

Somerset Dam Emergency Procedure

In the event of communications loss with the Flood Operations Centre, the Dam Supervisor at Somerset Dam is to assume responsibility for flood releases from the Dam. Once it has been established that communications have been lost, the Dam Supervisor at Somerset Dam is to:

- Take all practicable measures to restore communications and periodically check the lines of communication for any change;
- Undertake the actions set out below to release flood water from Somerset Dam;
- Log all actions in the Event Log;
- Ensure the dam is at full supply level at the end of the event;
- Remain in the general vicinity of the dam while on duty.

The actions to be undertaken to release flood water are:

- If communications with Wivenhoe Dam are lost, the level in Wivenhoe Dam is to be assumed as the level shown on gauge boards located downstream of Somerset Dam.
- The radial gates are to be kept raised to allow uncontrolled discharge.
- The regulators are to be closed if the tail water level exceeds EL 68.60 and are generally kept closed. The only exception to this is if the regulators are used to prevent overtopping of the dam.
- Sluice gates are operated as either fully opened or fully closed. The order of operation for opening the sluice gates is LMKNJOIP. Sluices are to be closed in reverse order of opening. Any inoperable sluices are to be dropped from the opening or closing sequences. The sluice gates are to be operated in accordance with the following procedures:
 - Case 1 - the level in Somerset Dam is below EL 100.45; or
 - Case 2 - the level in Somerset Dam is above EL 100.45.

These procedures are described below.

Case 1 Procedure (Level in Somerset Dam is below EL 100.45)

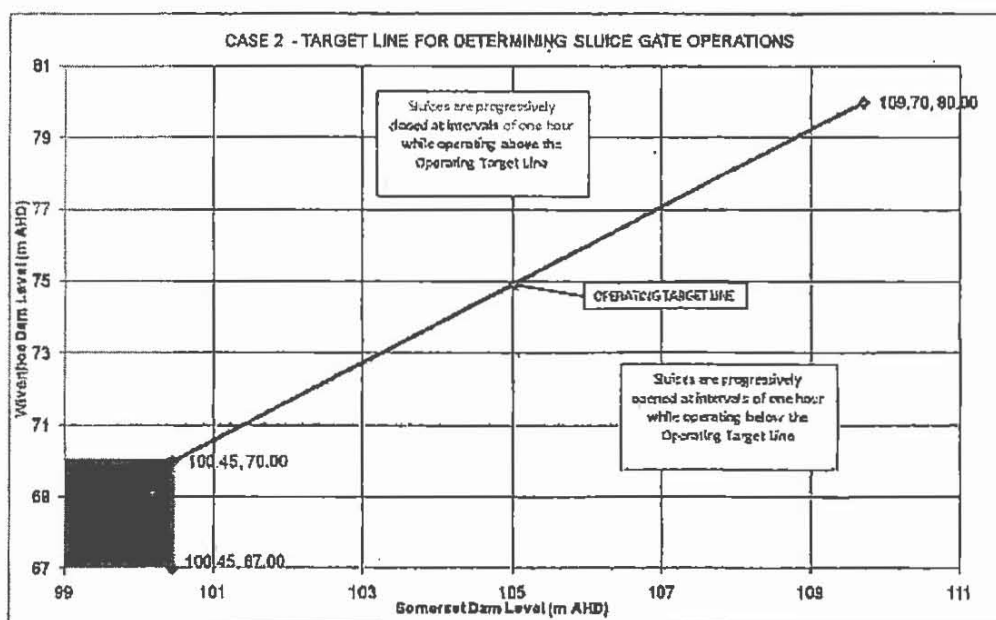
The sluice gates are to be operated in accordance with the following table:

SOMERSET DAM LOSS OF COMMUNICATIONS CASE 1 PROCEDURE	
CONDITIONS AT SOMERSET AND WIVENHOE DAMS	ACTIONS
Level in Somerset Dam is below EL 100.45, Level in Wivenhoe Dam is below EL 70.0 and falling.	Sluice gates are to be opened at intervals of not less than 120 minutes, provided the number of open sluice gates does not exceed that shown in the "SOMERSET DAM - MAXIMUM SLUICE GATE OPENING" table. Once a sluice gate is opened, no further sluice gate operations are to be undertaken for 120 minutes.
Level in Somerset Dam is below EL 100.45, Level in Wivenhoe Dam is below EL 70.0 and rising.	Sluice gates are to be closed at intervals of not less than 180 minutes. Once a sluice gate is closed, no further sluice gate operations are to be undertaken for 180 minutes.
Level in Somerset Dam is below EL 100.45, Level in Wivenhoe Dam is above EL 70.0.	Sluice gates are to be closed at intervals of not less than 60 minutes. Once a sluice gate is closed, no further sluice gate operations are to be undertaken for 60 minutes.

SOMERSET DAM MAXIMUM SLUICE GATE OPENING	
SOMERSET DAM LEVEL	MAXIMUM NUMBER OF SLUICE GATES ALLOWED TO BE OPEN

Case 2 Procedure (Level in Somerset Dam is above EL 100.45)

The sluices gates are to be operated in accordance with the following graph:

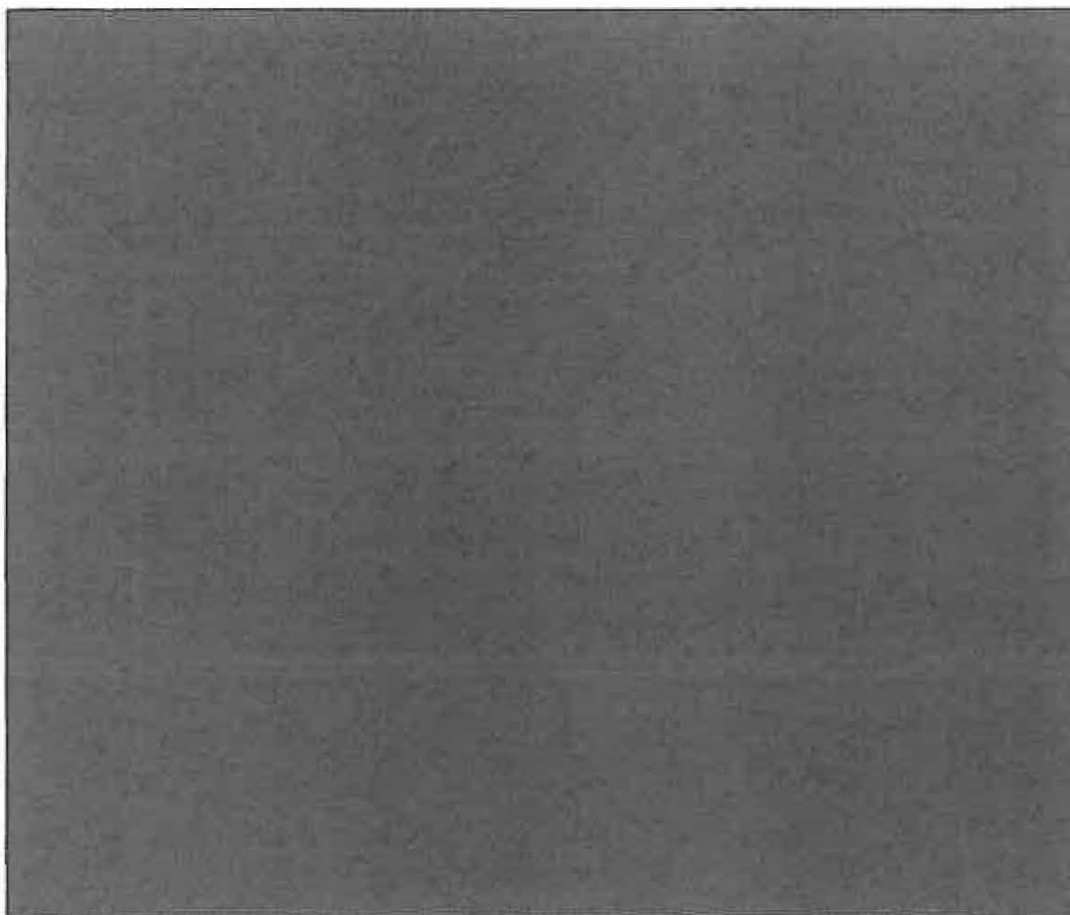


Sluices are progressively closed at one hour intervals if operating above the Operating Target Line and progressively opened at one hour intervals if operating below the Operating Target Line. The aim is always to follow the Operating Target Line as closely as possible.

10.4 Equipment Failure

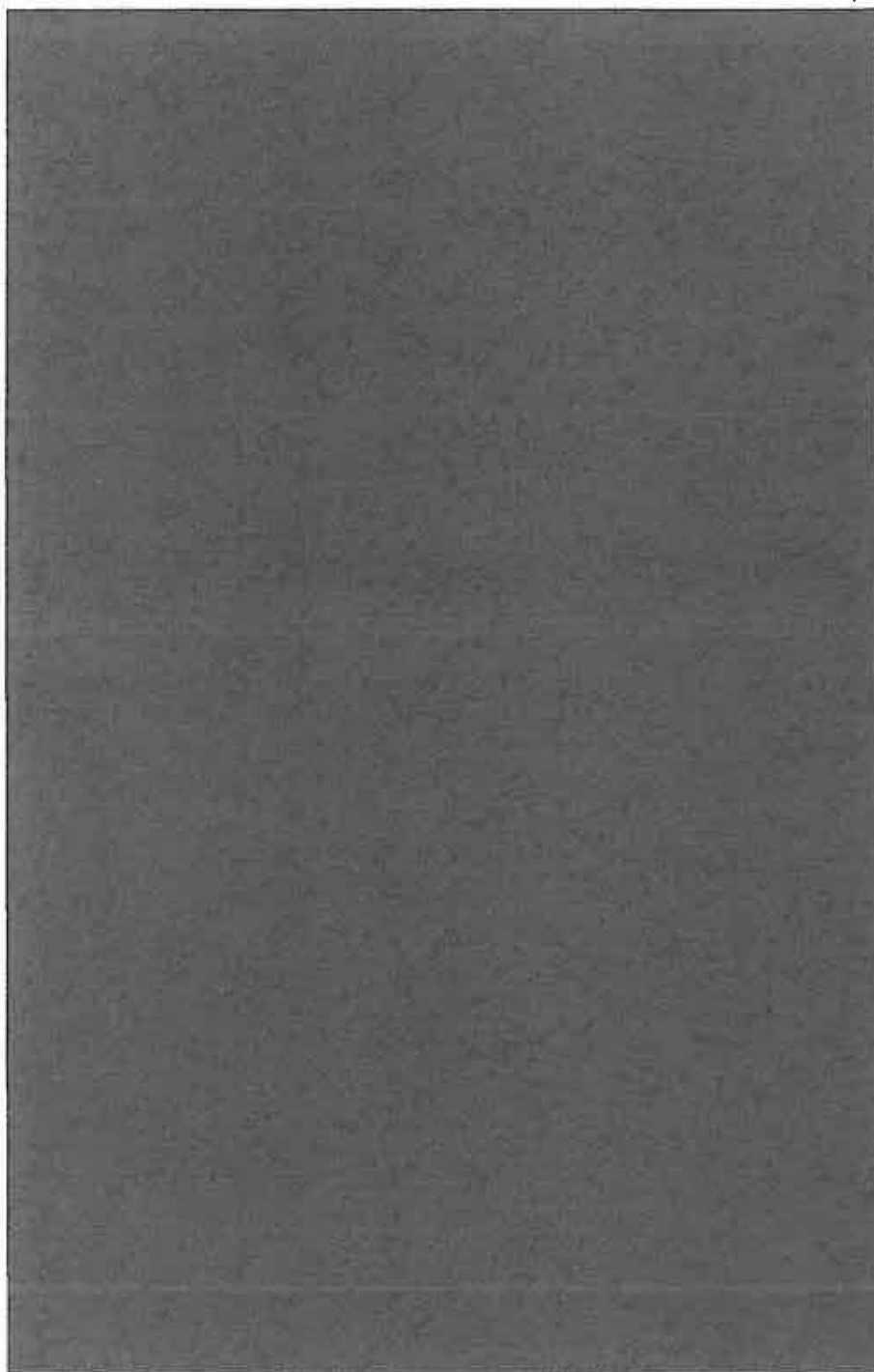
In the event of equipment failure the action to be taken is indicated in Appendix E for Wivenhoe Dam and Appendix F for Somerset Dam.

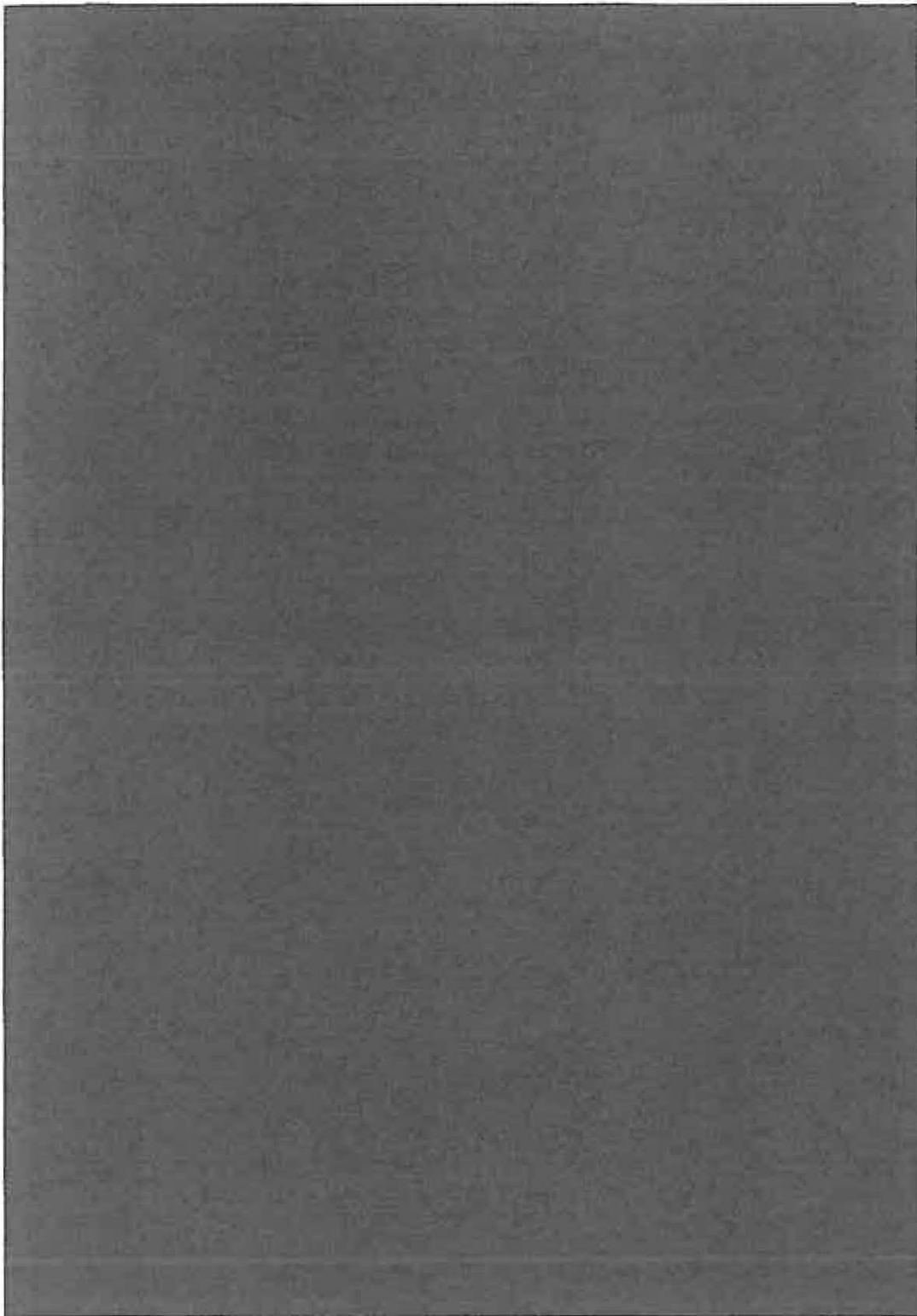
APPENDIX A
AGENCIES HOLDING CONTROLLED COPIES OF THIS MANUAL

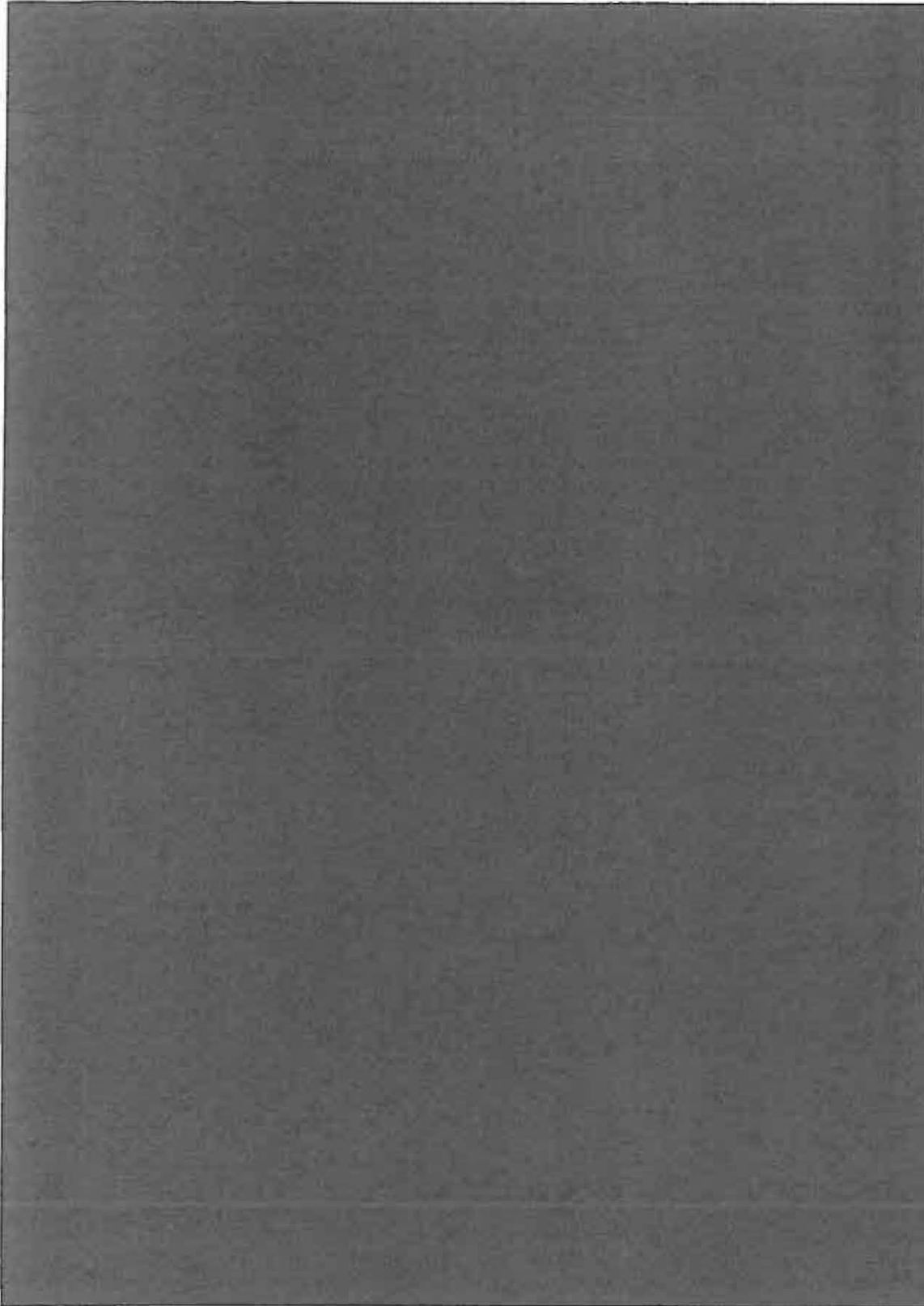


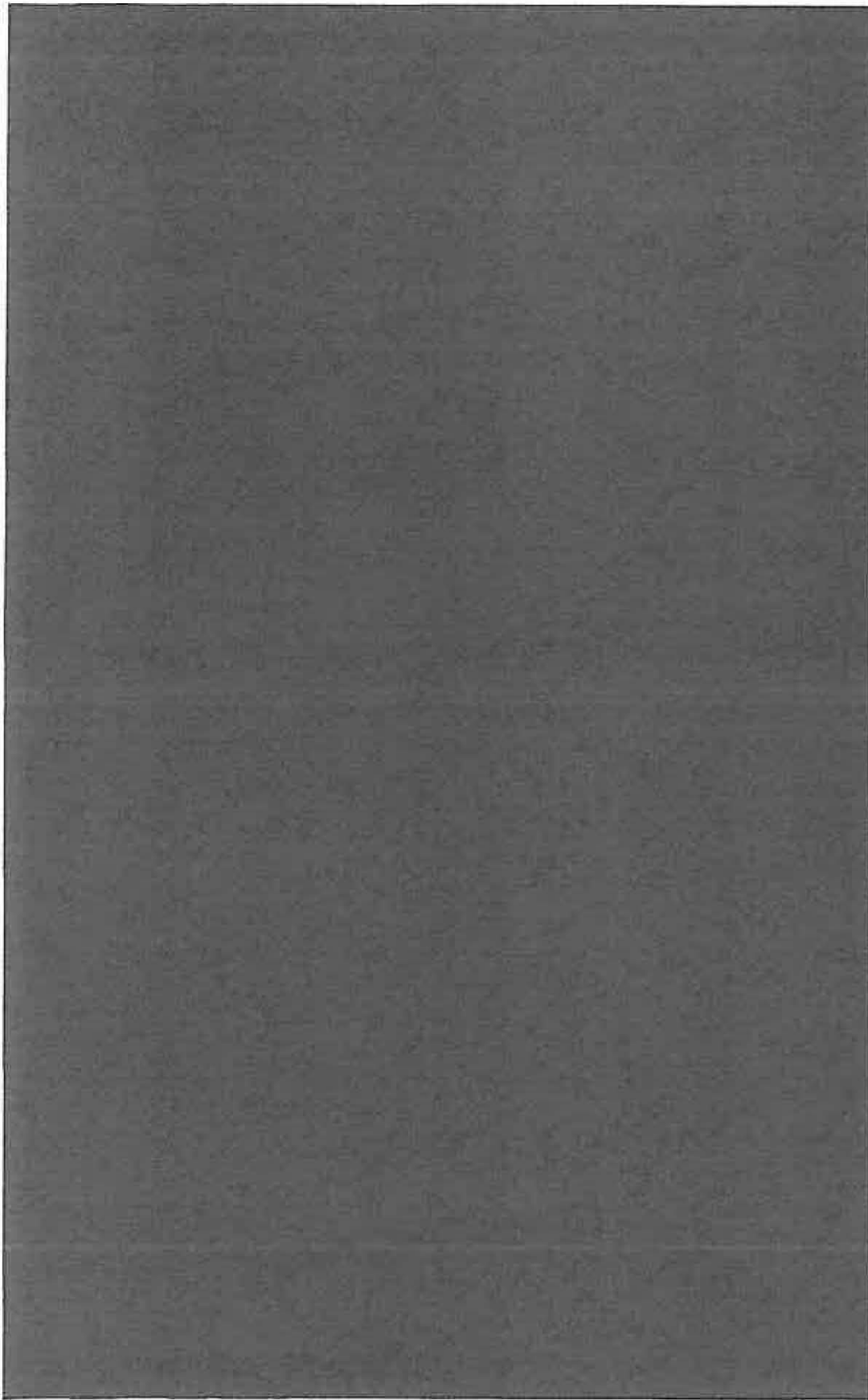
APPENDIX C

WIVENHOE DAM TECHNICAL DATA

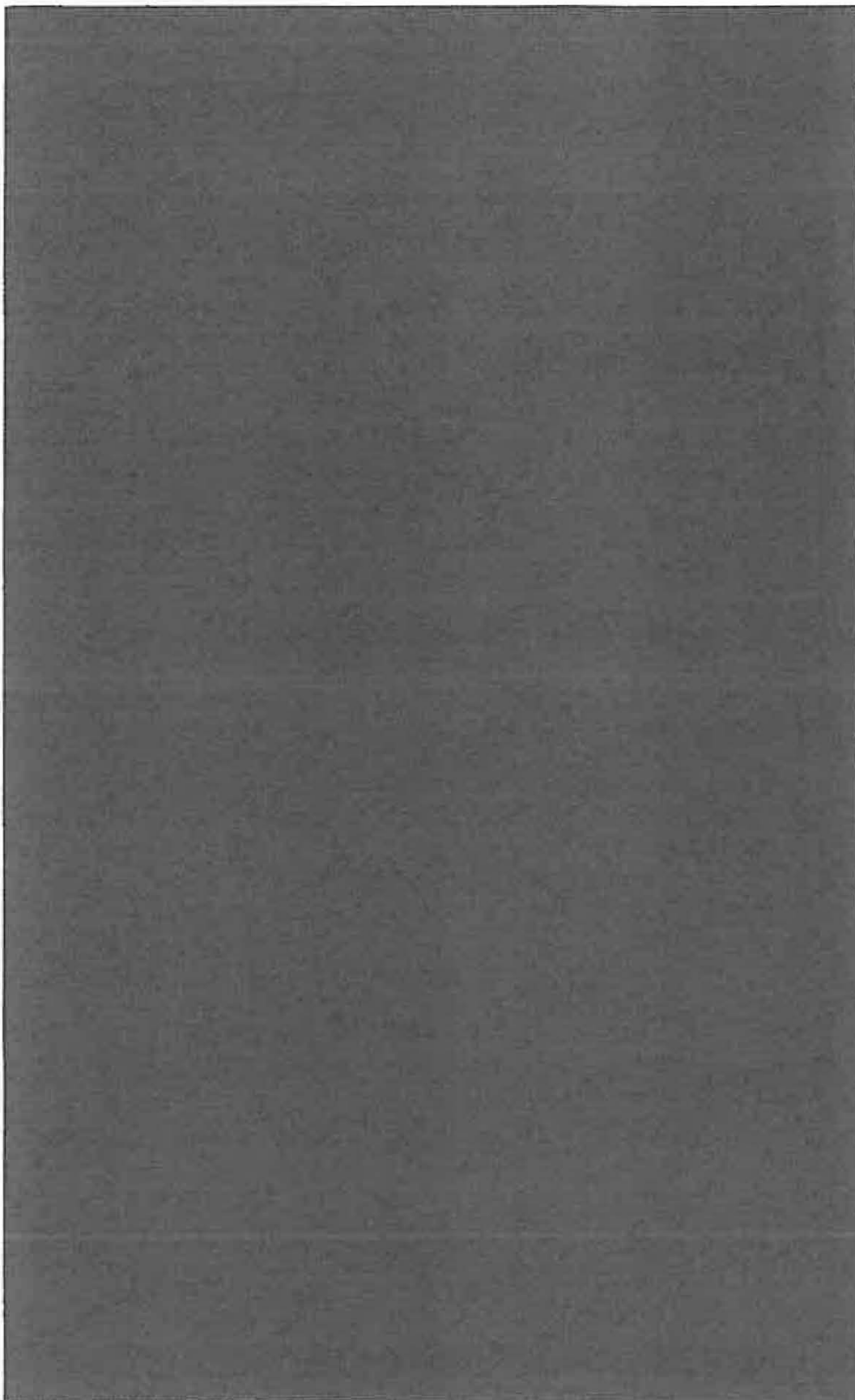


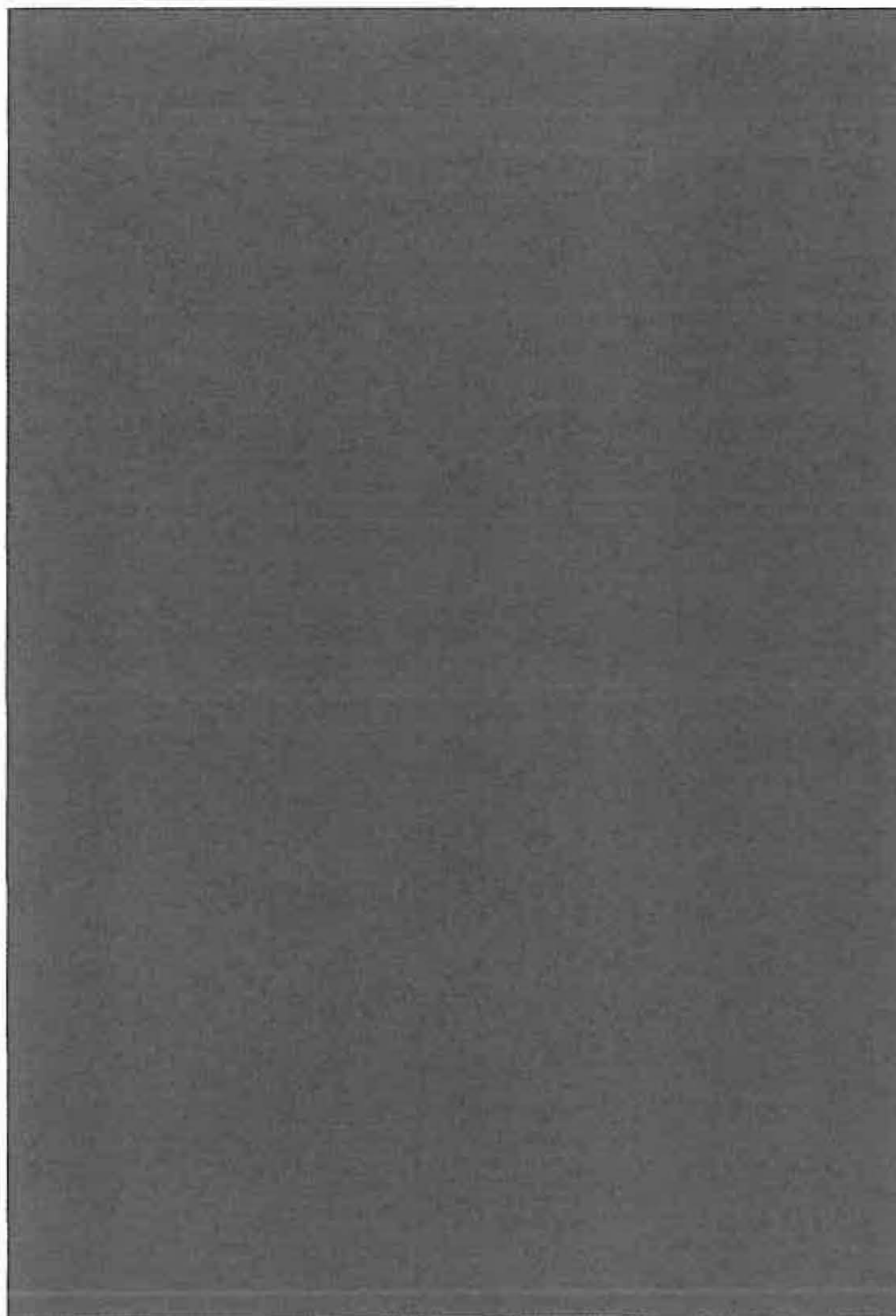






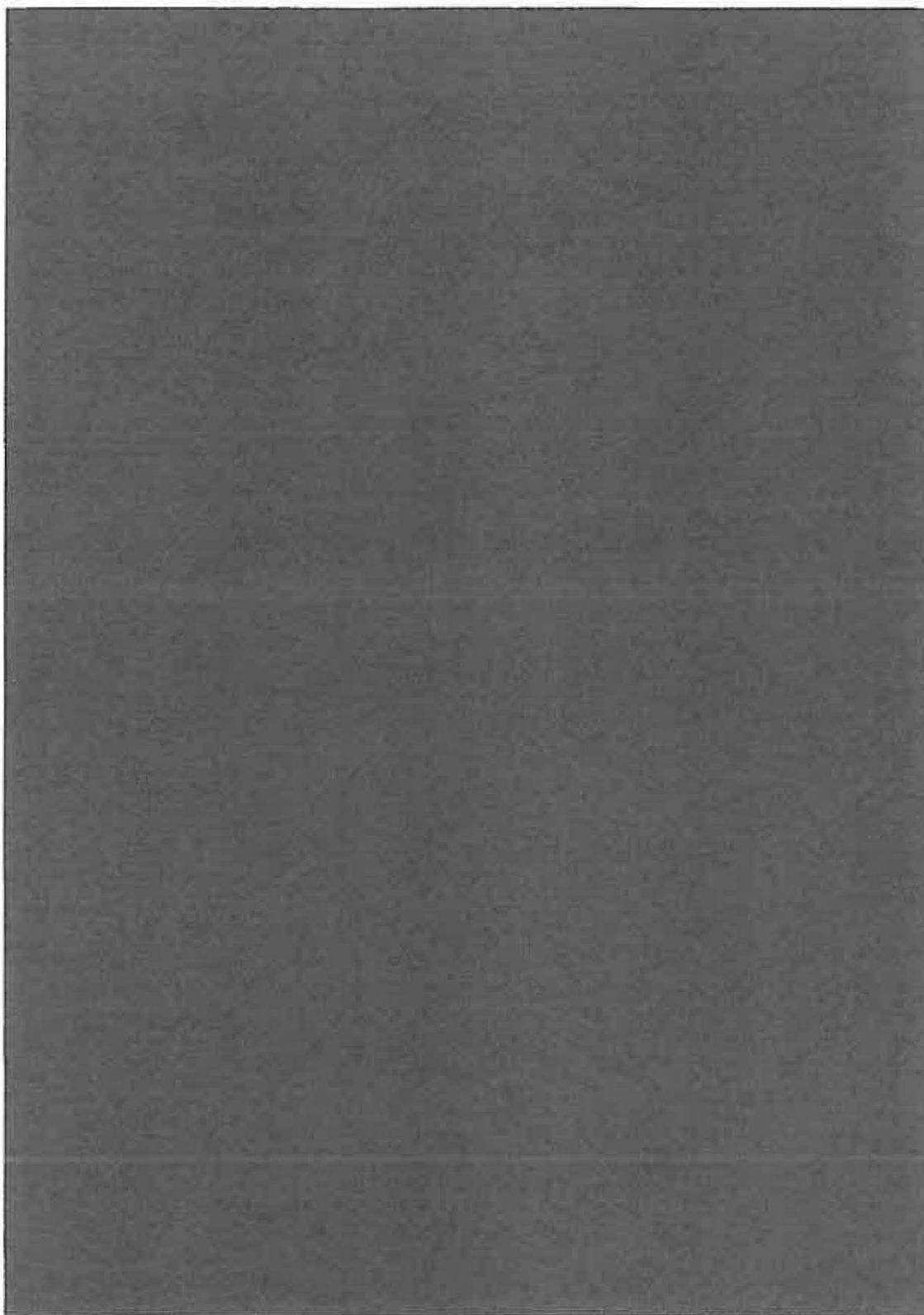
* Flow impacted by bridge deck.

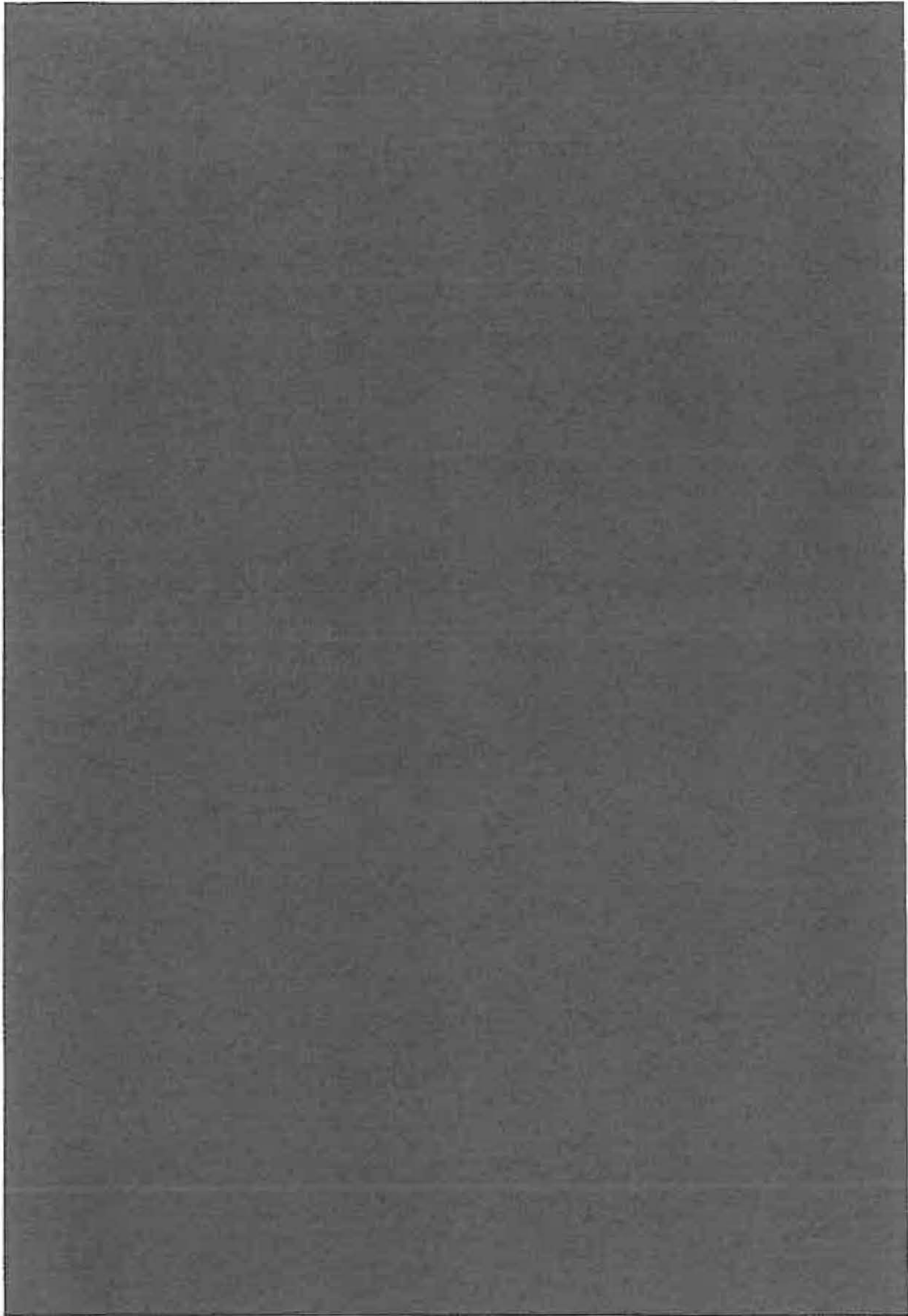


WIVENHOE DAM AUXILIARY SPILLWAY RATING TABLE

APPENDIX D

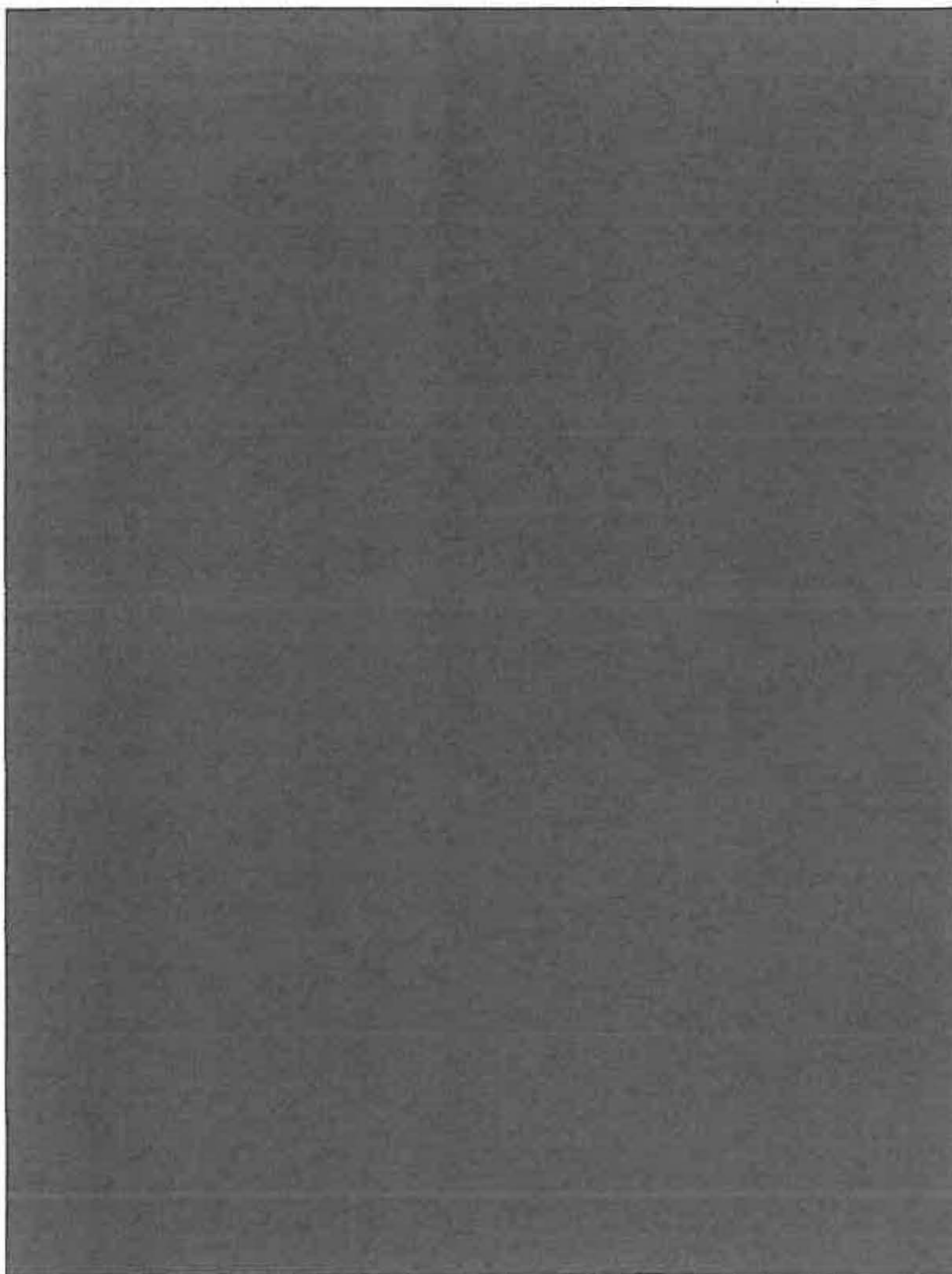
SOMERSET DAM TECHNICAL DATA

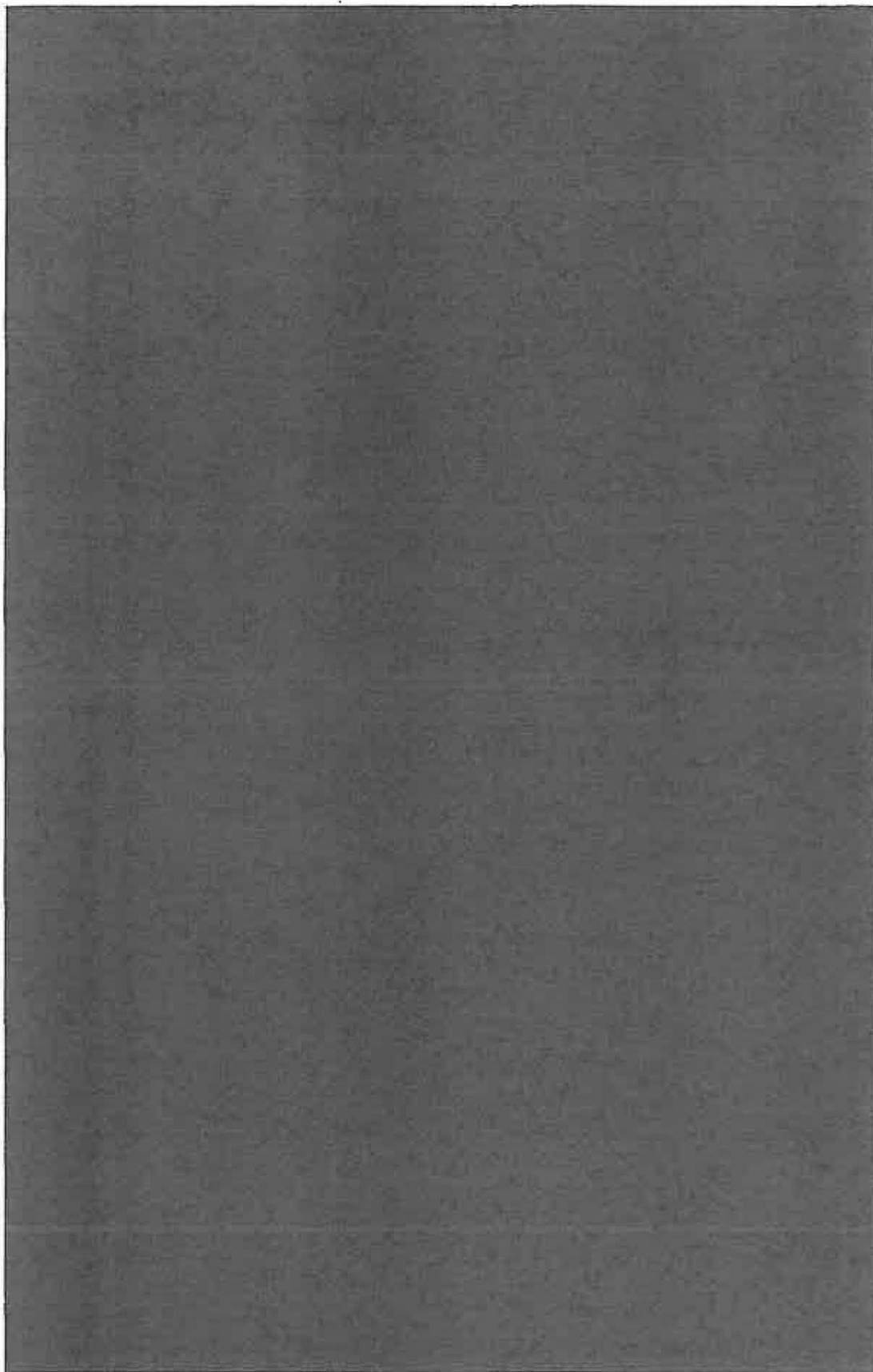


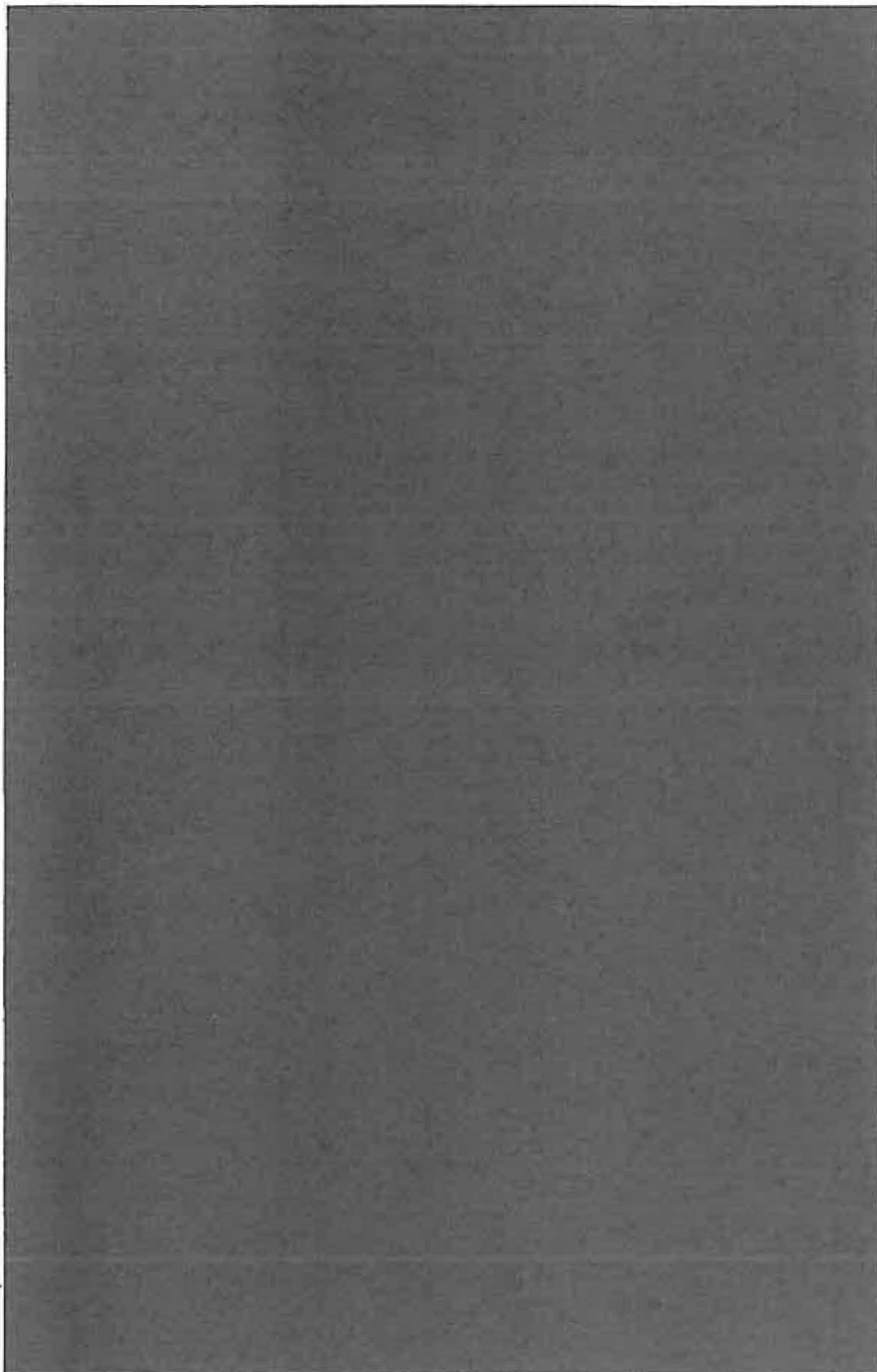


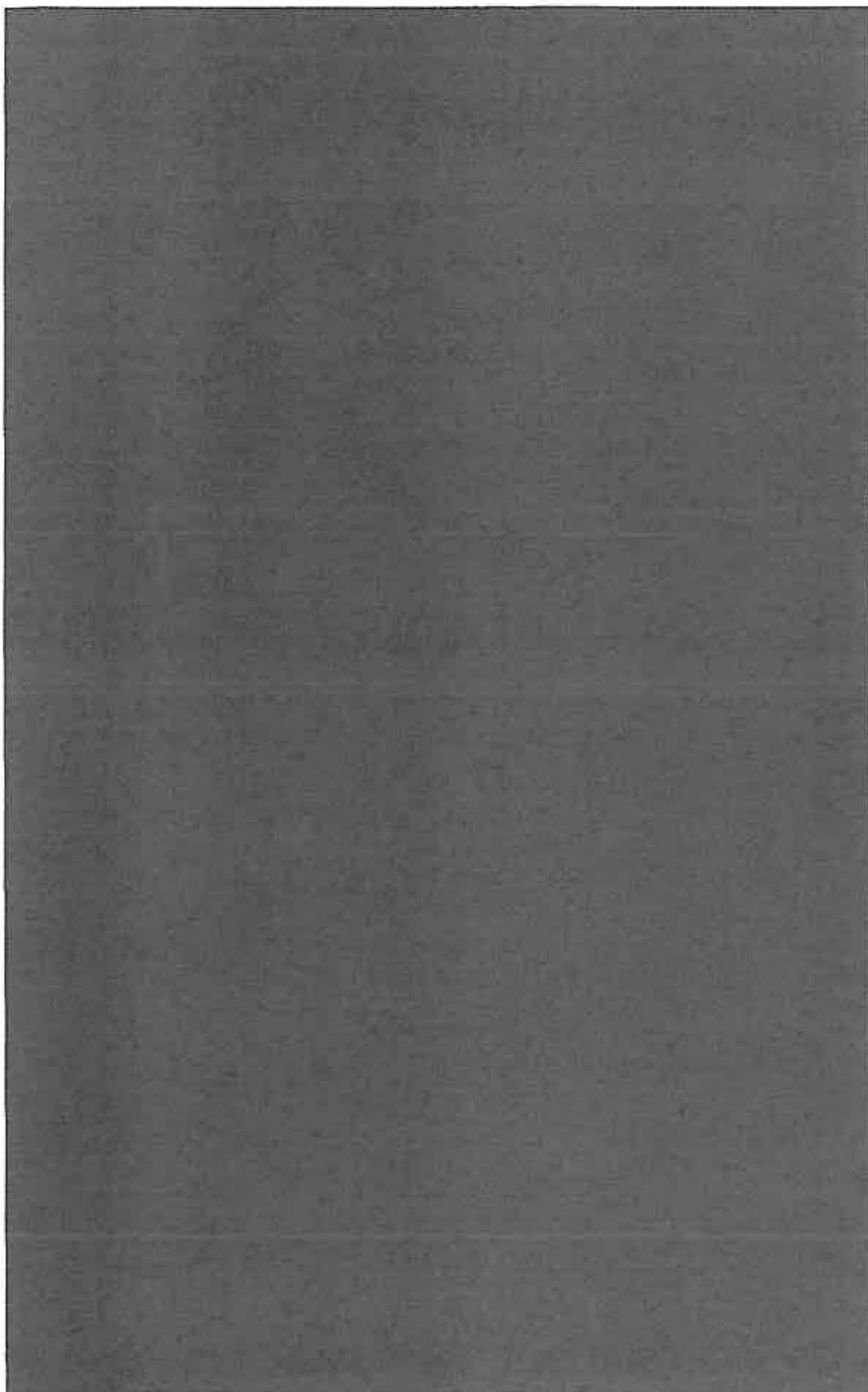
APPENDIX E

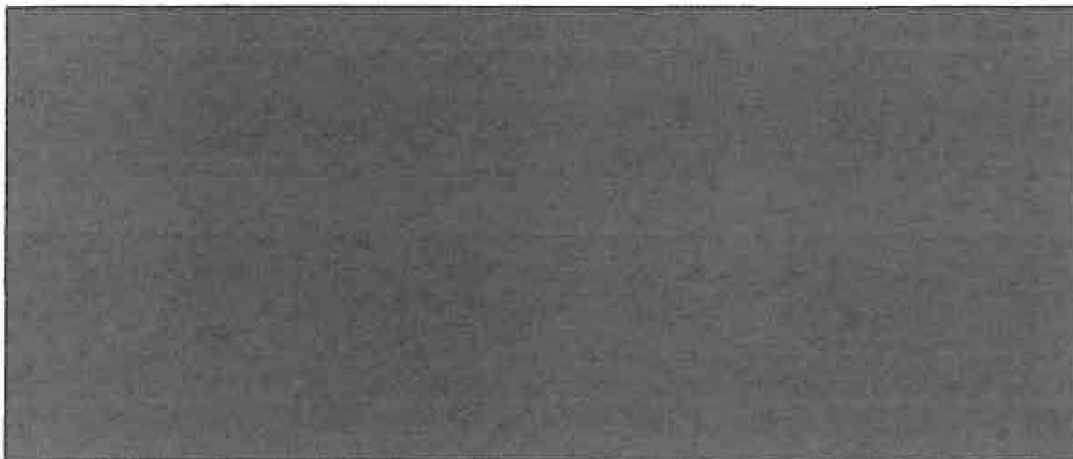
WIVENHOE DAM GATE OPERATION CONSIDERATIONS





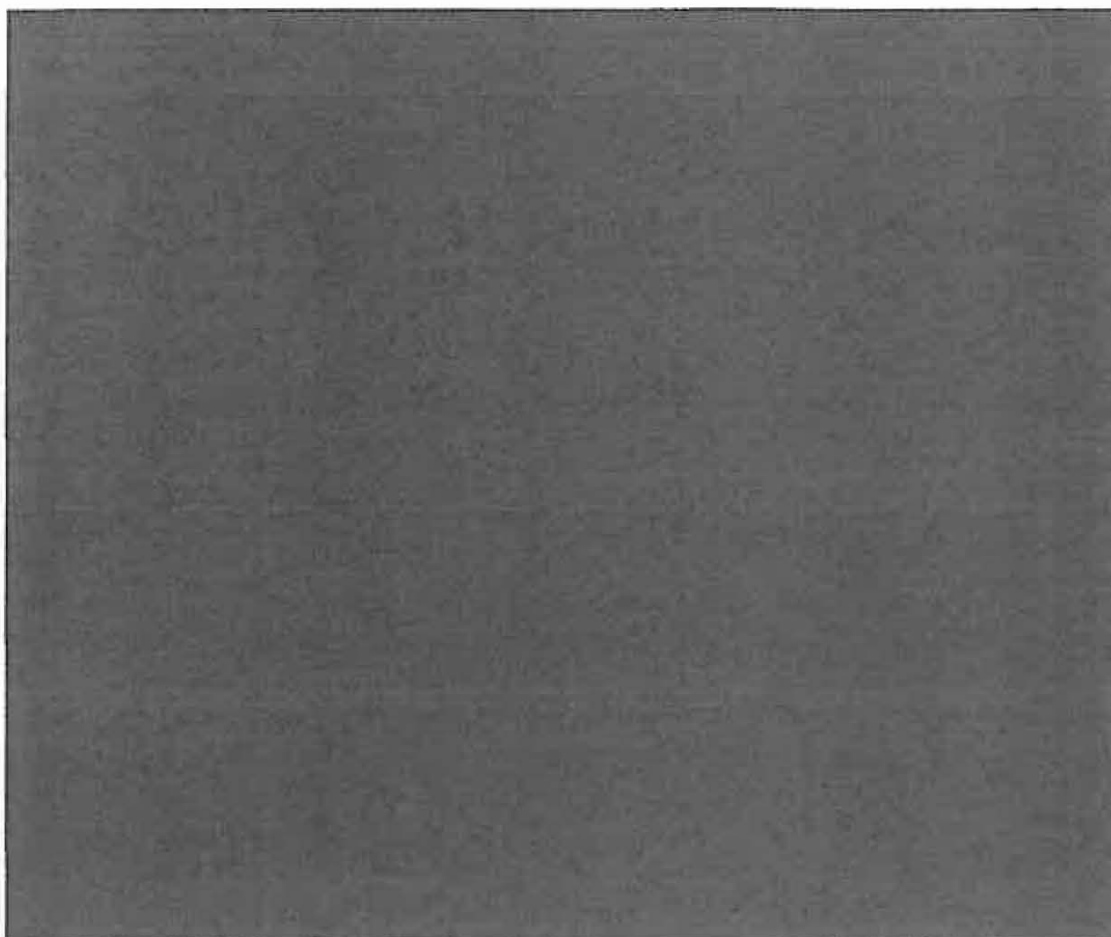




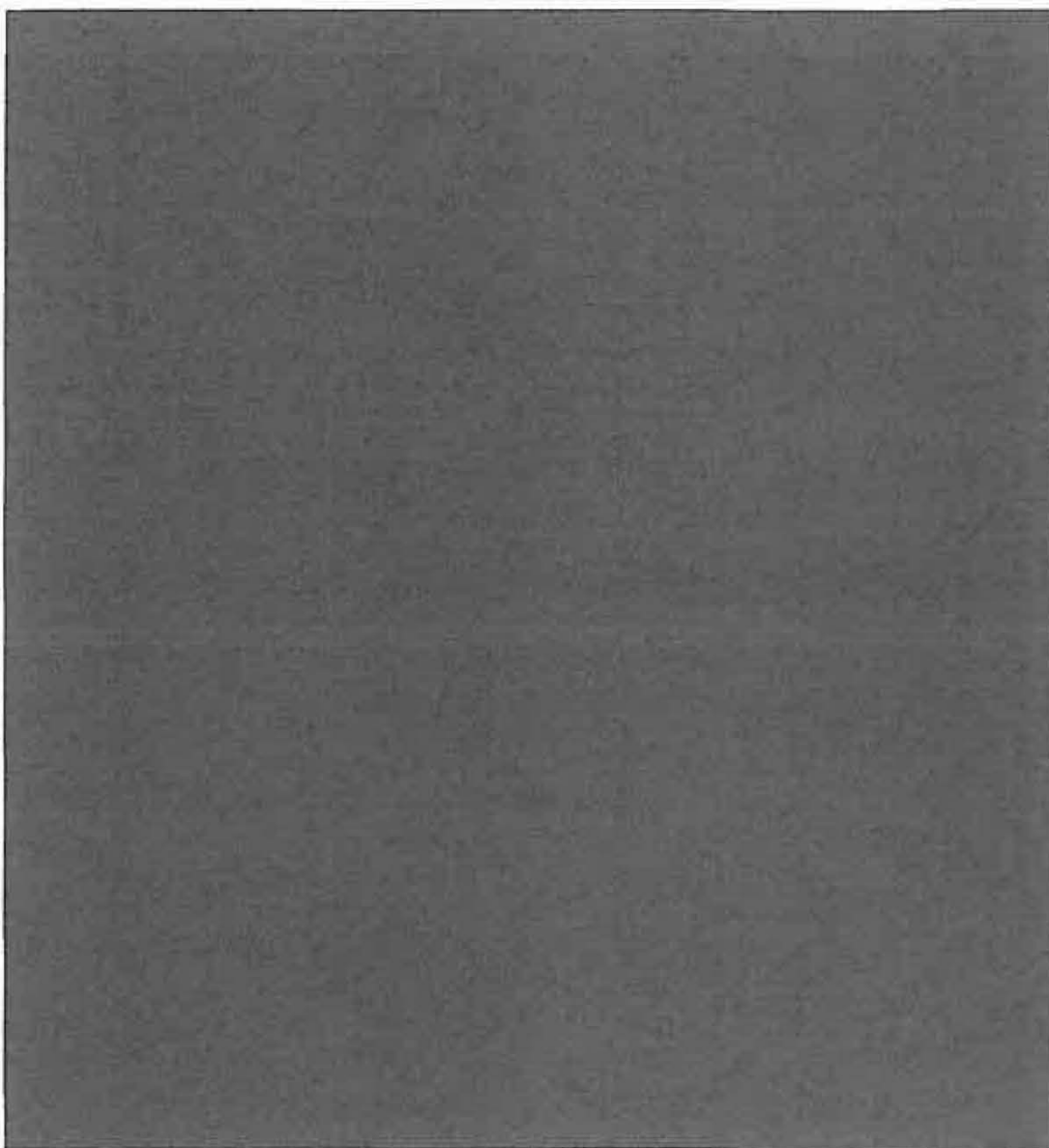


APPENDIX F

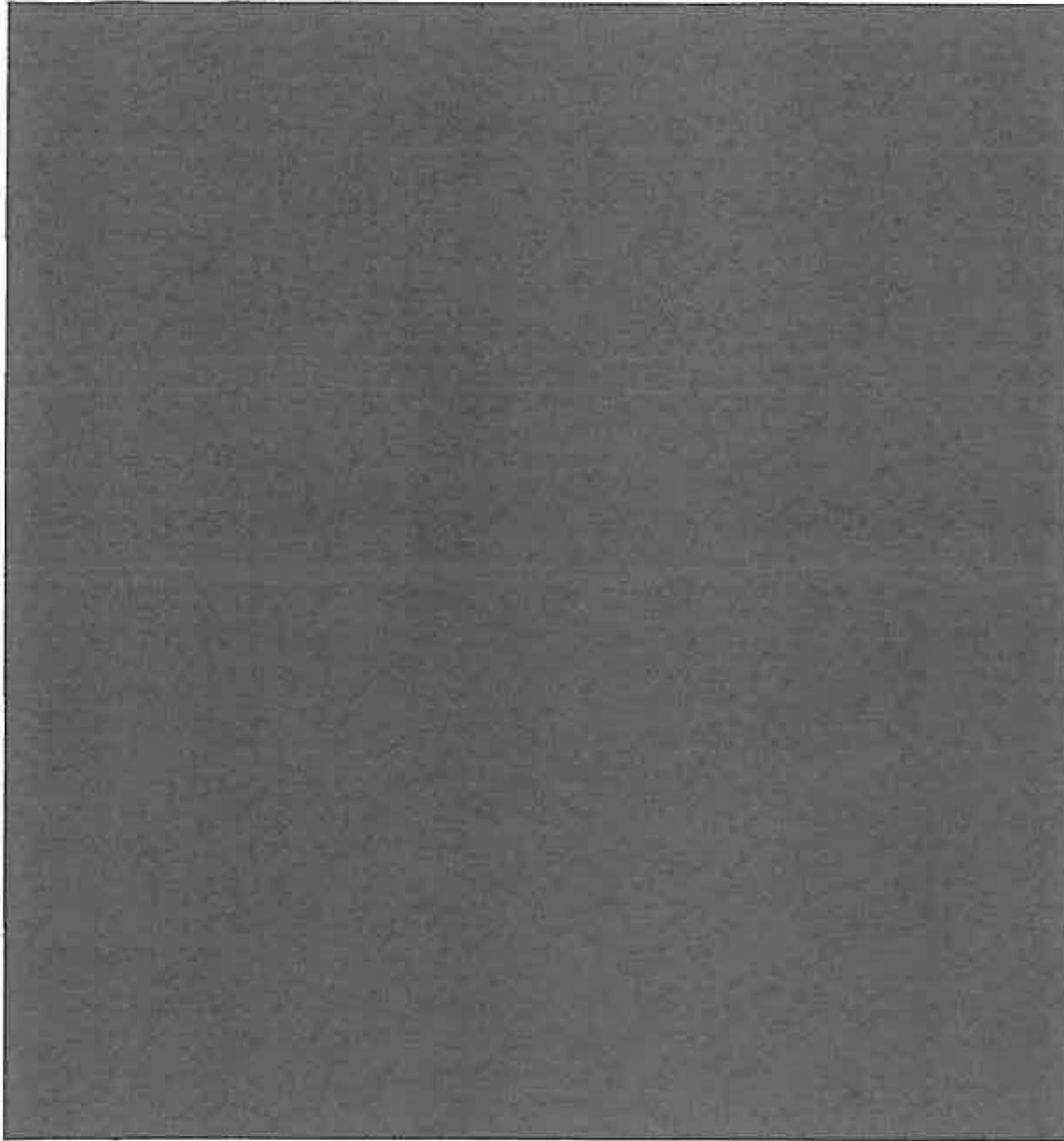
SOMERSET DAM AUXILIARY EQUIPMENT

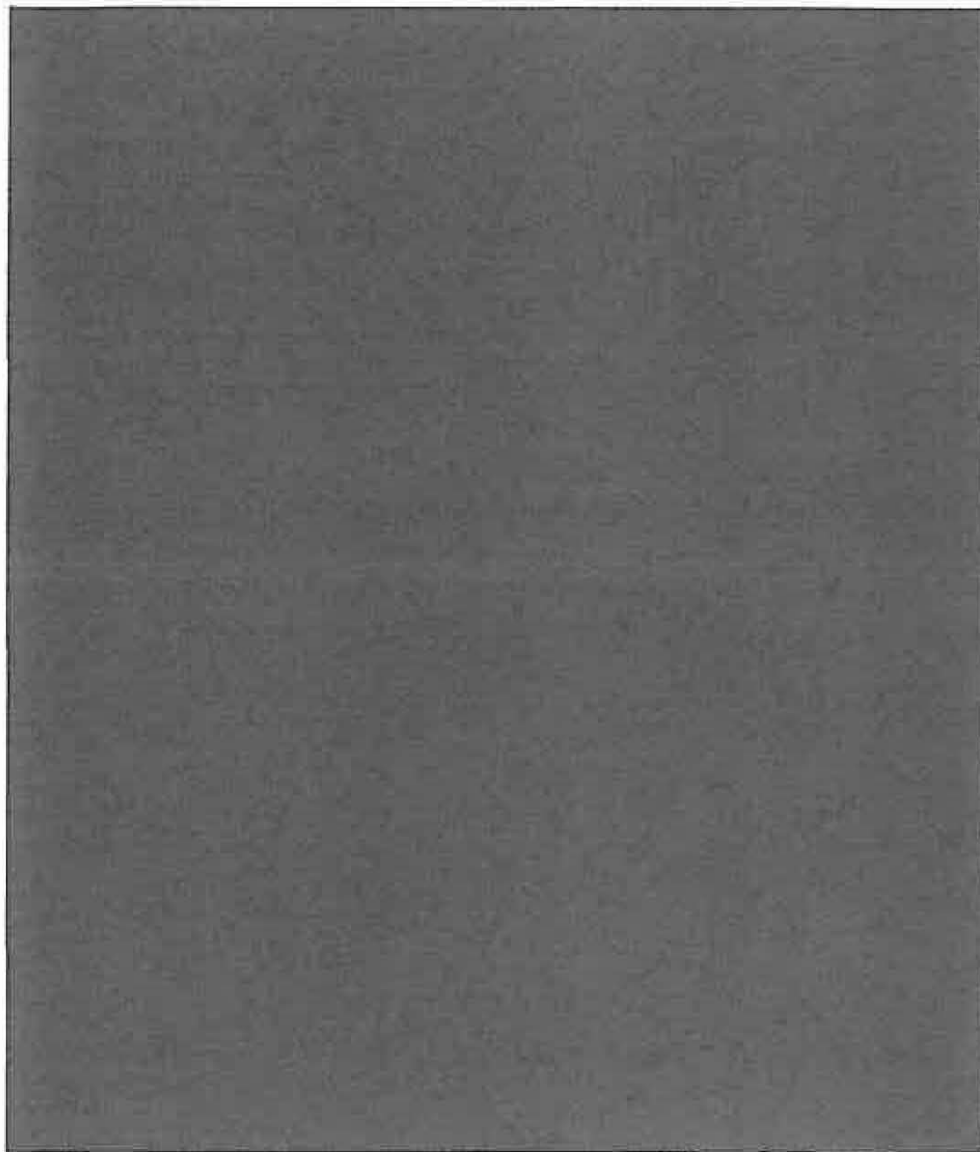


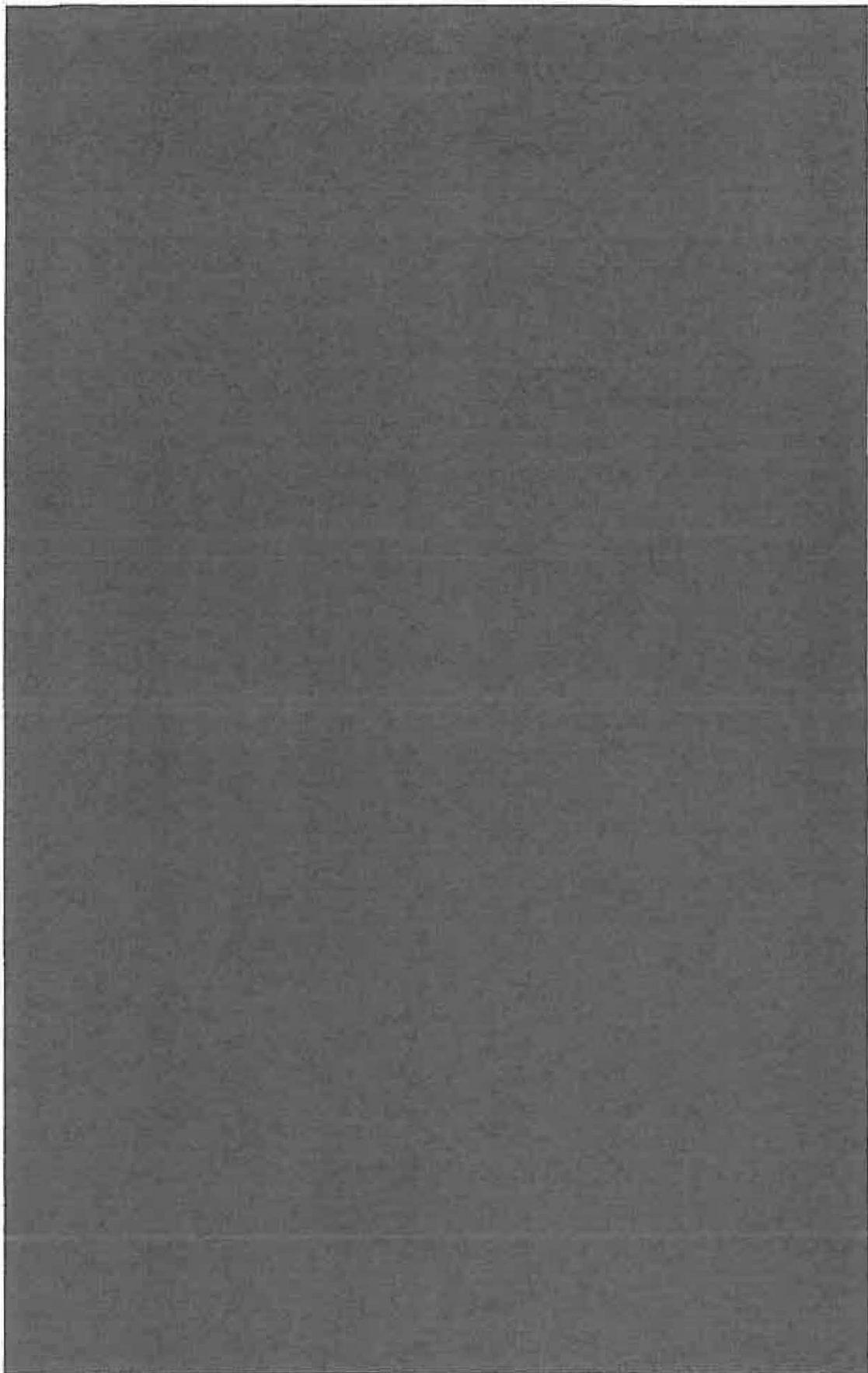
APPENDIX G HYDROLOGIC INVESTIGATIONS

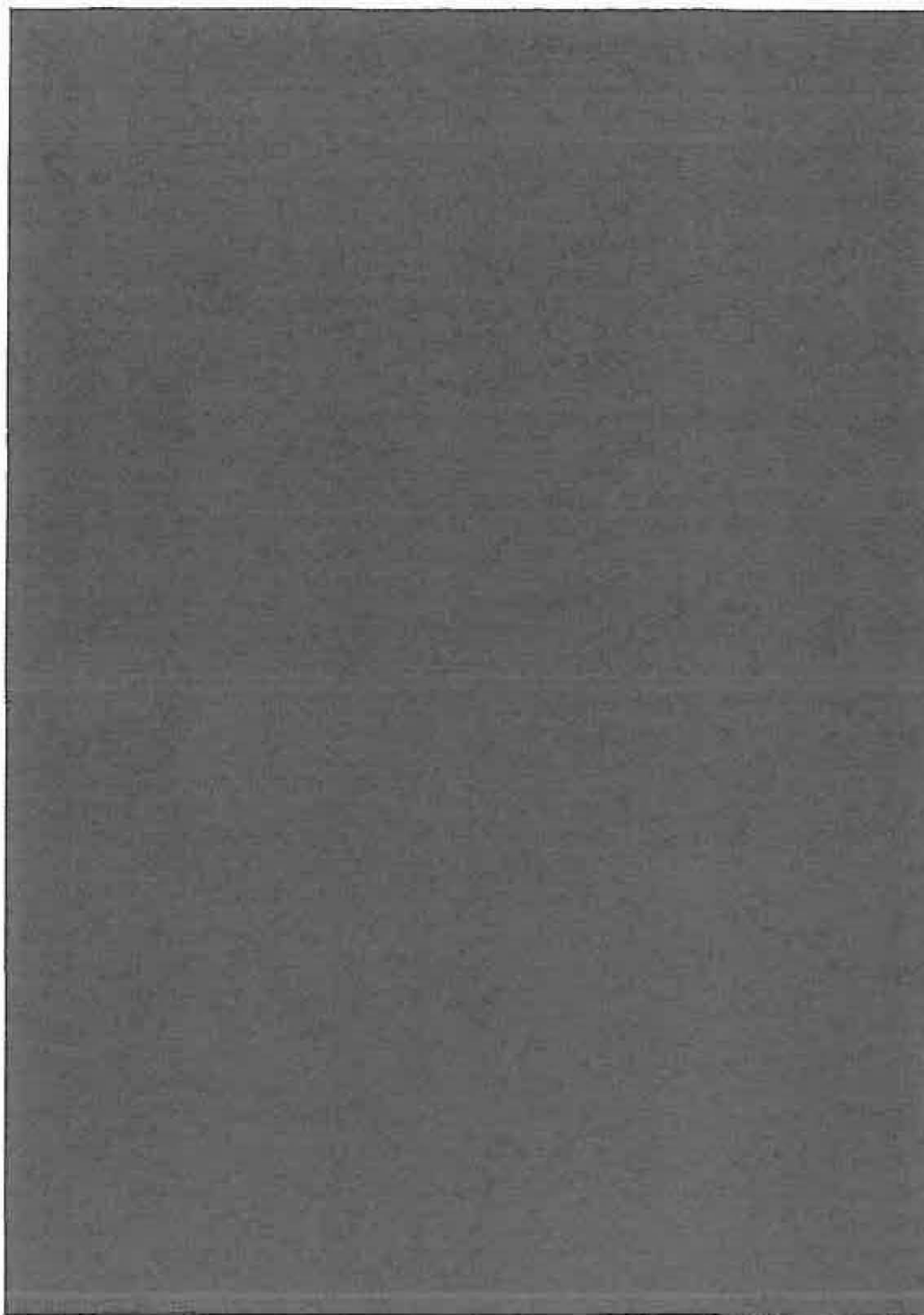


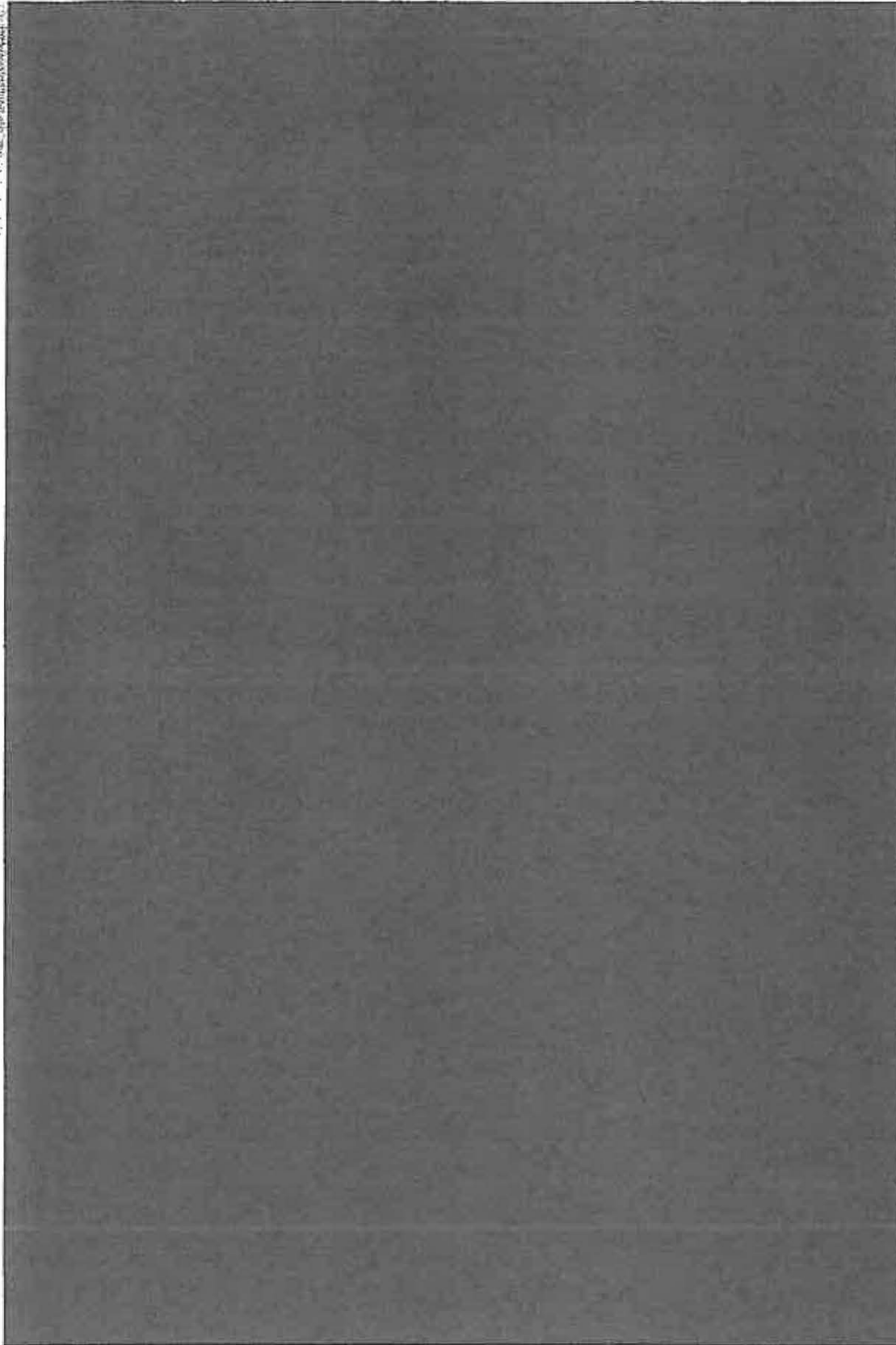
**APPENDIX H
WIVENHOE DAM
PLANS, MAPS AND PHOTOGRAPHS**

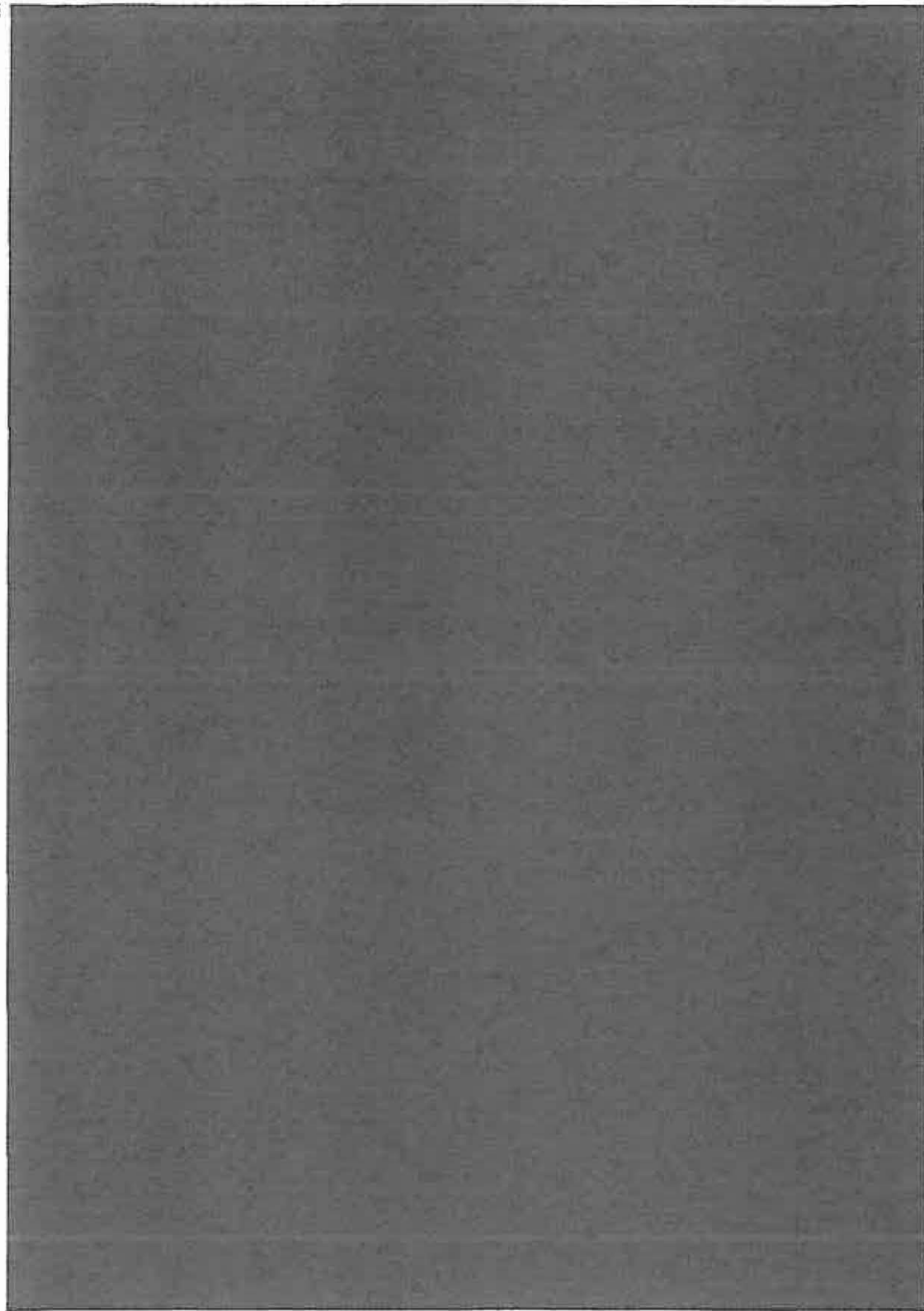




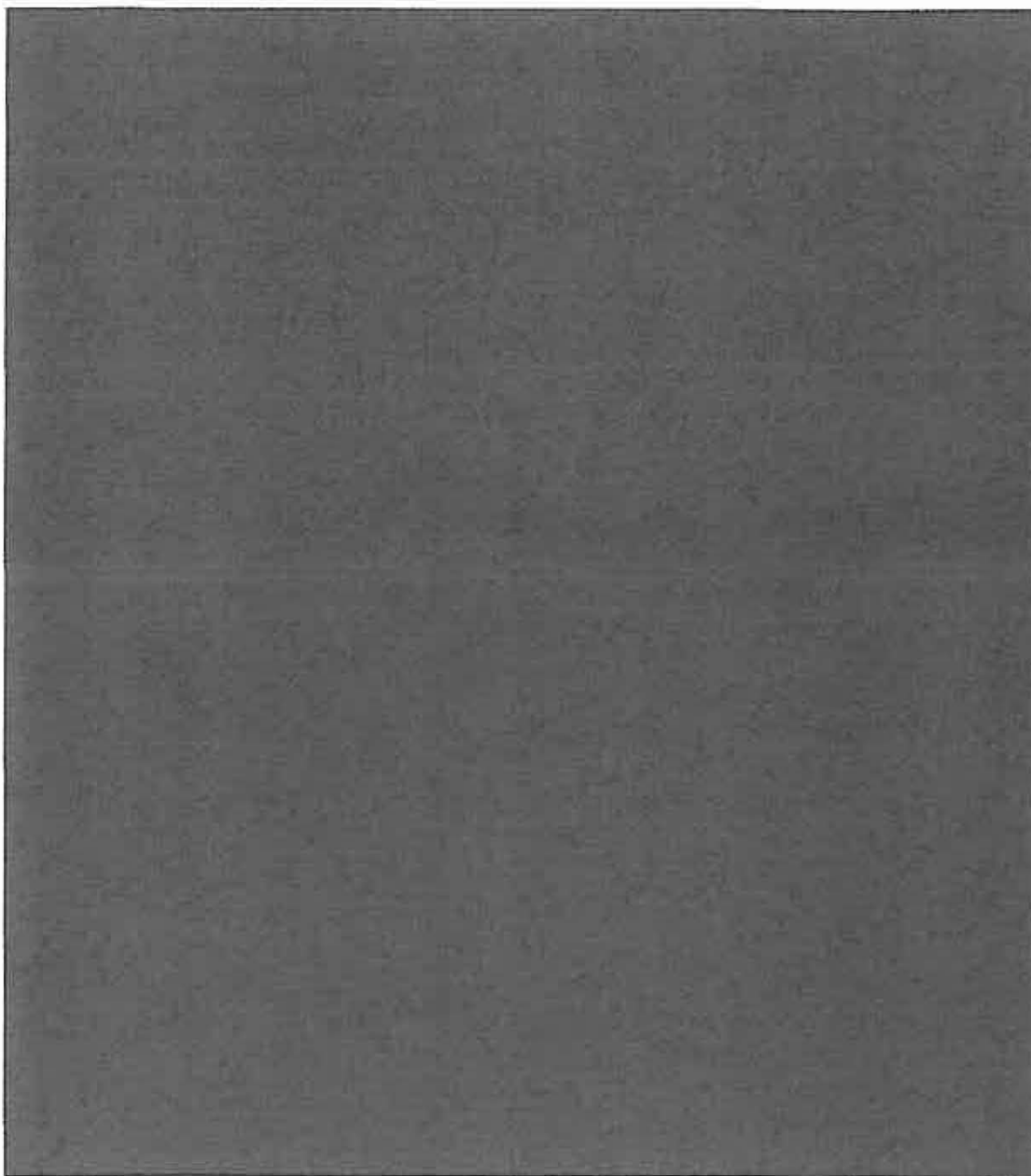


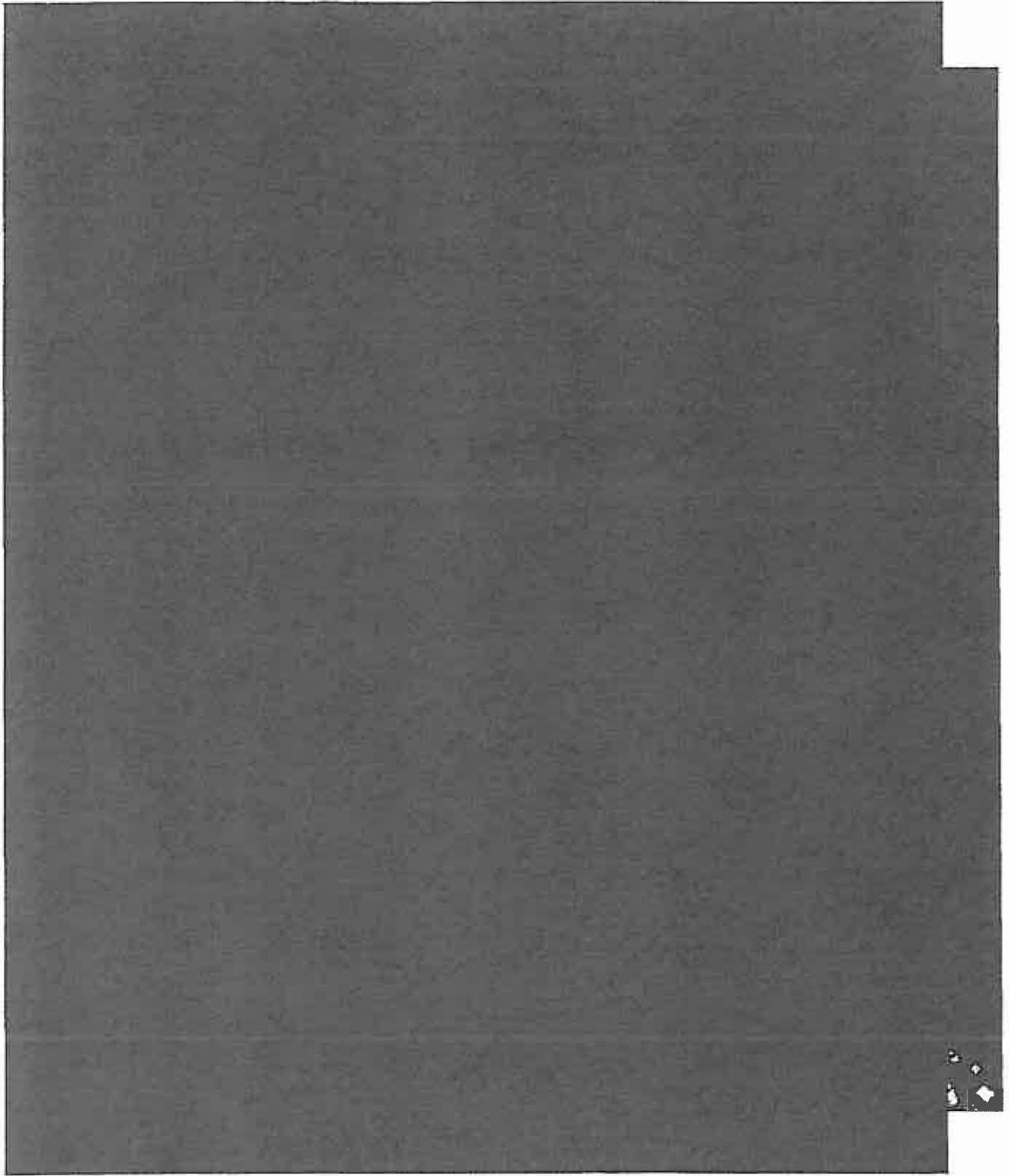


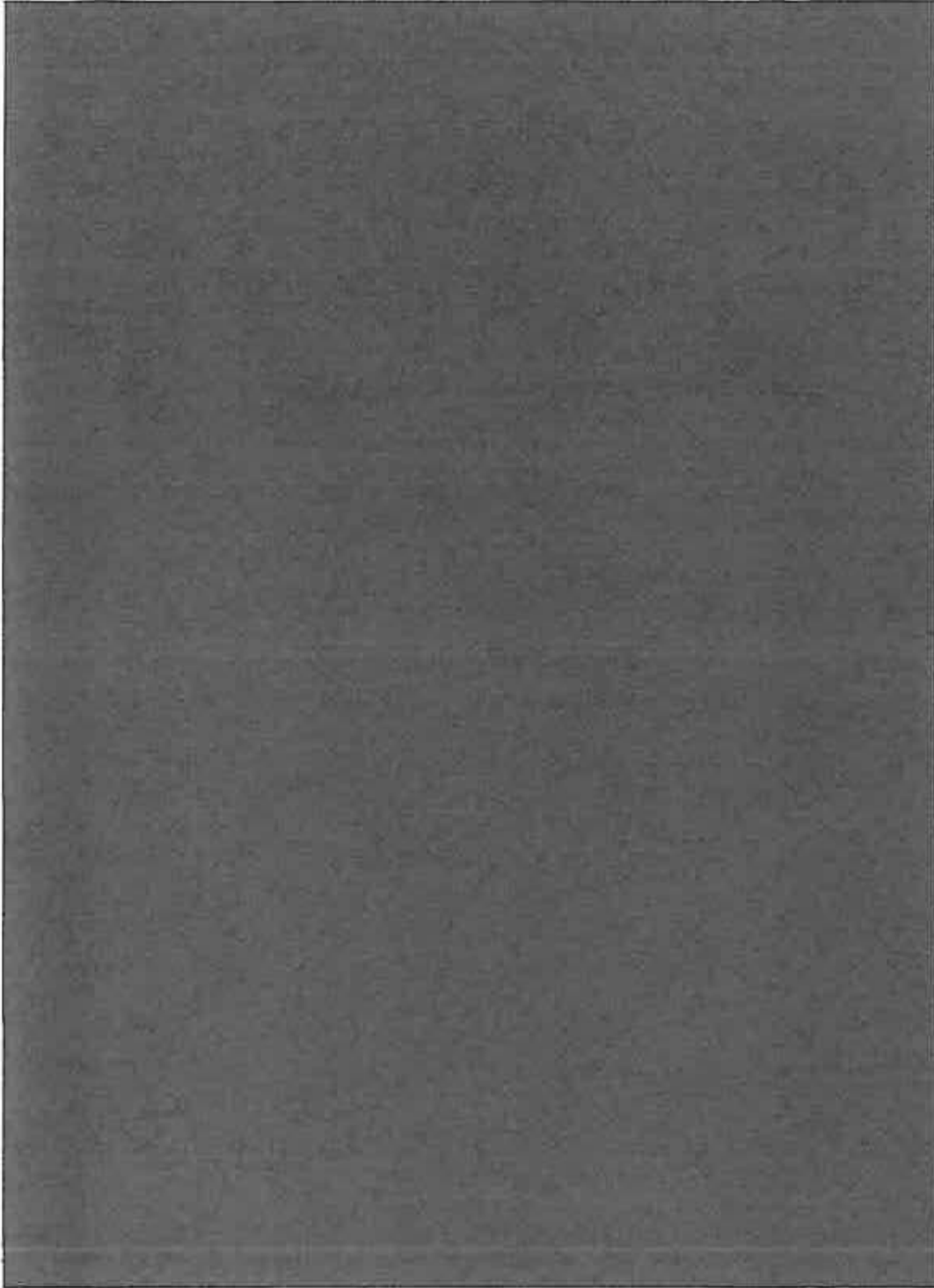


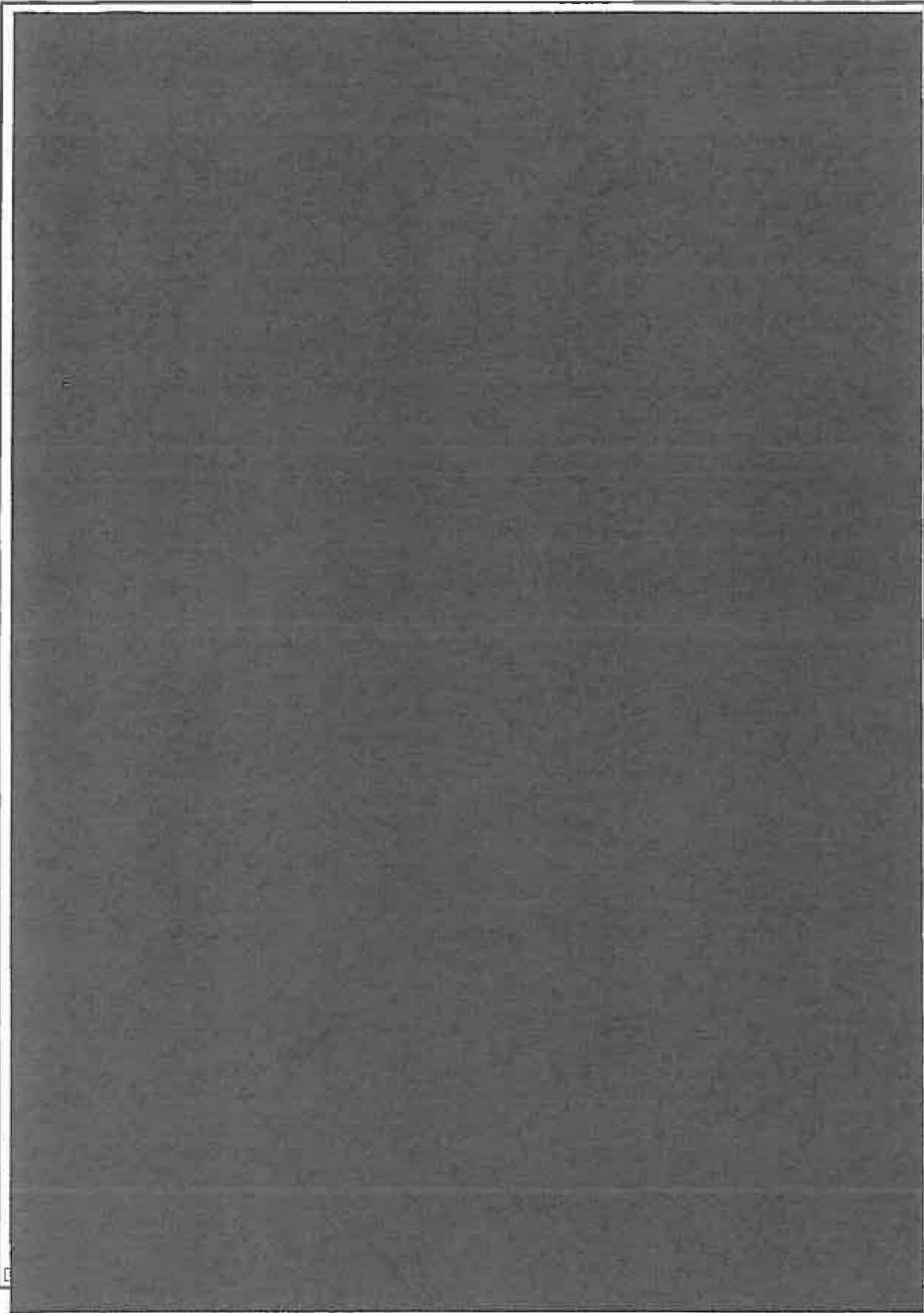


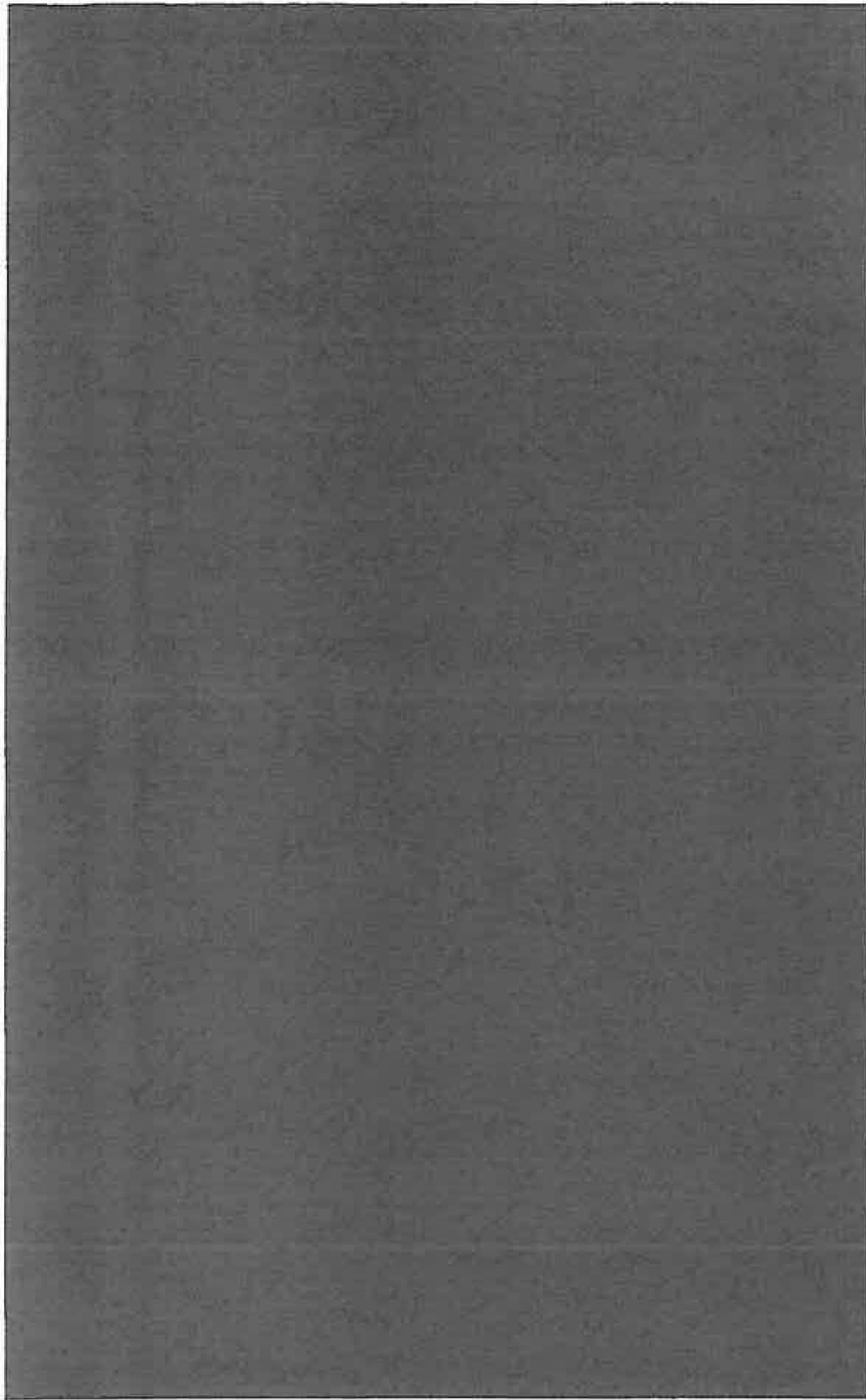
**APPENDIX I
SOMERSET DAM
PLANS, MAPS AND PHOTOGRAPHS**



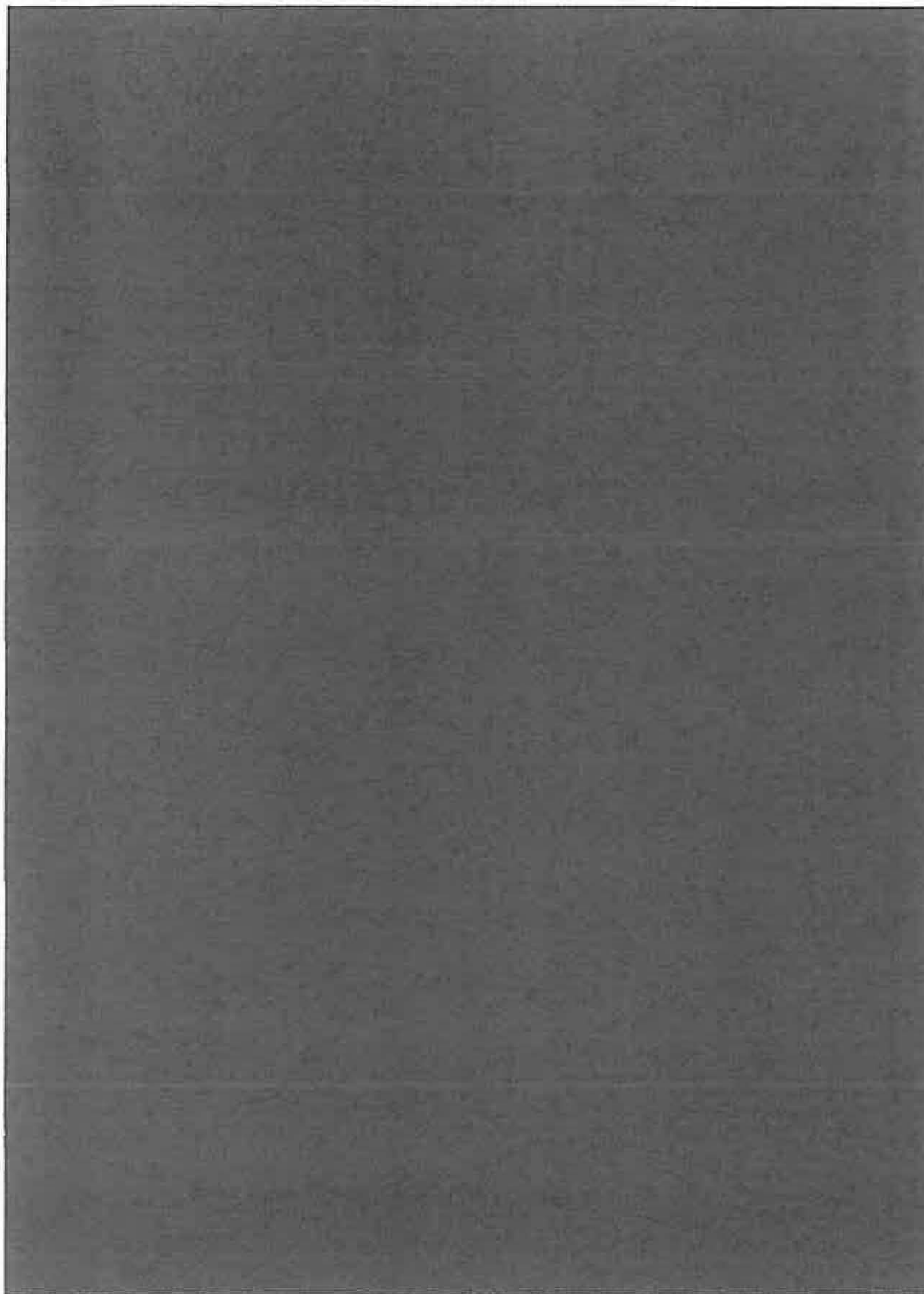


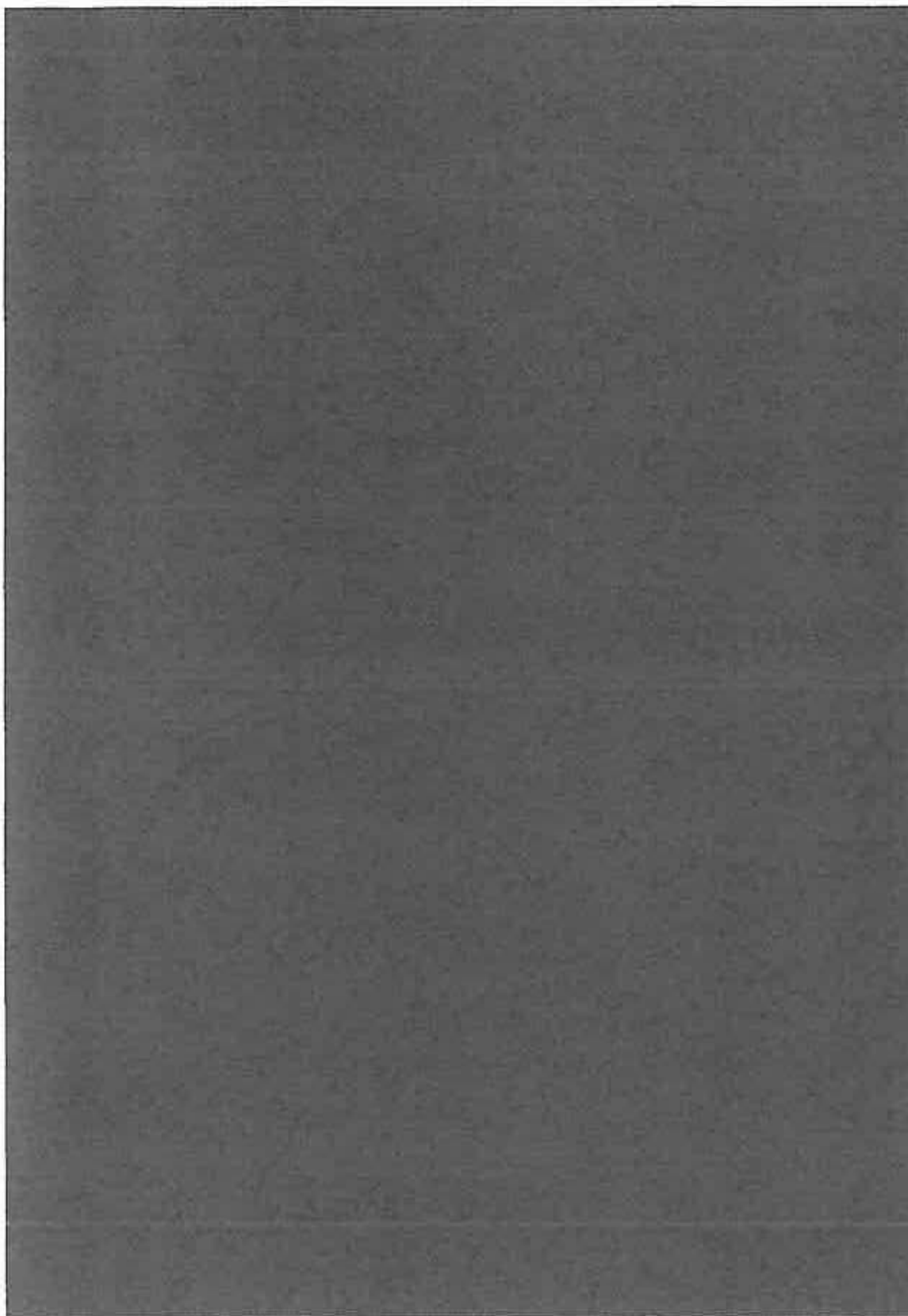


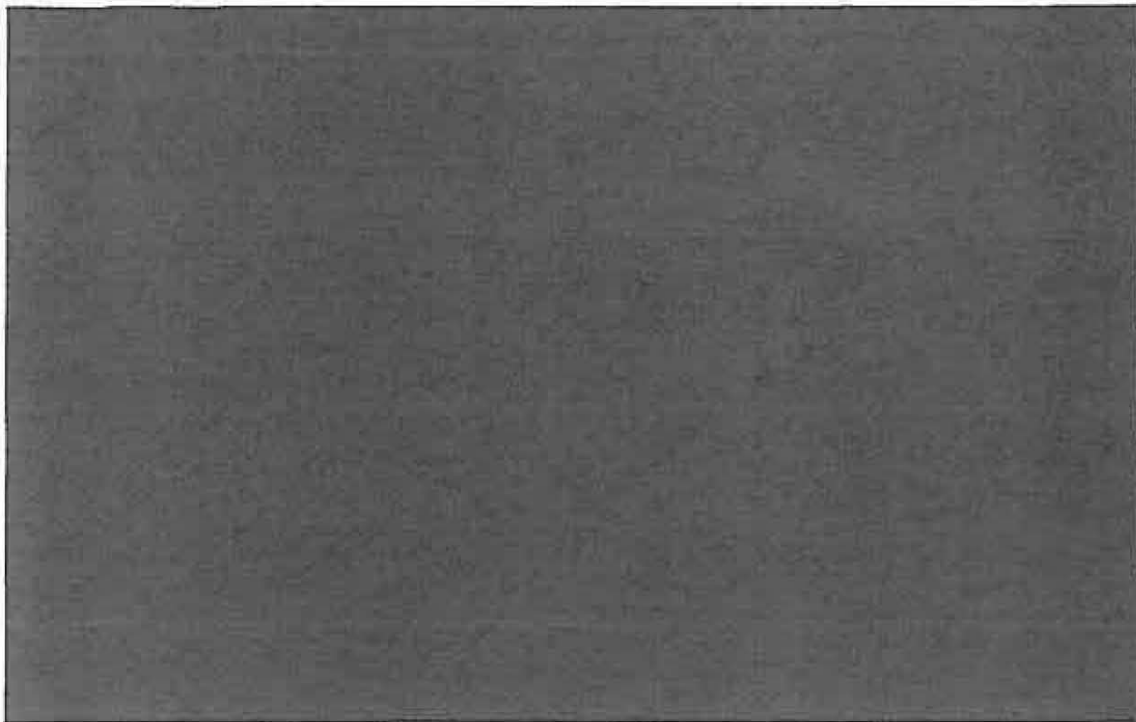


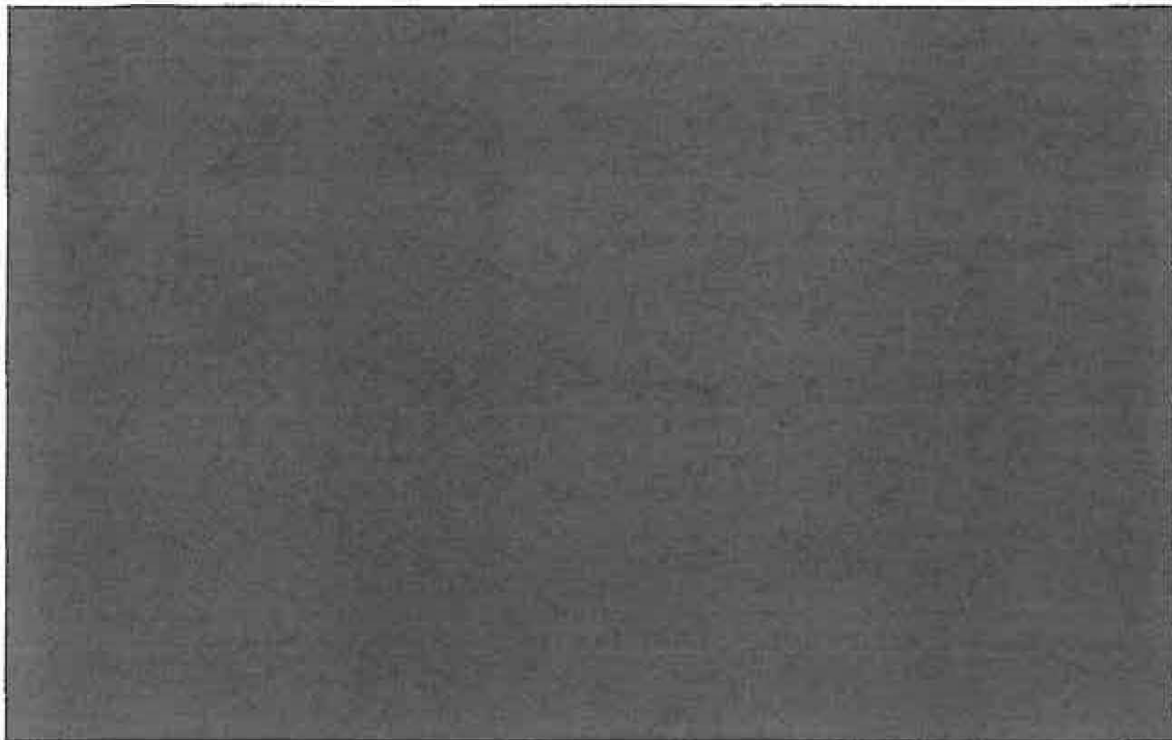


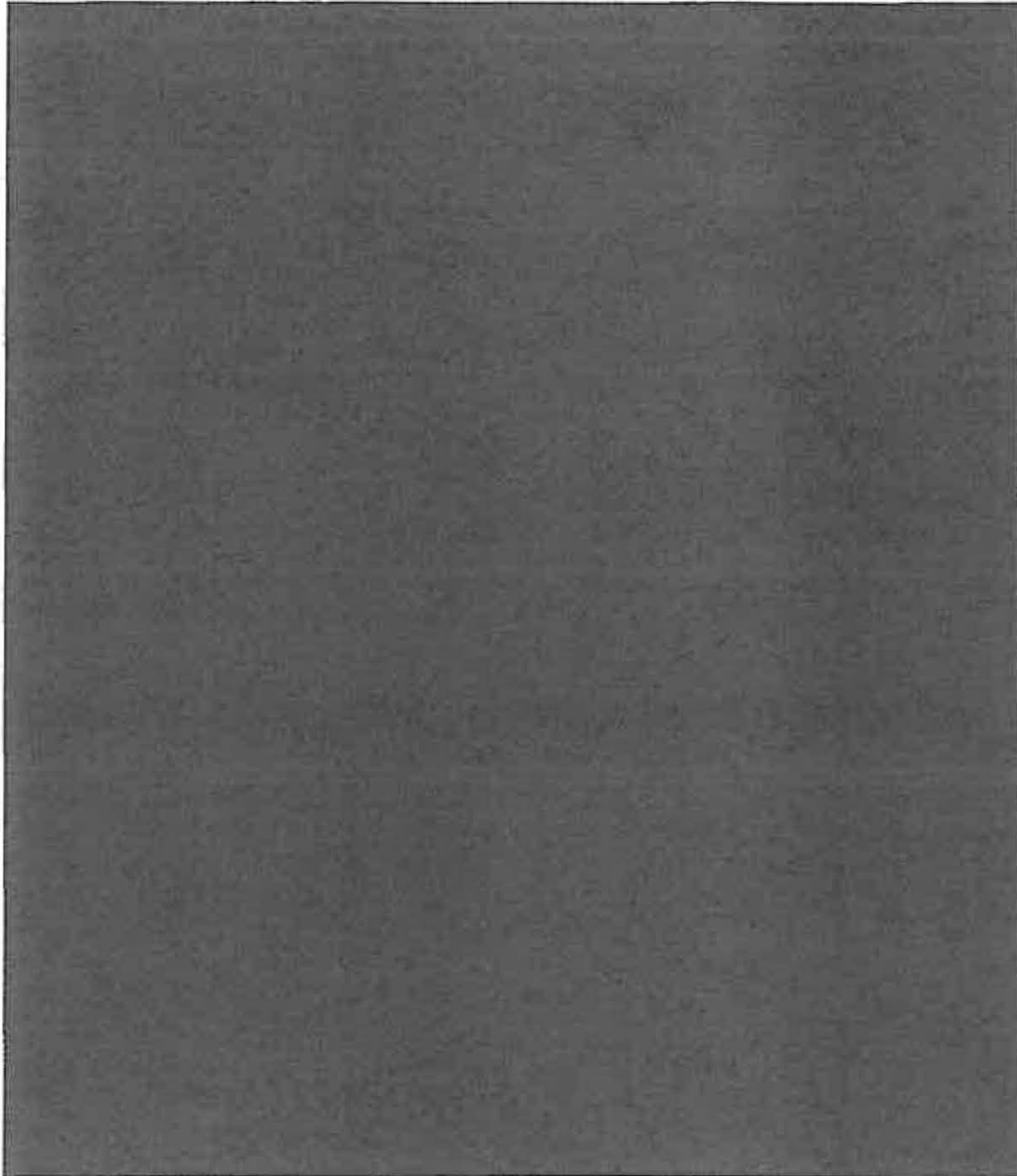
APPENDIX J
WIVENHOE DAM – FUSE PLUG BREACH SCENARIOS

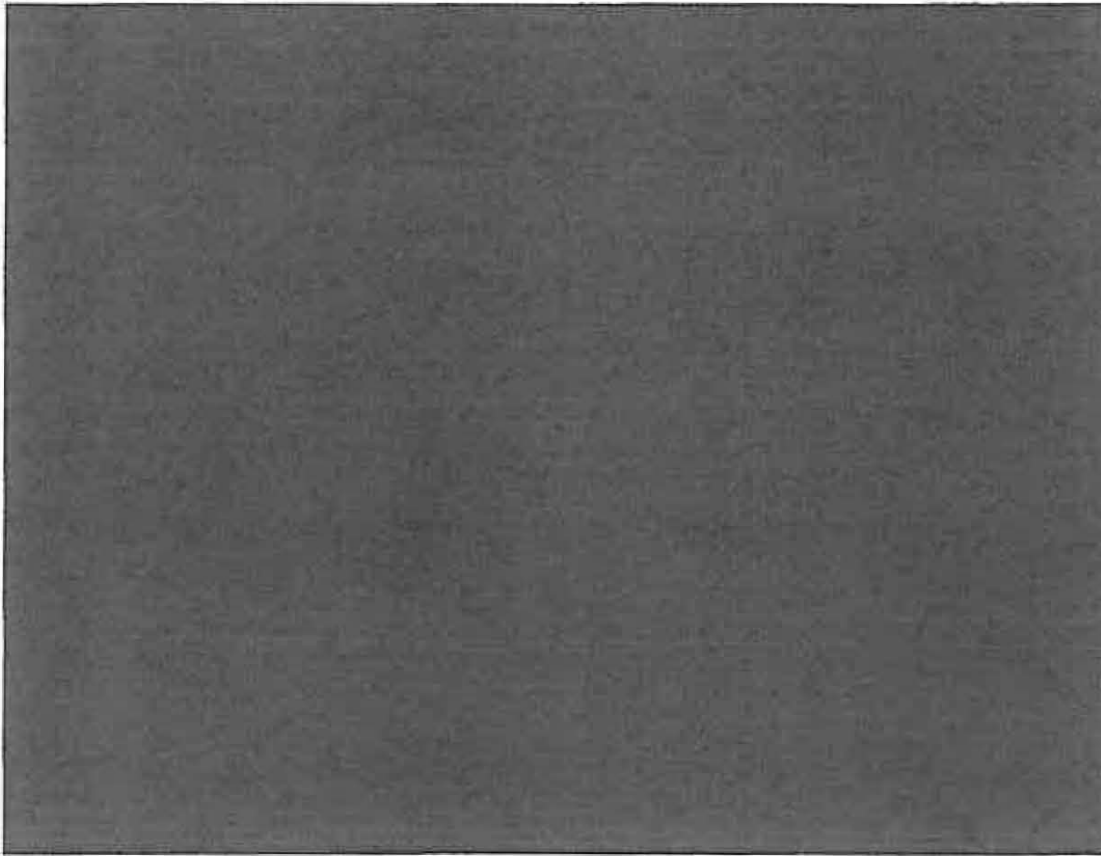




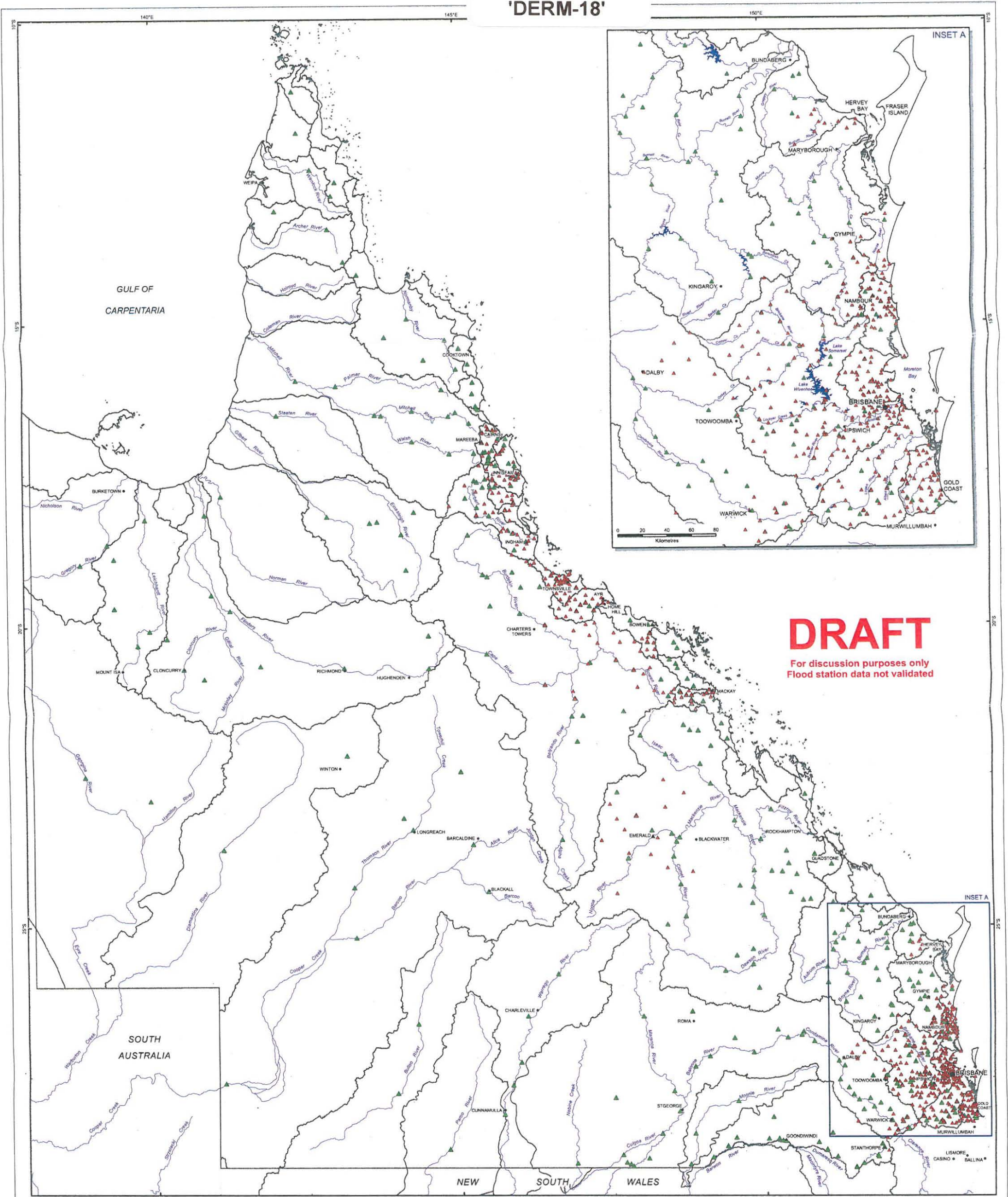






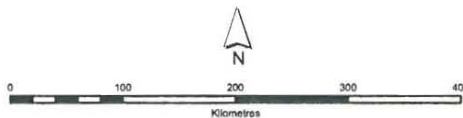


'DERM-18'



Department of Environment and Resource Management (DERM) Streamflow Gauging Stations and Bureau of Meteorology (BoM) Flood Alert Stations

Publication date: 23 February 2011



Projection: Unprojected Geographic
Horizontal Datum: Geocentric Datum of Australia 1994 (GDA94)

Legend

- ▲ BoM and council flood alert stations (real-time data via radio telemetry)
- ▲ DERM gauging stations
- Population centre
- River / creek
- ⬡ Drainage basin

Note: The locations of the Bureau of Meteorology (BoM) and council flood stations shown on this map were sourced directly from the BoM website (www.bom.gov.au) and have not been validated.

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	A	B	C	D	E	F	G
1	Disaster Management Maps						
2	FILE NAME	Town / Region Name	MAP TITLE	Flood or Yasi	Completed	PDF	Product Series Name
3	Brisbane 2009 20110207 700x1000 Map1 10Jan11opt	Brisbane	Brisbane City - 2009	Flood	17/02/2011	PDF	2011 Queensland pre-flood town maps
4	Brisbane 2009 20110207 700x1000 Map2 10Jan11_opt	Brisbane	Brisbane City - 2009	Flood	17/02/2011	PDF	2011 Queensland pre-flood town maps
5	Brisbane 2011 Flood 20110207 700x1000 Map1 10Jan11_opt	Brisbane	Brisbane City - 2011 Flood	Flood	17/02/2011	PDF	2011 Queensland flood town maps
6	Brisbane 2011 Flood 20110207 700x1000 Map2 10Jan11_opt	Brisbane	Brisbane City - 2011 Flood	Flood	17/02/2011	PDF	2011 Queensland flood town maps
7	Condamine 2009 20110210 Scale 2500 Optimised	Condamine	Town of Condamine - 2009	Flood	16/02/2011	PDF	2011 Queensland pre-flood town maps
8	Condamine 2009 20110210 Scale 7500 Optimised	Condamine	Town of Condamine - 2009	Flood	16/02/2011	PDF	2011 Queensland pre-flood town maps
9	Condamine 2011 20110210 Flood Scale 2500 Optimised	Condamine	Town of Condamine - 2011 Flood	Flood	16/02/2011	PDF	2011 Queensland flood town maps
10	Condamine 2011 Flood 20110210 Scale 7500 Optimised	Condamine	Town of Condamine - 2011 Flood	Flood	16/02/2011	PDF	2011 Queensland flood town maps
11	Dirranbandi 2009 optimised	Dirranbandi	Town of Dirranbandi - 2009	Flood	22/02/2011	PDF	2011 Queensland pre-flood town maps
12	Dirranbandi 2011 Flood Optimised	Dirranbandi	Town of Dirranbandi - 2011 Flood	Flood	22/02/2011	PDF	2011 Queensland flood town maps
13	Emerald 2010 Flood 20110208 700x1000 Optimised	Emerald	Town of Emerald - 2010 Flood	Flood	16/02/2011	PDF	2011 Queensland flood town maps
14	Emerald 2009 20110208 700x1000 Optimised	Emerald	Town of Emerald - 2009	Flood	16/02/2011	PDF	2011 Queensland pre-flood town maps
15	Goondiwindi 2009 20110210 Optimised	Goondiwindi	Town of Goondiwindi - 2009	Flood	17/02/2011	PDF	2011 Queensland pre-flood town maps
16	Goondiwindi 2011 Flood 20110210 optimised	Goondiwindi	Town of Goondiwindi - 2011 Flood	Flood	17/02/2011	PDF	2011 Queensland flood town maps
17	Grantham 2009 20110208 700x1000 Landscape Optimised	Grantham	Town of Grantham - 2009	Flood	23/02/2011	PDF	2011 Queensland pre-flood town maps
18	Grantham 2011 Flood 20110208 700x1000 Landscape Optimised	Grantham	Town of Grantham - 2011 Flood	Flood	23/02/2011	PDF	2011 Queensland flood town maps
19	Helidon 2009 Landscape optimised	Helidon	Town of Helidon - 2009	Flood	23/02/2011	PDF	2011 Queensland pre-flood town maps
20	Helidon 2011 Flood Landscape optimised	Helidon	Town of Helidon - 2011 Flood	Flood	23/02/2011	PDF	2011 Queensland flood town maps
21	Jandowae 2009 Scale8000 20110211 700x1000 optimised	Jandowae	Town of Jandowae - 2009	Flood	17/02/2011	PDF	2011 Queensland pre-flood town maps
22	Jandowae 2011 Flood Scale8000 20110211 700x1000 optimised	Jandowae	Town of Jandowae - 2011 Flood	Flood	17/02/2011	PDF	2011 Queensland flood town maps
23	Jondaryan 2009 Scale10000 20110221 700x1000 optimised	Jondaryan	Town of Jondaryan - 2009	Flood	21/02/2011	PDF	2011 Queensland pre-flood town maps
24	Jondaryan 2011 Flood Scale10000 20110221 700x1000 optimised	Jondaryan	Town of Jondaryan - 2011 Flood	Flood	21/02/2011	PDF	2011 Queensland flood town maps
25	Kingaroy 2009 Optimised	Kingaroy	Town of Kingaroy - 2009	Flood	21/02/2011	PDF	2011 Queensland pre-flood town maps
26	Kingaroy 2010 Flood Optimised	Kingaroy	Town of Kingaroy - 2010 Flood	Flood	21/02/2011	PDF	2011 Queensland flood town maps
27	LockyerValleyEast 2009 Landscape optimised	Lockyer Valley	Lockyer Valley East - 2009	Flood	22/02/2011	PDF	2011 Queensland pre-flood town maps
28	LockyerValleyEast 2011 Flood Landscape optimised	Lockyer Valley	Lockyer Valley East - 2011 Flood	Flood	23/02/2011	PDF	2011 Queensland flood town maps
29	LockyerValleyWest 2009 Landscape optimised	Lockyer Valley	Lockyer Valley West - 2009	Flood	23/02/2011	PDF	2011 Queensland pre-flood town maps
30	LockyerValleyWest 2011 Flood Landscape optimised	Lockyer Valley	Lockyer Valley West - 2011 Flood	Flood	23/02/2011	PDF	2011 Queensland flood town maps
31	Moura 2009 Optimised	Moura	Town of Moura - 2009	Flood	21/02/2011	PDF	2011 Queensland pre-flood town maps
32	Moura 2010 Flood Optimised	Moura	Moura - 2010 Flood	Flood	21/02/2011	PDF	2011 Queensland flood town maps
33	MurphysCreek 2009 Landscape optimised	Murphys creek	Town of Murphys Creek - 2009	Flood	23/02/2011	PDF	2011 Queensland pre-flood town maps
34	MurphysCreek 2011 Flood Landscape Optimised	Murphys creek	Town of Murphys Creek - 2011 Flood	Flood	23/02/2011	PDF	2011 Queensland flood town maps
35	StGeorge 2009 20110209 700x1000 Optimised	St George	Town of St George - 2009	Flood	16/02/2011	PDF	2011 Queensland pre-flood town maps
36	StGeorge 2011 Flood 20110208 700x1000 Optimised	St George	Town of St George - 2011 Flood	Flood	16/02/2011	PDF	2011 Queensland flood town maps
37	Surat Flood 2011 Scale9000 20110218 700x1000 optimised	Surat	Town of Surat - 2011 Flood	Flood	16/02/2011	PDF	2011 Queensland flood town maps
38	Surat 2009 Scale9000 20110214 700x1000 optimised	Surat	Town of Surat - 2009	Flood	16/02/2011	PDF	2011 Queensland pre-flood town maps
39	Talwood 2009 09022011 700x1000 Optimised	Talwood	Town of Talwood - 2009	Flood	16/02/2011	PDF	2011 Queensland pre-flood town maps
40	Talwood 2011 Flood 09022011 700x1000 Optimised	Talwood	Town of Talwood - 2011 Flood	Flood	16/02/2011	PDF	2011 Queensland flood town maps
41	Thallon 2009 10022011 Optimised	Thallon	Town of Thallon - 2009	Flood	16/02/2011	PDF	2011 Queensland pre-flood town maps
42	Thallon Flood 2011 10022011 Optimised	Thallon	Town of Thallon - Flood 2011	Flood	16/02/2011	PDF	2011 Queensland flood town maps
43	Theodore 2009 20110208 700x1000 Optimised	Theodore	Town of Theodore - 2009	Flood	16/02/2011	PDF	2011 Queensland pre-flood town maps
44	Theodore 2011 Flood 20110209 700x1000 Optimised	Theodore	Town of Theodore - 2011 Flood	Flood	16/02/2011	PDF	2011 Queensland flood town maps

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QUEENSLAND FLOODS COMMISSION OF INQUIRY

DEPARTMENT SUBMISSIONS FOR STATE OF QUEENSLAND

Department of Environment and Resource Management (DERM)

ATTACHMENT DERM-18 WEBLINKS

DERM Links – Publicly available

Corporate Brochure

http://www.derm.qld.gov.au/about/organisation/pdf/corporate_brochure.pdf

Flood Mitigation Manual for a Dam

http://www.derm.qld.gov.au/about/policy/documents/3991/wir_2009_3991.pdf

Spatial Information

http://www.derm.qld.gov.au/services_resources/category.php?class_id=8

OCC – Report

<http://www.climatechange.qld.gov.au/pdf/gayndah-policy-report.pdf>

Flood Risk Management

http://www.derm.qld.gov.au/water/regulation/flood_risk_management.html

Water Resource Plans and Resource Operations Plans

<http://www.derm.qld.gov.au/wrp/catchments.html>

Resource Operations Licences and Interim Resource Operations Licences

http://www.derm.qld.gov.au/water/management/rols_irols.html

Other Entity Links – Publicly available

Murray Darling Basin

<http://www.mdba.gov.au/>

<http://www.nwc.gov.au/www/html/20-other-water-initiatives.asp>

National Flood Risk Advisory Group (NFRAG)

<http://www.ga.gov.au/hazards/governance/national-committees-hazards/national-flood-risk-advisory-group.html>

National Water Initiative

<http://www.nwc.gov.au/www/html/117-national-water-initiative.asp>

<http://www.nwc.gov.au/resources/documents/Intergovernmental-Agreement-on-a-national-water-initiative.pdf>

National Water Commission

<http://www.nwc.gov.au/www/html/7-home-page.asp>

Water for the Future

<http://www.environment.gov.au/water/australia/index.html>

Australia's Biodiversity Conservation

<http://www.environment.gov.au/biodiversity/>

<http://www.environment.gov.au/biodiversity/publications/strategy-2010-30/index.html>

Bureau of Meteorology

www.bom.gov.au

Emergency Management Queensland

<http://www.emergency.qld.gov.au/emq>

State Counter Disaster Plan

http://www.health.qld.gov.au/emerg_serv/default.asp

State Disaster Management Group

www.disaster.qld.gov.au

Webbe-Weller Review

<http://www.premiers.qld.gov.au/government/boards-committees/review/review-panel.aspx>

http://www.derm.qld.gov.au/water/regulation/webbe_weller/index.html

QUEENSLAND FLOODS
COMMISSION OF INQUIRY

DEPARTMENT SUBMISSIONS FOR STATE OF QUEENSLAND

Department of Environment and Resource Management (DERM)

SEQWB (South East Queensland Water Board) 1993 Study (Commercial in Confidence) Volume Index

SEQWB (South East Queensland Water Board) 1993 Study (Commercial in Confidence)

REPOR	Title	Date
1	REAL TIME FLOOD OPERATIONS MODEL REPORT Report on the Feasibility of a Real Time Flood Warning Model.	Nov-90
2	BRISBANE RIVER AND PINE RIVER HYDRAULIC MODEL REPORT Report on Review and Evaluation of Hydraulic Models.	Nov-90
3	REAL TIME FLOOD OPERATIONS MODEL REPORT Report on the Evaluation of Available Hardware Platforms.	May-91

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4a	PINE RIVER FLOOD HYDROLOGY REPORT VOLUME I Report on Runoff-Routing Model Calibration.	Aug-91
4b	PINE RIVER FLOOD HYDROLOGY REPORT VOLUME II Report on Design Flood Estimation.	Aug-91
4c	PINE RIVER FLOOD HYDROLOGY REPORT VOLUME III Appendix A Runoff-Routing Model Data files Appendix B Bureau of Meteorology PMP Report	Aug-91
5	PINE RIVER FLOOD HYDROLOGY REPORT Report on North Pine Dam -Post Dam Flood Frequency Analysis.	December 1991
6	BRISBANE RIVER AND PINE RIVER FLOOD HYDROLOGY REPORT Report on Warragamba Dam EIS Flood Study.	Apr-92
7a	BRISBANE RIVER FLOOD HYDROLOGY REPORT VOLUME I Report on Runoff-Routing Model Calibration.	Sep-92
7b	BRISBANE RIVER FLOOD HYDROLOGY REPORT VOLUME II Appendix A Comparative Plots.	Sep-92
7c	BRISBANE RIVER FLOOD HYDROLOGY REPORT VOLUME III	Sep-92

Appendix B Runoff-Routing Model Layouts.

7d	BRISBANE RIVER FLOOD HYDROLOGY REPORT VOLUME IV Appendix C Runoff-Routing Model Data Files.	Sep-92
8a	BRISBANE RIVER FLOOD HYDROLOGY REPORT VOLUME I Report on Design Flood Estimation.	Mar-93
8b	BRISBANE RIVER FLOOD HYDROLOGY REPORT VOLUME II Appendix A Probable Maximum Precipitation Estimates.	Mar-93
8c	BRISBANE RIVER FLOOD HYDROLOGY REPORT VOLUME III Appendix B Flood Frequency Analysis Results.	Mar-93
8d	BRISBANE RIVER FLOOD HYDROLOGY REPORT VOLUME IV Appendix C Runoff-Routing Model Layouts.	Mar-93
9a	PINE RIVER SYSTEM HYDRAULIC MODEL REPORT VOLUME I Report on Model Calibration.	Apr-93
9b	PINE RIVER SYSTEM HYDRAULIC MODEL REPORT VOLUME II Appendix I Pine River Cross-Sectional Data	Apr-93
9c	PINE RIVER SYSTEM HYDRAULIC MODEL REPORT VOLUME III	Apr-93

Appendix II Lateral Inflows
Appendix III Time Series Plots

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