link: None

Link Name: 13.37 CFS
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk13 - Outfall 2A
Outflow 2 Connected to Link: Lnk19 - PS C Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
13.370	13.370	0.000
100.000	13.370	86.630

Link Name: PS C
Link Type: Copy
Downstream Link Name: 13.37 CFS

Link Name: PS 77 Short
Link Type: Copy
Downstream Link Name: Surplus

Link Name: PS C Short
Link Type: Copy
Downstream Link Name: Surplus

Link Name: Outfall 6
Link Type: Copy
Downstream Link: None

Link Name: 6A
Link Type: Copy
Downstream Link: None

********** LINK DATA **********

----------SCENARIO: POSTDEVELOPED
Number of Links: 20

Link Name: 1
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 6
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 4
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 4A
Link Type: Copy
Downstream Link: None

Link Name: 3
Link Type: Copy
Downstream Link Name: Outfall 3

Link Name: 3A
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 5
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 5A
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: Outfall 3
Link Type: Copy
Downstream Link: None

Link Name: Outfall 5
Link Type: Copy
Downstream Link: None

Link Name: 77 Pump
Link Type: Copy
Downstream Link Name: 16 CFS

Link Name: Wet Pond
Link Type: Structure
Downstream Link Name: PS C

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 6.00
Riser Crest Elevation (ft) : 13.50
Max Pond Elevation (ft) : 20.25
Storage Depth (ft) : 7.50
Pond Bottom Length (ft) : 300.0
Pond Bottom Width (ft) : 135.0
Pond Side Slopes (ft/ft) : L1= 3.00 L2= 3.00 W1= 3.00 W2= 3.00
Bottom Area (sq-ft) : 40500.
Area at Riser Crest El (sq-ft) : 62,100.
(acres) : 1.426
Volume at Riser Crest (cu-ft) : 382,219.
(ac-ft) : 8.775
Area at Max Elevation (sq-ft) : 85003.
(acres) : 1.951
Vol at Max Elevation (cu-ft) : 889,265.

(ac-ft) : 20.415

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Average to High
Maintenance : Poor

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 20.00
Common Length (ft) : 0.000
Riser Crest Elevation : 13.50 ft

Hydraulic Structure Geometry

Number of Devices: 0

Link Name: Outfall 2A
Link Type: Copy
Downstream Link: None

Link Name: 13.37 cfs
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk13 - Outfall 2A
Outflow 2 Connected to Link: Lnk20 - PS C Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
13.370	13.370	0.000
100.000	13.370	86.630

Link Name: Thickner Tanks
Link Type: Structure
Downstream Link Name: Wet Pond

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 100.00
Riser Crest Elevation (ft) : 118.00
Max Pond Elevation (ft) : 120.00
Storage Depth (ft) : 18.00
Pond Bottom Length (ft) : 90.0
Pond Bottom Width (ft) : 90.0
Pond Side Slopes (ft/ft) : L1= 0.00 L2= 0.00 W1= 0.00 W2= 0.00
Bottom Area (sq-ft) : 8100.

Area at Riser Crest El (sq-ft) : 8,100.
(acres) : 0.186
Volume at Riser Crest (cu-ft) : 145,800.
(ac-ft) : 3.347
Area at Max Elevation (sq-ft) : 8100.
(acres) : 0.186
Vol at Max Elevation (cu-ft) : 164,025.
(ac-ft) : 3.765

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Average to High
Maintenance : Poor

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 36.00
Common Length (ft) : 0.000
Riser Crest Elevation : 118.00 ft

Hydraulic Structure Geometry

Number of Devices: 1

---Device Number 1 ---
Device Type : Circular Orifice
Control Elevation (ft) : 101.00
Diameter (in) : 14.00
Orientation : Horizontal
Elbow : Yes

Link Name: Surplus
Link Type: Copy
Downstream Link: None

Link Name: PS C
Link Type: Copy
Downstream Link Name: 13.37 cfs

Link Name: 16 CFS
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk15 - Thickner Tanks
Outflow 2 Connected to Link: Lnk19 - PS 77 Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)

0.000	0.000	0.000
1.000	1.000	0.000
16.000	16.000	0.000
100.000	16.000	84.000

Link Name: PS 77 Short
Link Type: Copy
Downstream Link Name: Surplus

Link Name: PS C Short
Link Type: Copy
Downstream Link Name: Surplus

*************************FLOOD FREQUENCY AND DURATION STATISTICS**********************

----------SCENARIO: PREDEVELOPED
Number of Subbasins: 10
Number of Links: 21

************ Subbasin: Subbasin 3 ************

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.086
5-Year	9.937
10-Year	11.604
25-Year	15.660
50-Year	16.535
100-Year	16.839
200-Year	17.192

************ Subbasin: Subbasin 1 ************

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	22.715
5-Year	30.120
10-Year	34.892
25-Year	41.142
50-Year	44.146
100-Year	46.072
200-Year	49.092

************ Subbasin: Subbasin 3A ************

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.341
5-Year	2.217
10-Year	2.989
25-Year	4.094
50-Year	4.633
100-Year	4.889
200-Year	4.890

********** **Subbasin: Subbasin 4** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	4.322
5-Year	6.626
10-Year	8.275
25-Year	10.987
50-Year	12.185
100-Year	12.915
200-Year	12.930

********** **Subbasin: Subbasin 5** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.314
5-Year	10.615
10-Year	12.776
25-Year	17.322
50-Year	18.636
100-Year	18.758
200-Year	18.879

********** **Subbasin: Subbasin 6** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	2.738
5-Year	4.221
10-Year	5.406
25-Year	7.209
50-Year	7.978
100-Year	8.480
200-Year	8.482

********** **Subbasin: Subbasin 4A** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.786
5-Year	1.137
10-Year	1.356
25-Year	1.839
50-Year	1.979
100-Year	1.986
200-Year	1.997

********** **Subbasin: Subbasin 5A** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.139
5-Year	1.885
10-Year	2.590
25-Year	3.487
50-Year	3.922
100-Year	4.212
200-Year	4.229

********** **Subbasin: Subbasin 2** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.444
5-Year	2.389
10-Year	3.282
25-Year	4.418
50-Year	4.969
100-Year	5.337
200-Year	5.358

********** **Subbasin: Subbasin 6A** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.532
5-Year	0.878
10-Year	1.179

25-Year	1.614
50-Year	1.826
100-Year	1.926
200-Year	1.927

********** Link: 1 ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	22.715
5-Year	30.120
10-Year	34.892
25-Year	41.142
50-Year	44.146
100-Year	46.072
200-Year	49.092

********** Link: 1 ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	22.715
5-Year	30.120
10-Year	34.892
25-Year	41.142
50-Year	44.146
100-Year	46.072
200-Year	49.092

********** Link: 6 ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	2.738
5-Year	4.221
10-Year	5.406
25-Year	7.209
50-Year	7.978
100-Year	8.480
200-Year	8.482

********** Link: 6 ********** Link Outflow 1

Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	2.738
5-Year	4.221
10-Year	5.406
25-Year	7.209
50-Year	7.978
100-Year	8.480
200-Year	8.482

********** Link: 4 ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	4.322
5-Year	6.626
10-Year	8.275
25-Year	10.987
50-Year	12.185
100-Year	12.915
200-Year	12.930

********** Link: 4 ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	4.322
5-Year	6.626
10-Year	8.275
25-Year	10.987
50-Year	12.185
100-Year	12.915
200-Year	12.930

********** Link: 4A ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.786
5-Year	1.137
10-Year	1.356

25-Year	1.839
50-Year	1.979
100-Year	1.986
200-Year	1.997

********** Link: 4A ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.786
5-Year	1.137
10-Year	1.356
25-Year	1.839
50-Year	1.979
100-Year	1.986
200-Year	1.997

********** Link: 3 ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.086
5-Year	9.937
10-Year	11.604
25-Year	15.660
50-Year	16.535
100-Year	16.839
200-Year	17.192

********** Link: 3 ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.086
5-Year	9.937
10-Year	11.604
25-Year	15.660
50-Year	16.535
100-Year	16.839
200-Year	17.192

********** Link: 3A ********** Link Inflow

Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.341
5-Year	2.217
10-Year	2.989
25-Year	4.094
50-Year	4.633
100-Year	4.889
200-Year	4.890

********** Link: 3A ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.341
5-Year	2.217
10-Year	2.989
25-Year	4.094
50-Year	4.633
100-Year	4.889
200-Year	4.890

********** Link: 5 ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.314
5-Year	10.615
10-Year	12.776
25-Year	17.322
50-Year	18.636
100-Year	18.758
200-Year	18.879

********** Link: 5 ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.314
5-Year	10.615
10-Year	12.776

25-Year	17.322
50-Year	18.636
100-Year	18.758
200-Year	18.879

********** Link: 5A ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.139
5-Year	1.885
10-Year	2.590
25-Year	3.487
50-Year	3.922
100-Year	4.212
200-Year	4.229

********** Link: 5A ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.139
5-Year	1.885
10-Year	2.590
25-Year	3.487
50-Year	3.922
100-Year	4.212
200-Year	4.229

********** Link: Outfall 3 ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.086
5-Year	9.937
10-Year	11.604
25-Year	15.660
50-Year	16.535
100-Year	16.839
200-Year	17.192

********** Link: Outfall 3 ********** Link Outflow 1

Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.086
5-Year	9.937
10-Year	11.604
25-Year	15.660
50-Year	16.535
100-Year	16.839
200-Year	17.192

********** Link: Outfall 5 ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.003
5-Year	16.459
10-Year	20.266
25-Year	27.324
50-Year	29.962
100-Year	31.463
200-Year	31.568

********** Link: Outfall 5 ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.003
5-Year	16.459
10-Year	20.266
25-Year	27.324
50-Year	29.962
100-Year	31.463
200-Year	31.568

********** Link: 77 Pump ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	27.256
5-Year	37.953
10-Year	45.592

25-Year	55.785
50-Year	58.919
100-Year	60.457
200-Year	63.840

********** Link: 77 Pump ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	27.256
5-Year	37.953
10-Year	45.592
25-Year	55.785
50-Year	58.919
100-Year	60.457
200-Year	63.840

********** Link: Wet Pond ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	15.000
5-Year	15.000
10-Year	15.000
25-Year	15.000
50-Year	15.000
100-Year	15.000
200-Year	15.000

********** Link: Wet Pond ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.892
5-Year	13.196
10-Year	13.594
25-Year	14.066
50-Year	14.338
100-Year	14.502
200-Year	14.530

********** Link: Wet Pond ********** Link WSEL

Stats
WSEL Frequency Data(ft)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	WSEL Peak (ft)
1.05-Year	14.840
1.11-Year	14.938
1.25-Year	15.031
2.00-Year	15.348
3.33-Year	15.650
5-Year	15.774
10-Year	15.917
25-Year	16.048
50-Year	16.191
100-Year	16.251

********** Link: Outfall 2A ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.892
5-Year	13.196
10-Year	13.370
25-Year	13.370
50-Year	13.370
100-Year	13.370
200-Year	13.370

********** Link: Outfall 2A ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.892
5-Year	13.196
10-Year	13.370
25-Year	13.370
50-Year	13.370
100-Year	13.370
200-Year	13.370

********** Link: 15 CFS ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)

2-Year	27.256
5-Year	37.953
10-Year	45.592
25-Year	55.785
50-Year	58.919
100-Year	60.457
200-Year	63.840

********** Link: 15 CFS ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	15.000
5-Year	15.000
10-Year	15.000
25-Year	15.000
50-Year	15.000
100-Year	15.000
200-Year	15.000

********** Link: Surplus ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	12.256
5-Year	22.953
10-Year	30.591
25-Year	40.785
50-Year	43.919
100-Year	45.457
200-Year	48.840

********** Link: Surplus ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	12.256
5-Year	22.953
10-Year	30.591
25-Year	40.785
50-Year	43.919
100-Year	45.457
200-Year	48.840

********** Link: 13.37 CFS ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.892
5-Year	13.196
10-Year	13.594
25-Year	14.066
50-Year	14.338
100-Year	14.502
200-Year	14.530

********** Link: 13.37 CFS ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.892
5-Year	13.196
10-Year	13.370
25-Year	13.370
50-Year	13.370
100-Year	13.370
200-Year	13.370

********** Link: PS C ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.892
5-Year	13.196
10-Year	13.594
25-Year	14.066
50-Year	14.338
100-Year	14.502
200-Year	14.530

********** Link: PS C ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs) Flood Peak (cfs)

2-Year	11.892
5-Year	13.196
10-Year	13.594
25-Year	14.066
50-Year	14.338
100-Year	14.502
200-Year	14.530

********** Link: PS 77 Short ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	12.256
5-Year	22.953
10-Year	30.591
25-Year	40.785
50-Year	43.919
100-Year	45.457
200-Year	48.840

********** Link: PS C Short ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.000E+00
5-Year	0.000E+00
10-Year	0.224
25-Year	0.696
50-Year	0.968
100-Year	1.132
200-Year	1.160

********** Link: PS C Short ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.000E+00
5-Year	0.000E+00
10-Year	0.224
25-Year	0.696
50-Year	0.968
100-Year	1.132
200-Year	1.160

********** Link: Outfall 6 ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.444
5-Year	2.389
10-Year	3.282
25-Year	4.418
50-Year	4.969
100-Year	5.337
200-Year	5.358

********** Link: Outfall 6 ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.444
5-Year	2.389
10-Year	3.282
25-Year	4.418
50-Year	4.969
100-Year	5.337
200-Year	5.358

********** Link: 6A ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.532
5-Year	0.878
10-Year	1.179
25-Year	1.614
50-Year	1.826
100-Year	1.926
200-Year	1.927

********** Link: 6A ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)

2-Year	0.532
5-Year	0.878
10-Year	1.179
25-Year	1.614
50-Year	1.826
100-Year	1.926
200-Year	1.927

----------SCENARIO: POSTDEVELOPED
Number of Subbasins: 8
Number of Links: 20

********** Subbasin: Subbasin 3 **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.086
5-Year	9.937
10-Year	11.604
25-Year	15.660
50-Year	16.535
100-Year	16.839
200-Year	17.192

********** Subbasin: Subbasin 1 **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	22.715
5-Year	30.120
10-Year	34.892
25-Year	41.142
50-Year	44.146
100-Year	46.072
200-Year	49.092

********** Subbasin: Subbasin 3A **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.341
5-Year	2.217
10-Year	2.989
25-Year	4.094
50-Year	4.633
100-Year	4.889

200-Year	4.890

********** **Subbasin: Subbasin 4** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	4.322
5-Year	6.626
10-Year	8.275
25-Year	10.987
50-Year	12.185
100-Year	12.915
200-Year	12.930

********** **Subbasin: Subbasin 5** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.314
5-Year	10.615
10-Year	12.776
25-Year	17.322
50-Year	18.636
100-Year	18.758
200-Year	18.879

********** **Subbasin: Subbasin 6** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	2.738
5-Year	4.221
10-Year	5.406
25-Year	7.209
50-Year	7.978
100-Year	8.480
200-Year	8.482

********** **Subbasin: Subbasin 4A** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.786
5-Year	1.137

10-Year	1.356
25-Year	1.839
50-Year	1.979
100-Year	1.986
200-Year	1.997

********** **Subbasin: Subbasin 5A** **********

Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.139
5-Year	1.885
10-Year	2.590
25-Year	3.487
50-Year	3.922
100-Year	4.212
200-Year	4.229

********** Link: 1 ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	22.715
5-Year	30.120
10-Year	34.892
25-Year	41.142
50-Year	44.146
100-Year	46.072
200-Year	49.092

********** Link: 1 ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	22.715
5-Year	30.120
10-Year	34.892
25-Year	41.142
50-Year	44.146
100-Year	46.072
200-Year	49.092

********** Link: 6 ********** Link Inflow

Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	2.738
5-Year	4.221
10-Year	5.406
25-Year	7.209
50-Year	7.978
100-Year	8.480
200-Year	8.482

********** Link: 6 ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	2.738
5-Year	4.221
10-Year	5.406
25-Year	7.209
50-Year	7.978
100-Year	8.480
200-Year	8.482

********** Link: 4 ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	4.322
5-Year	6.626
10-Year	8.275
25-Year	10.987
50-Year	12.185
100-Year	12.915
200-Year	12.930

********** Link: 4 ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	4.322
5-Year	6.626
10-Year	8.275

25-Year	10.987
50-Year	12.185
100-Year	12.915
200-Year	12.930

********** Link: 4A ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.786
5-Year	1.137
10-Year	1.356
25-Year	1.839
50-Year	1.979
100-Year	1.986
200-Year	1.997

********** Link: 4A ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.786
5-Year	1.137
10-Year	1.356
25-Year	1.839
50-Year	1.979
100-Year	1.986
200-Year	1.997

********** Link: 3 ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.086
5-Year	9.937
10-Year	11.604
25-Year	15.660
50-Year	16.535
100-Year	16.839
200-Year	17.192

********** Link: 3 ********** Link Outflow 1

Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.086
5-Year	9.937
10-Year	11.604
25-Year	15.660
50-Year	16.535
100-Year	16.839
200-Year	17.192

********** Link: 3A ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.341
5-Year	2.217
10-Year	2.989
25-Year	4.094
50-Year	4.633
100-Year	4.889
200-Year	4.890

********** Link: 3A ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.341
5-Year	2.217
10-Year	2.989
25-Year	4.094
50-Year	4.633
100-Year	4.889
200-Year	4.890

********** Link: 5 ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.314
5-Year	10.615
10-Year	12.776

25-Year	17.322
50-Year	18.636
100-Year	18.758
200-Year	18.879

********** Link: 5 ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.314
5-Year	10.615
10-Year	12.776
25-Year	17.322
50-Year	18.636
100-Year	18.758
200-Year	18.879

********** Link: 5A ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.139
5-Year	1.885
10-Year	2.590
25-Year	3.487
50-Year	3.922
100-Year	4.212
200-Year	4.229

********** Link: 5A ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	1.139
5-Year	1.885
10-Year	2.590
25-Year	3.487
50-Year	3.922
100-Year	4.212
200-Year	4.229

********** Link: Outfall 3 ********** Link Inflow

Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.086
5-Year	9.937
10-Year	11.604
25-Year	15.660
50-Year	16.535
100-Year	16.839
200-Year	17.192

********** Link: Outfall 3 ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	7.086
5-Year	9.937
10-Year	11.604
25-Year	15.660
50-Year	16.535
100-Year	16.839
200-Year	17.192

********** Link: Outfall 5 ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.003
5-Year	16.459
10-Year	20.266
25-Year	27.324
50-Year	29.962
100-Year	31.463
200-Year	31.568

********** Link: Outfall 5 ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.003
5-Year	16.459
10-Year	20.266

25-Year	27.324
50-Year	29.962
100-Year	31.463
200-Year	31.568

********** Link: 77 Pump ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	27.256
5-Year	37.953
10-Year	45.592
25-Year	55.785
50-Year	58.919
100-Year	60.457
200-Year	63.840

********** Link: 77 Pump ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	27.256
5-Year	37.953
10-Year	45.592
25-Year	55.785
50-Year	58.919
100-Year	60.457
200-Year	63.840

********** Link: Wet Pond ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	14.250
5-Year	15.357
10-Year	15.601
25-Year	15.882
50-Year	15.936
100-Year	15.954
200-Year	15.966

********** Link: Wet Pond ********** Link Outflow 1

Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.611
5-Year	13.266
10-Year	13.715
25-Year	14.440
50-Year	14.830
100-Year	15.098
200-Year	15.172

********** Link: Wet Pond ********** Link WSEL Stats
WSEL Frequency Data(ft)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	WSEL Peak (ft)
1.05-Year	14.710
1.11-Year	14.811
1.25-Year	14.911
2.00-Year	15.262
3.33-Year	15.620
5-Year	15.803
10-Year	15.957
25-Year	16.181
50-Year	16.380
100-Year	16.486

********** Link: Outfall 2A ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.611
5-Year	13.266
10-Year	13.370
25-Year	13.370
50-Year	13.370
100-Year	13.370
200-Year	13.370

********** Link: Outfall 2A ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)

2-Year	11.611
5-Year	13.266
10-Year	13.370
25-Year	13.370
50-Year	13.370
100-Year	13.370
200-Year	13.370

********** Link: 13.37 cfs ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.611
5-Year	13.266
10-Year	13.715
25-Year	14.440
50-Year	14.830
100-Year	15.098
200-Year	15.172

********** Link: 13.37 cfs ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.611
5-Year	13.266
10-Year	13.370
25-Year	13.370
50-Year	13.370
100-Year	13.370
200-Year	13.370

********** Link: Thickner Tanks ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	16.000
5-Year	16.000
10-Year	16.000
25-Year	16.000
50-Year	16.000
100-Year	16.000
200-Year	16.000

********** Link: Thickner Tanks ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	14.250
5-Year	15.357
10-Year	15.601
25-Year	15.882
50-Year	15.936
100-Year	15.954
200-Year	15.966

********** Link: Thickner Tanks ********** Link WSEL
Stats
WSEL Frequency Data(ft)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	WSEL Peak (ft)
1.05-Year	107.062
1.11-Year	107.524
1.25-Year	107.959
2.00-Year	109.226
3.33-Year	110.066
5-Year	110.568
10-Year	110.860
25-Year	111.138
50-Year	111.291
100-Year	111.299

********** Link: Surplus ********** Link Inflow
Frequency Stats
Flood Frequency Data(cfs)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.256
5-Year	21.953
10-Year	29.591
25-Year	39.785
50-Year	42.919
100-Year	44.457
200-Year	47.840

********** Link: Surplus ********** Link Outflow 1
Frequency Stats
Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.256
5-Year	21.953
10-Year	29.591
25-Year	39.785
50-Year	42.919
100-Year	44.457
200-Year	47.840

********** Link: PS C ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.611
5-Year	13.266
10-Year	13.715
25-Year	14.440
50-Year	14.830
100-Year	15.098
200-Year	15.172

********** Link: PS C ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.611
5-Year	13.266
10-Year	13.715
25-Year	14.440
50-Year	14.830
100-Year	15.098
200-Year	15.172

********** Link: 16 CFS ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	27.256
5-Year	37.953
10-Year	45.592
25-Year	55.785
50-Year	58.919

100-Year	60.457
200-Year	63.840

********** Link: 16 CFS ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	16.000
5-Year	16.000
10-Year	16.000
25-Year	16.000
50-Year	16.000
100-Year	16.000
200-Year	16.000

********** Link: PS 77 Short ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	11.256
5-Year	21.953
10-Year	29.591
25-Year	39.785
50-Year	42.919
100-Year	44.457
200-Year	47.840

********** Link: PS C Short ********** Link Inflow

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.000E+00
5-Year	0.000E+00
10-Year	0.345
25-Year	1.070
50-Year	1.460
100-Year	1.728
200-Year	1.802

********** Link: PS C Short ********** Link Outflow 1

Frequency Stats

Flood Frequency Data(cfs)

(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	Flood Peak (cfs)
2-Year	0.000E+00
5-Year	0.000E+00
10-Year	0.345
25-Year	1.070
50-Year	1.460
100-Year	1.728
200-Year	1.802

*************Water Quality Facility Data ***************

----------SCENARIO: PREDEVELOPED

Number of Links: 21

********** Link: Wet Pond **********

Basic Wet Pond Volume (91% Exceedance): 509800. cu-ft
Computed Large Wet Pond Volume, 1.5*Basic Volume: 764700. cu-ft

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 50752.01
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

********** Link: 15 CFS **********

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 51484.05
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

********** Link: Surplus **********

Basic Wet Pond Volume (91% Exceedance): 361129. cu-ft
Computed Large Wet Pond Volume, 1.5*Basic Volume: 541693. cu-ft

********** Link: 13.37 CFS **********

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 50742.41
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

----------SCENARIO: POSTDEVELOPED

Number of Links: 20

********** Link: Wet Pond **********

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 50883.72
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

********** Link: 13.37 cfs **********

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 50874.88
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

********** Link: Thickner Tanks **********

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 50883.05
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

********** Link: 16 CFS **********

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 51484.05
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

*************Compliance Point Results ***************

Scenario Predeveloped Compliance Link: PS 77 Short
Scenario Postdeveloped Compliance Link: PS 77 Short

***** Point of Compliance Flow Frequency Data *****
Recurrence Interval Computed Using Gringorten Plotting Position

Predevelopment Runoff		Postdevelopment Runoff	
Tr (Years)	Discharge (cfs)	Tr (Years)	Discharge (cfs)
2-Year	12.256	2-Year	11.256
5-Year	22.953	5-Year	21.953
10-Year	30.591	10-Year	29.591
25-Year	40.785	25-Year	39.785
50-Year	43.919	50-Year	42.919
100-Year	45.457	100-Year	44.457
200-Year	48.840	200-Year	47.840

** Record too Short to Compute Peak Discharge for These Recurrence Intervals

****** Flow Duration Performance According to Dept. of Ecology Criteria ******

Excursion at Predeveloped ½Q2 (Must be Less Than 0%):	-18.5%	PASS
Maximum Excursion from ½Q2 to Q2 (Must be Less Than 0%):	-7.6%	PASS
Maximum Excursion from Q2 to Q50 (Must be less than 10%):	0.0%	PASS
Percent Excursion from Q2 to Q50 (Must be less than 50%):	0.0%	PASS

POND MEETS ALL DURATION DESIGN CRITERIA: PASS

MGS FLOOD
PROJECT REPORT

Program Version: MGSFlood 4.09
Program License Number: 200510001
Run Date: 09/22/2011 10:26 AM

Input File Name: Millennium3.fld
Project Name: Millennium 3
Analysis Title: Millennium
Comments: Alt 4: Alt 2 plus 003 - 99.04%
Alt 5: Alt 3 plus 003 - 99.01%

——————————————— PRECIPITATION INPUT ———————————————

Computational Time Step (Minutes): 60

Extended Precipitation Timeseries Selected
Climatic Region Number: 21

Full Period of Record Available used for Routing
Precipitation Station : 97004805 Vancouver 48 in_5min 10/01/1939-10/01/2060
Evaporation Station : 971048 Vancouver 48 in MAP
Evaporation Scale Factor : 0.750

HSPF Parameter Region Number: 1
HSPF Parameter Region Name : USGS Default

********** Default HSPF Parameters Used (Not Modified by User) **********

********** **WATERSHED DEFINITION** **********

----------SCENARIO: PREDEVELOPED
Number of Subbasins: 8

---------- Subbasin : Subbasin 3 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	27.200
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	17.280

Subbasin Total	44.480

---------- Subbasin : Subbasin 1 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	18.080
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	72.400
Subbasin Total	90.480

---------- Subbasin : Subbasin 3A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	15.820
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.340
Subbasin Total	16.160

---------- Subbasin : Subbasin 4 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	59.720
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	6.680
Subbasin Total	66.400

---------- Subbasin : Subbasin 5 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	37.010

Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	15.780
Subbasin Total	52.790

---------- Subbasin : Subbasin 6 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	41.650
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	3.580
Subbasin Total	45.230

---------- Subbasin : Subbasin 4A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	3.830
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	1.720
Subbasin Total	5.550

---------- Subbasin : Subbasin 5A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	26.140
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.000

Subbasin Total 26.140

----------SCENARIO: POSTDEVELOPED
Number of Subbasins: 8

---------- Subbasin : Subbasin 3 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	27.200
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	17.280
Subbasin Total	44.480

---------- Subbasin : Subbasin 1 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	18.080
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	72.400
Subbasin Total	90.480

---------- Subbasin : Subbasin 3A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	15.820
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.340
Subbasin Total	16.160

---------- Subbasin : Subbasin 4 ----------

-------Area(Acres) --------

Till Forest	0.000
Till Pasture	59.720
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	6.680
Subbasin Total	66.400

---------- Subbasin : Subbasin 5 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	37.010
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	15.780
Subbasin Total	52.790

---------- Subbasin : Subbasin 6 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	41.650
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	3.580
Subbasin Total	45.230

---------- Subbasin : Subbasin 4A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	3.830
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000

User	0.000
Impervious	1.720

Subbasin Total	5.550

---------- Subbasin : Subbasin 5A ----------

-------Area(Acres) --------

Till Forest	0.000
Till Pasture	26.140
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.000

Subbasin Total	26.140

********** **LINK DATA** **********

----------SCENARIO: PREDEVELOPED
Number of Links: 19

Link Name: 1
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 6
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 4
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 4A
Link Type: Copy
Downstream Link: None

Link Name: 3
Link Type: Copy

Downstream Link Name: Outfall 3

Link Name: 3A
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 5
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 5A
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: Outfall 3
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: Outfall 5
Link Type: Copy
Downstream Link: None

Link Name: 77 Pump
Link Type: Copy
Downstream Link Name: 20 CFS

Link Name: Wet Pond
Link Type: Structure
Downstream Link Name: PS C

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 5.50
Riser Crest Elevation (ft) : 13.50
Max Pond Elevation (ft) : 20.25
Storage Depth (ft) : 8.00
Pond Bottom Length (ft) : 300.0
Pond Bottom Width (ft) : 135.0
Pond Side Slopes (ft/ft) : L1= 3.00 L2= 3.00 W1= 3.00 W2= 3.00
Bottom Area (sq-ft) : 40500.
Area at Riser Crest El (sq-ft) : 63,684.
(acres) : 1.462
Volume at Riser Crest (cu-ft) : 413,664.

	(ac-ft)	:	9.496
Area at Max Elevation	(sq-ft)	:	86830.
	(acres)	:	1.993
Vol at Max Elevation	(cu-ft)	:	932,540.
	(ac-ft)	:	21.408

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Low
Maintenance : Average or Better

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 20.00
Common Length (ft) : 0.000
Riser Crest Elevation : 13.50 ft

Hydraulic Structure Geometry

Number of Devices: 0

Link Name: Outfall 2A
Link Type: Copy
Downstream Link: None

Link Name: 20 CFS
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk12 - Wet Pond
Outflow 2 Connected to Link: Lnk18 - PS 77 Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
20.000	20.000	0.000
100.000	20.000	80.000

Link Name: Surplus
Link Type: Copy
Downstream Link: None

Link Name: 20 CFS
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk13 - Outfall 2A
Outflow 2 Connected to Link: Lnk19 - PS C Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
20.000	20.000	0.000
100.000	20.000	80.000

Link Name: PS C
Link Type: Copy
Downstream Link Name: 20 CFS

Link Name: PS 77 Short
Link Type: Copy
Downstream Link Name: Surplus

Link Name: PS C Short
Link Type: Copy
Downstream Link Name: Surplus

Structure Stage, Storage Discharge Tables

Link: Lnk12 Wet Pond

Elev (ft)	Storage (ac-ft)	Discharge (cfs)	Infilt Discharge (cfs)
5.500	0.000	0.000	0.000
5.543	0.040	0.000	0.000
5.585	0.079	0.000	0.000
5.670	0.159	0.000	0.000
5.840	0.320	0.000	0.000
6.010	0.482	0.000	0.000
6.180	0.646	0.000	0.000
6.350	0.812	0.000	0.000
6.520	0.980	0.000	0.000
6.690	1.149	0.000	0.000
6.860	1.321	0.000	0.000
7.030	1.494	0.000	0.000
7.200	1.669	0.000	0.000
7.370	1.845	0.000	0.000
7.540	2.024	0.000	0.000
7.710	2.204	0.000	0.000
7.880	2.386	0.000	0.000
8.050	2.570	0.000	0.000

8.220	2.756	0.000	0.000
8.390	2.944	0.000	0.000
8.560	3.133	0.000	0.000
8.730	3.325	0.000	0.000
8.900	3.518	0.000	0.000
9.070	3.714	0.000	0.000
9.240	3.911	0.000	0.000
9.410	4.110	0.000	0.000
9.580	4.311	0.000	0.000
9.750	4.514	0.000	0.000
9.920	4.719	0.000	0.000
10.090	4.925	0.000	0.000
10.260	5.134	0.000	0.000
10.430	5.345	0.000	0.000
10.600	5.558	0.000	0.000
10.770	5.772	0.000	0.000
10.940	5.989	0.000	0.000
11.110	6.207	0.000	0.000
11.280	6.428	0.000	0.000
11.450	6.651	0.000	0.000
11.620	6.875	0.000	0.000
11.790	7.102	0.000	0.000
11.960	7.331	0.000	0.000
12.130	7.561	0.000	0.000
12.300	7.794	0.000	0.000
12.470	8.029	0.000	0.000
12.640	8.266	0.000	0.000
12.810	8.505	0.000	0.000
12.980	8.746	0.000	0.000
13.150	8.989	0.000	0.000
13.320	9.234	0.000	0.000
13.365	9.300	0.000	0.000
13.410	9.365	0.000	0.000
13.455	9.431	0.000	0.000
13.500	9.496	0.000	0.000
13.543	9.559	0.155	0.000
13.585	9.621	0.438	0.000
13.628	9.683	0.803	0.000
13.670	9.746	1.232	0.000
13.713	9.809	1.712	0.000
13.755	9.872	2.232	0.000
13.798	9.935	2.780	0.000
13.840	9.998	3.344	0.000
14.010	10.252	5.531	0.000
14.180	10.508	7.123	0.000
14.350	10.766	8.066	0.000
14.520	11.026	8.836	0.000
14.690	11.288	9.544	0.000
14.860	11.553	10.203	0.000
15.030	11.820	10.822	0.000
15.200	12.089	11.407	0.000
15.370	12.360	11.964	0.000
15.540	12.633	12.496	0.000
15.710	12.909	13.006	0.000
15.880	13.187	13.497	0.000
16.050	13.467	13.971	0.000

16.220	13.749	14.429	0.000
16.390	14.034	14.873	0.000
16.560	14.320	15.304	0.000
16.730	14.609	15.724	0.000
16.900	14.901	16.132	0.000
17.070	15.194	16.531	0.000
17.240	15.490	16.920	0.000
17.410	15.788	17.300	0.000
17.580	16.088	17.672	0.000
17.750	16.391	18.037	0.000
17.920	16.696	18.394	0.000
18.090	17.003	18.744	0.000
18.260	17.313	19.088	0.000
18.430	17.625	19.426	0.000
18.600	17.939	19.758	0.000
18.770	18.256	20.085	0.000
18.940	18.574	20.406	0.000
19.110	18.896	20.722	0.000
19.280	19.219	21.034	0.000
19.450	19.545	21.341	0.000
19.620	19.874	21.644	0.000
19.790	20.205	21.942	0.000
19.960	20.538	22.237	0.000
20.130	20.873	22.528	0.000
20.300	21.211	22.815	0.000
20.470	21.552	23.098	0.000

********** **LINK DATA** **********

----------SCENARIO: POSTDEVELOPED
Number of Links: 20

Link Name: 1
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 6
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 4
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 4A
Link Type: Copy
Downstream Link: None

Link Name: 3
Link Type: Copy
Downstream Link Name: Outfall 3

Link Name: 3A
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 5
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 5A
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: Outfall 3
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: Outfall 5
Link Type: Copy
Downstream Link: None

Link Name: 77 Pump
Link Type: Copy
Downstream Link Name: 20 CFS

Link Name: Wet Pond
Link Type: Structure
Downstream Link Name: PS C

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 6.00
Riser Crest Elevation (ft) : 12.50
Max Pond Elevation (ft) : 20.25
Storage Depth (ft) : 6.50
Pond Bottom Length (ft) : 600.0
Pond Bottom Width (ft) : 200.0

Pond Side Slopes (ft/ft) : L1= 3.00 L2= 3.00 W1= 3.00 W2= 3.00
Bottom Area (sq-ft) : 120000.
Area at Riser Crest El (sq-ft) : 152,721.
(acres) : 3.506
Volume at Riser Crest (cu-ft) : 884,695.
(ac-ft) : 20.310
Area at Max Elevation (sq-ft) : 195710.
(acres) : 4.493
Vol at Max Elevation (cu-ft) : 2,262,619.
(ac-ft) : 51.943

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Average to High
Maintenance : Poor

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 20.00
Common Length (ft) : 0.000
Riser Crest Elevation : 12.50 ft

Hydraulic Structure Geometry

Number of Devices: 0

Link Name: Outfall 2A
Link Type: Copy
Downstream Link: None

Link Name: 13.37 cfs
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk13 - Outfall 2A
Outflow 2 Connected to Link: Lnk20 - PS C Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
13.370	13.370	0.000
100.000	13.370	86.630

Link Name: Thickner Tanks
Link Type: Structure
Downstream Link Name: Wet Pond

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 100.00
Riser Crest Elevation (ft) : 118.00
Max Pond Elevation (ft) : 120.00
Storage Depth (ft) : 18.00
Pond Bottom Length (ft) : 90.0
Pond Bottom Width (ft) : 90.0
Pond Side Slopes (ft/ft) : L1= 0.00 L2= 0.00 W1= 0.00 W2= 0.00
Bottom Area (sq-ft) : 8100.
Area at Riser Crest El (sq-ft) : 8,100.
(acres) : 0.186
Volume at Riser Crest (cu-ft) : 145,800.
(ac-ft) : 3.347
Area at Max Elevation (sq-ft) : 8100.
(acres) : 0.186
Vol at Max Elevation (cu-ft) : 164,025.
(ac-ft) : 3.765

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Average to High
Maintenance : Poor

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 36.00
Common Length (ft) : 0.000
Riser Crest Elevation : 118.00 ft

Hydraulic Structure Geometry

Number of Devices: 1

---Device Number 1 ---
Device Type : Circular Orifice
Control Elevation (ft) : 101.00
Diameter (in) : 16.00
Orientation : Horizontal
Elbow : Yes

Link Name: Surplus
Link Type: Copy
Downstream Link: None

Link Name: PS C
Link Type: Copy
Downstream Link Name: 13.37 cfs

Link Name: 20 CFS

Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk15 - Thickner Tanks
Outflow 2 Connected to Link: Lnk19 - PS 77 Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
20.000	20.000	0.000
100.000	20.000	80.000

Link Name: PS 77 Short
Link Type: Copy
Downstream Link Name: Surplus

Link Name: PS C Short
Link Type: Copy
Downstream Link Name: Surplus

Structure Stage, Storage Discharge Tables

Link: Lnk12 Wet Pond

Elev (ft)	Storage (ac-ft)	Discharge (cfs)	Infilt Discharge (cfs)
6.000	0.000	0.000	0.000
6.043	0.117	0.000	0.000
6.085	0.235	0.000	0.000
6.170	0.470	0.000	0.000
6.340	0.943	0.000	0.000
6.510	1.419	0.000	0.000
6.680	1.899	0.000	0.000
6.850	2.382	0.000	0.000
7.020	2.868	0.000	0.000
7.190	3.357	0.000	0.000
7.360	3.849	0.000	0.000
7.530	4.345	0.000	0.000
7.700	4.844	0.000	0.000
7.870	5.346	0.000	0.000
8.040	5.851	0.000	0.000
8.210	6.360	0.000	0.000
8.380	6.872	0.000	0.000
8.550	7.388	0.000	0.000
8.720	7.906	0.000	0.000
8.890	8.428	0.000	0.000
9.060	8.954	0.000	0.000
9.230	9.482	0.000	0.000

9.400	10.014	0.000	0.000
9.570	10.549	0.000	0.000
9.740	11.088	0.000	0.000
9.910	11.630	0.000	0.000
10.080	12.176	0.000	0.000
10.250	12.724	0.000	0.000
10.420	13.276	0.000	0.000
10.590	13.832	0.000	0.000
10.760	14.391	0.000	0.000
10.930	14.953	0.000	0.000
11.100	15.519	0.000	0.000
11.270	16.088	0.000	0.000
11.440	16.661	0.000	0.000
11.610	17.237	0.000	0.000
11.780	17.817	0.000	0.000
11.950	18.400	0.000	0.000
12.120	18.986	0.000	0.000
12.290	19.576	0.000	0.000
12.343	19.759	0.000	0.000
12.395	19.942	0.000	0.000
12.448	20.126	0.000	0.000
12.500	20.310	0.000	0.000
12.543	20.459	0.155	0.000
12.585	20.608	0.438	0.000
12.628	20.758	0.803	0.000
12.670	20.908	1.232	0.000
12.713	21.058	1.712	0.000
12.755	21.208	2.232	0.000
12.798	21.358	2.780	0.000
12.840	21.509	3.344	0.000
13.010	22.114	5.531	0.000
13.180	22.722	7.123	0.000
13.350	23.334	8.066	0.000
13.520	23.949	8.836	0.000
13.690	24.568	9.544	0.000
13.860	25.190	10.203	0.000
14.030	25.816	10.822	0.000
14.200	26.446	11.407	0.000
14.370	27.079	11.964	0.000
14.540	27.716	12.496	0.000
14.710	28.356	13.006	0.000
14.880	29.001	13.497	0.000
15.050	29.648	13.971	0.000
15.220	30.300	14.429	0.000
15.390	30.955	14.873	0.000
15.560	31.614	15.304	0.000
15.730	32.276	15.724	0.000
15.900	32.943	16.132	0.000
16.070	33.613	16.531	0.000
16.240	34.287	16.920	0.000
16.410	34.965	17.300	0.000
16.580	35.646	17.672	0.000
16.750	36.332	18.037	0.000
16.920	37.021	18.394	0.000
17.090	37.715	18.744	0.000
17.260	38.412	19.088	0.000

17.430	39.113	19.426	0.000
17.600	39.818	19.758	0.000
17.770	40.527	20.085	0.000
17.940	41.240	20.406	0.000
18.110	41.958	20.722	0.000
18.280	42.679	21.034	0.000
18.450	43.404	21.341	0.000
18.620	44.133	21.644	0.000
18.790	44.867	21.942	0.000
18.960	45.604	22.237	0.000
19.130	46.346	22.528	0.000
19.300	47.092	22.815	0.000
19.470	47.842	23.098	0.000
19.640	48.596	23.378	0.000
19.810	49.354	23.655	0.000
19.980	50.117	23.928	0.000
20.150	50.884	24.199	0.000
20.320	51.655	24.466	0.000
20.490	52.430	24.730	0.000
20.660	53.210	24.992	0.000
20.830	53.994	25.251	0.000

Link: Lnk15 Thickner Tanks

Elev (ft)	Storage (ac-ft)	Discharge (cfs)	Infilt Discharge (cfs)
100.000	0.000	0.000	0.000
100.058	0.011	0.000	0.000
100.115	0.021	0.000	0.000
100.230	0.043	0.000	0.000
100.460	0.086	0.000	0.000
100.690	0.128	0.000	0.000
100.768	0.143	0.000	0.000
100.845	0.157	0.000	0.000
100.923	0.172	0.000	0.000
101.000	0.186	0.000	0.000
101.058	0.197	1.556	0.000
101.115	0.207	2.201	0.000
101.173	0.218	2.695	0.000
101.230	0.229	3.112	0.000
101.460	0.271	4.402	0.000
101.690	0.314	5.391	0.000
101.920	0.357	6.225	0.000
102.150	0.400	6.959	0.000
102.380	0.443	7.624	0.000
102.610	0.485	8.235	0.000
102.840	0.528	8.803	0.000
103.070	0.571	9.337	0.000
103.300	0.614	9.842	0.000
103.530	0.656	10.323	0.000
103.760	0.699	10.782	0.000
103.990	0.742	11.222	0.000
104.220	0.785	11.645	0.000
104.450	0.827	12.054	0.000
104.680	0.870	12.449	0.000
104.910	0.913	12.833	0.000

105.140	0.956	13.205	0.000
105.370	0.999	13.566	0.000
105.600	1.041	13.919	0.000
105.830	1.084	14.263	0.000
106.060	1.127	14.598	0.000
106.290	1.170	14.926	0.000
106.520	1.212	15.247	0.000
106.750	1.255	15.562	0.000
106.980	1.298	15.870	0.000
107.210	1.341	16.172	0.000
107.440	1.383	16.469	0.000
107.670	1.426	16.761	0.000
107.900	1.469	17.047	0.000
108.130	1.512	17.329	0.000
108.360	1.555	17.606	0.000
108.590	1.597	17.879	0.000
108.820	1.640	18.148	0.000
109.050	1.683	18.413	0.000
109.280	1.726	18.674	0.000
109.510	1.768	18.932	0.000
109.740	1.811	19.186	0.000
109.970	1.854	19.437	0.000
110.200	1.897	19.684	0.000
110.430	1.939	19.929	0.000
110.660	1.982	20.170	0.000
110.890	2.025	20.409	0.000
111.120	2.068	20.645	0.000
111.350	2.111	20.878	0.000
111.580	2.153	21.109	0.000
111.810	2.196	21.337	0.000
112.040	2.239	21.563	0.000
112.270	2.282	21.786	0.000
112.500	2.324	22.008	0.000
112.730	2.367	22.227	0.000
112.960	2.410	22.444	0.000
113.190	2.453	22.658	0.000
113.420	2.495	22.871	0.000
113.650	2.538	23.082	0.000
113.880	2.581	23.291	0.000
114.110	2.624	23.498	0.000
114.340	2.667	23.703	0.000
114.570	2.709	23.906	0.000
114.800	2.752	24.108	0.000
115.030	2.795	24.308	0.000
115.260	2.838	24.507	0.000
115.490	2.880	24.704	0.000
115.720	2.923	24.899	0.000
115.950	2.966	25.093	0.000
116.180	3.009	25.285	0.000
116.410	3.051	25.476	0.000
116.640	3.094	25.665	0.000
116.870	3.137	25.853	0.000
117.100	3.180	26.040	0.000
117.330	3.223	26.225	0.000
117.560	3.265	26.409	0.000
117.670	3.286	26.497	0.000

117.780	3.306	26.584	0.000
117.890	3.327	26.671	0.000
118.000	3.347	26.758	0.000
118.058	3.358	27.242	0.000
118.115	3.368	28.088	0.000
118.173	3.379	29.170	0.000
118.230	3.390	30.439	0.000
118.288	3.401	31.864	0.000
118.345	3.411	33.422	0.000
118.403	3.422	35.091	0.000
118.460	3.433	36.849	0.000
118.690	3.475	44.356	0.000
118.920	3.518	51.573	0.000
119.150	3.561	57.275	0.000

**********FLOOD FREQUENCY AND DURATION STATISTICS**********

----------SCENARIO: PREDEVELOPED
Number of Subbasins: 8
Number of Links: 19

----------SCENARIO: POSTDEVELOPED
Number of Subbasins: 8
Number of Links: 20

**********Water Quality Facility Data **********

----------SCENARIO: PREDEVELOPED

Number of Links: 19

********** Link: PS 77 Short **********

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 747.87
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

----------SCENARIO: POSTDEVELOPED

Number of Links: 20

********** Link: PS 77 Short **********

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 747.87
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

*************Compliance Point Results ***************

Scenario Predeveloped Compliance Link: PS 77 Short
Scenario Postdeveloped Compliance Link: PS 77 Short
****Point of Compliance Annual Maxima Flow Data ****

Predevelopment Runoff		Postdevelopment Runoff	
Date	Annual Max Q (cfs)	Date	Annual Max Q (cfs)
10/27/1939	12.540	10/27/1939	12.540
09/02/1941	21.047	09/02/1941	21.047
12/15/1941	36.334	12/15/1941	36.334
11/23/1942	5.912	11/23/1942	5.912
10/16/1943	2.229	10/16/1943	2.229
02/07/1945	20.118	02/07/1945	20.118
01/23/1946	11.356	01/23/1946	11.356
10/20/1946	14.360	10/20/1946	14.360
03/21/1948	20.473	03/21/1948	20.473
11/27/1948	13.466	11/27/1948	13.466
03/03/1950	55.932	03/03/1950	55.932
02/09/1951	5.623	02/09/1951	5.623
06/29/1952	26.746	06/29/1952	26.746
09/30/1953	17.063	09/30/1953	17.063
12/19/1953	11.112	12/19/1953	11.112
10/01/1954	0.000	10/01/1954	0.000
10/07/1955	12.665	10/07/1955	12.665
02/25/1957	0.576	02/25/1957	0.576
01/16/1958	11.233	01/16/1958	11.233
01/12/1959	6.489	01/12/1959	6.489
12/15/1959	13.633	12/15/1959	13.633
02/14/1961	14.125	02/14/1961	14.125
07/05/1962	16.338	07/05/1962	16.338
01/02/1963	2.476	01/02/1963	2.476
09/17/1964	17.137	09/17/1964	17.137
05/04/1965	9.798	05/04/1965	9.798
01/05/1966	10.266	01/05/1966	10.266
11/13/1966	30.475	11/13/1966	30.475
08/23/1968	34.169	08/23/1968	34.169
12/03/1968	7.375	12/03/1968	7.375
01/13/1970	10.847	01/13/1970	10.847
12/06/1970	8.600	12/06/1970	8.600
02/27/1972	30.881	02/27/1972	30.881
01/13/1973	6.811	01/13/1973	6.811
11/11/1973	11.131	11/11/1973	11.131
12/26/1974	26.304	12/26/1974	26.304
12/02/1975	8.127	12/02/1975	8.127
08/26/1977	12.167	08/26/1977	12.167
09/22/1978	26.152	09/22/1978	26.152
09/08/1979	17.561	09/08/1979	17.561
12/14/1979	24.627	12/14/1979	24.627
11/21/1980	23.049	11/21/1980	23.049
10/06/1981	45.591	10/06/1981	45.591
10/28/1982	24.216	10/28/1982	24.216
01/03/1984	11.686	01/03/1984	11.686
06/06/1985	7.483	06/06/1985	7.483

01/18/1986	21.662	01/18/1986	21.662
10/26/1986	32.389	10/26/1986	32.389
12/01/1987	0.072	12/01/1987	0.072
08/21/1989	10.622	08/21/1989	10.622
01/09/1990	52.570	01/09/1990	52.570
11/24/1990	48.887	11/24/1990	48.887
01/27/1992	14.106	01/27/1992	14.106
06/09/1993	3.150	06/09/1993	3.150
11/30/1993	1.019	11/30/1993	1.019
11/30/1994	9.821	11/30/1994	9.821
02/08/1996	27.008	02/08/1996	27.008
01/02/1997	21.137	01/02/1997	21.137
10/29/1997	7.845	10/29/1997	7.845
11/04/1998	61.454	11/04/1998	61.454
09/26/2000	40.119	09/26/2000	40.119
10/29/2000	18.901	10/29/2000	18.901
12/15/2001	6.597	12/15/2001	6.597
12/27/2002	44.024	12/27/2002	44.024
02/06/2004	2.598	02/06/2004	2.598
05/16/2005	7.379	05/16/2005	7.379
11/18/2005	6.658	11/18/2005	6.658
11/18/2006	4.534	11/18/2006	4.534
02/14/2008	14.388	02/14/2008	14.388
02/17/2009	23.222	02/17/2009	23.222
11/23/2009	6.335	11/23/2009	6.335
02/07/2011	16.318	02/07/2011	16.318
10/22/2011	24.345	10/22/2011	24.345
01/08/2013	11.945	01/08/2013	11.945
07/20/2014	20.164	07/20/2014	20.164
02/28/2015	4.195	02/28/2015	4.195
12/21/2015	31.055	12/21/2015	31.055
02/25/2017	14.393	02/25/2017	14.393
06/06/2018	29.320	06/06/2018	29.320
11/06/2018	4.266	11/06/2018	4.266
10/10/2019	18.997	10/10/2019	18.997
11/24/2020	17.382	11/24/2020	17.382
12/20/2021	11.965	12/20/2021	11.965
11/25/2022	15.064	11/25/2022	15.064
01/25/2024	10.309	01/25/2024	10.309
12/26/2024	15.392	12/26/2024	15.392
01/03/2026	15.916	01/03/2026	15.916
11/13/2026	15.933	11/13/2026	15.933
08/19/2028	54.978	08/19/2028	54.978
09/17/2029	37.203	09/17/2029	37.203
01/22/2030	54.868	01/22/2030	54.868
08/22/2031	12.020	08/22/2031	12.020
09/09/2032	11.796	09/09/2032	11.796
12/21/2032	12.975	12/21/2032	12.975
11/15/2033	32.938	11/15/2033	32.938
12/27/2034	4.161	12/27/2034	4.161
02/27/2036	19.733	02/27/2036	19.733
03/07/2037	2.384	03/07/2037	2.384
12/13/2037	23.417	12/13/2037	23.417
01/10/2039	27.473	01/10/2039	27.473
12/01/2039	4.740	12/01/2039	4.740
12/25/2040	25.101	12/25/2040	25.101

09/20/2042	26.936	09/20/2042	26.936
03/09/2043	30.887	03/09/2043	30.887
11/13/2043	6.702	11/13/2043	6.702
10/25/2044	9.116	10/25/2044	9.116
09/25/2046	28.374	09/25/2046	28.374
01/31/2047	8.765	01/31/2047	8.765
09/19/2048	19.609	09/19/2048	19.609
04/25/2049	11.324	04/25/2049	11.324
11/12/2049	9.673	11/12/2049	9.673
01/14/2051	13.613	01/14/2051	13.613
02/18/2052	10.797	02/18/2052	10.797
12/10/2052	31.593	12/10/2052	31.593
02/24/2054	9.228	02/24/2054	9.228
10/26/2054	18.889	10/26/2054	18.889
09/14/2056	47.053	09/14/2056	47.053
05/31/2057	42.673	05/31/2057	42.673
05/17/2058	38.168	05/17/2058	38.168
11/26/2058	12.086	11/26/2058	12.086
10/01/2059	0.000	10/01/2059	0.000

******Point of Compliance Ranked Maxima Flow Data ******

Predevelopment		Postdevelopment	
Tr (yrs)	Q (cfs)	Tr (yrs)	Q (cfs)
1.00	0.000	1.00	0.000
1.01	0.000	1.01	0.000
1.02	0.072	1.02	0.072
1.03	0.576	1.03	0.576
1.04	1.019	1.04	1.019
1.05	2.229	1.05	2.229
1.06	2.384	1.06	2.384
1.07	2.476	1.07	2.476
1.08	2.598	1.08	2.598
1.09	3.150	1.09	3.150
1.10	4.161	1.10	4.161
1.11	4.195	1.11	4.195
1.12	4.266	1.12	4.266
1.13	4.534	1.13	4.534
1.14	4.740	1.14	4.740
1.15	5.623	1.15	5.623
1.16	5.912	1.16	5.912
1.17	6.335	1.17	6.335
1.18	6.489	1.18	6.489
1.19	6.597	1.19	6.597
1.20	6.658	1.20	6.658
1.22	6.702	1.22	6.702
1.23	6.811	1.23	6.811
1.24	7.375	1.24	7.375
1.25	7.379	1.25	7.379
1.27	7.483	1.27	7.483
1.28	7.845	1.28	7.845
1.29	8.127	1.29	8.127
1.31	8.600	1.31	8.600
1.32	8.765	1.32	8.765
1.34	9.116	1.34	9.116

1.35	9.228	1.35	9.228
1.37	9.673	1.37	9.673
1.38	9.798	1.38	9.798
1.40	9.821	1.40	9.821
1.42	10.266	1.42	10.266
1.43	10.309	1.43	10.309
1.45	10.622	1.45	10.622
1.47	10.797	1.47	10.797
1.49	10.847	1.49	10.847
1.50	11.112	1.50	11.112
1.52	11.131	1.52	11.131
1.54	11.233	1.54	11.233
1.56	11.324	1.56	11.324
1.58	11.356	1.58	11.356
1.60	11.686	1.60	11.686
1.62	11.796	1.62	11.796
1.65	11.945	1.65	11.945
1.67	11.965	1.67	11.965
1.69	12.020	1.69	12.020
1.72	12.086	1.72	12.086
1.74	12.167	1.74	12.167
1.77	12.540	1.77	12.540
1.79	12.665	1.79	12.665
1.82	12.975	1.82	12.975
1.85	13.466	1.85	13.466
1.88	13.613	1.88	13.613
1.91	13.633	1.91	13.633
1.94	14.106	1.94	14.106
1.97	14.125	1.97	14.125
2.00	14.360	2.00	14.360
2.03	14.388	2.03	14.388
2.07	14.393	2.07	14.393
2.10	15.064	2.10	15.064
2.14	15.392	2.14	15.392
2.18	15.916	2.18	15.916
2.22	15.933	2.22	15.933
2.26	16.318	2.26	16.318
2.30	16.338	2.30	16.338
2.35	17.063	2.35	17.063
2.40	17.137	2.40	17.137
2.44	17.382	2.44	17.382
2.49	17.561	2.49	17.561
2.55	18.889	2.55	18.889
2.60	18.901	2.60	18.901
2.66	18.997	2.66	18.997
2.72	19.609	2.72	19.609
2.78	19.733	2.78	19.733
2.85	20.118	2.85	20.118
2.91	20.164	2.91	20.164
2.99	20.473	2.99	20.473
3.06	21.047	3.06	21.047
3.14	21.137	3.14	21.137
3.22	21.662	3.22	21.662
3.31	23.049	3.31	23.049
3.41	23.222	3.41	23.222
3.50	23.417	3.50	23.417

3.61	24.216	3.61	24.216
3.72	24.345	3.72	24.345
3.84	24.627	3.84	24.627
3.96	25.101	3.96	25.101
4.10	26.152	4.10	26.152
4.24	26.304	4.24	26.304
4.39	26.746	4.39	26.746
4.56	26.936	4.56	26.936
4.74	27.008	4.74	27.008
4.93	27.473	4.93	27.473
5.14	28.374	5.14	28.374
5.37	29.320	5.37	29.320
5.62	30.475	5.62	30.475
5.89	30.881	5.89	30.881
6.19	30.887	6.19	30.887
6.53	31.055	6.53	31.055
6.90	31.593	6.90	31.593
7.31	32.389	7.31	32.389
7.78	32.938	7.78	32.938
8.32	34.169	8.32	34.169
8.93	36.334	8.93	36.334
9.64	37.203	9.64	37.203
10.48	38.168	10.48	38.168
11.47	40.119	11.47	40.119
12.67	42.673	12.67	42.673
14.15	44.024	14.15	44.024
16.02	45.591	16.02	45.591
18.46	47.053	18.46	47.053
21.78	48.887	21.78	48.887
26.56	52.570	26.56	52.570
34.02	54.868	34.02	54.868
47.31	54.978	47.31	54.978
77.64	55.932	77.64	55.932
216.29	61.454	216.29	61.454

***** Point of Compliance Flow Frequency Data *****

Recurrence Interval Computed Using Gringorten Plotting Position

Predevelopment Runoff		Postdevelopment Runoff	
Tr (Years)	Discharge (cfs)	Tr (Years)	Discharge (cfs)
2-Year	14.360	2-Year	14.360
5-Year	27.772	5-Year	27.772
10-Year	37.625	10-Year	37.625
25-Year	51.445	25-Year	51.445
50-Year	55.085	50-Year	55.085
100-Year	57.296	100-Year	57.296
200-Year	61.032	200-Year	61.032

** Record too Short to Compute Peak Discharge for These Recurrence Intervals

***** Point of Compliance Flow Duration Data *****

Predevelopment Runoff		Postdevelopment Runoff	
Discharge (cfs)	Exceedance Probability	Discharge (cfs)	Exceedance Probability

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0.000E+00	1.0000E+00	0.000E+00	1.0000E+00
0.307	1.1794E-03	0.307	1.1794E-03
0.615	1.1134E-03	0.615	1.1134E-03
0.922	1.0474E-03	0.922	1.0474E-03
1.229	9.8142E-04	1.229	9.8142E-04
1.536	9.3429E-04	1.536	9.3429E-04
1.844	8.9092E-04	1.844	8.9092E-04
2.151	8.5981E-04	2.151	8.5981E-04
2.458	8.1644E-04	2.458	8.1644E-04
2.765	7.7401E-04	2.765	7.7401E-04
3.073	7.4479E-04	3.073	7.4479E-04
3.380	7.0048E-04	3.380	7.0048E-04
3.687	6.7408E-04	3.687	6.7408E-04
3.995	6.3354E-04	3.995	6.3354E-04
4.302	5.9489E-04	4.302	5.9489E-04
4.609	5.5906E-04	4.609	5.5906E-04
4.916	5.3549E-04	4.916	5.3549E-04
5.224	5.1570E-04	5.224	5.1570E-04
5.531	4.9590E-04	5.531	4.9590E-04
5.838	4.7893E-04	5.838	4.7893E-04
6.145	4.5819E-04	6.145	4.5819E-04
6.453	4.3650E-04	6.453	4.3650E-04
6.760	4.1859E-04	6.760	4.1859E-04
7.180	3.9695E-04	7.180	3.9695E-04
7.375	3.8371E-04	7.375	3.8371E-04
7.682	3.6202E-04	7.682	3.6202E-04
7.989	3.4788E-04	7.989	3.4788E-04
8.296	3.3091E-04	8.296	3.3091E-04
8.604	3.1960E-04	8.604	3.1960E-04
8.911	3.0640E-04	8.911	3.0640E-04
9.218	2.9226E-04	9.218	2.9226E-04
9.525	2.8377E-04	9.525	2.8377E-04
9.833	2.7340E-04	9.833	2.7340E-04
10.140	2.6775E-04	10.140	2.6775E-04
10.447	2.6020E-04	10.447	2.6020E-04
10.754	2.5455E-04	10.754	2.5455E-04
11.062	2.4701E-04	11.062	2.4701E-04
11.369	2.3664E-04	11.369	2.3664E-04
11.676	2.2815E-04	11.676	2.2815E-04
11.984	2.1495E-04	11.984	2.1495E-04
12.291	2.0552E-04	12.291	2.0552E-04
12.598	1.9327E-04	12.598	1.9327E-04
12.905	1.8195E-04	12.905	1.8195E-04
13.213	1.7818E-04	13.213	1.7818E-04
13.520	1.7441E-04	13.520	1.7441E-04
13.827	1.6687E-04	13.827	1.6687E-04
14.134	1.6121E-04	14.134	1.6121E-04
14.360	1.5464E-04	14.360	1.5464E-04
14.749	1.5084E-04	14.749	1.5084E-04
15.056	1.5084E-04	15.056	1.5084E-04
15.364	1.4896E-04	15.364	1.4896E-04
15.671	1.4236E-04	15.671	1.4236E-04
15.978	1.3764E-04	15.978	1.3764E-04
16.285	1.3105E-04	16.285	1.3105E-04

16.593	1.2633E-04	16.593	1.2633E-04
16.900	1.2445E-04	16.900	1.2445E-04
17.207	1.1879E-04	17.207	1.1879E-04
17.514	1.1690E-04	17.514	1.1690E-04
17.822	1.1502E-04	17.822	1.1502E-04
18.129	1.1030E-04	18.129	1.1030E-04
18.436	1.0559E-04	18.436	1.0559E-04
18.744	1.0276E-04	18.744	1.0276E-04
19.051	9.8048E-05	19.051	9.8048E-05
19.358	9.7105E-05	19.358	9.7105E-05
19.665	9.1449E-05	19.665	9.1449E-05
19.973	8.5792E-05	19.973	8.5792E-05
20.280	8.3907E-05	20.280	8.3907E-05
20.587	8.0135E-05	20.587	8.0135E-05
20.894	7.9193E-05	20.894	7.9193E-05
21.202	7.5422E-05	21.202	7.5422E-05
21.509	7.4479E-05	21.509	7.4479E-05
21.816	6.9765E-05	21.816	6.9765E-05
22.124	6.7879E-05	22.124	6.7879E-05
22.431	6.6937E-05	22.431	6.6937E-05
22.738	6.5051E-05	22.738	6.5051E-05
23.045	6.4108E-05	23.045	6.4108E-05
23.353	6.2223E-05	23.353	6.2223E-05
23.660	6.1280E-05	23.660	6.1280E-05
23.967	5.8452E-05	23.967	5.8452E-05
24.274	5.6566E-05	24.274	5.6566E-05
24.582	5.5623E-05	24.582	5.5623E-05
24.889	5.2795E-05	24.889	5.2795E-05
25.196	5.1852E-05	25.196	5.1852E-05
25.504	5.1852E-05	25.504	5.1852E-05
25.811	5.1852E-05	25.811	5.1852E-05
26.118	4.9967E-05	26.118	4.9967E-05
26.425	4.5253E-05	26.425	4.5253E-05
26.733	4.5253E-05	26.733	4.5253E-05
27.040	4.0539E-05	27.040	4.0539E-05
27.347	3.9596E-05	27.347	3.9596E-05
27.772	3.7143E-05	27.772	3.7143E-05
27.962	3.6768E-05	27.962	3.6768E-05
28.269	3.6768E-05	28.269	3.6768E-05
28.576	3.5825E-05	28.576	3.5825E-05
28.883	3.5825E-05	28.883	3.5825E-05
29.191	3.5825E-05	29.191	3.5825E-05
29.498	3.2997E-05	29.498	3.2997E-05
29.805	3.2054E-05	29.805	3.2054E-05
30.113	3.2054E-05	30.113	3.2054E-05
30.420	3.2054E-05	30.420	3.2054E-05
30.727	3.1111E-05	30.727	3.1111E-05
31.034	2.9226E-05	31.034	2.9226E-05
31.342	2.8283E-05	31.342	2.8283E-05
31.649	2.7340E-05	31.649	2.7340E-05
31.956	2.6398E-05	31.956	2.6398E-05
32.263	2.5455E-05	32.263	2.5455E-05
32.571	2.3569E-05	32.571	2.3569E-05
32.878	2.3569E-05	32.878	2.3569E-05
33.185	2.2626E-05	33.185	2.2626E-05
33.493	2.2626E-05	33.493	2.2626E-05

33.800	2.2626E-05	33.800	2.2626E-05
34.107	2.1684E-05	34.107	2.1684E-05
34.414	1.9798E-05	34.414	1.9798E-05
34.722	1.9798E-05	34.722	1.9798E-05
35.029	1.9798E-05	35.029	1.9798E-05
35.336	1.9798E-05	35.336	1.9798E-05
35.643	1.9798E-05	35.643	1.9798E-05
35.951	1.8855E-05	35.951	1.8855E-05
36.258	1.7913E-05	36.258	1.7913E-05
36.565	1.6970E-05	36.565	1.6970E-05
36.873	1.4142E-05	36.873	1.4142E-05
37.180	1.4142E-05	37.180	1.4142E-05
37.487	1.3199E-05	37.487	1.3199E-05
37.794	1.3199E-05	37.794	1.3199E-05
38.102	1.3199E-05	38.102	1.3199E-05
38.409	1.2256E-05	38.409	1.2256E-05
38.716	1.2256E-05	38.716	1.2256E-05
39.023	1.2256E-05	39.023	1.2256E-05
39.331	1.2256E-05	39.331	1.2256E-05
39.638	1.1313E-05	39.638	1.1313E-05
39.945	1.1313E-05	39.945	1.1313E-05
40.253	1.0370E-05	40.253	1.0370E-05
40.560	1.0370E-05	40.560	1.0370E-05
40.867	1.0370E-05	40.867	1.0370E-05
41.174	1.0370E-05	41.174	1.0370E-05
41.482	1.0370E-05	41.482	1.0370E-05
41.789	1.0370E-05	41.789	1.0370E-05
42.096	1.0370E-05	42.096	1.0370E-05
42.403	9.4277E-06	42.403	9.4277E-06
42.711	8.4849E-06	42.711	8.4849E-06
43.018	8.4849E-06	43.018	8.4849E-06
43.325	8.4849E-06	43.325	8.4849E-06
43.632	8.4849E-06	43.632	8.4849E-06
43.940	8.4849E-06	43.940	8.4849E-06
44.247	7.5422E-06	44.247	7.5422E-06
44.554	7.5422E-06	44.554	7.5422E-06
44.862	7.5422E-06	44.862	7.5422E-06
45.169	7.5422E-06	45.169	7.5422E-06
45.476	7.5422E-06	45.476	7.5422E-06
45.783	6.5994E-06	45.783	6.5994E-06
46.091	6.5994E-06	46.091	6.5994E-06
46.398	6.5994E-06	46.398	6.5994E-06
46.705	6.5994E-06	46.705	6.5994E-06
47.012	6.5994E-06	47.012	6.5994E-06
47.320	5.6566E-06	47.320	5.6566E-06
47.627	5.6566E-06	47.627	5.6566E-06
47.934	5.6566E-06	47.934	5.6566E-06
48.242	5.6566E-06	48.242	5.6566E-06
48.549	5.6566E-06	48.549	5.6566E-06
48.856	5.6566E-06	48.856	5.6566E-06
49.163	4.7139E-06	49.163	4.7139E-06
49.471	4.7139E-06	49.471	4.7139E-06
49.778	4.7139E-06	49.778	4.7139E-06
50.085	4.7139E-06	50.085	4.7139E-06
50.392	4.7139E-06	50.392	4.7139E-06
50.700	4.7139E-06	50.700	4.7139E-06

51.007	4.7139E-06	51.007	4.7139E-06
51.314	4.7139E-06	51.314	4.7139E-06
51.622	4.7139E-06	51.622	4.7139E-06
51.929	4.7139E-06	51.929	4.7139E-06
52.236	4.7139E-06	52.236	4.7139E-06
52.543	4.7139E-06	52.543	4.7139E-06
52.851	3.7711E-06	52.851	3.7711E-06
53.158	3.7711E-06	53.158	3.7711E-06
53.465	3.7711E-06	53.465	3.7711E-06
53.772	3.7711E-06	53.772	3.7711E-06
54.080	3.7711E-06	54.080	3.7711E-06
54.387	3.7711E-06	54.387	3.7711E-06
54.694	3.7711E-06	54.694	3.7711E-06
55.085	1.7639E-06	55.085	1.7639E-06
55.309	1.8855E-06	55.309	1.8855E-06
55.616	1.8855E-06	55.616	1.8855E-06
55.923	1.8855E-06	55.923	1.8855E-06
56.231	9.4277E-07	56.231	9.4277E-07
56.538	9.4277E-07	56.538	9.4277E-07
56.845	9.4277E-07	56.845	9.4277E-07
57.152	9.4277E-07	57.152	9.4277E-07
57.460	9.4277E-07	57.460	9.4277E-07
57.767	9.4277E-07	57.767	9.4277E-07
58.074	9.4277E-07	58.074	9.4277E-07
58.382	9.4277E-07	58.382	9.4277E-07
58.689	9.4277E-07	58.689	9.4277E-07
58.996	9.4277E-07	58.996	9.4277E-07
59.303	9.4277E-07	59.303	9.4277E-07
59.611	9.4277E-07	59.611	9.4277E-07
59.918	9.4277E-07	59.918	9.4277E-07
60.225	9.4277E-07	60.225	9.4277E-07
60.532	9.4277E-07	60.532	9.4277E-07
60.840	9.4277E-07	60.840	9.4277E-07
61.147	9.4277E-07	61.147	9.4277E-07
61.454	9.4277E-07	61.454	9.4277E-07

****** Flow Duration Performance According to Dept. of Ecology Criteria ******

Excursion at Predeveloped ½Q2 (Must be Less Than 0%):	0.0%	PASS
Maximum Excursion from ½Q2 to Q2 (Must be Less Than 0%):	0.0%	PASS
Maximum Excursion from Q2 to Q50 (Must be less than 10%):	0.0%	PASS
Percent Excursion from Q2 to Q50 (Must be less than 50%):	0.0%	PASS

POND MEETS ALL DURATION DESIGN CRITERIA: PASS

MGS FLOOD
PROJECT REPORT

Program Version: MGSFlood 4.09
Program License Number: 200510001
Run Date: 09/22/2011 10:32 AM

Input File Name: Millennium4.fld
Project Name: Millennium 4
Analysis Title: Millennium
Comments: Alt 6: Alt 4 plus US Stor - 99.94%
Alt 7: Alt 5 plus US Stor - 99.83%

——————————————— PRECIPITATION INPUT ———————————————

Computational Time Step (Minutes): 60

Extended Precipitation Timeseries Selected
Climatic Region Number: 21

Full Period of Record Available used for Routing
Precipitation Station : 97004805 Vancouver 48 in_5min 10/01/1939-10/01/2060
Evaporation Station : 971048 Vancouver 48 in MAP
Evaporation Scale Factor : 0.750

HSPF Parameter Region Number: 1
HSPF Parameter Region Name : USGS Default

********** Default HSPF Parameters Used (Not Modified by User) **********

********** **WATERSHED DEFINITION** **********

----------SCENARIO: PREDEVELOPED
Number of Subbasins: 8

---------- Subbasin : Subbasin 3 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	27.200
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	17.280

Subbasin Total	44.480

---------- Subbasin : Subbasin 1 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	18.080
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	72.400
Subbasin Total	90.480

---------- Subbasin : Subbasin 3A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	15.820
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.340
Subbasin Total	16.160

---------- Subbasin : Subbasin 4 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	59.720
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	6.680
Subbasin Total	66.400

---------- Subbasin : Subbasin 5 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	37.010

Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	15.780
Subbasin Total	52.790

---------- Subbasin : Subbasin 6 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	41.650
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	3.580
Subbasin Total	45.230

---------- Subbasin : Subbasin 4A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	3.830
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	1.720
Subbasin Total	5.550

---------- Subbasin : Subbasin 5A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	26.140
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.000

Subbasin Total 26.140

----------SCENARIO: POSTDEVELOPED
Number of Subbasins: 8

---------- Subbasin : Subbasin 3 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	27.200
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	17.280
Subbasin Total	44.480

---------- Subbasin : Subbasin 1 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	18.080
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	72.400
Subbasin Total	90.480

---------- Subbasin : Subbasin 3A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	15.820
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.340
Subbasin Total	16.160

---------- Subbasin : Subbasin 4 ----------

-------Area(Acres) --------

Till Forest	0.000
Till Pasture	59.720
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	6.680
Subbasin Total	66.400

---------- Subbasin : Subbasin 5 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	37.010
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	15.780
Subbasin Total	52.790

---------- Subbasin : Subbasin 6 ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	41.650
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	3.580
Subbasin Total	45.230

---------- Subbasin : Subbasin 4A ----------

	-------Area(Acres) --------
Till Forest	0.000
Till Pasture	0.000
Till Grass	3.830
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000

User	0.000
Impervious	1.720

Subbasin Total	5.550

---------- Subbasin : Subbasin 5A ----------

-------Area(Acres) --------

Till Forest	0.000
Till Pasture	26.140
Till Grass	0.000
Outwash Forest	0.000
Outwash Pasture	0.000
Outwash Grass	0.000
Wetland	0.000
Green Roof	0.000
User	0.000
Impervious	0.000

Subbasin Total	26.140

********** **LINK DATA** **********

----------SCENARIO: PREDEVELOPED
Number of Links: 20

Link Name: 1
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 6
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 4
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 4A
Link Type: Copy
Downstream Link: None

Link Name: 3
Link Type: Copy

Downstream Link Name: Outfall 3

Link Name: 3A
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 5
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 5A
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: Outfall 3
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: Outfall 5
Link Type: Copy
Downstream Link: None

Link Name: 77 Pump
Link Type: Copy
Downstream Link Name: US Storage

Link Name: Wet Pond
Link Type: Structure
Downstream Link Name: PS C

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 5.50
Riser Crest Elevation (ft) : 13.50
Max Pond Elevation (ft) : 20.25
Storage Depth (ft) : 8.00
Pond Bottom Length (ft) : 300.0
Pond Bottom Width (ft) : 135.0
Pond Side Slopes (ft/ft) : L1= 3.00 L2= 3.00 W1= 3.00 W2= 3.00
Bottom Area (sq-ft) : 40500.
Area at Riser Crest El (sq-ft) : 63,684.
(acres) : 1.462
Volume at Riser Crest (cu-ft) : 413,664.

	(ac-ft)	:	9.496
Area at Max Elevation	(sq-ft)	:	86830.
	(acres)	:	1.993
Vol at Max Elevation	(cu-ft)	:	932,540.
	(ac-ft)	:	21.408

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Low
Maintenance : Average or Better

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 20.00
Common Length (ft) : 0.000
Riser Crest Elevation : 13.50 ft

Hydraulic Structure Geometry

Number of Devices: 0

Link Name: Outfall 2A
Link Type: Copy
Downstream Link: None

Link Name: 20 CFS
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk12 - Wet Pond
Outflow 2 Connected to Link: Lnk18 - PS 77 Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
20.000	20.000	0.000
100.000	20.000	80.000

Link Name: Surplus
Link Type: Copy
Downstream Link: None

Link Name: 20 CFS
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk13 - Outfall 2A
Outflow 2 Connected to Link: Lnk19 - PS C Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
20.000	20.000	0.000
100.000	20.000	80.000

Link Name: PS C
Link Type: Copy
Downstream Link Name: 20 CFS

Link Name: PS 77 Short
Link Type: Copy
Downstream Link Name: Surplus

Link Name: PS C Short
Link Type: Copy
Downstream Link Name: Surplus

Link Name: US Storage
Link Type: Structure
Downstream Link Name: 20 CFS

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 100.00
Riser Crest Elevation (ft) : 109.00
Max Pond Elevation (ft) : 115.00
Storage Depth (ft) : 9.00
Pond Bottom Length (ft) : 120.0
Pond Bottom Width (ft) : 500.0
Pond Side Slopes (ft/ft) : L1= 0.00 L2= 0.00 W1= 0.00 W2= 0.00
Bottom Area (sq-ft) : 60000.
Area at Riser Crest El (sq-ft) : 60,000.
(acres) : 1.377
Volume at Riser Crest (cu-ft) : 540,000.
(ac-ft) : 12.397
Area at Max Elevation (sq-ft) : 60000.
(acres) : 1.377
Vol at Max Elevation (cu-ft) : 912,000.
(ac-ft) : 20.937

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00

Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Low
Maintenance : Average or Better

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 24.00
Common Length (ft) : 0.000
Riser Crest Elevation : 109.00 ft

Hydraulic Structure Geometry

Number of Devices: 1

---Device Number 1 ---
Device Type : Circular Orifice
Control Elevation (ft) : 100.00
Diameter (in) : 16.00
Orientation : Horizontal
Elbow : Yes

Structure Stage, Storage Discharge Tables

Link: Lnk12 Wet Pond

Elev (ft)	Storage (ac-ft)	Discharge (cfs)	Infilt Discharge (cfs)
5.500	0.000	0.000	0.000
5.543	0.040	0.000	0.000
5.585	0.079	0.000	0.000
5.670	0.159	0.000	0.000
5.840	0.320	0.000	0.000
6.010	0.482	0.000	0.000
6.180	0.646	0.000	0.000
6.350	0.812	0.000	0.000
6.520	0.980	0.000	0.000
6.690	1.149	0.000	0.000
6.860	1.321	0.000	0.000
7.030	1.494	0.000	0.000
7.200	1.669	0.000	0.000
7.370	1.845	0.000	0.000
7.540	2.024	0.000	0.000
7.710	2.204	0.000	0.000
7.880	2.386	0.000	0.000
8.050	2.570	0.000	0.000
8.220	2.756	0.000	0.000
8.390	2.944	0.000	0.000
8.560	3.133	0.000	0.000
8.730	3.325	0.000	0.000
8.900	3.518	0.000	0.000
9.070	3.714	0.000	0.000
9.240	3.911	0.000	0.000
9.410	4.110	0.000	0.000
9.580	4.311	0.000	0.000

9.750	4.514	0.000	0.000
9.920	4.719	0.000	0.000
10.090	4.925	0.000	0.000
10.260	5.134	0.000	0.000
10.430	5.345	0.000	0.000
10.600	5.558	0.000	0.000
10.770	5.772	0.000	0.000
10.940	5.989	0.000	0.000
11.110	6.207	0.000	0.000
11.280	6.428	0.000	0.000
11.450	6.651	0.000	0.000
11.620	6.875	0.000	0.000
11.790	7.102	0.000	0.000
11.960	7.331	0.000	0.000
12.130	7.561	0.000	0.000
12.300	7.794	0.000	0.000
12.470	8.029	0.000	0.000
12.640	8.266	0.000	0.000
12.810	8.505	0.000	0.000
12.980	8.746	0.000	0.000
13.150	8.989	0.000	0.000
13.320	9.234	0.000	0.000
13.365	9.300	0.000	0.000
13.410	9.365	0.000	0.000
13.455	9.431	0.000	0.000
13.500	9.496	0.000	0.000
13.543	9.559	0.155	0.000
13.585	9.621	0.438	0.000
13.628	9.683	0.803	0.000
13.670	9.746	1.232	0.000
13.713	9.809	1.712	0.000
13.755	9.872	2.232	0.000
13.798	9.935	2.780	0.000
13.840	9.998	3.344	0.000
14.010	10.252	5.531	0.000
14.180	10.508	7.123	0.000
14.350	10.766	8.066	0.000
14.520	11.026	8.836	0.000
14.690	11.288	9.544	0.000
14.860	11.553	10.203	0.000
15.030	11.820	10.822	0.000
15.200	12.089	11.407	0.000
15.370	12.360	11.964	0.000
15.540	12.633	12.496	0.000
15.710	12.909	13.006	0.000
15.880	13.187	13.497	0.000
16.050	13.467	13.971	0.000
16.220	13.749	14.429	0.000
16.390	14.034	14.873	0.000
16.560	14.320	15.304	0.000
16.730	14.609	15.724	0.000
16.900	14.901	16.132	0.000
17.070	15.194	16.531	0.000
17.240	15.490	16.920	0.000
17.410	15.788	17.300	0.000
17.580	16.088	17.672	0.000

17.750	16.391	18.037	0.000
17.920	16.696	18.394	0.000
18.090	17.003	18.744	0.000
18.260	17.313	19.088	0.000
18.430	17.625	19.426	0.000
18.600	17.939	19.758	0.000
18.770	18.256	20.085	0.000
18.940	18.574	20.406	0.000
19.110	18.896	20.722	0.000
19.280	19.219	21.034	0.000
19.450	19.545	21.341	0.000
19.620	19.874	21.644	0.000
19.790	20.205	21.942	0.000
19.960	20.538	22.237	0.000
20.130	20.873	22.528	0.000
20.300	21.211	22.815	0.000
20.470	21.552	23.098	0.000

Link: Lnk20 US Storage

Elev (ft)	Storage (ac-ft)	Discharge (cfs)	Infilt Discharge (cfs)
100.000	0.000	0.000	0.000
100.045	0.062	1.377	0.000
100.090	0.124	1.947	0.000
100.180	0.248	2.753	0.000
100.360	0.496	3.894	0.000
100.540	0.744	4.769	0.000
100.720	0.992	5.507	0.000
100.900	1.240	6.157	0.000
101.080	1.488	6.744	0.000
101.260	1.736	7.285	0.000
101.440	1.983	7.788	0.000
101.620	2.231	8.260	0.000
101.800	2.479	8.707	0.000
101.980	2.727	9.132	0.000
102.160	2.975	9.538	0.000
102.340	3.223	9.927	0.000
102.520	3.471	10.302	0.000
102.700	3.719	10.664	0.000
102.880	3.967	11.013	0.000
103.060	4.215	11.352	0.000
103.240	4.463	11.681	0.000
103.420	4.711	12.001	0.000
103.600	4.959	12.313	0.000
103.780	5.207	12.617	0.000
103.960	5.455	12.914	0.000
104.140	5.702	13.205	0.000
104.320	5.950	13.489	0.000
104.500	6.198	13.767	0.000
104.680	6.446	14.039	0.000
104.860	6.694	14.307	0.000
105.040	6.942	14.569	0.000
105.220	7.190	14.827	0.000
105.400	7.438	15.081	0.000
105.580	7.686	15.330	0.000

105.760	7.934	15.575	0.000
105.940	8.182	15.817	0.000
106.120	8.430	16.055	0.000
106.300	8.678	16.289	0.000
106.480	8.926	16.520	0.000
106.660	9.174	16.748	0.000
106.840	9.421	16.973	0.000
107.020	9.669	17.195	0.000
107.200	9.917	17.414	0.000
107.380	10.165	17.630	0.000
107.560	10.413	17.844	0.000
107.740	10.661	18.055	0.000
107.920	10.909	18.264	0.000
108.100	11.157	18.470	0.000
108.280	11.405	18.674	0.000
108.460	11.653	18.876	0.000
108.640	11.901	19.076	0.000
108.730	12.025	19.175	0.000
108.820	12.149	19.273	0.000
108.910	12.273	19.371	0.000
109.000	12.397	19.469	0.000
109.045	12.459	19.720	0.000
109.090	12.521	20.138	0.000
109.135	12.583	20.665	0.000
109.180	12.645	21.276	0.000
109.225	12.707	21.957	0.000
109.270	12.769	22.695	0.000
109.315	12.831	23.477	0.000
109.360	12.893	24.291	0.000
109.540	13.140	27.612	0.000
109.720	13.388	30.451	0.000
109.900	13.636	32.307	0.000
110.080	13.884	33.697	0.000
110.260	14.132	34.929	0.000
110.440	14.380	36.087	0.000
110.620	14.628	37.184	0.000
110.800	14.876	38.230	0.000
110.980	15.124	39.232	0.000
111.160	15.372	40.196	0.000
111.340	15.620	41.126	0.000
111.520	15.867	42.026	0.000
111.700	16.115	42.900	0.000
111.880	16.363	43.749	0.000
112.060	16.610	44.575	0.000
112.240	16.858	45.382	0.000
112.420	17.106	46.170	0.000
112.600	17.353	46.940	0.000
112.780	17.600	47.694	0.000
112.960	17.848	48.434	0.000
113.140	18.095	49.159	0.000
113.320	18.342	49.871	0.000
113.500	18.589	50.570	0.000
113.680	18.836	51.258	0.000
113.860	19.083	51.934	0.000
114.040	19.330	52.600	0.000
114.220	19.576	53.256	0.000

114.400	19.823	53.903	0.000
114.580	20.069	54.540	0.000
114.760	20.315	55.169	0.000
114.940	20.561	55.789	0.000
115.120	20.807	56.402	0.000
115.300	21.053	57.007	0.000
115.480	21.299	57.604	0.000
115.660	21.544	58.194	0.000

********** **LINK DATA** **********

----------SCENARIO: POSTDEVELOPED
Number of Links: 21

Link Name: 1
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 6
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 4
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 4A
Link Type: Copy
Downstream Link: None

Link Name: 3
Link Type: Copy
Downstream Link Name: Outfall 3

Link Name: 3A
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: 5
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: 5A
Link Type: Copy
Downstream Link Name: Outfall 5

Link Name: Outfall 3
Link Type: Copy
Downstream Link Name: 77 Pump

Link Name: Outfall 5
Link Type: Copy
Downstream Link: None

Link Name: 77 Pump
Link Type: Copy
Downstream Link Name: US Storage

Link Name: Wet Pond
Link Type: Structure
Downstream Link Name: PS C

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 6.00
Riser Crest Elevation (ft) : 12.50
Max Pond Elevation (ft) : 20.25
Storage Depth (ft) : 6.50
Pond Bottom Length (ft) : 600.0
Pond Bottom Width (ft) : 200.0
Pond Side Slopes (ft/ft) : L1= 3.00 L2= 3.00 W1= 3.00 W2= 3.00
Bottom Area (sq-ft) : 120000.
Area at Riser Crest El (sq-ft) : 152,721.
(acres) : 3.506
Volume at Riser Crest (cu-ft) : 884,695.
(ac-ft) : 20.310
Area at Max Elevation (sq-ft) : 195710.
(acres) : 4.493
Vol at Max Elevation (cu-ft) : 2,262,619.
(ac-ft) : 51.943

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Average to High
Maintenance : Poor

Riser Geometry

Riser Structure Type : Circular
Riser Diameter (in) : 20.00
Common Length (ft) : 0.000
Riser Crest Elevation : 12.50 ft

Hydraulic Structure Geometry

Number of Devices: 0

Link Name: Outfall 2A
Link Type: Copy
Downstream Link: None

Link Name: 13.37 cfs
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk13 - Outfall 2A
Outflow 2 Connected to Link: Lnk20 - PS C Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
13.370	13.370	0.000
100.000	13.370	86.630

Link Name: Thickner Tanks
Link Type: Structure
Downstream Link Name: Wet Pond

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 100.00
Riser Crest Elevation (ft) : 118.00
Max Pond Elevation (ft) : 120.00
Storage Depth (ft) : 18.00
Pond Bottom Length (ft) : 90.0
Pond Bottom Width (ft) : 90.0
Pond Side Slopes (ft/ft) : L1= 0.00 L2= 0.00 W1= 0.00 W2= 0.00
Bottom Area (sq-ft) : 8100.
Area at Riser Crest El (sq-ft) : 8,100.
(acres) : 0.186
Volume at Riser Crest (cu-ft) : 145,800.
(ac-ft) : 3.347
Area at Max Elevation (sq-ft) : 8100.
(acres) : 0.186
Vol at Max Elevation (cu-ft) : 164,025.
(ac-ft) : 3.765

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Average to High
Maintenance : Poor

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 36.00
Common Length (ft) : 0.000
Riser Crest Elevation : 118.00 ft

Hydraulic Structure Geometry

Number of Devices: 1

---Device Number 1 ---
Device Type : Circular Orifice
Control Elevation (ft) : 101.00
Diameter (in) : 16.00
Orientation : Horizontal
Elbow : Yes

Link Name: Surplus
Link Type: Copy
Downstream Link: None

Link Name: PS C
Link Type: Copy
Downstream Link Name: 13.37 cfs

Link Name: 20 CFS
Link Type: Flow Splitter

Outflow 1 Connected to Link: Lnk15 - Thickner Tanks
Outflow 2 Connected to Link: Lnk19 - PS 77 Short

Splitter Rating Table

Inflow (cfs)	Outflow 1 (cfs)	Ouflow 2 (cfs)
0.000	0.000	0.000
1.000	1.000	0.000
20.000	20.000	0.000
100.000	20.000	80.000

Link Name: PS 77 Short
Link Type: Copy

Downstream Link Name: Surplus

Link Name: PS C Short
Link Type: Copy
Downstream Link Name: Surplus

Link Name: US Storage
Link Type: Structure
Downstream Link Name: 20 CFS

Prismatic Pond Option Used
Pond Floor Elevation (ft) : 100.00
Riser Crest Elevation (ft) : 109.00
Max Pond Elevation (ft) : 115.00
Storage Depth (ft) : 9.00
Pond Bottom Length (ft) : 120.0
Pond Bottom Width (ft) : 500.0
Pond Side Slopes (ft/ft) : L1= 0.00 L2= 0.00 W1= 0.00 W2= 0.00
Bottom Area (sq-ft) : 60000.
Area at Riser Crest El (sq-ft) : 60,000.
(acres) : 1.377
Volume at Riser Crest (cu-ft) : 540,000.
(ac-ft) : 12.397
Area at Max Elevation (sq-ft) : 60000.
(acres) : 1.377
Vol at Max Elevation (cu-ft) : 912,000.
(ac-ft) : 20.937

Massmann Infiltration Option Used
Hydraulic Conductivity (in/hr) : 0.00
Depth to Water Table (ft) : 100.00
Bio-Fouling Potential : Low
Maintenance : Average or Better

Riser Geometry
Riser Structure Type : Circular
Riser Diameter (in) : 24.00
Common Length (ft) : 0.000
Riser Crest Elevation : 109.00 ft

Hydraulic Structure Geometry

Number of Devices: 1

---Device Number 1 ---
Device Type : Circular Orifice
Control Elevation (ft) : 100.00
Diameter (in) : 16.00
Orientation : Horizontal
Elbow : Yes

Structure Stage, Storage Discharge Tables

Link: Lnk12 Wet Pond

Elev (ft)	Storage (ac-ft)	Discharge (cfs)	Infilt Discharge (cfs)
6.000	0.000	0.000	0.000
6.043	0.117	0.000	0.000
6.085	0.235	0.000	0.000
6.170	0.470	0.000	0.000
6.340	0.943	0.000	0.000
6.510	1.419	0.000	0.000
6.680	1.899	0.000	0.000
6.850	2.382	0.000	0.000
7.020	2.868	0.000	0.000
7.190	3.357	0.000	0.000
7.360	3.849	0.000	0.000
7.530	4.345	0.000	0.000
7.700	4.844	0.000	0.000
7.870	5.346	0.000	0.000
8.040	5.851	0.000	0.000
8.210	6.360	0.000	0.000
8.380	6.872	0.000	0.000
8.550	7.388	0.000	0.000
8.720	7.906	0.000	0.000
8.890	8.428	0.000	0.000
9.060	8.954	0.000	0.000
9.230	9.482	0.000	0.000
9.400	10.014	0.000	0.000
9.570	10.549	0.000	0.000
9.740	11.088	0.000	0.000
9.910	11.630	0.000	0.000
10.080	12.176	0.000	0.000
10.250	12.724	0.000	0.000
10.420	13.276	0.000	0.000
10.590	13.832	0.000	0.000
10.760	14.391	0.000	0.000
10.930	14.953	0.000	0.000
11.100	15.519	0.000	0.000
11.270	16.088	0.000	0.000
11.440	16.661	0.000	0.000
11.610	17.237	0.000	0.000
11.780	17.817	0.000	0.000
11.950	18.400	0.000	0.000
12.120	18.986	0.000	0.000
12.290	19.576	0.000	0.000
12.343	19.759	0.000	0.000
12.395	19.942	0.000	0.000
12.448	20.126	0.000	0.000
12.500	20.310	0.000	0.000
12.543	20.459	0.155	0.000
12.585	20.608	0.438	0.000
12.628	20.758	0.803	0.000
12.670	20.908	1.232	0.000
12.713	21.058	1.712	0.000

12.755	21.208	2.232	0.000
12.798	21.358	2.780	0.000
12.840	21.509	3.344	0.000
13.010	22.114	5.531	0.000
13.180	22.722	7.123	0.000
13.350	23.334	8.066	0.000
13.520	23.949	8.836	0.000
13.690	24.568	9.544	0.000
13.860	25.190	10.203	0.000
14.030	25.816	10.822	0.000
14.200	26.446	11.407	0.000
14.370	27.079	11.964	0.000
14.540	27.716	12.496	0.000
14.710	28.356	13.006	0.000
14.880	29.001	13.497	0.000
15.050	29.648	13.971	0.000
15.220	30.300	14.429	0.000
15.390	30.955	14.873	0.000
15.560	31.614	15.304	0.000
15.730	32.276	15.724	0.000
15.900	32.943	16.132	0.000
16.070	33.613	16.531	0.000
16.240	34.287	16.920	0.000
16.410	34.965	17.300	0.000
16.580	35.646	17.672	0.000
16.750	36.332	18.037	0.000
16.920	37.021	18.394	0.000
17.090	37.715	18.744	0.000
17.260	38.412	19.088	0.000
17.430	39.113	19.426	0.000
17.600	39.818	19.758	0.000
17.770	40.527	20.085	0.000
17.940	41.240	20.406	0.000
18.110	41.958	20.722	0.000
18.280	42.679	21.034	0.000
18.450	43.404	21.341	0.000
18.620	44.133	21.644	0.000
18.790	44.867	21.942	0.000
18.960	45.604	22.237	0.000
19.130	46.346	22.528	0.000
19.300	47.092	22.815	0.000
19.470	47.842	23.098	0.000
19.640	48.596	23.378	0.000
19.810	49.354	23.655	0.000
19.980	50.117	23.928	0.000
20.150	50.884	24.199	0.000
20.320	51.655	24.466	0.000
20.490	52.430	24.730	0.000
20.660	53.210	24.992	0.000
20.830	53.994	25.251	0.000

Link: Lnk15 Thickner Tanks

Elev (ft)	Storage (ac-ft)	Discharge (cfs)	Infilt Discharge (cfs)
100.000	0.000	0.000	0.000

100.058	0.011	0.000	0.000
100.115	0.021	0.000	0.000
100.230	0.043	0.000	0.000
100.460	0.086	0.000	0.000
100.690	0.128	0.000	0.000
100.768	0.143	0.000	0.000
100.845	0.157	0.000	0.000
100.923	0.172	0.000	0.000
101.000	0.186	0.000	0.000
101.058	0.197	1.556	0.000
101.115	0.207	2.201	0.000
101.173	0.218	2.695	0.000
101.230	0.229	3.112	0.000
101.460	0.271	4.402	0.000
101.690	0.314	5.391	0.000
101.920	0.357	6.225	0.000
102.150	0.400	6.959	0.000
102.380	0.443	7.624	0.000
102.610	0.485	8.235	0.000
102.840	0.528	8.803	0.000
103.070	0.571	9.337	0.000
103.300	0.614	9.842	0.000
103.530	0.656	10.323	0.000
103.760	0.699	10.782	0.000
103.990	0.742	11.222	0.000
104.220	0.785	11.645	0.000
104.450	0.827	12.054	0.000
104.680	0.870	12.449	0.000
104.910	0.913	12.833	0.000
105.140	0.956	13.205	0.000
105.370	0.999	13.566	0.000
105.600	1.041	13.919	0.000
105.830	1.084	14.263	0.000
106.060	1.127	14.598	0.000
106.290	1.170	14.926	0.000
106.520	1.212	15.247	0.000
106.750	1.255	15.562	0.000
106.980	1.298	15.870	0.000
107.210	1.341	16.172	0.000
107.440	1.383	16.469	0.000
107.670	1.426	16.761	0.000
107.900	1.469	17.047	0.000
108.130	1.512	17.329	0.000
108.360	1.555	17.606	0.000
108.590	1.597	17.879	0.000
108.820	1.640	18.148	0.000
109.050	1.683	18.413	0.000
109.280	1.726	18.674	0.000
109.510	1.768	18.932	0.000
109.740	1.811	19.186	0.000
109.970	1.854	19.437	0.000
110.200	1.897	19.684	0.000
110.430	1.939	19.929	0.000
110.660	1.982	20.170	0.000
110.890	2.025	20.409	0.000
111.120	2.068	20.645	0.000

111.350	2.111	20.878	0.000
111.580	2.153	21.109	0.000
111.810	2.196	21.337	0.000
112.040	2.239	21.563	0.000
112.270	2.282	21.786	0.000
112.500	2.324	22.008	0.000
112.730	2.367	22.227	0.000
112.960	2.410	22.444	0.000
113.190	2.453	22.658	0.000
113.420	2.495	22.871	0.000
113.650	2.538	23.082	0.000
113.880	2.581	23.291	0.000
114.110	2.624	23.498	0.000
114.340	2.667	23.703	0.000
114.570	2.709	23.906	0.000
114.800	2.752	24.108	0.000
115.030	2.795	24.308	0.000
115.260	2.838	24.507	0.000
115.490	2.880	24.704	0.000
115.720	2.923	24.899	0.000
115.950	2.966	25.093	0.000
116.180	3.009	25.285	0.000
116.410	3.051	25.476	0.000
116.640	3.094	25.665	0.000
116.870	3.137	25.853	0.000
117.100	3.180	26.040	0.000
117.330	3.223	26.225	0.000
117.560	3.265	26.409	0.000
117.670	3.286	26.497	0.000
117.780	3.306	26.584	0.000
117.890	3.327	26.671	0.000
118.000	3.347	26.758	0.000
118.058	3.358	27.242	0.000
118.115	3.368	28.088	0.000
118.173	3.379	29.170	0.000
118.230	3.390	30.439	0.000
118.288	3.401	31.864	0.000
118.345	3.411	33.422	0.000
118.403	3.422	35.091	0.000
118.460	3.433	36.849	0.000
118.690	3.475	44.356	0.000
118.920	3.518	51.573	0.000
119.150	3.561	57.275	0.000

Link: Lnk21 US Storage

Elev (ft)	Storage (ac-ft)	Discharge (cfs)	Infilt Discharge (cfs)
100.000	0.000	0.000	0.000
100.045	0.062	1.377	0.000
100.090	0.124	1.947	0.000
100.180	0.248	2.753	0.000
100.360	0.496	3.894	0.000
100.540	0.744	4.769	0.000
100.720	0.992	5.507	0.000
100.900	1.240	6.157	0.000

101.080	1.488	6.744	0.000
101.260	1.736	7.285	0.000
101.440	1.983	7.788	0.000
101.620	2.231	8.260	0.000
101.800	2.479	8.707	0.000
101.980	2.727	9.132	0.000
102.160	2.975	9.538	0.000
102.340	3.223	9.927	0.000
102.520	3.471	10.302	0.000
102.700	3.719	10.664	0.000
102.880	3.967	11.013	0.000
103.060	4.215	11.352	0.000
103.240	4.463	11.681	0.000
103.420	4.711	12.001	0.000
103.600	4.959	12.313	0.000
103.780	5.207	12.617	0.000
103.960	5.455	12.914	0.000
104.140	5.702	13.205	0.000
104.320	5.950	13.489	0.000
104.500	6.198	13.767	0.000
104.680	6.446	14.039	0.000
104.860	6.694	14.307	0.000
105.040	6.942	14.569	0.000
105.220	7.190	14.827	0.000
105.400	7.438	15.081	0.000
105.580	7.686	15.330	0.000
105.760	7.934	15.575	0.000
105.940	8.182	15.817	0.000
106.120	8.430	16.055	0.000
106.300	8.678	16.289	0.000
106.480	8.926	16.520	0.000
106.660	9.174	16.748	0.000
106.840	9.421	16.973	0.000
107.020	9.669	17.195	0.000
107.200	9.917	17.414	0.000
107.380	10.165	17.630	0.000
107.560	10.413	17.844	0.000
107.740	10.661	18.055	0.000
107.920	10.909	18.264	0.000
108.100	11.157	18.470	0.000
108.280	11.405	18.674	0.000
108.460	11.653	18.876	0.000
108.640	11.901	19.076	0.000
108.730	12.025	19.175	0.000
108.820	12.149	19.273	0.000
108.910	12.273	19.371	0.000
109.000	12.397	19.469	0.000
109.045	12.459	19.720	0.000
109.090	12.521	20.138	0.000
109.135	12.583	20.665	0.000
109.180	12.645	21.276	0.000
109.225	12.707	21.957	0.000
109.270	12.769	22.695	0.000
109.315	12.831	23.477	0.000
109.360	12.893	24.291	0.000
109.540	13.140	27.612	0.000

109.720	13.388	30.451	0.000
109.900	13.636	32.307	0.000
110.080	13.884	33.697	0.000
110.260	14.132	34.929	0.000
110.440	14.380	36.087	0.000
110.620	14.628	37.184	0.000
110.800	14.876	38.230	0.000
110.980	15.124	39.232	0.000
111.160	15.372	40.196	0.000
111.340	15.620	41.126	0.000
111.520	15.867	42.026	0.000
111.700	16.115	42.900	0.000
111.880	16.363	43.749	0.000
112.060	16.610	44.575	0.000
112.240	16.858	45.382	0.000
112.420	17.106	46.170	0.000
112.600	17.353	46.940	0.000
112.780	17.600	47.694	0.000
112.960	17.848	48.434	0.000
113.140	18.095	49.159	0.000
113.320	18.342	49.871	0.000
113.500	18.589	50.570	0.000
113.680	18.836	51.258	0.000
113.860	19.083	51.934	0.000
114.040	19.330	52.600	0.000
114.220	19.576	53.256	0.000
114.400	19.823	53.903	0.000
114.580	20.069	54.540	0.000
114.760	20.315	55.169	0.000
114.940	20.561	55.789	0.000
115.120	20.807	56.402	0.000
115.300	21.053	57.007	0.000
115.480	21.299	57.604	0.000
115.660	21.544	58.194	0.000

**************************FLOOD FREQUENCY AND DURATION STATISTICS**********************

----------SCENARIO: PREDEVELOPED
Number of Subbasins: 8
Number of Links: 20

********** Link: US Storage ********** Link WSEL
Stats
Annual Maxima WSEL

Max Date	WSEL (ft)
04/30/1940	104.211
12/20/1940	103.944
12/15/1941	106.209
11/14/1942	105.013
10/29/1943	102.619
02/07/1945	108.910
01/24/1946	104.948
11/18/1946	105.067

03/21/1948	107.320
02/16/1949	104.461
03/03/1950	108.334
02/09/1951	105.484
06/29/1952	104.329
09/30/1953	104.371
01/22/1954	103.825
11/05/1954	102.946
11/02/1955	105.362
02/25/1957	103.373
01/16/1958	104.711
01/24/1959	104.402
12/15/1959	105.931
11/20/1960	105.708
12/17/1961	103.540
11/25/1962	103.249
09/17/1964	103.667
04/19/1965	103.898
01/05/1966	103.390
01/19/1967	107.283
08/23/1968	103.935
12/03/1968	104.990
01/14/1970	104.568
12/05/1970	103.836
02/27/1972	108.471
01/13/1973	104.121
02/19/1974	103.535
12/27/1974	107.895
12/02/1975	104.180
08/23/1977	102.608
09/22/1978	105.870
10/23/1978	103.146
12/15/1979	107.761
11/21/1980	104.657
10/06/1981	110.855
10/28/1982	105.956
01/24/1984	103.379
06/07/1985	104.339
01/18/1986	109.691
11/24/1986	109.841
01/14/1988	103.150
12/30/1988	102.780
01/09/1990	111.688
11/24/1990	111.040
01/27/1992	105.019
03/23/1993	103.469
12/01/1993	101.986
12/27/1994	104.899
02/08/1996	110.099
01/02/1997	106.398
10/30/1997	103.213
11/25/1998	108.569
02/06/2000	107.388
12/20/2000	102.873
12/15/2001	103.960
12/27/2002	109.668

10/24/2003	102.812
11/03/2004	102.950
11/27/2005	105.356
12/12/2006	103.395
01/07/2008	107.825
02/17/2009	108.874
01/19/2010	104.632
11/16/2010	105.225
10/23/2011	106.377
01/20/2013	103.766
12/09/2013	104.004
02/08/2015	103.334
01/04/2016	109.444
02/25/2017	104.538
06/06/2018	107.253
02/14/2019	102.509
10/10/2019	105.235
11/24/2020	107.286
12/20/2021	103.800
11/20/2022	104.513
01/25/2024	104.276
12/22/2024	106.138
01/03/2026	104.680
12/04/2026	104.314
02/19/2028	104.916
09/17/2029	108.412
01/22/2030	108.809
12/30/2030	103.245
01/20/2032	104.075
12/21/2032	105.032
11/15/2033	109.381
01/13/2035	103.889
02/27/2036	104.842
08/24/2037	102.551
12/13/2037	108.768
01/10/2039	105.872
01/09/2040	103.318
12/02/2040	107.186
02/20/2042	107.354
10/29/2042	105.675
12/29/2043	103.632
11/02/2044	105.090
09/25/2046	104.104
02/01/2047	105.739
12/03/2047	104.582
04/25/2049	103.285
11/12/2049	103.084
02/20/2051	103.736
02/18/2052	103.007
12/10/2052	106.625
02/24/2054	106.464
10/27/2054	110.272
11/11/2055	109.777
11/19/2056	111.070
10/30/2057	104.854
11/26/2058	106.533

03/04/2060 102.473

Ranked Annual Maxima Water Surface Elevation (ft)

Tr (Years)	WSEL (ft)
1.00	101.986
1.01	102.473
1.02	102.509
1.03	102.551
1.04	102.608
1.05	102.619
1.06	102.780
1.07	102.812
1.08	102.873
1.09	102.946
1.10	102.950
1.11	103.007
1.12	103.084
1.13	103.146
1.14	103.150
1.15	103.213
1.16	103.245
1.17	103.249
1.18	103.285
1.19	103.318
1.20	103.334
1.22	103.373
1.23	103.379
1.24	103.390
1.25	103.395
1.27	103.469
1.28	103.535
1.29	103.540
1.31	103.632
1.32	103.667
1.34	103.736
1.35	103.766
1.37	103.800
1.38	103.825
1.40	103.836
1.42	103.889
1.43	103.898
1.45	103.935
1.47	103.944
1.49	103.960
1.50	104.004
1.52	104.075
1.54	104.104
1.56	104.121
1.58	104.180
1.60	104.211
1.62	104.276
1.65	104.314
1.67	104.329
1.69	104.339
1.72	104.371

1.74	104.402
1.77	104.461
1.79	104.513
1.82	104.538
1.85	104.568
1.88	104.582
1.91	104.632
1.94	104.657
1.97	104.680
2.00	104.711
2.03	104.842
2.07	104.854
2.10	104.899
2.14	104.916
2.18	104.948
2.22	104.990
2.26	105.013
2.30	105.019
2.35	105.032
2.40	105.067
2.44	105.090
2.49	105.225
2.55	105.235
2.60	105.356
2.66	105.362
2.72	105.484
2.78	105.675
2.85	105.708
2.91	105.739
2.99	105.870
3.06	105.872
3.14	105.931
3.22	105.956
3.31	106.138
3.41	106.209
3.50	106.377
3.61	106.398
3.72	106.464
3.84	106.533
3.96	106.625
4.10	107.186
4.24	107.253
4.39	107.283
4.56	107.286
4.74	107.320
4.93	107.354
5.14	107.388
5.37	107.761
5.62	107.825
5.89	107.895
6.19	108.334
6.53	108.412
6.90	108.471
7.31	108.569
7.78	108.768
8.32	108.809

8.93	108.874
9.64	108.910
10.48	109.381
11.47	109.444
12.67	109.668
14.15	109.691
16.02	109.777
18.46	109.841
21.78	110.099
26.56	110.272
34.02	110.855
47.31	111.040
77.64	111.070
216.29	111.688

WSEL Frequency Data(ft)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	WSEL Peak (ft)
1.05-Year	102.697
1.11-Year	103.049
1.25-Year	103.389
2.00-Year	104.711
3.33-Year	106.161
5-Year	107.344
10-Year	109.108
25-Year	109.960
50-Year	111.036
100-Year	111.148

----------SCENARIO: POSTDEVELOPED
Number of Subbasins: 8
Number of Links: 21

********** Link: US Storage ********** Link WSEL Stats
Annual Maxima WSEL

Max Date	WSEL (ft)
04/30/1940	104.211
12/20/1940	103.944
12/15/1941	106.209
11/14/1942	105.013
10/29/1943	102.619
02/07/1945	108.910
01/24/1946	104.948
11/18/1946	105.067
03/21/1948	107.320
02/16/1949	104.461
03/03/1950	108.334
02/09/1951	105.484
06/29/1952	104.329
09/30/1953	104.371

01/22/1954	103.825
11/05/1954	102.946
11/02/1955	105.362
02/25/1957	103.373
01/16/1958	104.711
01/24/1959	104.402
12/15/1959	105.931
11/20/1960	105.708
12/17/1961	103.540
11/25/1962	103.249
09/17/1964	103.667
04/19/1965	103.898
01/05/1966	103.390
01/19/1967	107.283
08/23/1968	103.935
12/03/1968	104.990
01/14/1970	104.568
12/05/1970	103.836
02/27/1972	108.471
01/13/1973	104.121
02/19/1974	103.535
12/27/1974	107.895
12/02/1975	104.180
08/23/1977	102.608
09/22/1978	105.870
10/23/1978	103.146
12/15/1979	107.761
11/21/1980	104.657
10/06/1981	110.855
10/28/1982	105.956
01/24/1984	103.379
06/07/1985	104.339
01/18/1986	109.691
11/24/1986	109.841
01/14/1988	103.150
12/30/1988	102.780
01/09/1990	111.688
11/24/1990	111.040
01/27/1992	105.019
03/23/1993	103.469
12/01/1993	101.986
12/27/1994	104.899
02/08/1996	110.099
01/02/1997	106.398
10/30/1997	103.213
11/25/1998	108.569
02/06/2000	107.388
12/20/2000	102.873
12/15/2001	103.960
12/27/2002	109.668
10/24/2003	102.812
11/03/2004	102.950
11/27/2005	105.356
12/12/2006	103.395
01/07/2008	107.825
02/17/2009	108.874

01/19/2010	104.632
11/16/2010	105.225
10/23/2011	106.377
01/20/2013	103.766
12/09/2013	104.004
02/08/2015	103.334
01/04/2016	109.444
02/25/2017	104.538
06/06/2018	107.253
02/14/2019	102.509
10/10/2019	105.235
11/24/2020	107.286
12/20/2021	103.800
11/20/2022	104.513
01/25/2024	104.276
12/22/2024	106.138
01/03/2026	104.680
12/04/2026	104.314
02/19/2028	104.916
09/17/2029	108.412
01/22/2030	108.809
12/30/2030	103.245
01/20/2032	104.075
12/21/2032	105.032
11/15/2033	109.381
01/13/2035	103.889
02/27/2036	104.842
08/24/2037	102.551
12/13/2037	108.768
01/10/2039	105.872
01/09/2040	103.318
12/02/2040	107.186
02/20/2042	107.354
10/29/2042	105.675
12/29/2043	103.632
11/02/2044	105.090
09/25/2046	104.104
02/01/2047	105.739
12/03/2047	104.582
04/25/2049	103.285
11/12/2049	103.084
02/20/2051	103.736
02/18/2052	103.007
12/10/2052	106.625
02/24/2054	106.464
10/27/2054	110.272
11/11/2055	109.777
11/19/2056	111.070
10/30/2057	104.854
11/26/2058	106.533
03/04/2060	102.473

Ranked Annual Maxima Water Surface Elevation (ft)

Tr (Years)	WSEL (ft)
1.00	101.986

1.01	102.473
1.02	102.509
1.03	102.551
1.04	102.608
1.05	102.619
1.06	102.780
1.07	102.812
1.08	102.873
1.09	102.946
1.10	102.950
1.11	103.007
1.12	103.084
1.13	103.146
1.14	103.150
1.15	103.213
1.16	103.245
1.17	103.249
1.18	103.285
1.19	103.318
1.20	103.334
1.22	103.373
1.23	103.379
1.24	103.390
1.25	103.395
1.27	103.469
1.28	103.535
1.29	103.540
1.31	103.632
1.32	103.667
1.34	103.736
1.35	103.766
1.37	103.800
1.38	103.825
1.40	103.836
1.42	103.889
1.43	103.898
1.45	103.935
1.47	103.944
1.49	103.960
1.50	104.004
1.52	104.075
1.54	104.104
1.56	104.121
1.58	104.180
1.60	104.211
1.62	104.276
1.65	104.314
1.67	104.329
1.69	104.339
1.72	104.371
1.74	104.402
1.77	104.461
1.79	104.513
1.82	104.538
1.85	104.568
1.88	104.582

1.91	104.632
1.94	104.657
1.97	104.680
2.00	104.711
2.03	104.842
2.07	104.854
2.10	104.899
2.14	104.916
2.18	104.948
2.22	104.990
2.26	105.013
2.30	105.019
2.35	105.032
2.40	105.067
2.44	105.090
2.49	105.225
2.55	105.235
2.60	105.356
2.66	105.362
2.72	105.484
2.78	105.675
2.85	105.708
2.91	105.739
2.99	105.870
3.06	105.872
3.14	105.931
3.22	105.956
3.31	106.138
3.41	106.209
3.50	106.377
3.61	106.398
3.72	106.464
3.84	106.533
3.96	106.625
4.10	107.186
4.24	107.253
4.39	107.283
4.56	107.286
4.74	107.320
4.93	107.354
5.14	107.388
5.37	107.761
5.62	107.825
5.89	107.895
6.19	108.334
6.53	108.412
6.90	108.471
7.31	108.569
7.78	108.768
8.32	108.809
8.93	108.874
9.64	108.910
10.48	109.381
11.47	109.444
12.67	109.668
14.15	109.691

16.02	109.777
18.46	109.841
21.78	110.099
26.56	110.272
34.02	110.855
47.31	111.040
77.64	111.070
216.29	111.688

WSEL Frequency Data(ft)
(Recurrence Interval Computed Using Gringorten Plotting Position)

Tr (yrs)	WSEL Peak (ft)
1.05-Year	102.697
1.11-Year	103.049
1.25-Year	103.389
2.00-Year	104.711
3.33-Year	106.161
5-Year	107.344
10-Year	109.108
25-Year	109.960
50-Year	111.036
100-Year	111.148

*************Water Quality Facility Data ***************

----------SCENARIO: PREDEVELOPED

Number of Links: 20

********** Link: US Storage **********

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 64878.62
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%
Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

----------SCENARIO: POSTDEVELOPED

Number of Links: 21

********** Link: US Storage **********

Basic Wet Pond Volume (91% Exceedance): 687493. cu-ft
Computed Large Wet Pond Volume, 1.5*Basic Volume: 1031240. cu-ft

Infiltration/Filtration Statistics----------
Total Runoff Volume (ac-ft): 64878.62
Total Runoff Infiltrated (ac-ft): 0.00, 0.00%
Total Runoff Filtered (ac-ft): 0.00, 0.00%

Percent Treated (Infiltrated+Filtered)/Total Volume: 0.00%

*************Compliance Point Results ***************

Scenario Predeveloped Compliance Link: US Storage
Scenario Postdeveloped Compliance Link: US Storage
****Point of Compliance Annual Maxima Flow Data ****

Predevelopment Runoff		Postdevelopment Runoff	
Date	Annual Max Q (cfs)	Date	Annual Max Q (cfs)
04/30/1940	13.316	04/30/1940	13.316
12/20/1940	12.887	12/20/1940	12.887
12/15/1941	16.170	12/15/1941	16.170
11/14/1942	14.530	11/14/1942	14.530
10/29/1943	10.501	10/29/1943	10.501
02/07/1945	19.371	02/07/1945	19.371
01/24/1946	14.435	01/24/1946	14.435
11/18/1946	14.609	11/18/1946	14.609
03/21/1948	17.558	03/21/1948	17.558
02/16/1949	13.706	02/16/1949	13.706
03/03/1950	18.735	03/03/1950	18.735
02/09/1951	15.197	02/09/1951	15.197
06/29/1952	13.503	06/29/1952	13.503
09/30/1953	13.568	09/30/1953	13.568
01/22/1954	12.692	01/22/1954	12.692
11/05/1954	11.138	11/05/1954	11.138
11/02/1955	15.027	11/02/1955	15.027
02/25/1957	11.919	02/25/1957	11.919
01/16/1958	14.085	01/16/1958	14.085
01/24/1959	13.615	01/24/1959	13.615
12/15/1959	15.804	12/15/1959	15.804
11/20/1960	15.504	11/20/1960	15.504
12/17/1961	12.209	12/17/1961	12.209
11/25/1962	11.697	11/25/1962	11.697
09/17/1964	12.427	09/17/1964	12.427
04/19/1965	12.811	04/19/1965	12.811
01/05/1966	11.947	01/05/1966	11.947
01/19/1967	17.514	01/19/1967	17.514
08/23/1968	12.874	08/23/1968	12.874
12/03/1968	14.497	12/03/1968	14.497
01/14/1970	13.869	01/14/1970	13.869
12/05/1970	12.709	12/05/1970	12.709
02/27/1972	18.888	02/27/1972	18.888
01/13/1973	13.174	01/13/1973	13.174
02/19/1974	12.201	02/19/1974	12.201
12/27/1974	18.235	12/27/1974	18.235
12/02/1975	13.267	12/02/1975	13.267
08/23/1977	10.479	08/23/1977	10.479
09/22/1978	15.723	09/22/1978	15.723
10/23/1978	11.509	10/23/1978	11.509
12/15/1979	18.079	12/15/1979	18.079
11/21/1980	14.005	11/21/1980	14.005
10/06/1981	38.534	10/06/1981	38.534
10/28/1982	15.838	10/28/1982	15.838

01/24/1984	11.928	01/24/1984	11.928
06/07/1985	13.519	06/07/1985	13.519
01/18/1986	29.986	01/18/1986	29.986
11/24/1986	31.702	11/24/1986	31.702
01/14/1988	11.516	01/14/1988	11.516
12/30/1988	10.820	12/30/1988	10.820
01/09/1990	42.841	01/09/1990	42.841
11/24/1990	39.554	11/24/1990	39.554
01/27/1992	14.539	01/27/1992	14.539
03/23/1993	12.086	03/23/1993	12.086
12/01/1993	9.144	12/01/1993	9.144
12/27/1994	14.364	12/27/1994	14.364
02/08/1996	33.827	02/08/1996	33.827
01/02/1997	16.415	01/02/1997	16.415
10/30/1997	11.632	10/30/1997	11.632
11/25/1998	18.997	11/25/1998	18.997
02/06/2000	17.640	02/06/2000	17.640
12/20/2000	11.001	12/20/2000	11.001
12/15/2001	12.915	12/15/2001	12.915
12/27/2002	29.628	12/27/2002	29.628
10/24/2003	10.882	10/24/2003	10.882
11/03/2004	11.144	11/03/2004	11.144
11/27/2005	15.018	11/27/2005	15.018
12/12/2006	11.958	12/12/2006	11.958
01/07/2008	18.153	01/07/2008	18.153
02/17/2009	19.332	02/17/2009	19.332
01/19/2010	13.967	01/19/2010	13.967
11/16/2010	14.834	11/16/2010	14.834
10/23/2011	16.388	10/23/2011	16.388
01/20/2013	12.593	01/20/2013	12.593
12/09/2013	12.985	12/09/2013	12.985
02/08/2015	11.849	02/08/2015	11.849
01/04/2016	25.835	01/04/2016	25.835
02/25/2017	13.824	02/25/2017	13.824
06/06/2018	17.477	06/06/2018	17.477
02/14/2019	10.279	02/14/2019	10.279
10/10/2019	14.848	10/10/2019	14.848
11/24/2020	17.516	11/24/2020	17.516
12/20/2021	12.651	12/20/2021	12.651
11/20/2022	13.787	11/20/2022	13.787
01/25/2024	13.419	01/25/2024	13.419
12/22/2024	16.078	12/22/2024	16.078
01/03/2026	14.040	01/03/2026	14.040
12/04/2026	13.479	12/04/2026	13.479
02/19/2028	14.388	02/19/2028	14.388
09/17/2029	18.822	09/17/2029	18.822
01/22/2030	19.261	01/22/2030	19.261
12/30/2030	11.690	12/30/2030	11.690
01/20/2032	13.100	01/20/2032	13.100
12/21/2032	14.557	12/21/2032	14.557
11/15/2033	24.684	11/15/2033	24.684
01/13/2035	12.797	01/13/2035	12.797
02/27/2036	14.280	02/27/2036	14.280
08/24/2037	10.365	08/24/2037	10.365
12/13/2037	19.216	12/13/2037	19.216
01/10/2039	15.725	01/10/2039	15.725

01/09/2040	11.820	01/09/2040	11.820
12/02/2040	17.397	12/02/2040	17.397
02/20/2042	17.599	02/20/2042	17.599
10/29/2042	15.460	10/29/2042	15.460
12/29/2043	12.368	12/29/2043	12.368
11/02/2044	14.641	11/02/2044	14.641
09/25/2046	13.147	09/25/2046	13.147
02/01/2047	15.547	02/01/2047	15.547
12/03/2047	13.891	12/03/2047	13.891
04/25/2049	11.762	04/25/2049	11.762
11/12/2049	11.396	11/12/2049	11.396
02/20/2051	12.543	02/20/2051	12.543
02/18/2052	11.252	02/18/2052	11.252
12/10/2052	16.704	12/10/2052	16.704
02/24/2054	16.500	02/24/2054	16.500
10/27/2054	35.005	10/27/2054	35.005
11/11/2055	31.038	11/11/2055	31.038
11/19/2056	39.713	11/19/2056	39.713
10/30/2057	14.298	10/30/2057	14.298
11/26/2058	16.587	11/26/2058	16.587
03/04/2060	10.203	03/04/2060	10.203

******Point of Compliance Ranked Maxima Flow Data ******

Predevelopment		Postdevelopment	
Tr (yrs)	Q (cfs)	Tr (yrs)	Q (cfs)
1.00	9.144	1.00	9.144
1.01	10.203	1.01	10.203
1.02	10.279	1.02	10.279
1.03	10.365	1.03	10.365
1.04	10.479	1.04	10.479
1.05	10.501	1.05	10.501
1.06	10.820	1.06	10.820
1.07	10.882	1.07	10.882
1.08	11.001	1.08	11.001
1.09	11.138	1.09	11.138
1.10	11.144	1.10	11.144
1.11	11.252	1.11	11.252
1.12	11.396	1.12	11.396
1.13	11.509	1.13	11.509
1.14	11.516	1.14	11.516
1.15	11.632	1.15	11.632
1.16	11.690	1.16	11.690
1.17	11.697	1.17	11.697
1.18	11.762	1.18	11.762
1.19	11.820	1.19	11.820
1.20	11.849	1.20	11.849
1.22	11.919	1.22	11.919
1.23	11.928	1.23	11.928
1.24	11.947	1.24	11.947
1.25	11.958	1.25	11.958
1.27	12.086	1.27	12.086
1.28	12.201	1.28	12.201
1.29	12.209	1.29	12.209
1.31	12.368	1.31	12.368

1.32	12.427	1.32	12.427
1.34	12.543	1.34	12.543
1.35	12.593	1.35	12.593
1.37	12.651	1.37	12.651
1.38	12.692	1.38	12.692
1.40	12.709	1.40	12.709
1.42	12.797	1.42	12.797
1.43	12.811	1.43	12.811
1.45	12.874	1.45	12.874
1.47	12.887	1.47	12.887
1.49	12.915	1.49	12.915
1.50	12.985	1.50	12.985
1.52	13.100	1.52	13.100
1.54	13.147	1.54	13.147
1.56	13.174	1.56	13.174
1.58	13.267	1.58	13.267
1.60	13.316	1.60	13.316
1.62	13.419	1.62	13.419
1.65	13.479	1.65	13.479
1.67	13.503	1.67	13.503
1.69	13.519	1.69	13.519
1.72	13.568	1.72	13.568
1.74	13.615	1.74	13.615
1.77	13.706	1.77	13.706
1.79	13.787	1.79	13.787
1.82	13.824	1.82	13.824
1.85	13.869	1.85	13.869
1.88	13.891	1.88	13.891
1.91	13.967	1.91	13.967
1.94	14.005	1.94	14.005
1.97	14.040	1.97	14.040
2.00	14.085	2.00	14.085
2.03	14.280	2.03	14.280
2.07	14.298	2.07	14.298
2.10	14.364	2.10	14.364
2.14	14.388	2.14	14.388
2.18	14.435	2.18	14.435
2.22	14.497	2.22	14.497
2.26	14.530	2.26	14.530
2.30	14.539	2.30	14.539
2.35	14.557	2.35	14.557
2.40	14.609	2.40	14.609
2.44	14.641	2.44	14.641
2.49	14.834	2.49	14.834
2.55	14.848	2.55	14.848
2.60	15.018	2.60	15.018
2.66	15.027	2.66	15.027
2.72	15.197	2.72	15.197
2.78	15.460	2.78	15.460
2.85	15.504	2.85	15.504
2.91	15.547	2.91	15.547
2.99	15.723	2.99	15.723
3.06	15.725	3.06	15.725
3.14	15.804	3.14	15.804
3.22	15.838	3.22	15.838
3.31	16.078	3.31	16.078

3.41	16.170	3.41	16.170
3.50	16.388	3.50	16.388
3.61	16.415	3.61	16.415
3.72	16.500	3.72	16.500
3.84	16.587	3.84	16.587
3.96	16.704	3.96	16.704
4.10	17.397	4.10	17.397
4.24	17.477	4.24	17.477
4.39	17.514	4.39	17.514
4.56	17.516	4.56	17.516
4.74	17.558	4.74	17.558
4.93	17.599	4.93	17.599
5.14	17.640	5.14	17.640
5.37	18.079	5.37	18.079
5.62	18.153	5.62	18.153
5.89	18.235	5.89	18.235
6.19	18.735	6.19	18.735
6.53	18.822	6.53	18.822
6.90	18.888	6.90	18.888
7.31	18.997	7.31	18.997
7.78	19.216	7.78	19.216
8.32	19.261	8.32	19.261
8.93	19.332	8.93	19.332
9.64	19.371	9.64	19.371
10.48	24.684	10.48	24.684
11.47	25.835	11.47	25.835
12.67	29.628	12.67	29.628
14.15	29.986	14.15	29.986
16.02	31.038	16.02	31.038
18.46	31.702	18.46	31.702
21.78	33.827	21.78	33.827
26.56	35.005	26.56	35.005
34.02	38.534	34.02	38.534
47.31	39.554	47.31	39.554
77.64	39.713	77.64	39.713
216.29	42.841	216.29	42.841

***** Point of Compliance Flow Frequency Data *****

Recurrence Interval Computed Using Gringorten Plotting Position

Predevelopment Runoff		Postdevelopment Runoff	
Tr (Years)	Discharge (cfs)	Tr (Years)	Discharge (cfs)
2-Year	14.085	2-Year	14.085
5-Year	17.612	5-Year	17.612
10-Year	21.697	10-Year	21.697
25-Year	34.645	25-Year	34.645
50-Year	39.572	50-Year	39.572
100-Year	40.486	100-Year	40.486
200-Year	42.602	200-Year	42.602

** Record too Short to Compute Peak Discharge for These Recurrence Intervals

***** Point of Compliance Flow Duration Data *****

Predevelopment Runoff		Postdevelopment Runoff	
Discharge	Exceedance	Discharge	Exceedance

(cfs)	Probability	(cfs)	Probability
0.000E+00	1.0000E+00	0.000E+00	1.0000E+00
0.214	3.4116E-01	0.214	3.4116E-01
0.428	2.6850E-01	0.428	2.6850E-01
0.643	2.2335E-01	0.643	2.2335E-01
0.857	1.9189E-01	0.857	1.9189E-01
1.071	1.6916E-01	1.071	1.6916E-01
1.285	1.5310E-01	1.285	1.5310E-01
1.499	1.3988E-01	1.499	1.3988E-01
1.714	1.2813E-01	1.714	1.2813E-01
1.928	1.1879E-01	1.928	1.1879E-01
2.142	1.0948E-01	2.142	1.0948E-01
2.356	1.0138E-01	2.356	1.0138E-01
2.570	9.4625E-02	2.570	9.4625E-02
2.785	8.8483E-02	2.785	8.8483E-02
2.999	8.1796E-02	2.999	8.1796E-02
3.213	7.5962E-02	3.213	7.5962E-02
3.427	7.0736E-02	3.427	7.0736E-02
3.642	6.6099E-02	3.642	6.6099E-02
3.856	6.1975E-02	3.856	6.1975E-02
4.070	5.7383E-02	4.070	5.7383E-02
4.284	5.3204E-02	4.284	5.3204E-02
4.498	4.9451E-02	4.498	4.9451E-02
4.713	4.6142E-02	4.713	4.6142E-02
4.927	4.2635E-02	4.927	4.2635E-02
5.141	3.9372E-02	5.141	3.9372E-02
5.355	3.6496E-02	5.355	3.6496E-02
5.569	3.3734E-02	5.569	3.3734E-02
5.784	3.1080E-02	5.784	3.1080E-02
5.998	2.8684E-02	5.998	2.8684E-02
6.212	2.6388E-02	6.212	2.6388E-02
6.426	2.4220E-02	6.426	2.4220E-02
6.640	2.2236E-02	6.640	2.2236E-02
6.855	2.0341E-02	6.855	2.0341E-02
7.042	1.8757E-02	7.042	1.8757E-02
7.283	1.6976E-02	7.283	1.6976E-02
7.497	1.5413E-02	7.497	1.5413E-02
7.711	1.4080E-02	7.711	1.4080E-02
7.926	1.2760E-02	7.926	1.2760E-02
8.140	1.1573E-02	8.140	1.1573E-02
8.354	1.0519E-02	8.354	1.0519E-02
8.568	9.4899E-03	8.568	9.4899E-03
8.782	8.6103E-03	8.782	8.6103E-03
8.997	7.8231E-03	8.997	7.8231E-03
9.211	7.0821E-03	9.211	7.0821E-03
9.425	6.4061E-03	9.425	6.4061E-03
9.639	5.8480E-03	9.639	5.8480E-03
9.854	5.2946E-03	9.854	5.2946E-03
10.068	4.8270E-03	10.068	4.8270E-03
10.282	4.4367E-03	10.282	4.4367E-03
10.496	4.0520E-03	10.496	4.0520E-03
10.710	3.7051E-03	10.710	3.7051E-03
10.925	3.4128E-03	10.925	3.4128E-03

11.139	3.1262E-03	11.139	3.1262E-03
11.353	2.8717E-03	11.353	2.8717E-03
11.567	2.6454E-03	11.567	2.6454E-03
11.781	2.4220E-03	11.781	2.4220E-03
11.996	2.2146E-03	11.996	2.2146E-03
12.210	2.0571E-03	12.210	2.0571E-03
12.424	1.9035E-03	12.424	1.9035E-03
12.638	1.7592E-03	12.638	1.7592E-03
12.852	1.6131E-03	12.852	1.6131E-03
13.067	1.5056E-03	13.067	1.5056E-03
13.281	1.3962E-03	13.281	1.3962E-03
13.495	1.2869E-03	13.495	1.2869E-03
13.709	1.1992E-03	13.709	1.1992E-03
13.923	1.1040E-03	13.923	1.1040E-03
14.085	1.0329E-03	14.085	1.0329E-03
14.352	9.2863E-04	14.352	9.2863E-04
14.566	8.6169E-04	14.566	8.6169E-04
14.780	7.9381E-04	14.780	7.9381E-04
14.994	7.3442E-04	14.994	7.3442E-04
15.209	6.7785E-04	15.209	6.7785E-04
15.423	6.2317E-04	15.423	6.2317E-04
15.637	5.7509E-04	15.637	5.7509E-04
15.851	5.3172E-04	15.851	5.3172E-04
16.066	4.9873E-04	16.066	4.9873E-04
16.280	4.5630E-04	16.280	4.5630E-04
16.494	4.1199E-04	16.494	4.1199E-04
16.708	3.6957E-04	16.708	3.6957E-04
16.922	3.4411E-04	16.922	3.4411E-04
17.137	3.1866E-04	17.137	3.1866E-04
17.351	2.8566E-04	17.351	2.8566E-04
17.612	2.4509E-04	17.612	2.4509E-04
17.779	2.2249E-04	17.779	2.2249E-04
17.993	1.9421E-04	17.993	1.9421E-04
18.208	1.7818E-04	18.208	1.7818E-04
18.422	1.6121E-04	18.422	1.6121E-04
18.636	1.4519E-04	18.636	1.4519E-04
18.850	1.2916E-04	18.850	1.2916E-04
19.064	1.1125E-04	19.064	1.1125E-04
19.279	9.5220E-05	19.279	9.5220E-05
19.493	7.4479E-05	19.493	7.4479E-05
19.707	7.2593E-05	19.707	7.2593E-05
19.921	7.1651E-05	19.921	7.1651E-05
20.135	6.7879E-05	20.135	6.7879E-05
20.350	6.5994E-05	20.350	6.5994E-05
20.564	6.5051E-05	20.564	6.5051E-05
20.778	6.3166E-05	20.778	6.3166E-05
20.992	6.2223E-05	20.992	6.2223E-05
21.206	5.9395E-05	21.206	5.9395E-05
21.421	5.8452E-05	21.421	5.8452E-05
21.635	5.6566E-05	21.635	5.6566E-05
21.849	5.5623E-05	21.849	5.5623E-05
22.063	5.4681E-05	22.063	5.4681E-05
22.278	5.4681E-05	22.278	5.4681E-05
22.492	5.3738E-05	22.492	5.3738E-05
22.706	5.3738E-05	22.706	5.3738E-05
22.920	5.2795E-05	22.920	5.2795E-05

23.134	5.1852E-05	23.134	5.1852E-05
23.349	4.9967E-05	23.349	4.9967E-05
23.563	4.9967E-05	23.563	4.9967E-05
23.777	4.9967E-05	23.777	4.9967E-05
23.991	4.9967E-05	23.991	4.9967E-05
24.205	4.9967E-05	24.205	4.9967E-05
24.420	4.7139E-05	24.420	4.7139E-05
24.634	4.7139E-05	24.634	4.7139E-05
24.848	4.6196E-05	24.848	4.6196E-05
25.062	4.6196E-05	25.062	4.6196E-05
25.276	4.6196E-05	25.276	4.6196E-05
25.491	4.6196E-05	25.491	4.6196E-05
25.705	4.4310E-05	25.705	4.4310E-05
25.919	4.2425E-05	25.919	4.2425E-05
26.133	4.1482E-05	26.133	4.1482E-05
26.347	4.1482E-05	26.347	4.1482E-05
26.562	4.1482E-05	26.562	4.1482E-05
26.776	3.9596E-05	26.776	3.9596E-05
26.990	3.9596E-05	26.990	3.9596E-05
27.204	3.8654E-05	27.204	3.8654E-05
27.418	3.8654E-05	27.418	3.8654E-05
27.633	3.7711E-05	27.633	3.7711E-05
27.847	3.6768E-05	27.847	3.6768E-05
28.061	3.6768E-05	28.061	3.6768E-05
28.275	3.5825E-05	28.275	3.5825E-05
28.490	3.3940E-05	28.490	3.3940E-05
28.704	3.3940E-05	28.704	3.3940E-05
28.918	3.1111E-05	28.918	3.1111E-05
29.132	3.1111E-05	29.132	3.1111E-05
29.346	2.9226E-05	29.346	2.9226E-05
29.561	2.9226E-05	29.561	2.9226E-05
29.775	2.8283E-05	29.775	2.8283E-05
29.989	2.6398E-05	29.989	2.6398E-05
30.203	2.5455E-05	30.203	2.5455E-05
30.417	2.4512E-05	30.417	2.4512E-05
30.632	2.3569E-05	30.632	2.3569E-05
30.846	2.2626E-05	30.846	2.2626E-05
31.060	2.1684E-05	31.060	2.1684E-05
31.274	2.0741E-05	31.274	2.0741E-05
31.488	1.9798E-05	31.488	1.9798E-05
31.703	1.8855E-05	31.703	1.8855E-05
31.917	1.8855E-05	31.917	1.8855E-05
32.131	1.8855E-05	32.131	1.8855E-05
32.345	1.8855E-05	32.345	1.8855E-05
32.559	1.8855E-05	32.559	1.8855E-05
32.774	1.7913E-05	32.774	1.7913E-05
32.988	1.7913E-05	32.988	1.7913E-05
33.202	1.7913E-05	33.202	1.7913E-05
33.416	1.6970E-05	33.416	1.6970E-05
33.630	1.5084E-05	33.630	1.5084E-05
33.845	1.4142E-05	33.845	1.4142E-05
34.059	1.3199E-05	34.059	1.3199E-05
34.273	1.3199E-05	34.273	1.3199E-05
34.487	1.3199E-05	34.487	1.3199E-05
34.702	1.3199E-05	34.702	1.3199E-05
34.916	1.3199E-05	34.916	1.3199E-05

35.130	1.2256E-05	35.130	1.2256E-05
35.344	1.0370E-05	35.344	1.0370E-05
35.558	9.4277E-06	35.558	9.4277E-06
35.773	8.4849E-06	35.773	8.4849E-06
35.987	8.4849E-06	35.987	8.4849E-06
36.201	8.4849E-06	36.201	8.4849E-06
36.415	8.4849E-06	36.415	8.4849E-06
36.629	8.4849E-06	36.629	8.4849E-06
36.844	8.4849E-06	36.844	8.4849E-06
37.058	8.4849E-06	37.058	8.4849E-06
37.272	8.4849E-06	37.272	8.4849E-06
37.486	8.4849E-06	37.486	8.4849E-06
37.700	8.4849E-06	37.700	8.4849E-06
37.915	8.4849E-06	37.915	8.4849E-06
38.129	7.5422E-06	38.129	7.5422E-06
38.343	7.5422E-06	38.343	7.5422E-06
38.557	5.6566E-06	38.557	5.6566E-06
38.771	4.7139E-06	38.771	4.7139E-06
38.986	4.7139E-06	38.986	4.7139E-06
39.200	4.7139E-06	39.200	4.7139E-06
39.414	4.7139E-06	39.414	4.7139E-06
39.572	3.3127E-06	39.572	3.3126E-06
39.842	1.8855E-06	39.842	1.8855E-06
40.057	1.8855E-06	40.057	1.8855E-06
40.271	1.8855E-06	40.271	1.8855E-06
40.485	1.8855E-06	40.485	1.8855E-06
40.699	1.8855E-06	40.699	1.8855E-06
40.914	1.8855E-06	40.914	1.8855E-06
41.128	1.8855E-06	41.128	1.8855E-06
41.342	1.8855E-06	41.342	1.8855E-06
41.556	1.8855E-06	41.556	1.8855E-06
41.770	9.4277E-07	41.770	9.4277E-07
41.985	9.4277E-07	41.985	9.4277E-07
42.199	9.4277E-07	42.199	9.4277E-07
42.413	9.4277E-07	42.413	9.4277E-07
42.627	9.4277E-07	42.627	9.4277E-07
42.841	9.4277E-07	42.841	9.4277E-07

****** Flow Duration Performance According to Dept. of Ecology Criteria ******

Excursion at Predeveloped ½Q2 (Must be Less Than 0%):	0.0%	PASS
Maximum Excursion from ½Q2 to Q2 (Must be Less Than 0%):	0.0%	PASS
Maximum Excursion from Q2 to Q50 (Must be less than 10%):	0.0%	PASS
Percent Excursion from Q2 to Q50 (Must be less than 50%):	0.0%	PASS

POND MEETS ALL DURATION DESIGN CRITERIA: PASS