

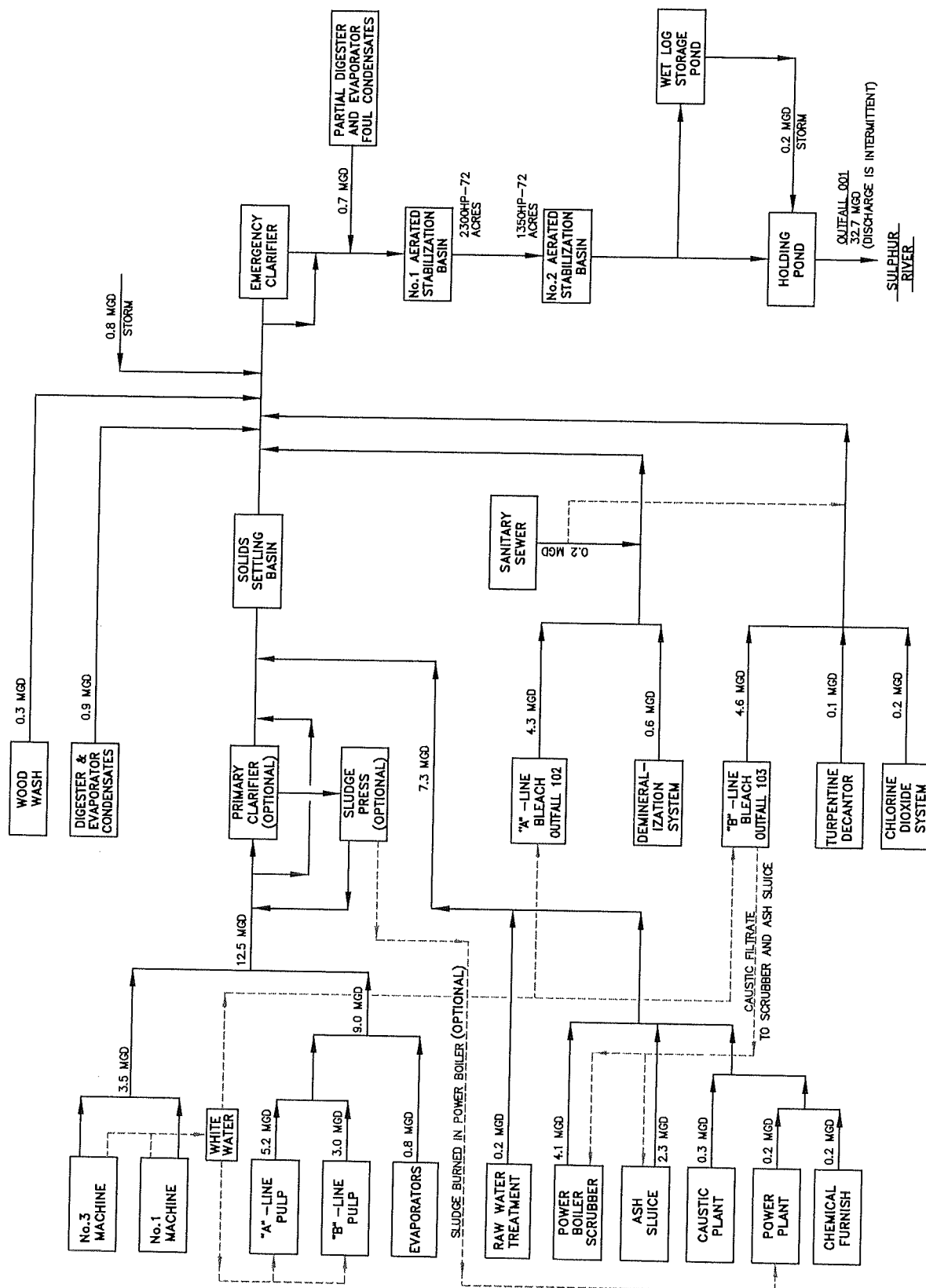


5930 Summerhill Rd • Texarkana, Texas 75503 • 903-838-8533 • fax 903-832-4700 www.sulphurbasingroup.com

Appendix A

IP Discharge Permit

TEXARKANA MILL FLOW SCHEMATIC AND WATER BALANCE 2011



MWAT-BAL Rev. 5/06/11

2. TREATMENT SYSTEM (Instructions, page 36)

- a. List any physical, chemical, an/or biological treatment process that you use for the treatment of wastewater at your facility. Include a description of each treatment process starting with initial treatment and finishing with the discharge point.

DIMENSIONS

TREATMENT UNIT	LENGTH	WIDTH	DEPTH	OUTFALL
PRIMARY CLARIFIER		DIAMETER: 220 FEET		N/A
SOLIDS SETTLING BASIN	700	600	10	N/A
ASH SETTLING POND	600	300	10	N/A
EMERGENCY CLARIFIER	500	200	10	N/A
#1 AERATED STABILIZATION BASIN	2200	1200	10	N/A
#2 AERATED STABILIZATION BASIN	2400	1200	10	N/A
TREATED WASTEWATER HOLDING POND		VOLUME: 26,300 ACRE-FEET		001

- b. ☒ Indicate by a check mark that an attached flow schematic with a water balance was provided with the applications showing each treatment unit and all sources of wastewater flow into the treatment plant and to each outfall/point of disposal.

Attachment #: Texarkana Mill Flow Schematic and Water Balance 2011 (see pg. 3a)

3. IMPOUNDMENTS (Instructions, pages 36)

Do you use or plan to use any wastewater lagoons, ponds, or impoundments

☒ Yes ☐ No

If **yes**, complete item 3(a) for **existing** impoundments and items 3(a)-3(f) for **new or proposed** impoundments. If **no**, proceed to Item No. 4.

- a. Provide the following information in the table provided:

Designation: Indicate the appropriate use designation for each pond [Treatment (T), Disposal (D), Containment (C), or Evaporation (E)]

Discharge Point: If a discharge occurs from the impoundments, designate the outfall associated with the impoundment.

Liner Information: If the impoundments are lined to comply with specifications outlined for 1) a compacted clay liner (C), 2) an in-situ clay liner (I), or 3) a synthetic/plastic/rubber liner (S), indicate the liner type with the appropriate letter designation (see instructions for further detail on liner specifications). If not, provide a reference to the attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

Dimensions: Provide the dimensions(s), freeboard, surface area, and storage volume capacity of the impoundments. For impoundments with irregular shapes, submit surface area (instead of length and width), the average depth, and the maximum depth below natural ground level.

Note: The solids settling basin and ash settling pond will be combined into one settling basin by the end of 2011.

Impoundment Information Table

	Solids Settling Basin	Ash Settling Pond	Emergency Clarifier	#1 ASB	#2 ASB
	Pond # <u>1</u>	Pond # <u>2</u>	Pond # <u>3</u>	Pond # <u>4</u>	Pond # <u>5</u>
Designation					
(T) (D) (C) or (E)	T	T	T	T	T
Discharge Point					
Outfall Number	N/A	N/A	N/A	N/A	N/A
Liner Information					
Liner Type (C) (I) or (S)	I	I	I	I	I
Alt. Liner Attachment Reference	N/A	N/A	N/A	N/A	N/A
Dimensions					
Length (feet)	<u>700</u> ft	<u>600</u> ft	<u>500</u> ft	<u>2200</u> ft	<u>2400</u> ft
Width (feet)	<u>600</u> ft	<u>300</u> ft	<u>200</u> ft	<u>1200</u> ft	<u>1200</u> ft
Depth from Water Surface	<u>10</u> ft	<u>10</u> ft	<u>10</u> ft	<u>10</u> ft	<u>10</u> ft
Depth from Nat. Ground Level	<u>10</u> avg ____ max	<u>10</u> avg ____ max	<u>10</u> avg ____ max	<u>10</u> avg ____ max	<u>10</u> avg ____ max
Freeboard (feet)	____ ft	____ ft	____ ft	____ ft	____ ft
Surface Area (acres)	____ acres	____ acres	____ acres	____ acres	____ acres
Storage Capacity (gallons)	____ gal 17,000,000	____ gal 6,800,000	____ gal 11,500,000	____ gal 170,000,000	____ gal 170,000,000

Holding Pond

	Pond # <u>6</u>	Pond # _____	Pond # _____	Pond # _____	Pond # _____
Designation					
(T) (D) (C) or (E)	T				
Discharge Point					
Outfall Number	001				
Liner Information					
Liner Type (C) (I) or (S)	I				
Alt. Liner Attachment Reference	N/A				
Dimensions					
Length (feet)	<u>N/A</u> ft	____ ft	____ ft	____ ft	____ ft
Width (feet)	<u>N/A</u> ft	____ ft	____ ft	____ ft	____ ft
Depth from Water Surface	<u>20</u> ft	____ ft	____ ft	____ ft	____ ft
Depth from Nat. Ground Level (avg/max) (feet)	<u>0</u> / ____	____ / ____	____ / ____	____ / ____	____ / ____
Freeboard (feet)	____ ft	____ ft	____ ft	____ ft	____ ft
Surface Area (acres)	1,315 acres	____ acres	____ acres	____ acres	____ acres
Storage Capacity (gallons)	____ gal 8,465,000,000	____ gal	____ gal	____ gal	____ gal

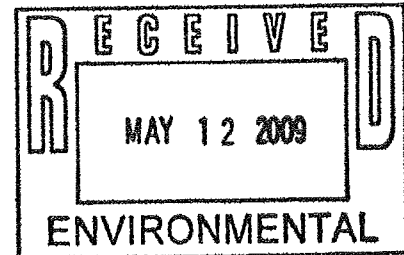
Buddy Garcia, *Chairman*
Larry R. Soward, *Commissioner*
Bryan W. Shaw, Ph.D., *Commissioner*
Mark R. Vickery, P.G., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 5, 2009



Mr. Doug Wadley
International Paper Company
9978 Farm-to-Market Road 3129
Queen City, Texas 75572-5342

Re: International Paper Company, TPDES Permit No. WQ0001339000
(RN100543115; CN601047830)

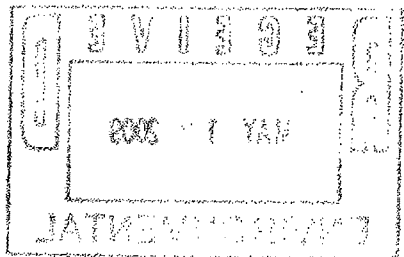
Dear Mr. Wadley:

Enclosed is a copy of the above referenced permit for a wastewater treatment facility issued on behalf of the Executive Director pursuant to Chapter 26 of the Texas Water Code.

If you are receiving a Texas Pollutant Discharge Elimination System (TPDES) discharge permit and your system is a new facility or an existing facility that has been reporting to the Texas Commission on Environmental Quality (TCEQ), you may comply with self-reporting requirements by submitting discharge monitoring reports (DMR) electronically over the Web through STEERS (see enclosed flyer). Information about the electronic DMR (eDMR) system is available at www.tceq.state.tx.us/goto/eDMR. We encourage electronic reporting. Discharge facilities that do not use the eDMR system will receive paper DMR forms and instructions from the TCEQ Enforcement Division, or from the U.S. Environmental Protection Agency (EPA) if the facility has been submitting DMRs to EPA.

If you are receiving a land application (no discharge) permit and are required to report monitoring results, self-reporting forms and instructions will be forwarded to you by the TCEQ Enforcement Division.

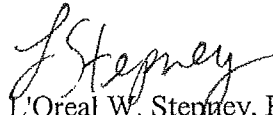
Enclosed is a "Notification of Completion of Wastewater Treatment Facilities" form. Use this form when the facility begins to operate or goes into a new phase. The form notifies the agency when the proposed facility is completed or when it is placed in operation. This notification complies with the special provision incorporated into the permit. When the agency receives this form, the appropriate permit requirements will be activated in the compliance system database so that accurate monitoring and reporting can occur.



Mr. Doug Wadley
Page 2

Should you have any questions, please contact Mr. Arthur Koenings of the TCEQ's Wastewater Permitting Section at (512) 239-4671 or if by correspondence, include MC 148 in the letterhead address at the bottom of the previous page.

Sincerely,

A handwritten signature in cursive script, appearing to read "L Steppney".

L'Oreal W. Steppney, P.E., Director
Water Quality Division
Texas Commission on Environmental Quality

LWS/AK/evm

Enclosures

cc: TCEQ, Region 5



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P. O. Box 13087
Austin, Texas 78711-3087

TPDES PERMIT NO. WQ0001339000
[For TCEQ office use only -
EPA I.D. No. TX0000167]

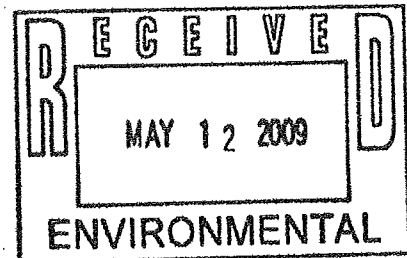
This permit supersedes and replaces
TPDES Permit No. WQ0001339000,
issued on January 23, 2006.

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

International Paper Company

whose mailing address is

9978 Farm Market Road 3129
Queen City, Texas 75572



is authorized to treat and discharge wastes from the Texarkana Mill, which produces bleached kraft pulp and paperboard (SIC 2631)

located approximately 14 miles south of the City of Texarkana and five miles east (via Farm-to-Market Road 3129) of US Highway 59 at a site adjacent to and south of the Sulphur River, bounded on the east by the Kansas City Southern Railway and on the west by the Texas and Pacific Railway, Cass County, Texas

to a remnant channel of Baker Slough; thence to the Sulphur River Below Wright Patman Lake in Segment No. 0301 of the Sulphur River Basin

only according to effluent limitations, monitoring requirements and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight on January 1, 2012.

ISSUED DATE: **APR 29 2009**


For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001A

- During the period beginning upon date of issuance and lasting through date of expiration, the permittee is authorized to discharge (*4) treated process wastewater, water treatment wastes, utility wastewater (boiler blowdown, cooling tower blowdown, and demineralizer water), and storm water subject to the following effluent limitations:

Volume: Intermittent and flow variable. The total volume discharged during any 24-hour period shall not exceed 646.3 million gallons.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average lbs/day	Daily Average (mg/L)	Daily Maximum (mg/L)	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow (MGD) (*4)					
Flow (%Effluent of River Flow)	(Report)			Continuous (*1)	Record
Total Suspended Solids	14,842 (*3)	60	(Report)	1/day (*1)	Calculate
Carbonaceous Biochemical Oxygen Demand (5-day)	7,510 (*3)	30	120	1/week (*1)	Composite
Ammonia Nitrogen	N/A	6.0	60	1/week (*1)	Composite
Dissolved Oxygen (minimum)	N/A	(3.0) (*5)	12.0	1/week (*1)	Composite
2,3,7,8-TCDD Equivalents (*6)	N/A	1.7 ppq	(Report)	1/day (*1)	Grab
Adsorbable Organic Halogens (AOX)	2,792.3	N/A	3.5 ppq	1/year	Composite
River Flow (cfs)	Report	N/A	N/A	1/day (*1) (*7)	Composite
Sulfate	N/A	Report	Report	1/day (*1)	Record
				1/ 2 weeks (*1)	Composite

- When discharge occurs.
- See Other Requirement No. 6 for Outfall 001A flow limitations.
- Limitation expressed as an annual average. See Other Requirement No. 16.
- The permittee may only discharge when the flow in the Sulphur River measured at Wright Patman Dam upstream of Outfall 001A is 50 cubic feet per second (cfs) or greater as measured at Wright Patman Lake.
- Dissolved Oxygen and pH may be sampled on the concrete apron prior to discharge into the remnant channel of Baker Slough or on the discharge side of the weir upstream of the concrete apron. The dissolved oxygen limit is a minimum monthly average limit and not a daily minimum limit.
- See Other Requirement No. 10. Parts Per Quadrillion.
- See Other Requirement No. 19.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001A

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/week (*1) (*5) by grab sample.
3. There shall be no discharge of floating solids or visible foam entering the outfall structure in other than trace amounts and no discharge of visible oil.
4. Effluent monitoring samples shall be taken at the following location: At Outfall 001A, entering the discharge gates from the holding pond.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001B

1. During the period beginning upon date of issuance and lasting through date of expiration, the permittee is authorized to discharge (*5) treated process wastewater, water treatment wastes, utility wastewater, (boiler blowdown, cooling tower blowdown, and demineralizer water), and storm water subject to the following effluent limitations:

Volume: Intermittent and flow variable. The total volume discharged during any 24-hour period shall not exceed 646.3 million gallons.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average lbs/day	(mg/L)	Daily Maximum lbs/day	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow (MGD) (*5)	(Report)		(*2)	Continuous	Record
Flow (%Effluent of River Flow)	(*2)		(*2)	1/day (*1)	Calculated
Total Suspended Solids	14,842 (*3)	60	N/A	1/week (*1)	Composite
Carbonaceous Biochemical Oxygen Demand (5-day)	7,510 (*3)	(*4)	N/A	1/week (*1)	Composite
Ammonia Nitrogen	N/A	(*4)	N/A	1/week (*1)	Composite
Dissolved Oxygen (minimum) (*6)	N/A	(*4)	(Report)	1/day (*1)	Grab
2,3,7,8-TCDD Equivalent (*7)	N/A	1.7 ppq	N/A	1/year	Composite
Adsorbable Organic Halogens (AOX)	2,792.3	N/A	4,262.4	1/day (*1) (*8)	Composite
River Flow (cfs)	(Report)	N/A	(Report)	1/day (*1)	Record
Sulfate	N/A	Report	N/A	1/ 2 weeks (*1)	Composite

- (*1) When discharging.
(*2) See Other Requirement No. 6 for Outfall 001B flow limitations.
(*3) Limitation expressed as an annual average. See Other Requirement No. 16.
(*4) See Other Requirement No. 7.
(*5) The permittee may only discharge when the flow in the Sulphur River measured at Wright Patman Dam upstream of Outfall 001B is 50 cubic feet per second or greater.
(*6) Dissolved Oxygen and pH may be sampled on the concrete apron prior to discharge into the remnant channel of Baker Slough or on the discharge side of the weir upstream of the concrete apron. The dissolved oxygen limit is a minimum monthly average limit and not a daily minimum limit.
(*7) See Other Requirement No. 10. ppq is Parts Per Quadrillion.
(*8) See Other Requirement No. 19.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001B

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/week (*1)(*6) by grab sample.
3. There shall be no discharge of floating solids or visible foam entering the outfall structure in other than trace amounts and no discharge of visible oil.
4. Effluent monitoring samples shall be taken at the following location: At Outfall 001B, entering the discharge gates from the holding pond.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 102

1. During the period beginning upon date of issuance and lasting through date of expiration, the permittee is authorized to discharge "A" Line Bleach Plant effluent subject to the following effluent limitations:

Volume: Flow Variable.

Effluent Characteristics	Discharge Limitations		Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow (MGD)	(Report)	(Report)	1/week (*5)	Estimate
Tetrachlorocatechol	N/A	<0.005	1/month (*1) (*5)	Composite (*2)
Tetrachloroguaiacol	N/A	<0.005	1/month (*1) (*5)	Composite (*2)
Trichlorosyringol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
4,5,6-trichloroguaiacol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
3,4,6-trichlorocatechol	N/A	<0.005	1/month (*1) (*5)	Composite (*2)
3,4,5-trichlorocatechol	N/A	<0.005	1/month (*1) (*5)	Composite (*2)
3,4,5-trichloroguaiacol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
2,3,4,6-tetrachlorophenol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
3,4,6-trichloroguaiacol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
Pentachlorophenol	N/A	<0.005	1/month (*1) (*5)	Composite (*2)
2,4,6-trichlorophenol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
2,4,5-trichlorophenol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
2,3,7,8-TCDD	N/A	<10 pg/L (*4)	1/month (*1) (*5)	Composite (*2)
2,3,7,8-TCDF	N/A	31.9 pg/L (*4)	1/month (*1) (*5)	Composite (*2)
Chloroform (lbs/day)	(6.86)	(11.47)	1/week (*1) (*5)	Composite (*3)

- (*1) Samples shall be taken during periods which are representative of average bleaching conditions.
- (*2) See Other Requirement No. 2.
- (*3) See Other Requirement No. 3.
- (*4) pg/L = picogram per liter.
- (*5) See Other Requirement No. 19.

2. Effluent monitoring samples shall be taken at the following location: At Outfall 102, from the "A" Line Bleach Plant (*2) (*3).

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 103

- During the period beginning upon date of issuance and lasting through date of expiration, the permittee is authorized to discharge "B" Line Bleach Plant effluent subject to the following effluent limitations:

Volume: Flow Variable.

Effluent Characteristics	Discharge Limitations		Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Report Daily Average and Measurement Frequency	Daily Maximum Sample Type
Flow (MGD)	(Report)	(Report)	1/week (*5)	Estimate
Tetrachlorocatechol	N/A	<0.005	1/month (*1) (*5)	Composite (*2)
Tetrachloroguaiacol	N/A	<0.005	1/month (*1) (*5)	Composite (*2)
Trichlorosyringol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
4,5,6-trichloroguaiacol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
3,4,6-trichlorocatechol	N/A	<0.005	1/month (*1) (*5)	Composite (*2)
3,4,5-trichlorocatechol	N/A	<0.005	1/month (*1) (*5)	Composite (*2)
3,4,5-trichloroguaiacol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
2,3,4,6-tetrachlorophenol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
3,4,6-trichloroguaiacol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
Pentachlorophenol	N/A	<0.005	1/month (*1) (*5)	Composite (*2)
2,4,6-trichlorophenol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
2,4,5-trichlorophenol	N/A	<0.0025	1/month (*1) (*5)	Composite (*2)
2,3,7,8-TCDD	N/A	<10 pg/L (*4)	1/month (*1) (*5)	Composite (*2)
2,3,7,8-TCDF	N/A	31.9 pg/L (*4)	1/month (*1) (*5)	Composite (*2)
Chloroform (lbs/day)	(11.69)	(19.54)	1/week (*1) (*5)	Composite (*3)

(*1) Samples shall be taken during periods which are representative of average bleaching conditions.

(*2) See Other Requirement No. 2.

(*3) See Other Requirement No. 3.

(*4) pg/L = picogram per liter.

(*5) See Other Requirement No. 19.

- Effluent monitoring samples shall be taken at the following location: At Outfall 103, the outlet of the acid and alkaline sewers from the "B" Line Bleach Plant (*2) and (*3).

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC §§305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in Texas Water Code §26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

- a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder, and limited to major domestic wastewater discharge facilities with a one million gallons per day or greater permitted flow.
- b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

- a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
 - i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.
 - ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the sampling day.

The "daily discharge" determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the "daily discharge" determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

- e. Bacteria concentration (Fecal coliform, E. coli, or Enterococci) - the number of colonies of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or

computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements of made in a calendar month. For any measurement of bacteria equaling zero, a substitute value of one shall made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).

Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9 (b).
 - b. Grab sample - an individual sample collected in less than 15 minutes.
4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
 6. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§319.4 - 319.12. Unless otherwise specified, a monthly effluent report shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge that is described by this permit whether or not a discharge is made for that month. Monitoring results must be reported on an approved self-report form that is signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act; TCW Chapters 26, 27, and 28; and THSC Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR

Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR §264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.

c. Records of monitoring activities shall include the following:

- i. date, time, and place of sample or measurement;
- ii. identity of individual who collected the sample or made the measurement.
- iii. date and time of analysis;
- iv. identity of the individual and laboratory who performed the analysis;
- v. the technique or method of analysis; and
- vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement Division (MC 224).

7. Noncompliance Notification

- a. In accordance with 30 TAC §305.125(9) any noncompliance that may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
 - i. Unauthorized discharges as defined in Permit Condition 2(g).
 - ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.
 - iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.
- c. In addition to the above, any effluent violation that deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
- d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

8. In accordance with the procedures described in 30 TAC §§35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying

for such authorization.

9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

- a. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. One hundred micrograms per liter (100 µg/L);
 - ii. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur that would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. Five hundred micrograms per liter (500 µg/L);
 - ii. One milligram per liter (1 mg/L) for antimony;
 - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.

10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC §305.128 (relating to Signatories to Reports).

11. All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Executive Director of the following:

- a. Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to CWA §301 or §306 if it were directly discharging those pollutants;
- b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and
- c. For the purpose of this paragraph, adequate notice shall include information on:
 - i. The quality and quantity of effluent introduced into the POTW; and
 - ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
 - i. Violation of any terms or conditions of this permit;
 - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending, or terminating the permit. The permittee

shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§305.62 and 305.66 and TWC §7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.
- h. In accordance with 30 TAC §305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility that does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§402 (a)(3) or 402 (b)(8).

3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC Chapter 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit, or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC §7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

- i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC §305.534 (relating to New Sources and New Dischargers); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9;
 - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
 - c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
 - d. Prior to accepting or generating wastes that are not described in the permit application or that would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.
 - e. In accordance with the TWC §26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
 - f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA §307(a) for a toxic pollutant that is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA §307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC §305.64 (relating to Transfer of Permits) and 30 TAC §50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to Texas Water Code Chapter 11.

8. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

9. Permit Enforceability

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

10. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

11. Notice of Bankruptcy.

- a. Each permittee shall notify the executive director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
 - i. the permittee;
 - ii. an entity (as that term is defined in 11 USC, §101(15)) controlling the permittee or listing the permit or permittee as property of the estate; or
 - iii. an affiliate (as that term is defined in 11 USC, §101(2)) of the permittee.
- b. This notification must indicate:
 - i. the name of the permittee;
 - ii. the permit number(s);
 - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
 - iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§319.21 - 319.29 concerning the discharge of certain hazardous metals.
3. Domestic wastewater treatment facilities shall comply with the following provisions:
 - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
 - b. The permittee shall submit a closure plan for review and approval to the Land Application Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC §7.302(b)(6).
7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required

by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.

- a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion and/or upgrading of the domestic wastewater treatment and/or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. In the case of a domestic wastewater treatment facility that reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 149) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission, and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
 - c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
11. Facilities that generate industrial solid waste as defined in 30 TAC §335.1 shall comply with these provisions:
- a. Any solid waste, as defined in 30 TAC §335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
 - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
 - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC §335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
 - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC §335.5.

- e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
- f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
 - i. Volume of waste and date(s) generated from treatment process;
 - ii. Volume of waste disposed of on-site or shipped off-site;
 - iii. Date(s) of disposal;
 - iv. Identity of hauler or transporter;
 - v. Location of disposal site; and
 - vi. Method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

- 12. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC Code Chapter 361.

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OTHER REQUIREMENTS

1. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 5, within 24 hours from the time the permittee becomes aware of the violation followed by a written report within five working days to TCEQ Region 5 and the Enforcement Division (MC 224):

<u>POLLUTANT</u>	<u>MAL (mg/L)</u>
Tetrachlorocatechol	0.005
Tetrachloroguaiacol	0.005
Trichlorosyringol	0.0025
4,5,6-trichloroguaiacol	0.0025
3,4,6-trichlorocatechol	0.005
3,4,5-trichlorocatechol	0.005
3,4,5-trichloroguaiacol	0.0025
2,3,4,6-tetrachlorophenol	0.0025
3,4,6-trichloroguaiacol	0.0025
Pentachlorophenol	0.005
2,4,6-trichlorophenol	0.0025
2,4,5-trichlorophenol	0.0025
2,3,7,8-TCDD	10 pg/L
2,3,7,8-TCDF	10 pg/L
Chloroform	0.010
AOX (Adsorbable Organic Halogens)	0.020

Test methods utilized shall be sensitive enough to demonstrate compliance with the permit effluent limitations. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit with consideration given to the minimum analytical level (MAL) for the parameters specified above.

When an analysis of an effluent sample for any of the parameters listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero (0) shall be used for that measurement when determining calculations and reporting requirements for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

When a reported value is zero (0) based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form.

"The reported value(s) of zero (0) for _____ [list parameter(s)] _____ on the self-reporting form for [monitoring period date range] _____ is based on the following conditions: 1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and 2) the analytical results contained no detectable levels above the specified MAL."

When an analysis of an effluent sample for a parameter indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that parameter, the level of detection achieved shall be used for that measurement when determining calculations and reporting requirements for the self-reporting form. A zero (0) may not be used.

2. COMPOSITE SAMPLING FOR CHLORINATED PHENOLICS, TCDD AND TCDF AT OUTFALLS 102 AND 103

For Outfall 102, the permittee shall prepare one flow-proportioned composite sample of the acid and alkaline sewers from samples collected at the following locations:

- a. At the sink that collects acid filtrate from Stage 1 (D_o Stage) of the "A" Line Bleach Plant,
- b. At the sink that collects alkaline filtrate from Stage 2 (E_{op} Stage) of the "A" Line Bleach Plant,
- c. At the sink that collects acid filtrate from Stage 3 (D₁ Stage) of the "A" Line Bleach Plant, and
- d. At the sink that collects acid filtrate from Stage 5 (D₂ Stage) of the "A" Line Bleach Plant.

For Outfall 103, the permittee shall prepare one flow-proportioned composite sample of the acid and alkaline sewers from samples collected at the following locations:

- a. At the sink that collects acid filtrate from Stage 1 (D_o Stage) of the "B" Line Bleach Plant,
- b. At the sink that collects alkaline filtrate from Stage 2 (E_{op} Stage) of the "B" Line Bleach Plant,
- c. At the sink that collects acid filtrate from Stage 3 (D₁ Stage) of the "B" Line Bleach Plant, and
- d. At the sink that collects acid filtrate from Stage 5 (D₂ Stage) of the "B" Line Bleach Plant.

Filtrate sampling is not required at each of the Stages listed above if there is no filtrate to the sewer at sample collection time. The permittee shall notify the TCEQ Region 5 Office and the Industrial Permits Team (MC 148) of the Wastewater Permitting Section of any permanent changes to this sampling set-up prior to sampling under any new set-up. Changes to this sampling set up due to short-term emergency repairs to the sampling lines or other equipment used in the sampling procedure do not require notification to the TCEQ.

3. COMPOSITE SAMPLING REQUIREMENT FOR CHLOROFORM AT OUTFALLS 102 AND 103

The permittee shall collect separate composite samples from the acid and alkaline bleach plant filtrates for chloroform analysis. Samples shall be collected every two hours, for 8 hours. In addition, the following sampling procedures apply:

- a. samples shall be cooled during collection to prevent air bubbles in the sample container,
- b. samples shall be collected as grabs (4 pairs of samples per 8 hours), 40 milliliters each from the acid and alkaline stream (one set is back-up), which will be composited at the laboratory, and
- c. samples shall not contain air bubbles.

Individual bleaching stage aliquots may be combined into a flow weighted composite sample for each of the acid and alkaline streams, using the sampling locations described in Provision No. 2 of the Other Requirements section. The composite samples described in this paragraph must also follow the requirements listed in items a - c. The reported mass for the purposes of compliance shall be the cumulative calculated mass of the acid and alkaline streams.

4. METHOD OF ANALYSIS

The method of analysis for the following pollutants shall be conducted in accordance with one of the following analytical methods or any other EPA accepted method.

POLLUTANTS

Adsorbable Organic Halides (AOX)
2,3,7,8-TCDD and 2,3,7,8-TCDF
Chloroform
Chlorinated Phenolic Compounds

Method of Analysis

EPA Method 1650 (See 40 CFR 430, Appendix A)
EPA Method 1613
EPA Methods 1624B, 601, or 624
EPA Method 1653 (See 40 CFR 430, Appendix A)

5. SAMPLING AND REPORTING

This provision supersedes and replaces Provision 1, Paragraph 1 of Monitoring and Reporting Requirements found on Page 4 of this permit.

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§ 319.4 - 319.12. Unless otherwise specified, a monthly effluent report shall be submitted each month, to the location(s) specified on the reporting form or the instruction sheet, by the 25th day of the following month for each discharge which is described by this permit whether or not a discharge is made for that month. Monitoring results must be reported on the approved TPDES self-report form, Discharge Monitoring Report (DMR) Form EPA No. 3320-1, signed and certified as required by Monitoring and Reporting Requirements No. 10.

2,3,7,8-TCDD Equivalents monitoring results shall be submitted on the TCEQ monthly effluent report following the permittee's receipt of the sample analysis.

6. DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT FLOW LIMITS FOR EACH MONTH.

The daily maximum flow of effluent shall not exceed the value listed below for each month for each outfall. The daily average percentage of effluent to the river flow shall not exceed the percentage listed below for each outfall.

Month	Outfall 001A Daily Maximum Flow (MGD)	Outfall 001A Daily Average (% of river flow)*	Outfall 001B Daily Maximum Flow (MGD)	Outfall 001B Daily Average (% of river flow)*
January	646.3	50.0%	646.3	100.0%
February	646.3	50.0%	646.3	65.0%
March	646.3	7.5%	646.3	9.0%
April	646.3	3.0%	646.3	4.0%
May	0	0%	0	0%
June	0	0%	646.3	3.0%
July	0	0%	0	0%
August	0	0%	0	0%
September	0	0%	646.3	3.0%
October	646.3	10.0%	646.3	14.0%
November	646.3	25.0%	646.3	35.0%
December	646.3	50.0%	646.3	75.0%

*The percent effluent of the river flow shall be calculated by dividing the measured effluent flow by the flow of the river measured at Wright Patman Dam.



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Appendix B

Figures

Table 1. Count of Favorable Days for IP Discharges – Interim Curve Operations

70	36	48	42	38	24	30	32	15	10	62	37	29
0	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
1938	1	0	0	0	0	0	1	25	0	23	5	0
1939	0	15	20	25	15	0	0	0	0	15	5	0
1940	0	0	0	21	31	30	26	18	0	23	22	13
1941	18	28	19	21	0	0	21	30	0	25	23	29
1942	17	8	29	3	0	0	26	0	0	24	6	4
1943	29	0	18	26	0	20	18	0	0	23	8	0
1944	22	21	13	22	3	11	15	0	0	23	15	31
1945	21	22	0	0	0	0	0	0	26	15	29	0
1946	9	6	6	30	18	0	16	11	0	24	7	0
1947	31	13	19	30	25	29	0	0	0	24	18	18
1948	18	22	15	15	2	22	5	0	0	22	6	0
1949	3	0	10	27	31	16	7	0	0	20	15	17
1950	14	0	0	17	3	26	14	23	4	21	12	0
1951	11	13	23	0	0	13	31	1	0	27	13	13
1952	28	23	31	15	11	30	3	0	0	20	12	26
1953	31	28	29	21	0	19	17	1	0	23	6	20
1954	22	28	15	0	4	27	0	0	0	19	30	0
1955	0	22	11	30	8	0	0	0	1	31	8	0
1956	0	26	21	0	0	0	0	0	0	6	11	0
1957	1	28	18	4	0	0	0	3	30	31	4	6
1958	20	23	31	26	0	0	5	31	9	31	20	16
1959	0	15	31	18	5	3	31	24	0	27	24	6
1960	10	29	31	6	0	0	18	5	4	31	20	3
1961	9	28	29	13	4	5	31	8	0	26	14	29
1962	31	21	24	20	24	3	19	0	24	31	30	31
1963	31	2	28	2	0	0	0	0	0	20	5	0
1964	0	0	16	4	24	0	0	0	13	31	17	19
1965	22	11	23	1	15	30	5	0	0	23	5	0
1966	0	18	5	1	0	0	23	4	0	27	8	4
1967	17	3	0	13	15	15	28	0	0	24	30	17
1968	31	29	13	18	15	25	31	16	14	31	13	31
1969	31	0	0	20	7	21	5	0	0	19	9	2
1970	22	26	5	24	16	0	0	0	0	27	27	0
1971	0	10	11	0	0	0	0	0	0	7	26	8
1972	0	23	0	0	0	0	0	0	0	0	29	31
1973	31	25	8	6	8	20	18	0	23	30	0	0
1974	10	23	9	0	17	5	24	0	23	31	1	0
1975	26	1	6	30	29	30	21	0	0	23	5	0
1976	0	0	22	7	31	29	23	18	0	26	11	23
1977	20	19	17	4	18	0	0	0	0	18	20	0
1978	7	22	31	11	0	0	0	0	0	0	0	0
1979	30	28	21	15	18	18	25	22	10	31	10	9
1980	24	22	23	14	19	22	0	0	0	28	8	16
1981	0	0	13	0	11	4	28	5	0	14	10	12
1982	0	27	27	0	3	0	22	15	0	24	13	1
1983	18	27	12	16	0	0	18	0	0	22	6	0
1984	0	16	28	20	9	0	0	0	0	20	17	22
1985	27	26	14	21	31	30	5	0	0	23	23	18
1986	19	16	26	22	31	30	31	1	0	25	30	31
1987	31	28	9	14	0	0	0	0	0	14	20	10
1988	0	20	31	18	0	0	0	0	0	10	25	19
1989	31	16	3	18	11	0	1	31	2	23	5	0
1990	12	16	7	0	0	0	13	17	0	26	30	31
1991	13	26	22	10	13	30	4	0	0	25	22	1
1992	0	23	0	15	10	30	19	12	30	31	18	16
1993	2	26	0	26	30	0	0	0	0	17	21	4
1994	30	27	9	11	20	30	22	24	0	25	16	15
1995	12	19	31	26	6	28	11	0	0	24	6	0
1996	0	0	0	0	0	0	0	31	20	31	24	0
1997	27	15	0	0	2	30	21	0	0	24	11	31
1998	0	0	13	15	0	0	0	0	0	27	30	10
1999	24	28	25	26	0	10	0	0	0	25	7	0
2000	0	2	31	22	26	19	19	7	0	23	15	13
2001	0	0	0	0	0	18	20	0	27	31	21	15
2002	0	9	20	0	29	5	0	0	0	24	27	18
2003	31	17	31	6	0	0	0	0	0	12	5	0
2004	0	25	26	0	0	13	18	0	0	24	15	24
2005	28	28	16	3	0	0	0	0	0	0	0	0
2006	0	0	9	16	0	0	0	0	0	1	0	0
2007	17	28	2	3	0	14	5	30	6	24	7	3

Table 2. Count of Favorable Days for IP Discharges – Ultimate Curve Operations

0	30	43	26	26	18	30	24	10	10	20	24	25
0	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec
1938	1	0	0	0	0	0	2	16	0	0	0	0
1939	0	16	12	15	5	0	0	0	0	0	0	0
1940	0	0	0	15	31	23	25	9	0	0	14	9
1941	19	28	17	14	0	0	18	18	0	13	17	31
1942	10	15	25	1	0	0	17	0	0	0	0	5
1943	19	0	7	23	0	20	10	0	0	0	0	6
1944	21	22	11	14	2	7	9	0	7	0	13	31
1945	19	17	0	0	0	0	0	0	19	13	13	0
1946	5	5	6	25	17	0	16	2	0	0	2	0
1947	28	6	20	25	23	17	0	0	0	0	13	15
1948	16	18	16	13	1	17	0	0	0	0	0	0
1949	4	0	7	16	28	16	4	0	0	17	6	15
1950	12	0	0	6	1	22	6	16	6	19	0	0
1951	12	11	8	0	0	8	23	0	0	0	0	13
1952	28	14	31	8	6	19	0	0	0	0	7	21
1953	28	14	21	15	0	16	11	0	0	0	0	26
1954	11	21	8	0	1	19	0	0	0	8	20	0
1955	0	16	7	26	0	0	10	0	5	21	0	0
1956	0	19	8	0	0	0	0	0	0	0	6	0
1957	3	25	10	0	0	0	0	3	23	31	4	5
1958	20	10	18	24	0	0	2	22	9	9	13	12
1959	0	10	31	14	2	6	25	18	0	17	16	4
1960	6	29	31	1	0	0	21	0	3	31	11	2
1961	6	28	28	5	0	7	28	4	0	0	7	20
1962	31	20	23	24	19	10	14	0	26	30	20	16
1963	23	0	29	1	0	0	0	0	0	0	0	0
1964	0	0	14	2	12	12	0	0	13	12	10	13
1965	22	5	9	0	15	26	0	0	0	0	0	0
1966	0	16	0	2	0	0	18	6	3	17	0	4
1967	14	4	0	11	13	15	22	0	3	9	12	8
1968	31	27	12	10	11	24	31	10	17	7	3	19
1969	14	0	0	16	2	17	0	0	0	0	0	2
1970	17	26	3	11	12	0	0	0	0	21	14	0
1971	0	14	6	0	0	0	0	0	0	4	15	3
1972	0	11	0	0	0	0	0	0	0	0	23	26
1973	31	16	6	6	8	20	8	0	22	27	0	0
1974	10	21	3	3	17	5	16	0	30	31	1	0
1975	19	1	4	27	18	30	12	0	0	0	0	0
1976	0	0	22	7	31	20	22	10	0	8	0	20
1977	19	14	17	3	9	0	0	0	0	0	13	0
1978	8	21	31	7	0	0	0	0	0	0	0	0
1979	26	28	19	13	10	19	12	17	11	1	0	8
1980	13	13	3	14	15	18	0	0	0	7	0	13
1981	0	4	12	0	12	4	24	0	0	6	10	0
1982	1	22	20	3	1	0	19	9	0	0	4	0
1983	7	21	11	11	0	1	17	0	0	0	0	1
1984	0	16	21	13	0	0	0	0	0	21	14	20
1985	23	19	10	20	31	27	0	0	0	0	14	12
1986	6	12	9	17	31	30	24	0	0	9	20	31
1987	31	21	6	4	0	0	0	0	0	5	16	10
1988	0	20	31	19	0	0	0	0	0	0	13	18
1989	31	15	3	7	2	0	0	24	0	0	0	0
1990	3	15	7	0	0	0	12	8	4	18	21	31
1991	13	23	12	2	13	23	0	0	2	5	12	1
1992	0	21	0	10	9	30	15	12	18	2	11	14
1993	2	25	0	26	30	0	0	0	0	10	20	3
1994	30	26	8	4	16	27	20	16	0	14	13	14
1995	10	20	31	22	6	27	1	0	0	0	0	0
1996	0	0	0	0	0	7	1	26	15	19	23	0
1997	26	13	0	0	1	30	13	0	0	7	0	27
1998	0	0	14	7	0	0	0	0	0	28	30	9
1999	22	19	12	20	6	16	0	0	0	0	0	0
2000	0	2	31	17	23	16	17	0	0	0	5	13
2001	0	0	0	0	0	17	13	0	28	29	7	14
2002	0	9	19	0	28	3	0	0	0	17	14	19
2003	21	16	22	1	0	0	0	0	0	0	0	0
2004	0	25	20	0	0	19	13	0	0	0	8	18
2005	26	23	11	4	0	0	0	0	0	0	0	0
2006	0	0	1	8	0	0	0	0	0	0	0	0
2007	10	12	2	6	0	26	4	28	0	7	0	10

Table 3. Count of Favorable Days for IP Discharges – Reallocation-232.5' Scenario

	38	48	44	43	32	32	29	14	5	9	15	24
	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec
1938	1	0	0	0	0	0	18	9	0	0	0	0
1939	5	23	31	23	28	0	0	0	0	0	0	0
1940	0	0	0	18	24	30	31	19	0	0	1	24
1941	18	28	21	30	0	0	20	29	0	0	0	17
1942	17	0	26	10	0	0	27	0	0	0	0	0
1943	18	0	18	30	13	28	17	0	0	0	0	0
1944	17	23	21	19	2	8	18	0	0	0	0	22
1945	31	23	0	0	0	0	0	0	26	23	30	1
1946	13	6	7	30	17	0	17	11	0	0	1	10
1947	31	16	17	30	22	30	0	0	0	0	0	16
1948	20	29	16	30	14	22	6	0	0	0	0	0
1949	10	14	14	25	31	30	2	0	0	9	22	12
1950	16	1	0	20	4	23	13	16	4	25	4	0
1951	10	14	26	7	0	19	30	0	0	0	0	0
1952	26	10	27	16	0	26	3	0	0	0	0	24
1953	31	28	31	30	0	18	9	0	0	0	0	0
1954	19	28	15	6	8	28	0	0	0	0	0	0
1955	0	14	10	30	20	0	0	0	0	0	0	0
1956	0	26	22	0	18	0	0	0	0	0	0	0
1957	6	21	16	12	0	0	0	5	30	31	6	10
1958	21	24	31	25	0	0	2	31	2	0	7	13
1959	0	15	31	30	18	3	21	20	0	0	0	12
1960	12	29	31	15	0	0	24	1	0	30	9	4
1961	13	28	31	10	24	6	18	0	0	0	0	22
1962	31	28	31	30	31	8	13	0	16	16	19	31
1963	31	3	18	5	22	0	0	0	0	0	0	0
1964	0	0	9	4	20	0	0	0	0	0	0	1
1965	21	10	26	13	19	30	5	0	0	0	0	0
1966	0	12	0	6	0	0	27	0	0	9	0	0
1967	0	0	0	18	13	16	25	0	0	0	21	16
1968	31	29	14	17	12	23	31	13	0	0	1	31
1969	31	1	0	20	7	19	7	0	0	0	0	0
1970	14	23	9	25	17	12	0	0	0	0	0	0
1971	0	15	7	0	0	0	0	0	0	3	24	5
1972	0	29	3	0	0	0	0	0	0	0	0	15
1973	31	28	9	4	3	20	19	0	9	31	2	2
1974	13	23	17	6	31	12	24	0	18	31	6	0
1975	31	2	14	30	19	30	21	0	0	0	0	0
1976	0	0	14	10	24	27	31	17	0	0	0	8
1977	18	28	20	0	26	1	0	0	0	0	0	0
1978	12	18	27	7	0	0	0	0	0	0	0	0
1979	9	24	30	16	13	19	23	14	0	0	0	3
1980	28	29	31	15	31	19	0	0	0	0	0	0
1981	0	6	11	1	6	10	31	3	0	5	16	16
1982	0	23	27	14	4	0	23	13	0	0	0	1
1983	24	28	17	30	10	9	10	0	0	0	0	0
1984	0	11	24	30	24	0	0	0	0	3	30	23
1985	29	28	15	15	31	30	5	0	0	0	0	16
1986	25	25	28	26	31	30	30	0	0	0	0	28
1987	31	28	17	23	6	0	0	0	0	0	10	22
1988	0	22	31	30	4	0	0	0	0	0	4	31
1989	31	17	6	19	18	0	4	31	2	0	0	0
1990	11	28	7	0	0	0	11	19	0	0	20	31
1991	15	28	22	19	9	30	3	0	0	0	29	4
1992	0	26	2	26	28	30	26	13	29	2	6	17
1993	6	28	0	26	31	14	0	0	0	7	30	7
1994	31	28	12	27	30	30	20	19	0	0	25	15
1995	14	19	31	22	6	24	11	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	6	25	0
1997	30	16	0	0	0	27	22	0	0	0	0	5
1998	6	0	25	30	7	0	0	0	0	19	25	14
1999	24	28	31	30	31	15	0	0	0	0	0	0
2000	0	2	28	23	11	22	21	7	0	0	12	14
2001	0	0	0	0	0	14	21	0	8	28	14	16
2002	7	16	21	0	25	16	0	0	0	6	22	13
2003	31	16	31	18	0	0	0	0	0	0	0	0
2004	1	22	15	5	0	0	6	0	0	0	0	0
2005	25	27	12	8	0	0	0	0	0	0	0	0
2006	0	0	10	10	0	0	0	0	0	0	0	0
2007	25	21	0	13	1	30	9	31	6	0	0	0

Table 4. Count of Favorable Days for IP Discharges – Reallocation-242.5' Scenario

	39	49	45	45	33	35	33	16	4	7	15	21
	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec
1938	1	0	0	0	0	27	28	0	0	0	0	0
1939	5	23	27	30	31	6	0	0	0	0	0	0
1940	0	0	0	29	0	26	31	22	0	0	0	31
1941	20	28	31	30	1	0	23	31	8	0	0	11
1942	13	0	25	11	0	0	31	8	0	0	0	0
1943	14	0	18	30	9	22	16	0	0	0	0	0
1944	17	23	30	30	3	10	25	0	0	0	0	18
1945	31	23	0	7	11	0	0	0	24	31	30	11
1946	22	6	9	30	18	0	18	20	0	0	1	18
1947	31	25	16	30	30	30	8	0	0	0	0	12
1948	31	29	16	30	15	24	14	0	0	0	0	0
1949	10	26	16	30	31	30	7	0	0	7	30	31
1950	20	1	0	22	4	25	26	16	6	28	14	0
1951	10	20	31	16	0	15	31	0	0	0	0	0
1952	23	14	29	21	15	30	11	0	0	0	0	21
1953	31	28	31	30	1	21	15	0	0	0	0	0
1954	18	21	10	11	14	30	4	0	0	0	0	0
1955	0	14	11	29	4	0	0	0	0	0	0	0
1956	0	26	0	0	0	0	0	0	0	0	0	0
1957	6	21	16	25	0	0	0	11	30	31	8	12
1958	24	25	31	25	0	0	6	31	12	0	0	0
1959	0	15	31	30	19	2	16	17	0	0	0	12
1960	14	29	31	21	0	0	0	0	0	17	0	6
1961	26	28	31	13	31	7	3	0	0	0	0	14
1962	31	28	31	30	31	14	11	0	0	3	15	31
1963	31	3	14	0	17	0	0	0	0	0	0	0
1964	0	0	10	11	0	0	0	0	0	0	0	0
1965	21	21	31	13	18	30	8	0	0	0	0	0
1966	0	12	0	7	0	9	26	0	0	0	0	0
1967	12	2	7	17	31	18	31	0	0	0	13	16
1968	31	29	15	18	14	23	31	19	0	0	0	30
1969	31	3	2	21	7	21	14	0	0	0	0	0
1970	14	26	30	28	18	20	0	0	0	0	0	0
1971	0	15	7	0	0	0	0	0	0	0	0	1
1972	11	29	5	0	0	0	0	0	0	0	0	0
1973	19	28	10	7	5	23	28	0	1	31	4	11
1974	18	23	26	5	30	17	31	0	18	31	9	2
1975	31	4	21	30	22	30	29	0	0	0	0	0
1976	0	0	14	10	13	12	31	20	0	0	0	0
1977	5	26	30	1	26	9	0	0	0	0	0	0
1978	12	18	27	7	0	0	0	0	0	0	0	0
1979	24	24	29	30	21	26	31	15	0	0	0	0
1980	9	29	31	30	31	19	0	0	0	0	0	0
1981	0	6	11	1	0	22	31	10	0	11	21	26
1982	0	17	26	8	7	0	24	20	0	0	0	9
1983	31	28	21	30	19	7	0	0	0	0	0	0
1984	0	11	25	29	19	0	0	0	0	0	30	31
1985	31	28	25	19	31	30	13	0	0	0	0	16
1986	28	25	31	29	31	30	31	3	0	0	0	21
1987	31	28	18	25	15	0	0	0	0	0	6	23
1988	0	24	31	30	7	0	0	0	0	0	0	31
1989	31	18	10	23	19	0	11	31	10	0	0	0
1990	11	28	7	0	0	0	16	22	0	0	19	31
1991	26	28	30	27	10	30	12	0	0	0	28	8
1992	0	28	4	26	31	30	29	14	30	9	5	19
1993	16	28	1	27	31	25	0	0	0	7	30	11
1994	31	28	17	30	31	30	22	19	0	0	23	17
1995	15	19	31	30	6	26	20	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	4	10
1997	31	18	0	0	2	30	27	0	0	0	0	3
1998	10	0	30	30	18	0	0	0	0	0	16	23
1999	27	28	31	30	31	18	0	0	0	0	0	0
2000	0	2	28	23	1	29	25	15	0	0	15	18
2001	0	0	0	0	0	18	27	0	6	20	16	17
2002	11	27	23	0	27	24	0	0	0	1	16	8
2003	31	17	31	20	0	0	0	0	0	0	0	0
2004	1	22	15	5	0	0	0	0	0	0	0	0
2005	20	19	10	10	0	0	0	0	0	0	0	0
2006	0	0	13	10	0	0	0	0	0	0	0	0
2007	15	11	3	15	0	0	13	29	0	0	0	0

Table 5. Count of Favorable Days for IP Discharges – Reallocation-252.5' Scenario

	41	45	43	42	26	23	17	7	0	6	6	13
	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sep	Oct	Nov	Dec
1938	22	0	0	0	17	25	3	0	0	0	0	0
1939	5	23	19	28	18	0	0	0	0	0	0	0
1940	0	0	0	29	0	0	20	2	0	0	0	26
1941	20	28	26	30	0	0	25	19	0	0	0	0
1942	6	16	20	5	0	2	20	0	0	0	0	0
1943	14	0	18	28	0	15	0	0	0	0	0	0
1944	17	23	30	30	2	12	8	0	0	0	0	0
1945	30	23	1	2	16	0	0	18	5	22	23	0
1946	18	6	10	30	17	0	20	2	0	0	1	18
1947	31	9	17	30	24	21	0	0	0	0	0	7
1948	31	29	17	30	5	20	0	0	0	0	0	0
1949	10	26	18	30	31	8	0	0	0	4	24	0
1950	15	1	0	23	4	26	0	7	2	23	0	0
1951	10	21	29	0	0	12	18	0	0	0	0	0
1952	23	14	29	22	17	23	0	0	0	0	0	0
1953	24	22	18	30	0	19	0	0	0	0	0	0
1954	19	18	4	11	15	19	0	0	0	0	0	0
1955	0	14	11	26	0	0	0	0	0	0	0	0
1956	0	27	3	0	0	0	0	0	0	0	0	0
1957	6	21	16	30	1	8	0	21	0	18	6	11
1958	22	25	28	25	11	7	0	28	2	0	0	0
1959	0	15	31	29	9	0	1	13	0	0	0	10
1960	15	29	31	6	0	0	0	0	0	0	0	3
1961	27	28	31	13	15	0	0	0	0	0	0	9
1962	31	28	31	30	25	0	0	0	0	0	0	30
1963	22	0	28	8	0	0	0	0	0	0	0	0
1964	0	0	10	11	0	0	0	0	0	0	0	0
1965	21	21	12	5	0	0	0	0	0	0	0	0
1966	0	12	0	7	1	18	1	0	0	0	0	0
1967	12	2	7	18	25	19	11	0	0	0	0	10
1968	31	29	15	18	13	24	27	0	0	0	0	22
1969	23	2	2	22	7	20	0	0	0	0	0	0
1970	14	26	30	27	19	3	0	0	0	0	0	0
1971	0	15	7	0	0	0	0	0	0	0	0	1
1972	26	8	1	0	0	0	0	0	0	0	0	0
1973	27	21	8	10	7	23	11	0	0	17	2	10
1974	18	24	6	6	18	8	16	0	10	28	6	3
1975	31	3	20	30	22	30	13	0	0	0	0	0
1976	0	0	14	10	0	0	26	4	0	0	0	0
1977	18	24	30	3	21	0	0	0	0	0	0	0
1978	12	18	27	7	0	0	0	0	0	0	0	0
1979	24	24	29	28	13	30	9	0	0	0	0	0
1980	14	29	19	16	28	9	0	0	0	0	0	0
1981	0	6	11	1	0	15	21	0	0	7	19	9
1982	2	17	16	11	2	0	24	0	0	0	0	3
1983	29	9	18	26	0	0	0	0	0	0	0	0
1984	0	11	25	24	0	0	0	0	0	0	3	21
1985	31	28	18	20	31	26	0	0	0	0	0	12
1986	9	23	13	23	31	30	21	0	0	0	0	0
1987	17	11	17	21	0	0	0	0	0	0	0	21
1988	0	26	31	26	0	0	0	0	0	0	0	23
1989	31	17	10	22	19	0	12	26	0	0	0	0
1990	12	27	7	0	0	0	16	6	0	0	0	23
1991	18	28	27	21	11	21	0	0	0	0	26	6
1992	9	29	4	28	14	30	29	15	12	0	1	18
1993	15	28	1	28	31	5	0	0	0	4	30	11
1994	31	28	14	20	26	24	16	11	0	0	20	16
1995	16	20	31	27	6	28	3	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	19
1997	31	17	0	0	4	30	11	0	0	0	0	0
1998	8	3	31	24	0	0	0	0	0	0	0	10
1999	28	28	31	30	15	0	0	0	0	0	0	0
2000	0	2	28	23	0	9	30	0	0	0	10	19
2001	0	3	7	24	11	2	24	0	0	19	8	16
2002	8	19	22	0	28	8	0	0	0	0	0	0
2003	16	9	31	9	0	0	0	0	0	0	0	0
2004	1	22	15	5	0	0	0	0	0	0	0	0
2005	20	19	10	10	0	0	0	0	0	0	0	0
2006	0	0	13	10	0	0	0	0	0	0	0	0
2007	15	11	3	15	0	0	0	0	0	0	0	0

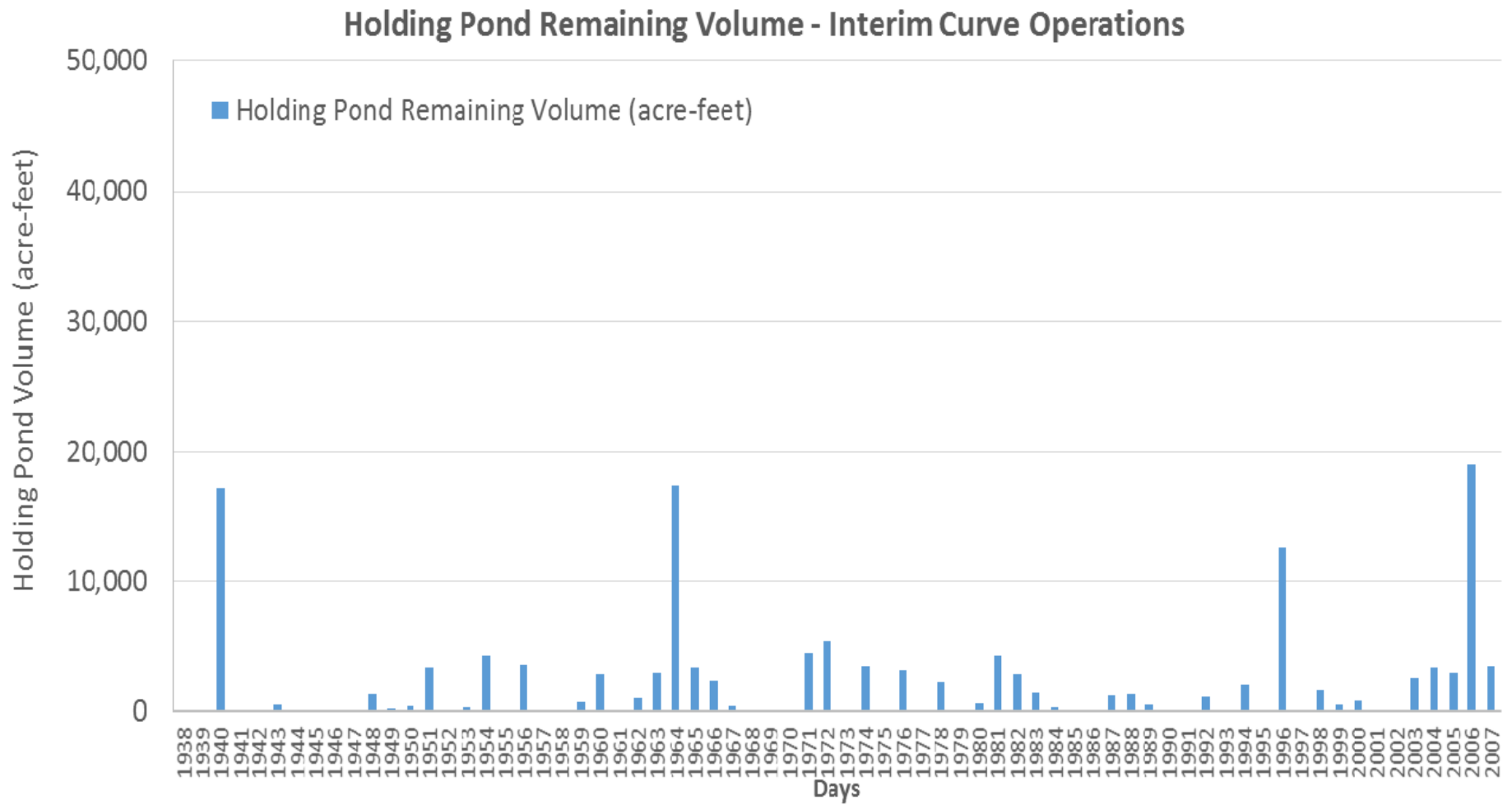


Figure 1. Holding Pond Remaining Volume – Interim Curve Operations

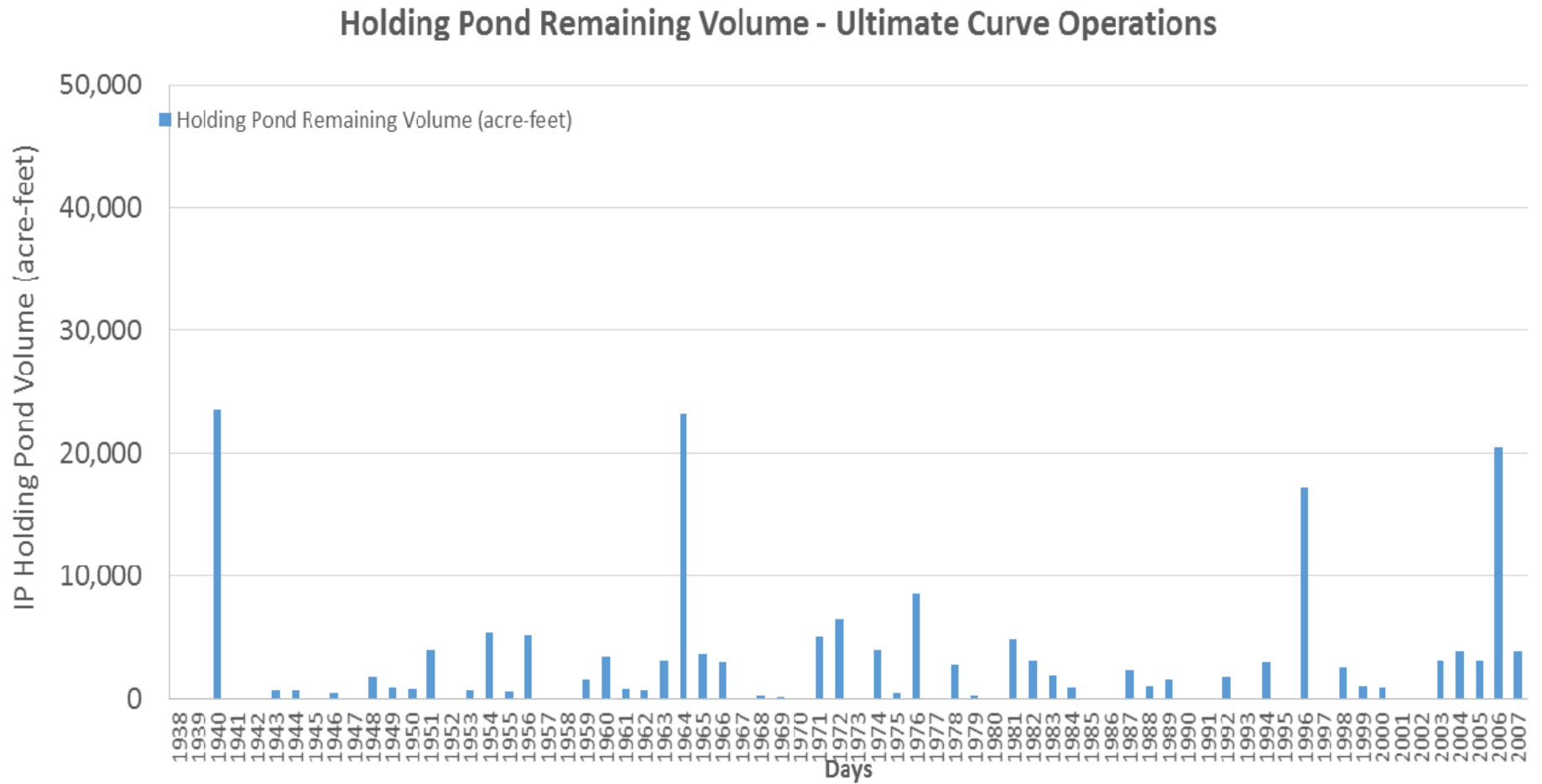


Figure 2. Holding Pond Remaining Volume – Ultimate Curve Operations

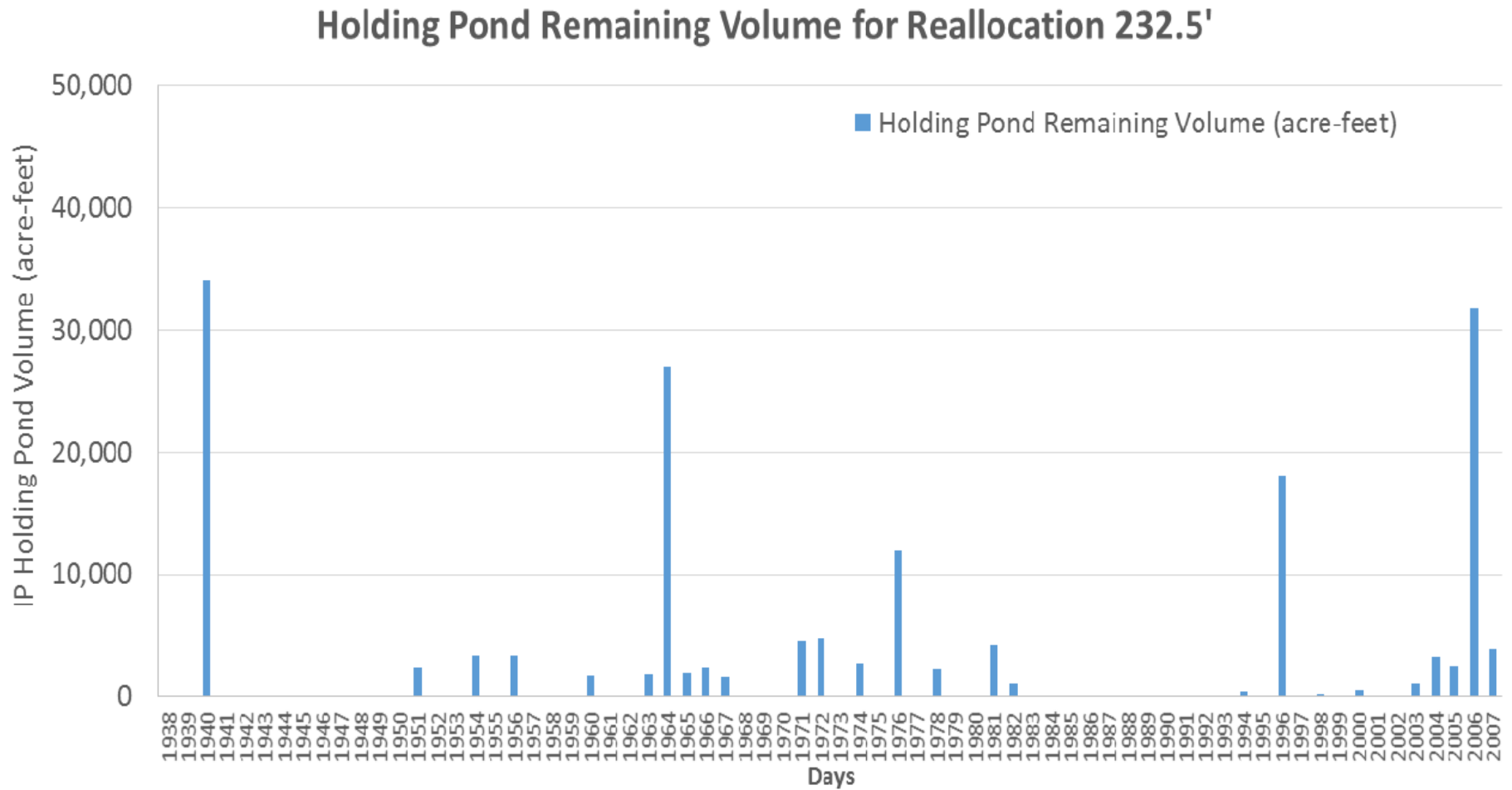


Figure 3. Holding Pond Remaining Volume – Reallocation 232.5' Scenario

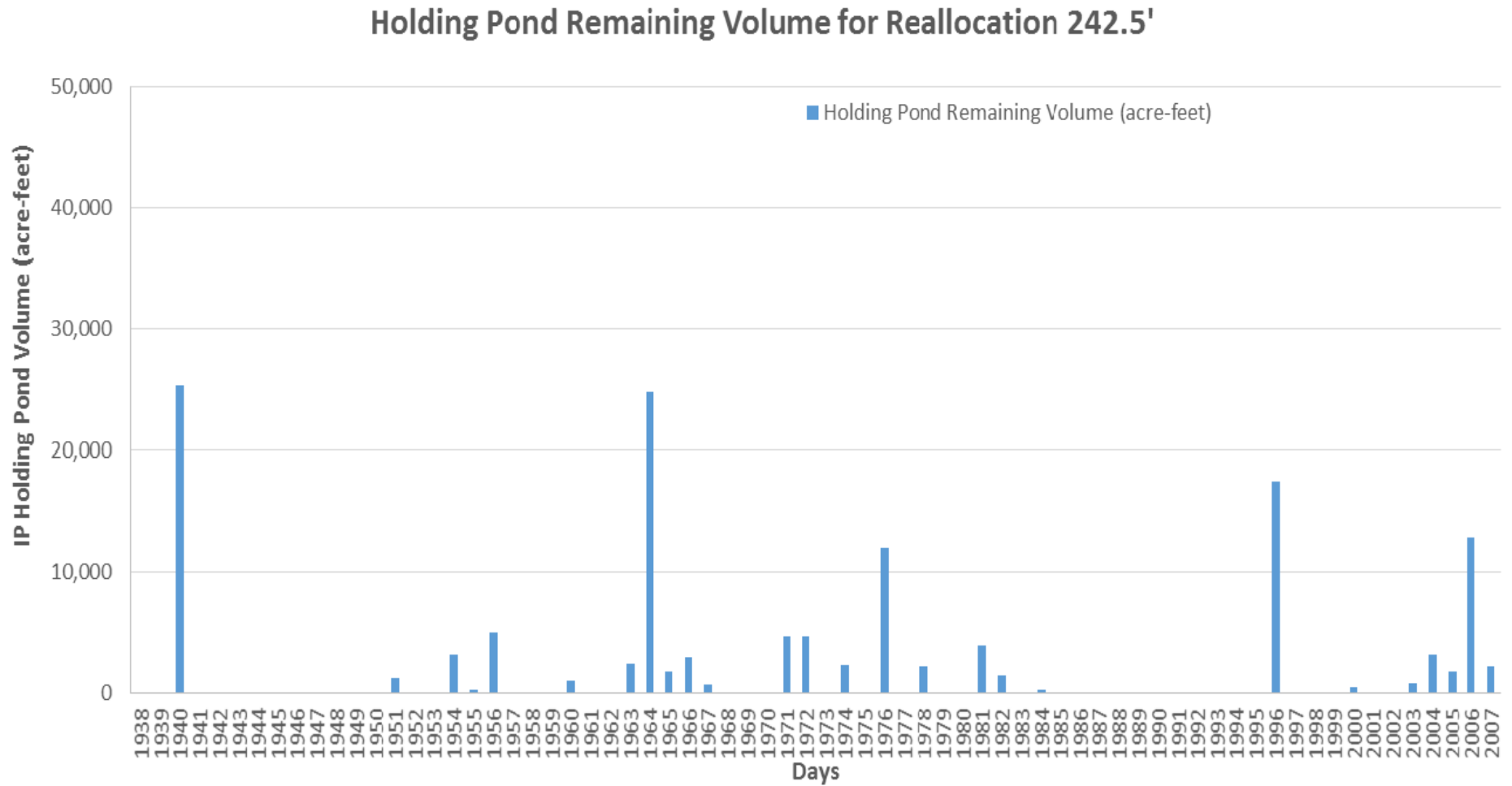


Figure 4. Holding Pond Remaining Volume – Reallocation 242.5' Scenario

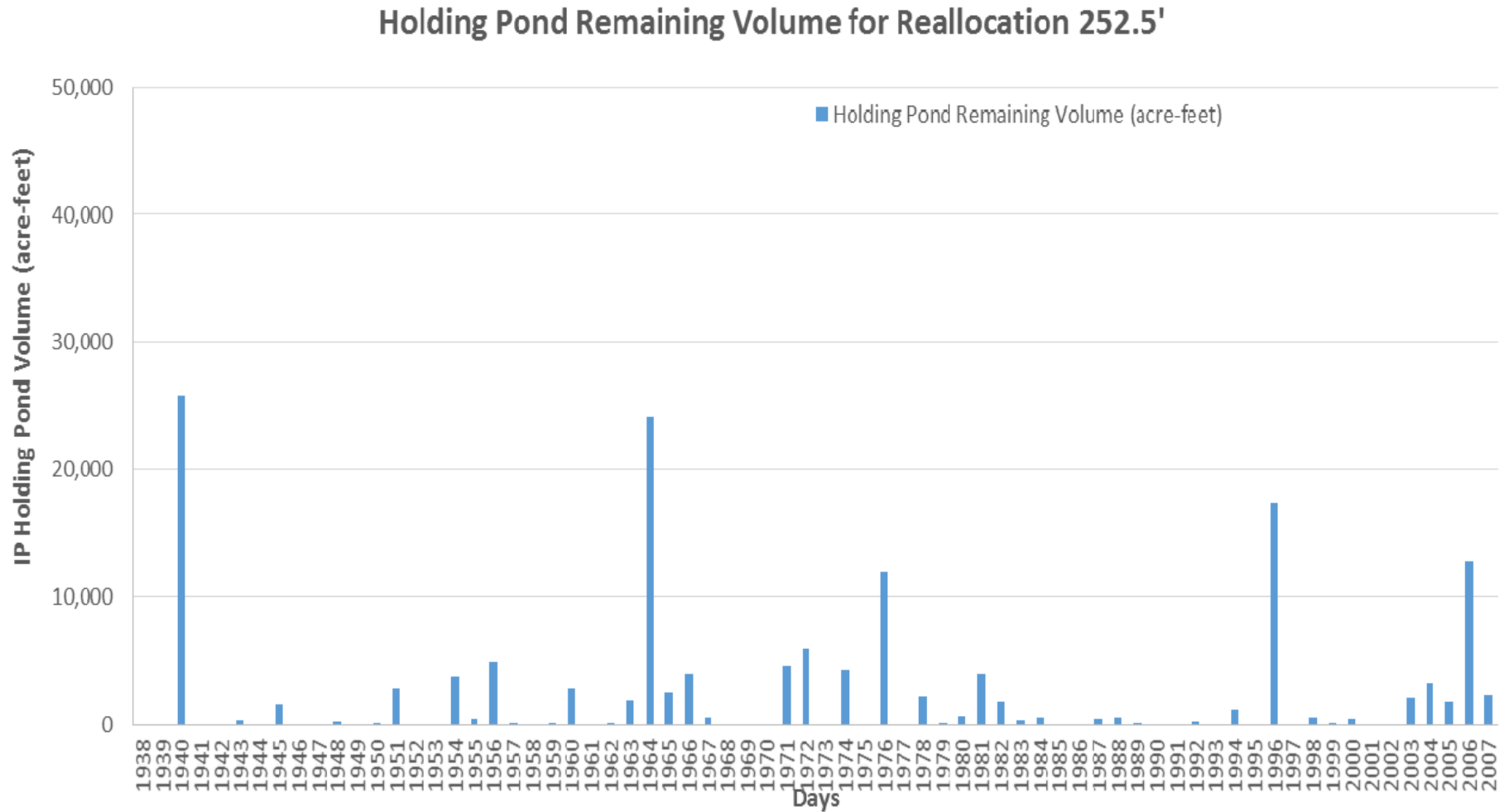


Figure 5. Holding Pond Remaining Volume – Reallocation 252.5' Scenario