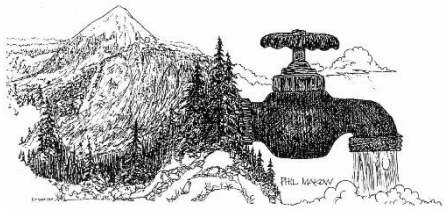
B. C. TAP WATER ALLIANCE

Caring for, Monitoring, and Protecting
British Columbia's Community Water Supply Sources
Email – info@bctwa.org
Websites – www.bctwa.org & www.bctwa.org/FrackingBC.html

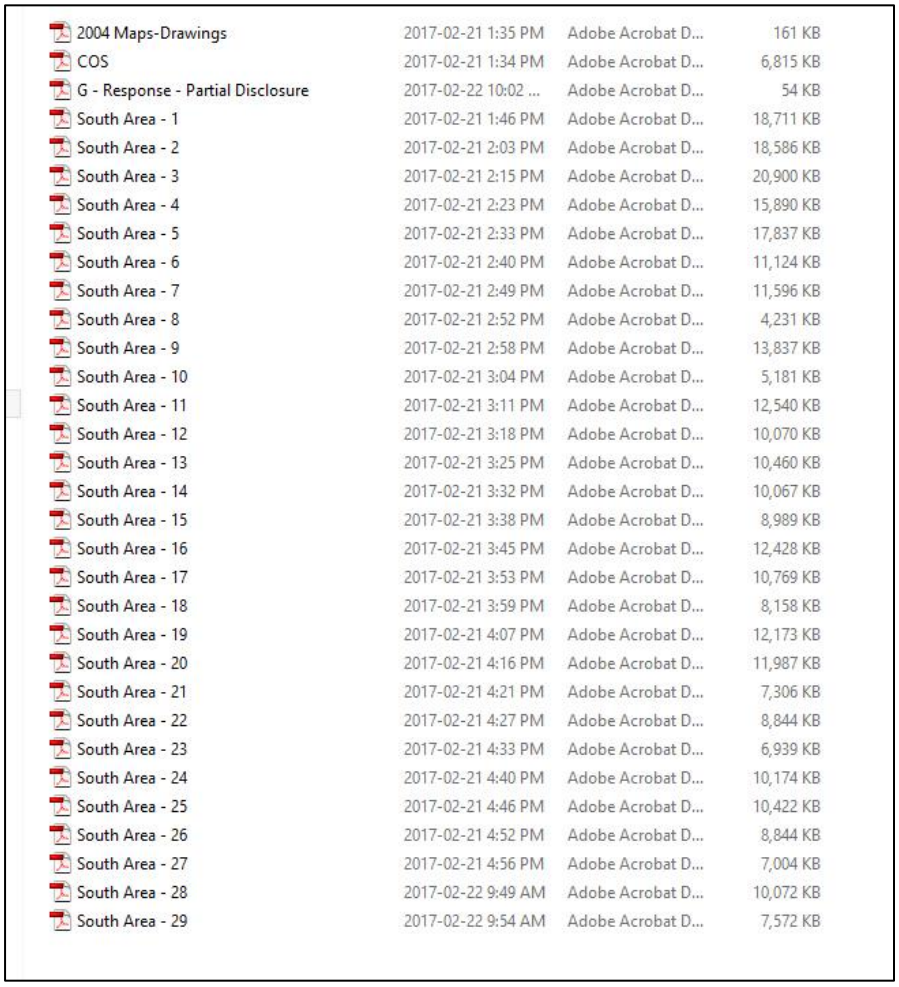


February 26, 2017 *Public Release*

COMPARISON OF DOCUMENTS:

Mt. Polley Review Panel Document Examples Released on January 30, 2015 with Mount Polley FOI (File: MOE-2016-60867) Examples

After submitting an FOI request in February 2016 for copies of the government's Mount Polley Mining Corporation documents, we eventually received the documents a year later, on February 22, 2017, all of which were contained on a computer disk.



2004 Maps-Drawings	2017-02-21 1:35 PM	Adobe Acrobat D...	161 KB
COS	2017-02-21 1:34 PM	Adobe Acrobat D...	6,815 KB
G - Response - Partial Disclosure	2017-02-22 10:02 ...	Adobe Acrobat D...	54 KB
South Area - 1	2017-02-21 1:46 PM	Adobe Acrobat D...	18,711 KB
South Area - 2	2017-02-21 2:03 PM	Adobe Acrobat D...	18,586 KB
South Area - 3	2017-02-21 2:15 PM	Adobe Acrobat D...	20,900 KB
South Area - 4	2017-02-21 2:23 PM	Adobe Acrobat D...	15,890 KB
South Area - 5	2017-02-21 2:33 PM	Adobe Acrobat D...	17,837 KB
South Area - 6	2017-02-21 2:40 PM	Adobe Acrobat D...	11,124 KB
South Area - 7	2017-02-21 2:49 PM	Adobe Acrobat D...	11,596 KB
South Area - 8	2017-02-21 2:52 PM	Adobe Acrobat D...	4,231 KB
South Area - 9	2017-02-21 2:58 PM	Adobe Acrobat D...	13,837 KB
South Area - 10	2017-02-21 3:04 PM	Adobe Acrobat D...	5,181 KB
South Area - 11	2017-02-21 3:11 PM	Adobe Acrobat D...	12,540 KB
South Area - 12	2017-02-21 3:18 PM	Adobe Acrobat D...	10,070 KB
South Area - 13	2017-02-21 3:25 PM	Adobe Acrobat D...	10,460 KB
South Area - 14	2017-02-21 3:32 PM	Adobe Acrobat D...	10,067 KB
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South Area - 29	2017-02-22 9:54 AM	Adobe Acrobat D...	7,572 KB

The approximately 17,000 pages of documents were grouped into a series of 30 oddly-named pdf files (see image to left).

We had to sort through all the pdf files to understand what documents were included in each, as FOI and government staff provided no explanation or guide to us to reference where the 2001 to 2010 *Annual Environmental and Reclamation Reports*, and the early annual *Water Management Plans*, were located.

We located the 2001, 2002, 2003, 2004, 2005, 2006, 2008, 2009, and 2010 *Annual Environmental and Reclamation Reports*, noting that **the 2007 Annual Report was not included, missing.** And, we found only one annual *Water Management Plan*, the one for 1998.

We also noted that the image quality of these FOI documents was poor to exceptionally poor, especially when comparing them to the very same documents released to the public on January 30, 2015 (with the release of the Mount Polley Review Panel report). Unlike the Mt. Polley FOI documents, the documents of January 30, 2015 were of high image quality.

Sample comparisons of these *Annual Environmental and Reclamation Report* documents are provided below. The first sample page for each successive reporting year, showing comparisons from the first page of the Table of Contents, clearly shows that the 2017 FOI documents are poorer in quality, and that the January 2015 documents have higher quality imagery.

The **Water Balance Data Tables** are also included for each *Annual Environmental and Reclamation Report* sampling, clearly showing that **none of them are legible**. As we explained throughout our December 2014 report, *The Scene of the Crime: A Preliminary Analysis and History of the Mount Polley Mine Tailings Storage Facility*, **the Water Balance Table data is critical for examining and understanding the operational life and proper function of the Tailing Storage Facility (TSF)**. Because that data is illegible in all the FOI material, it begs an obvious question concerning public obfuscation.

In May 2016, we were told that the Ministry of Mines had systematically scanned all the Mount Polley related documents prior to January 30, 2015, and we believe that those scanned documents were of high quality, as we show below in our example comparisons. We do not know why we did not receive the Ministry of Mines' high quality documents, and were instead provided with third or fourth rate generation copies.

In addition to the above stated concerns, the FOI documents also include poor quality reproductions of report photographs and images, infected within other numerous tables and figures, where the data imagery is faded and incomprehensible / illegible.

During the first week of March, 2017, the FOI department will release these poor image quality Mount Polley Mining Corporation documents to the public on its FOI website.

"We have been waiting for these documents for an entire year, and we are very disappointed in the results," notes Will Koop, BC Tap Water Alliance Coordinator. "Most of these documents are in fact "public" documents, and should not only have been provided for public review in libraries when those reports were published, but they should also have been provided to us ten months ago. Evidently, we must now wait even longer for the government to provide us with high quality and legible digital copies from the original report documents."

* ***NOTE:*** See our October 10, 2016 media release, **BC Government / F.O.I. Stalling on Mount Polley Mining Corporation Reports**, http://www.bctwa.org/PrRel-Oct10-2016-StallingOnReports.pdf, for more information.

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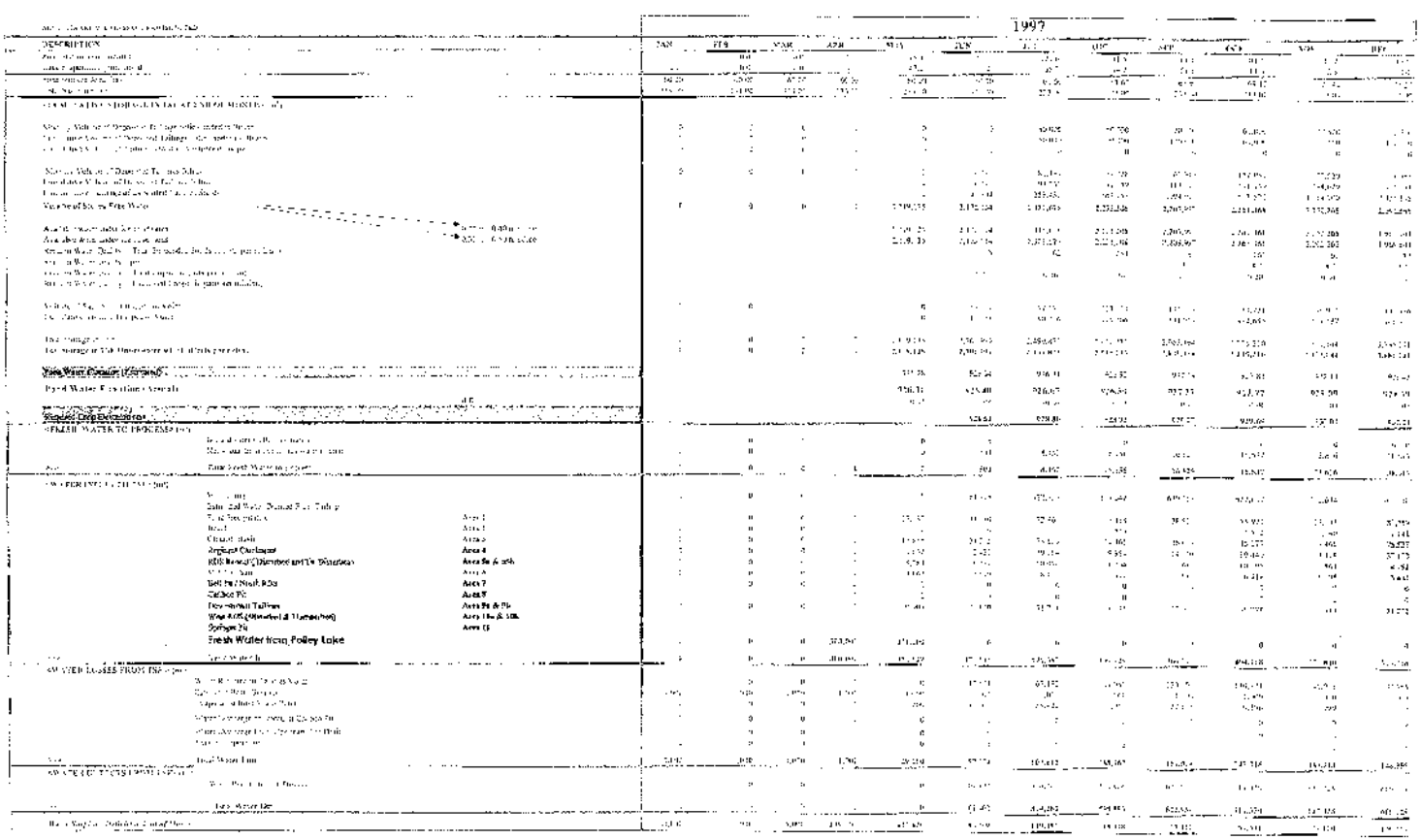
Annual Environmental and Reclamation Report 2001

Table 2.5.6-1

Waterbalance 1997 - 2003



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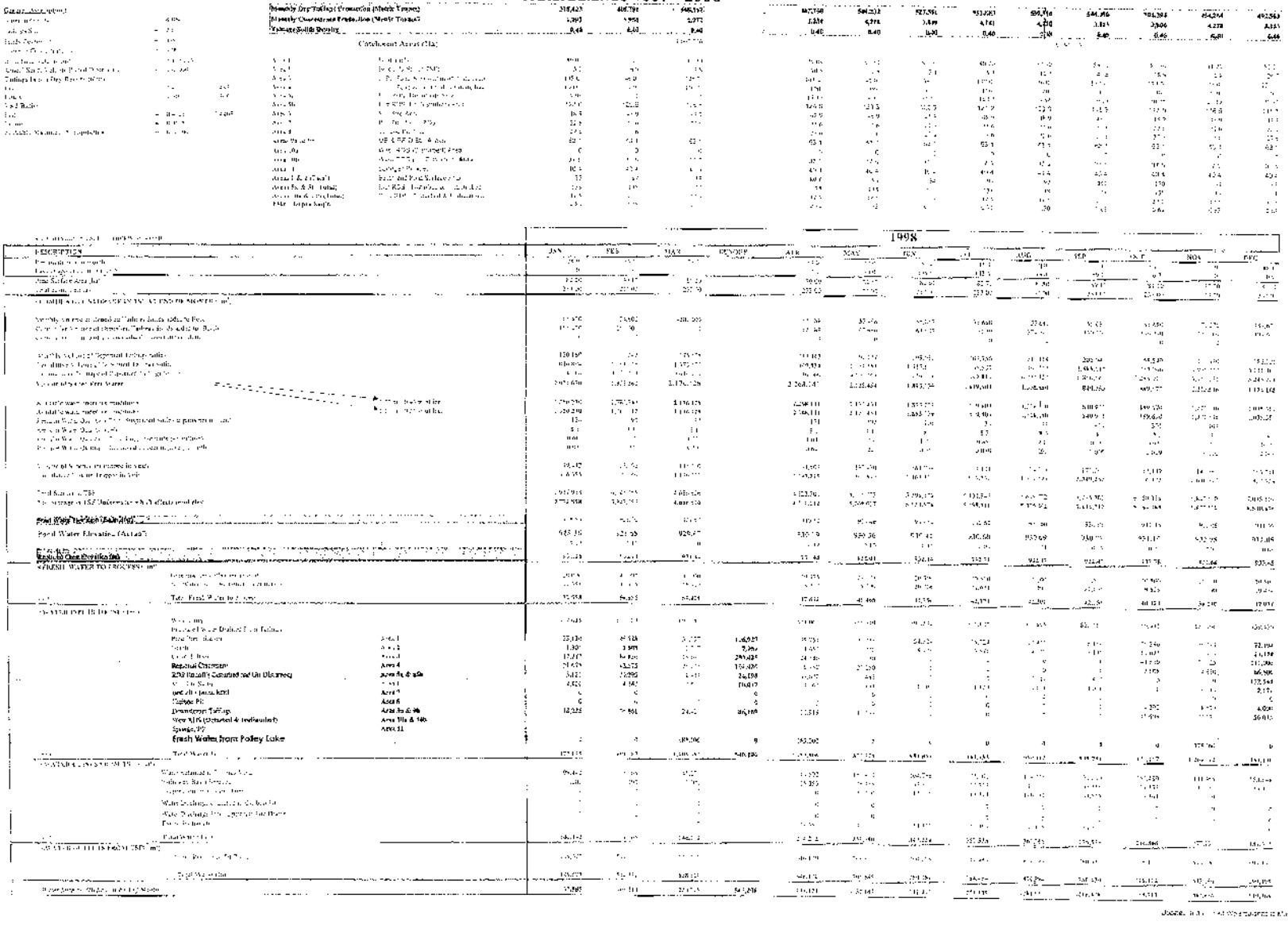
Waterbalance 1997 - 2003



1998

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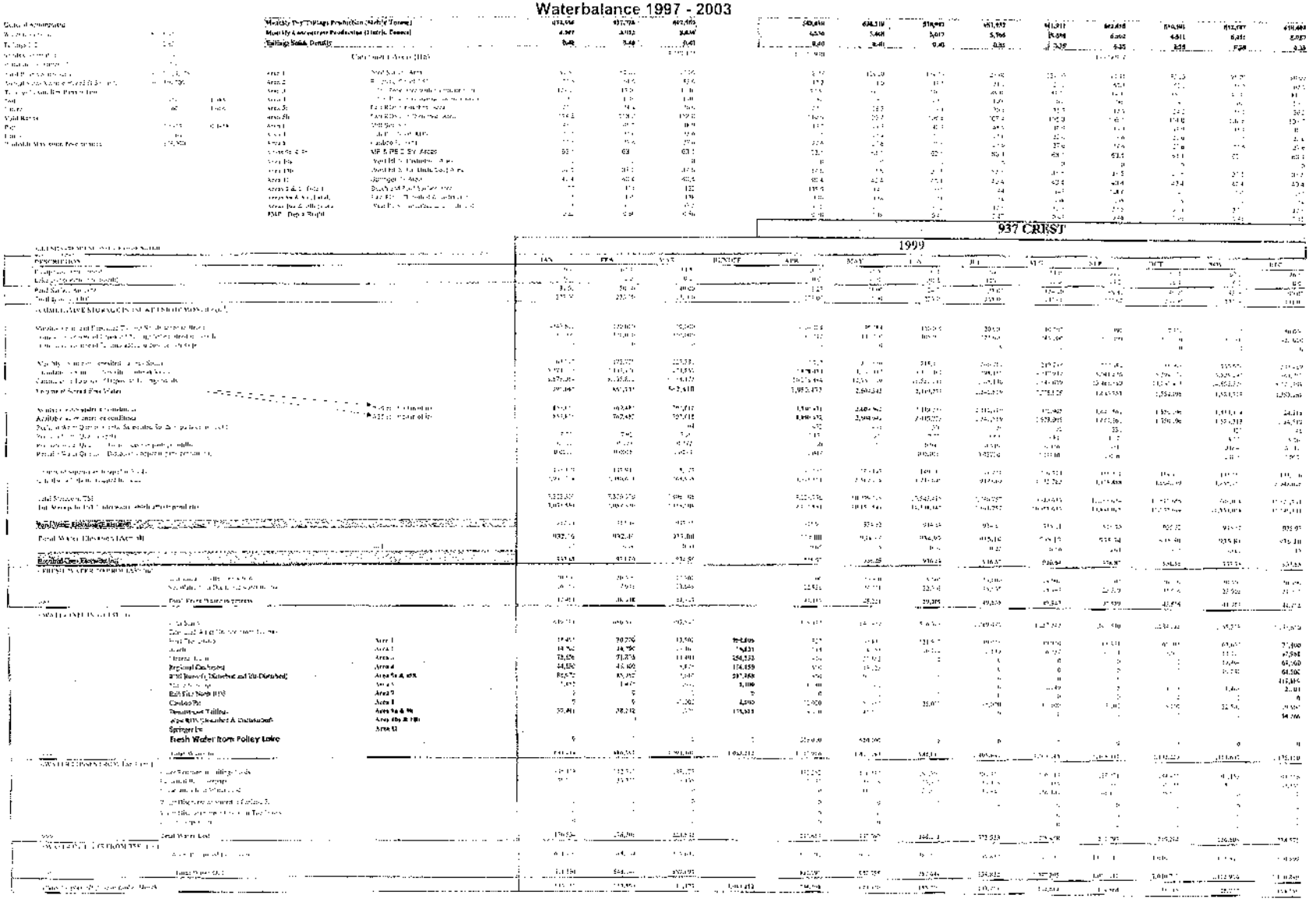
Waterbalance 1997 - 2003



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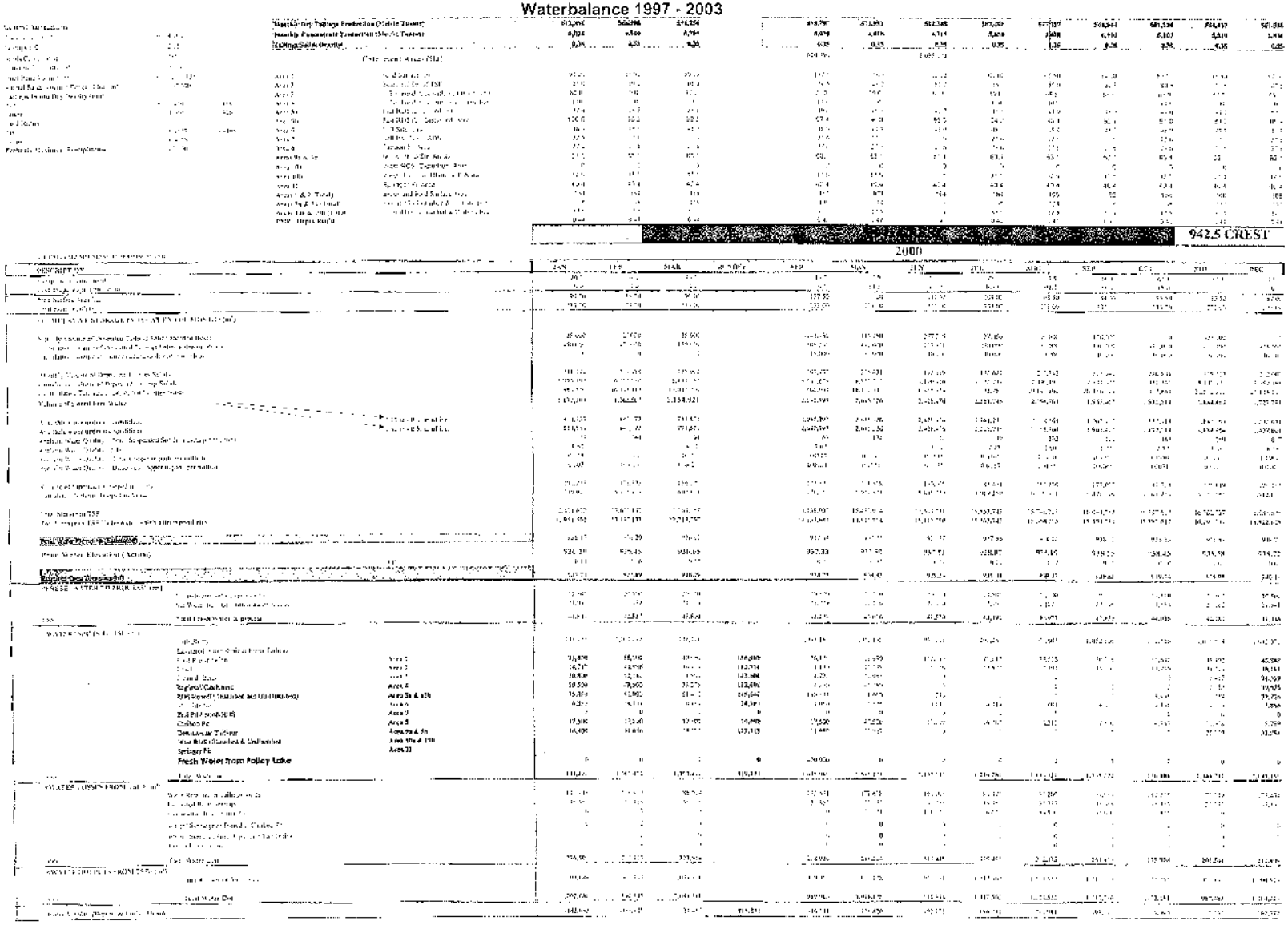
Waterbalance 1997 - 2003



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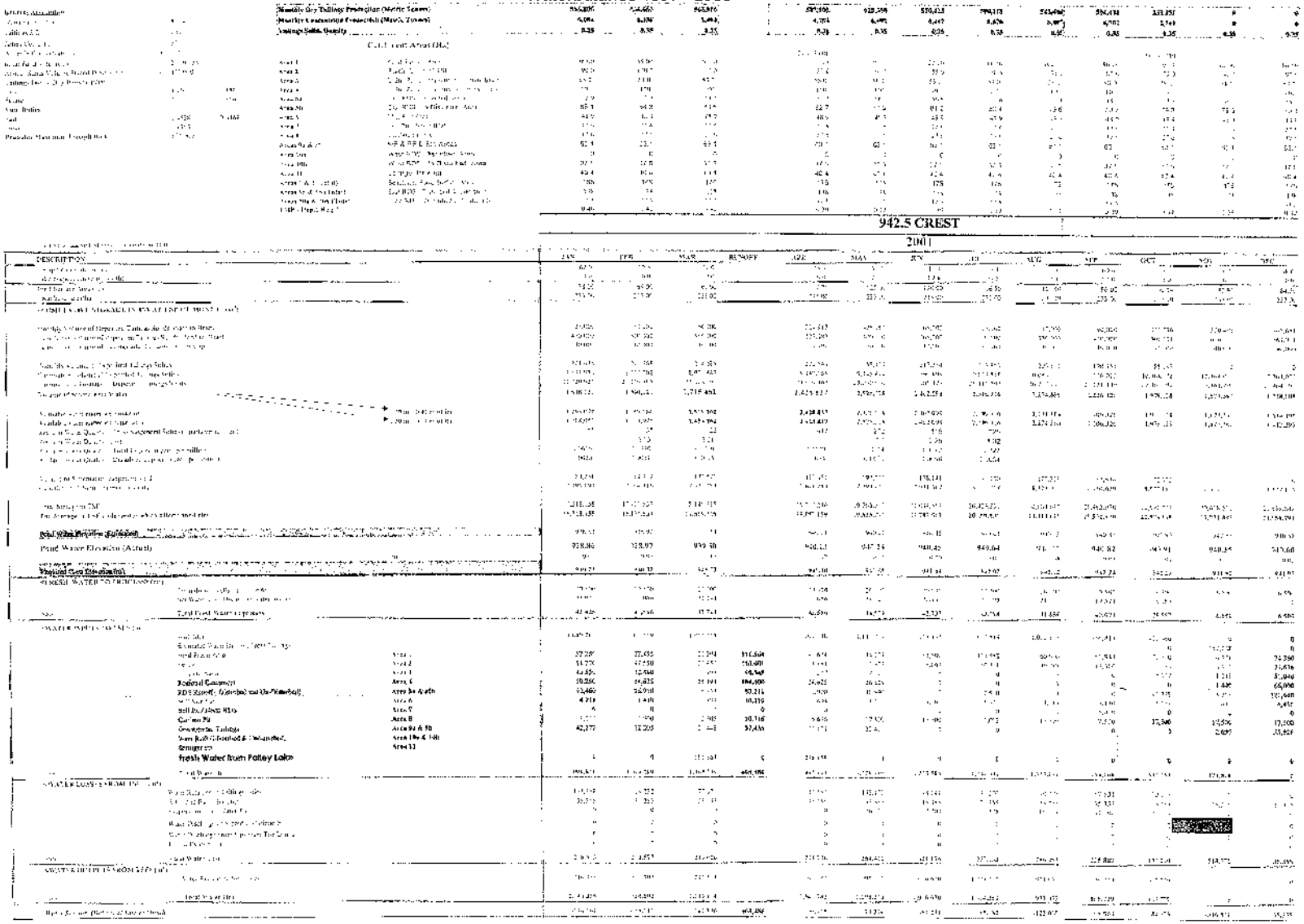
Waterbalance 1997 - 2003



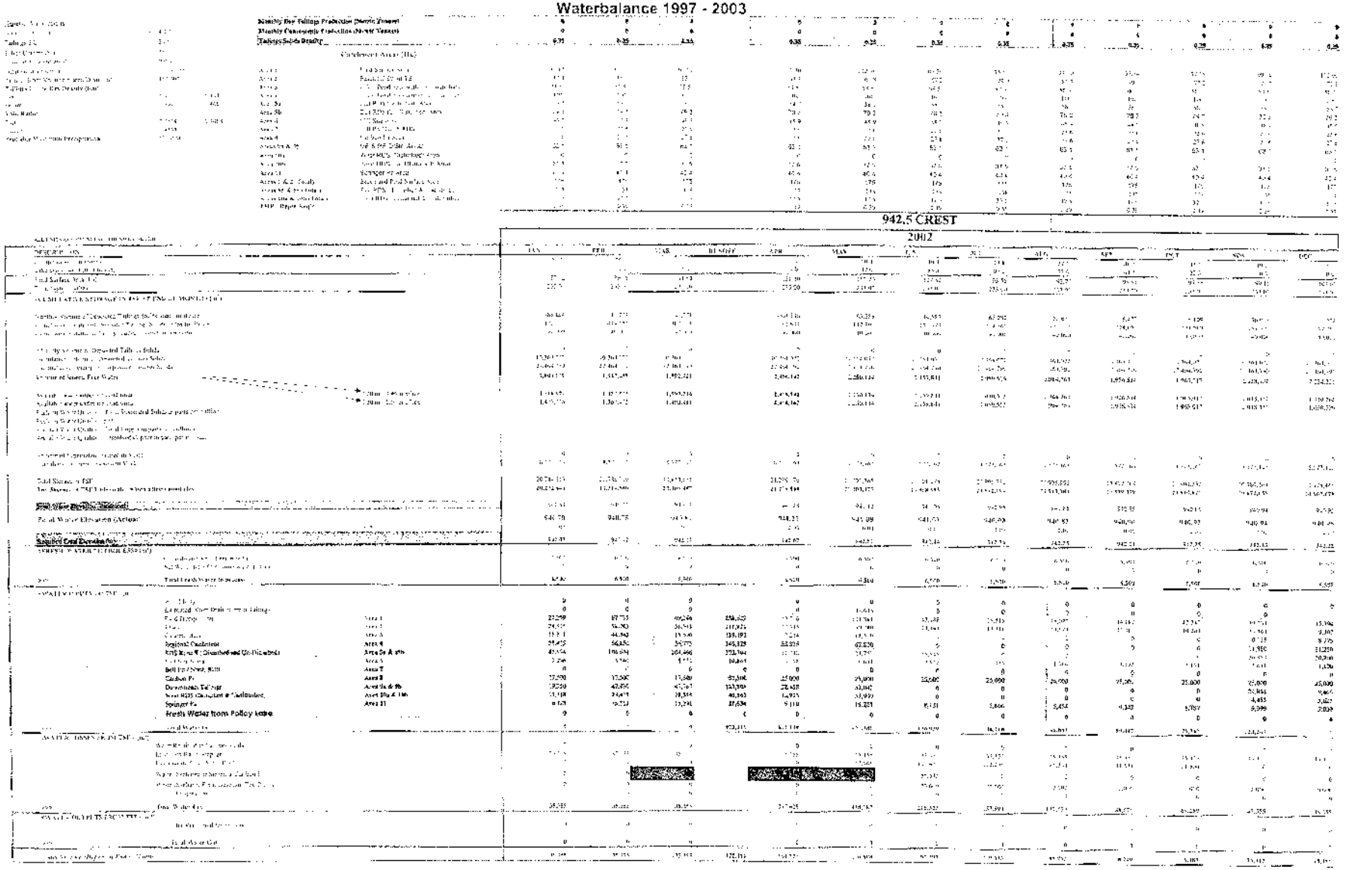
942.5 CREST

2001

9

Table 2.5.6-1

Waterbalance 1997 - 2003



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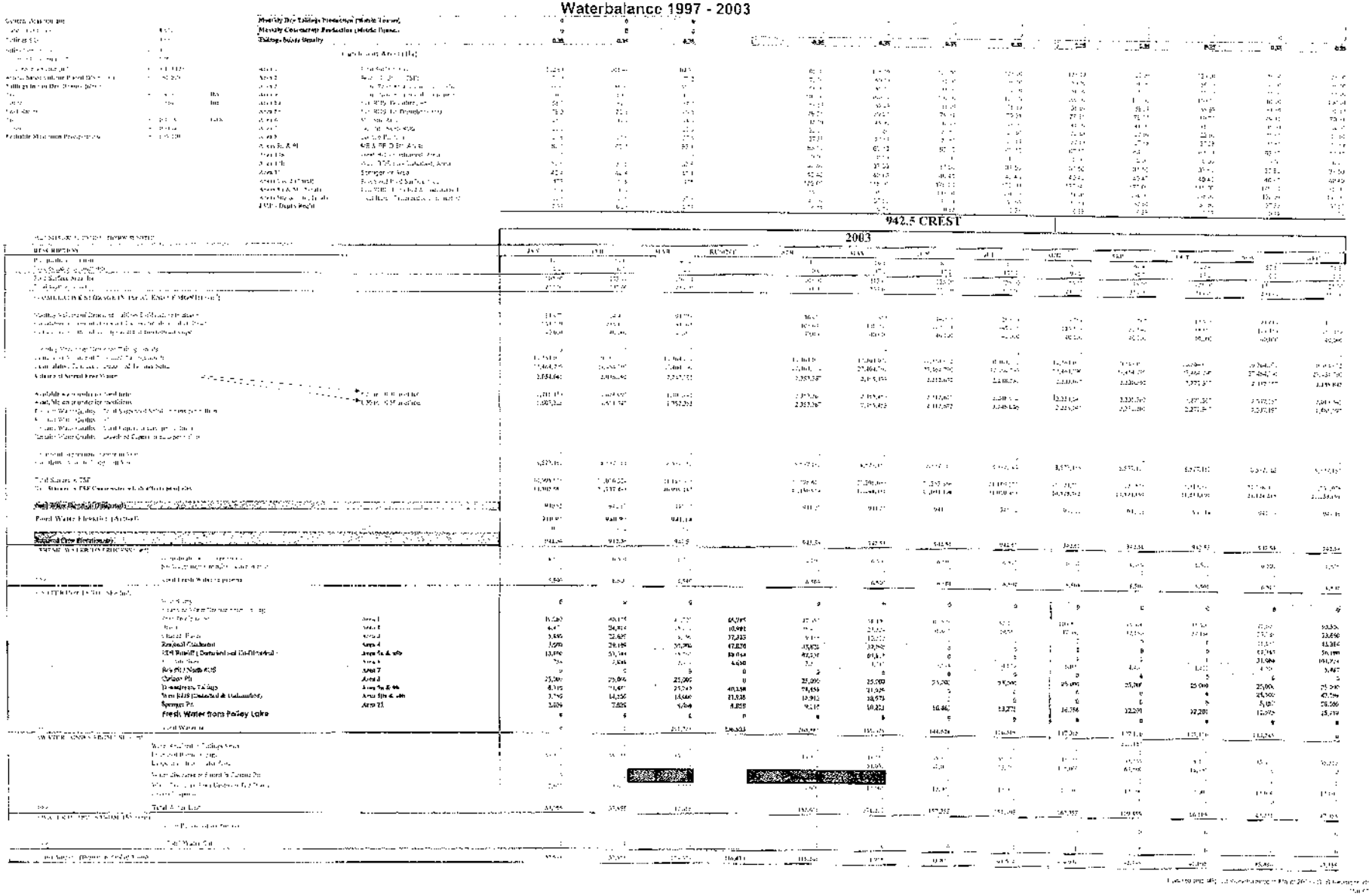
Waterbalance 1997 - 2003



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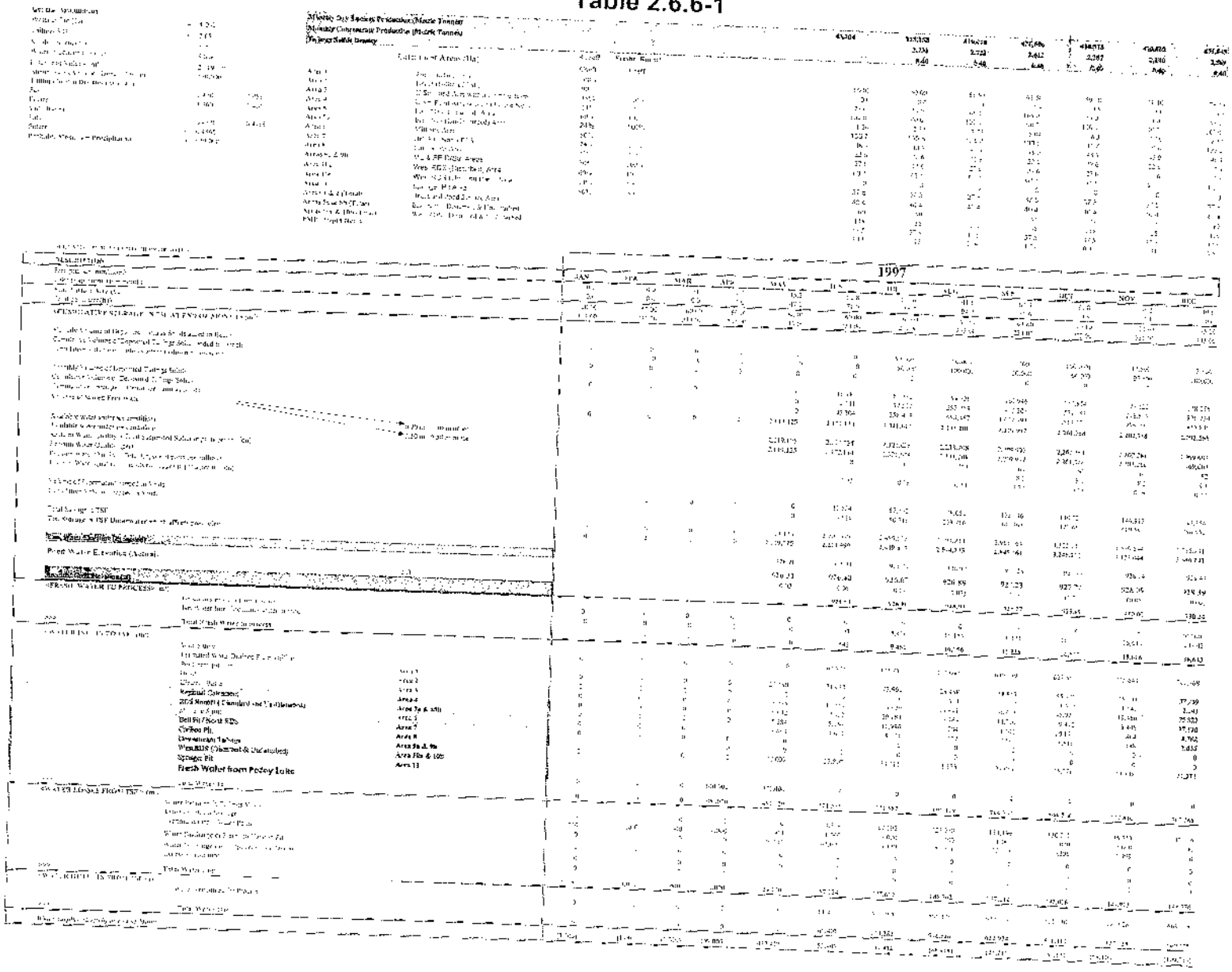
Annual Environmental and Reclamation Report 2002

Table 2.6.6-1



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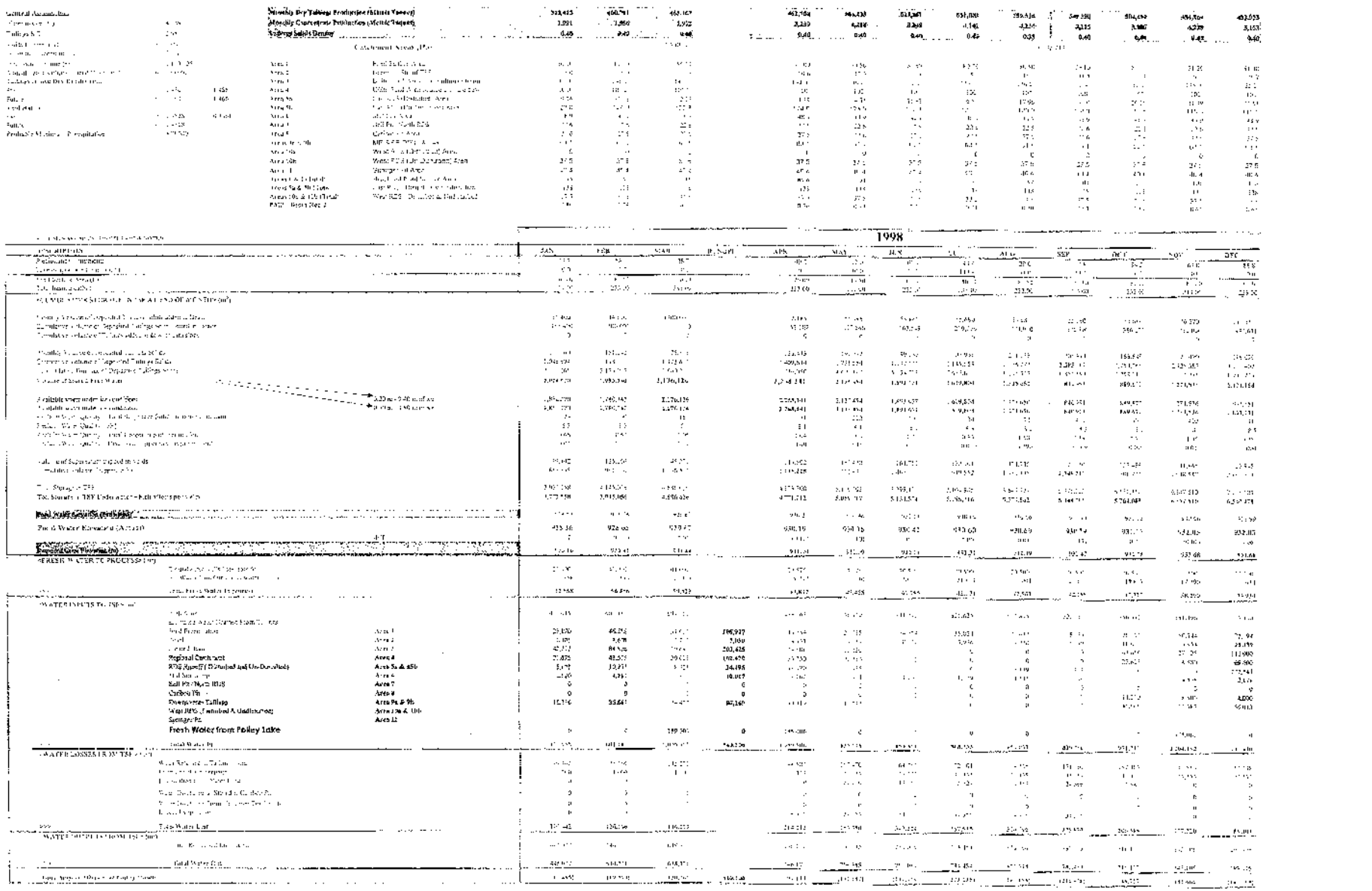

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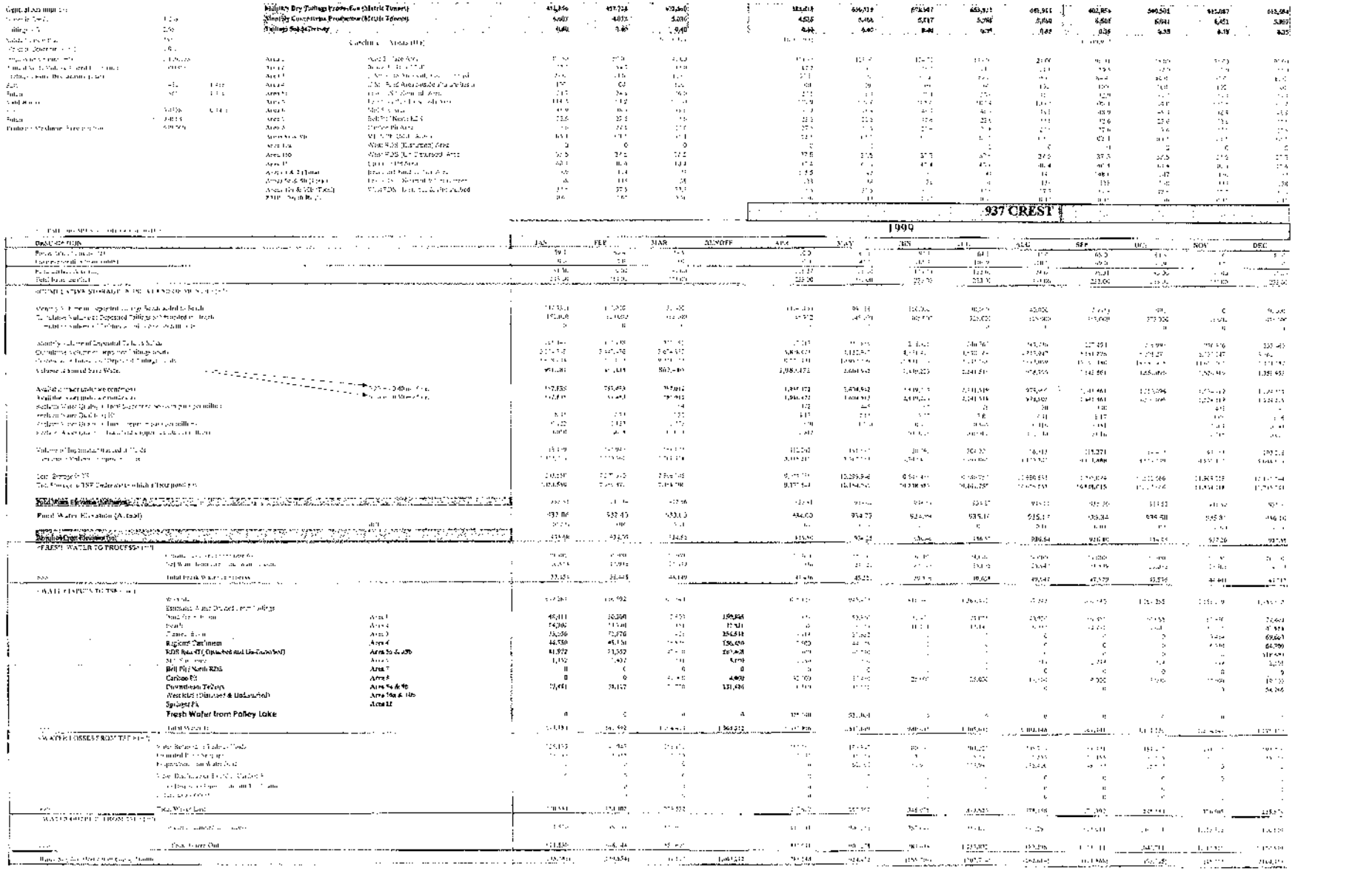

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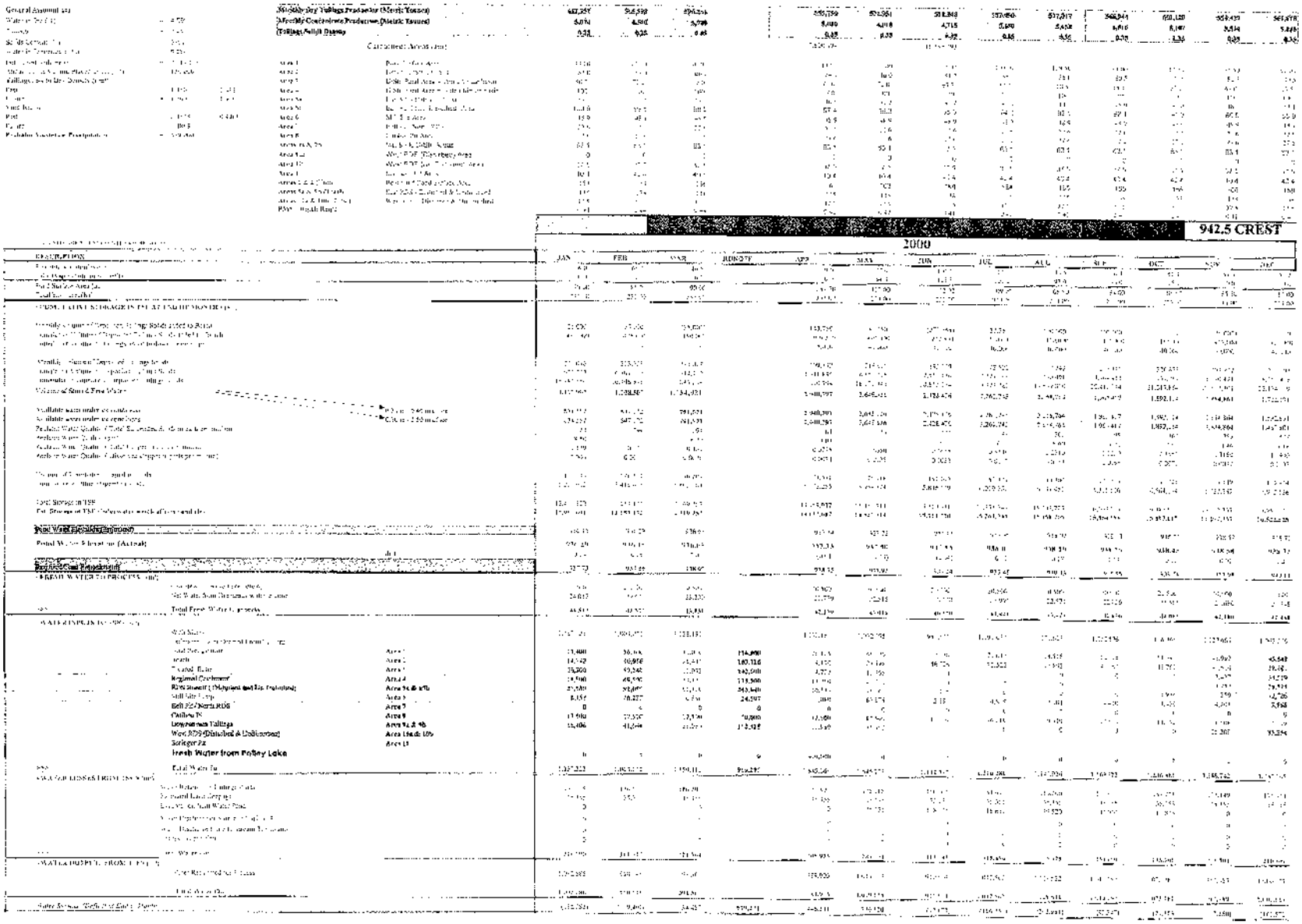

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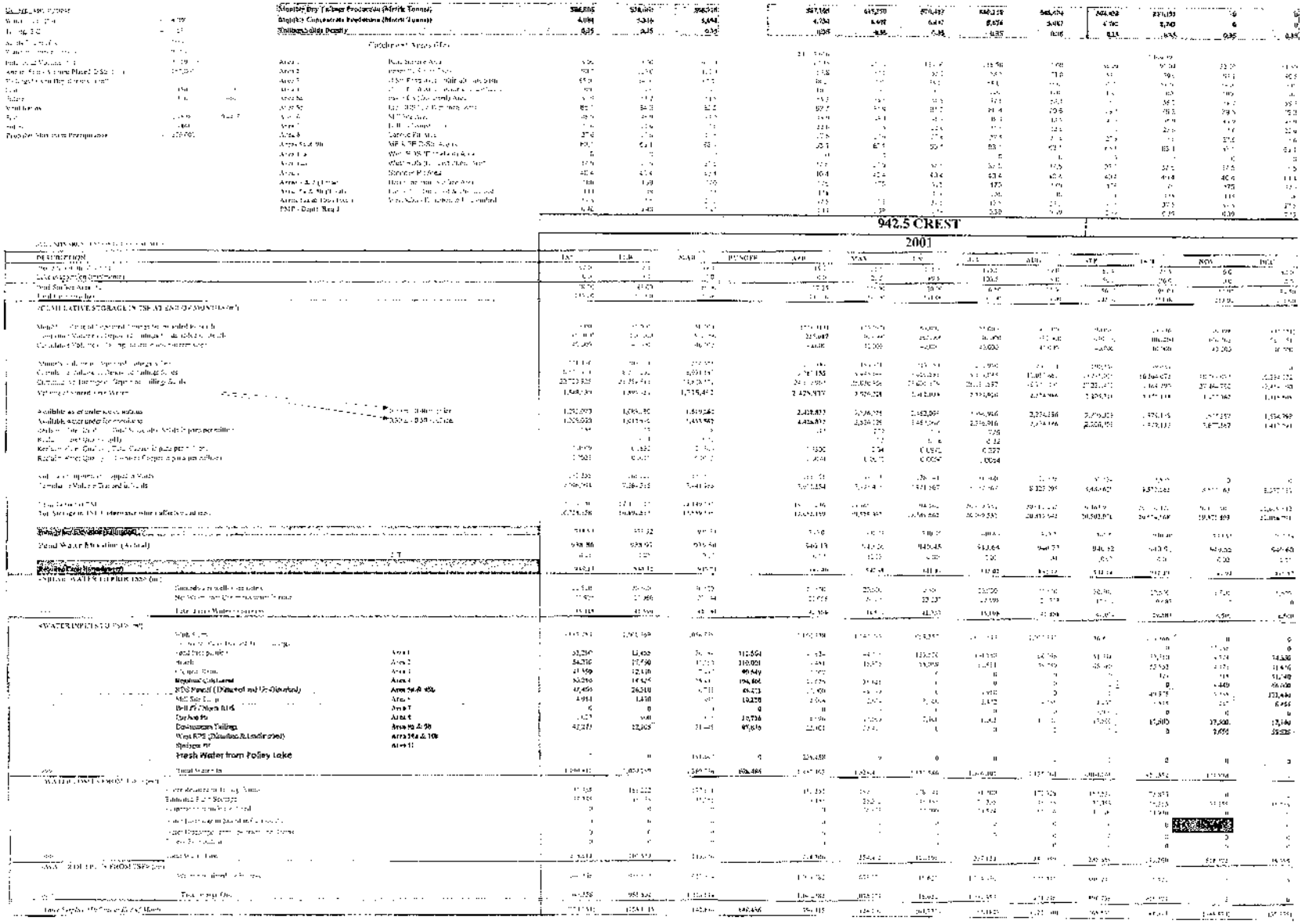
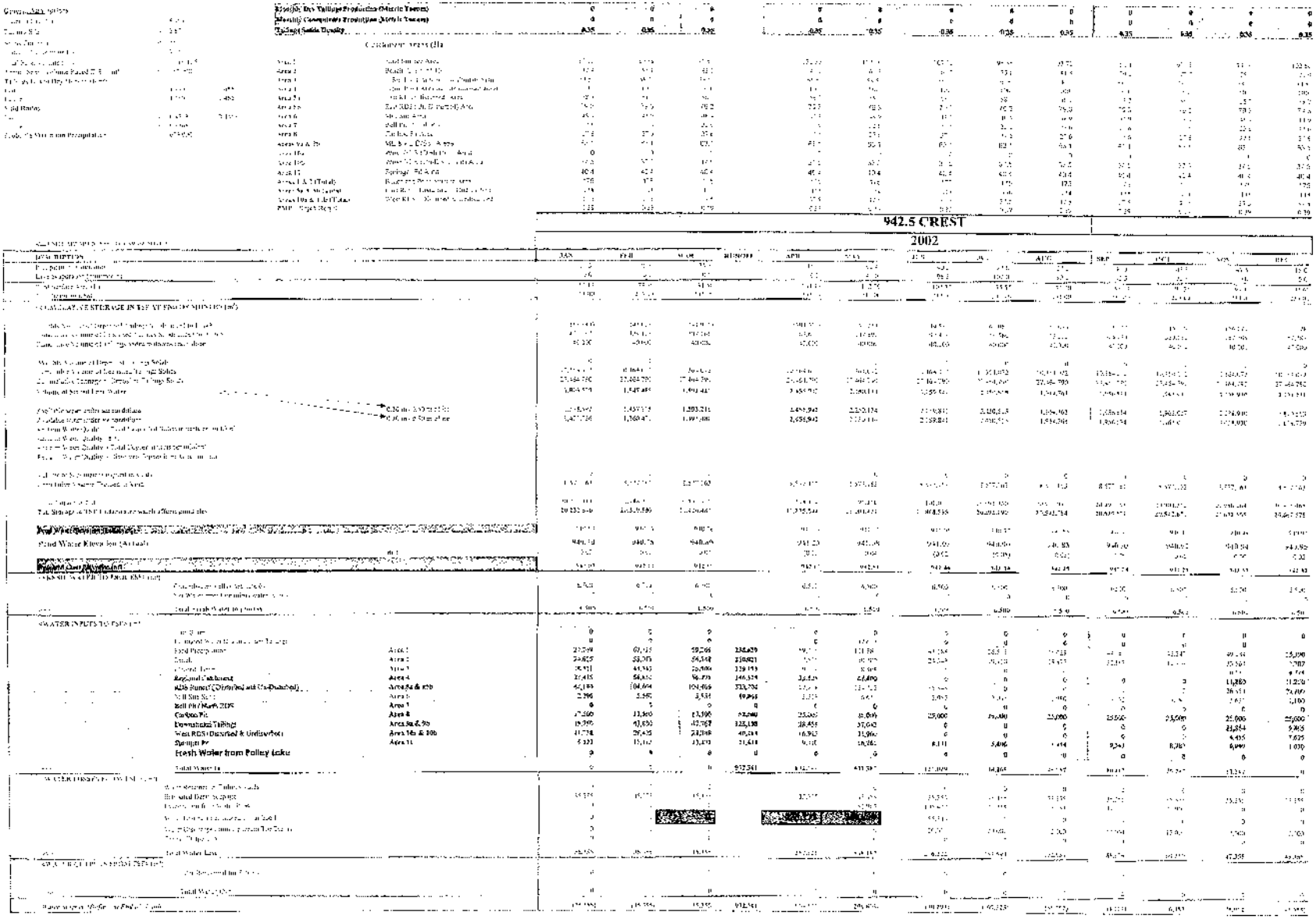


942.5 CREST

2001

Table 2.6.6-1



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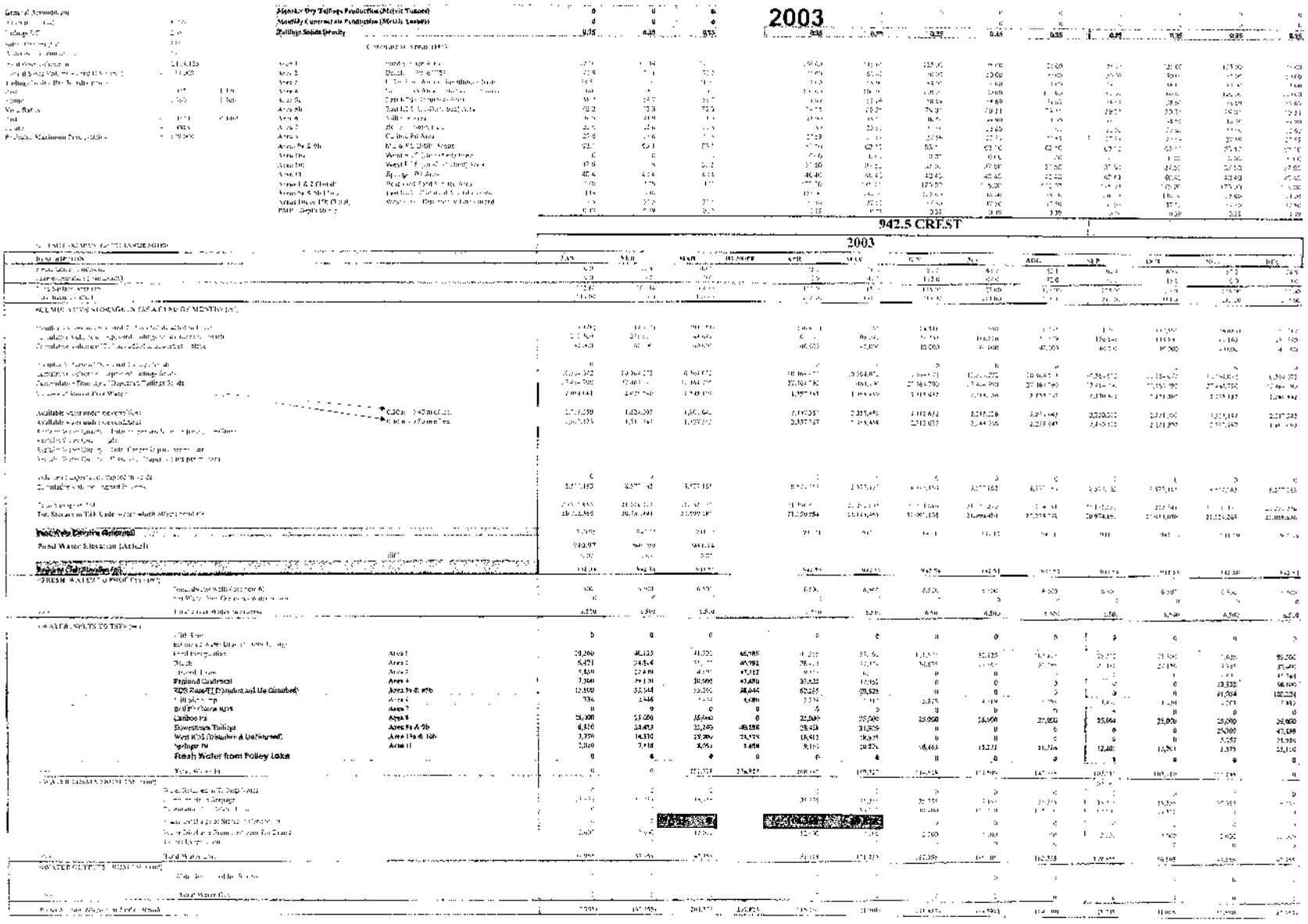

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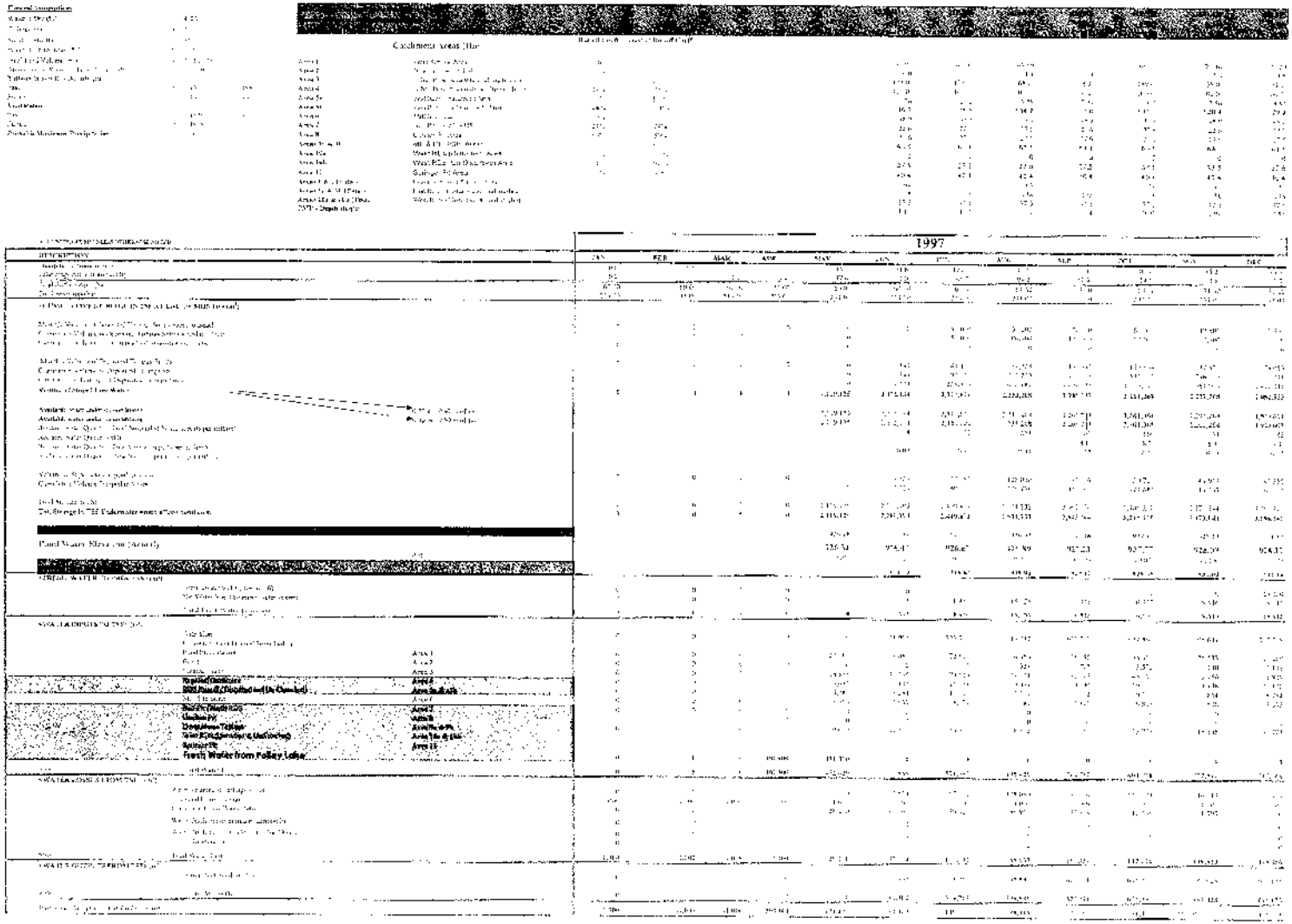
Table 2.5.6
Waterbalance 1997 - 2004



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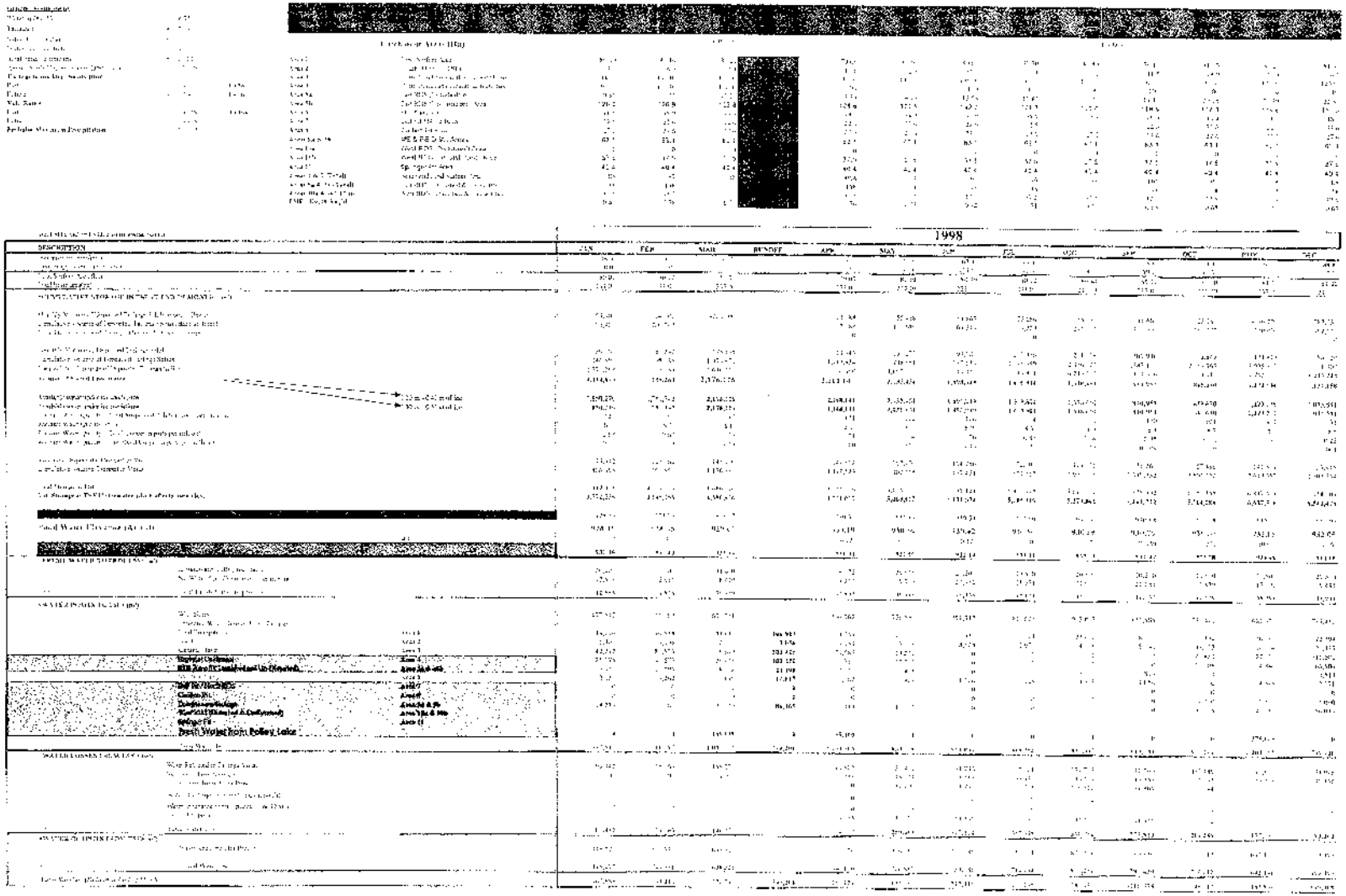
Waterbalance 1997 - 2004



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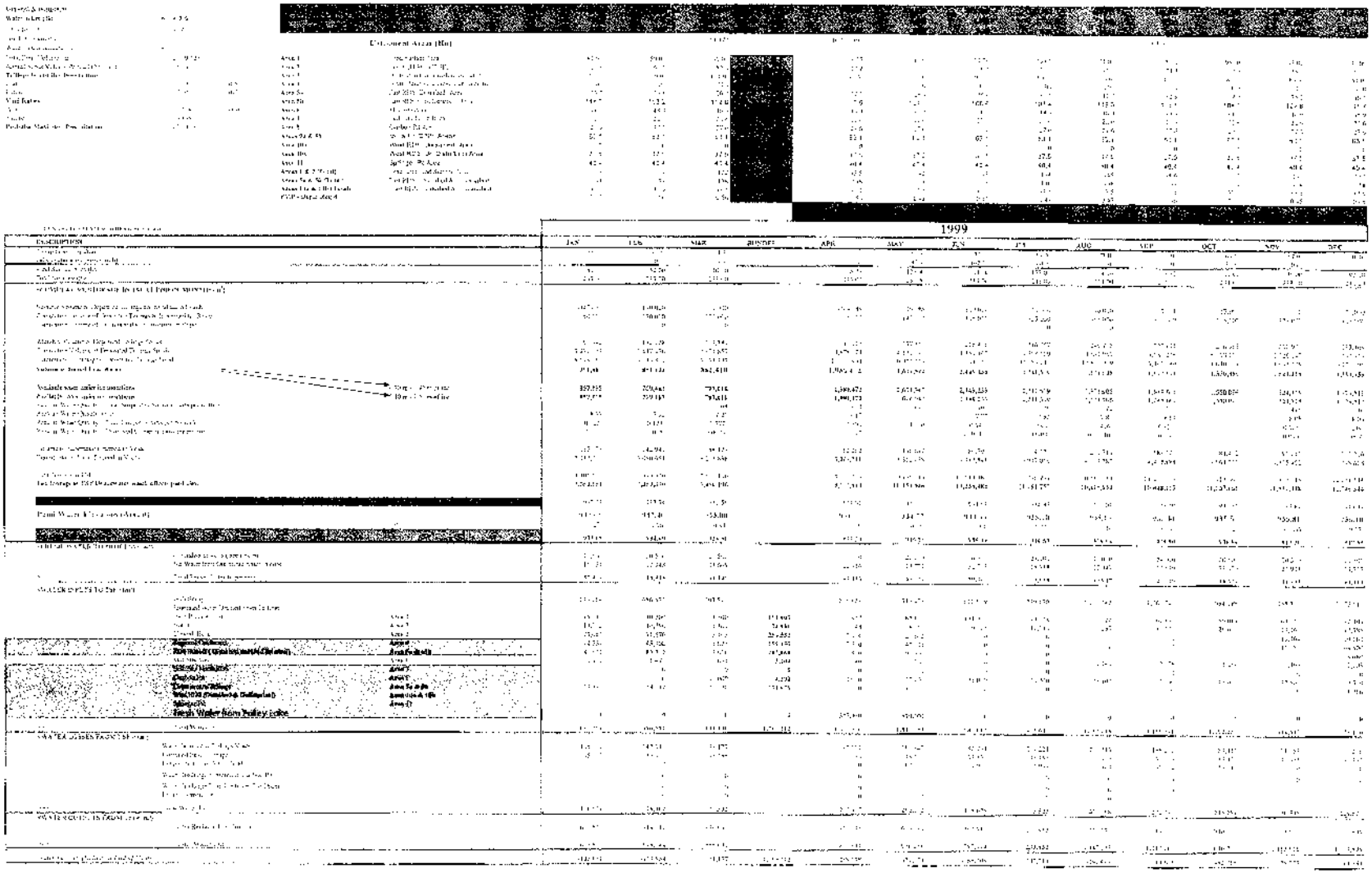
Waterbalance 1997 - 2004



Waterbalance 2004 Master as of Jan 2004
Jan 04

Table 2.5.6
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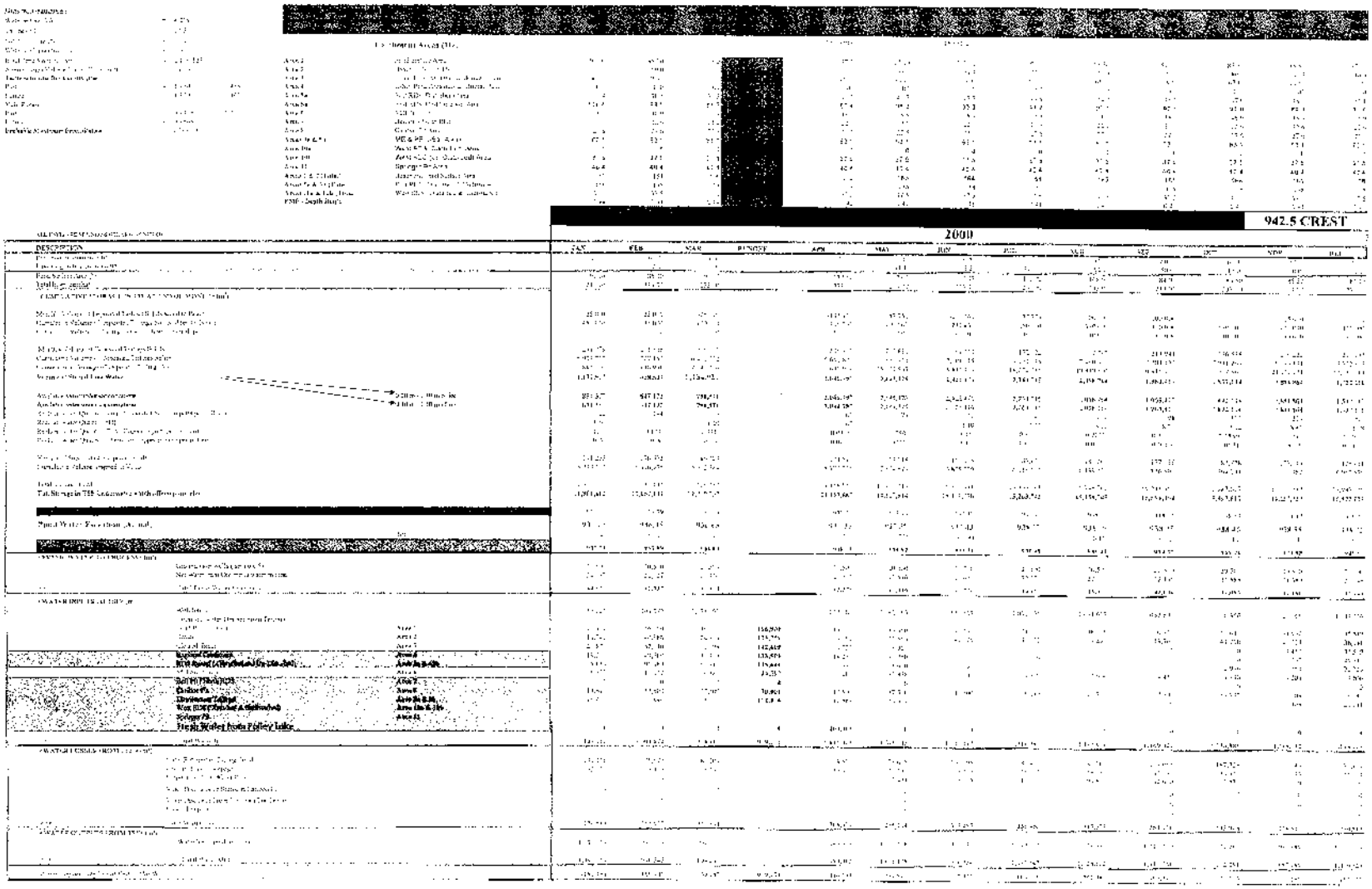

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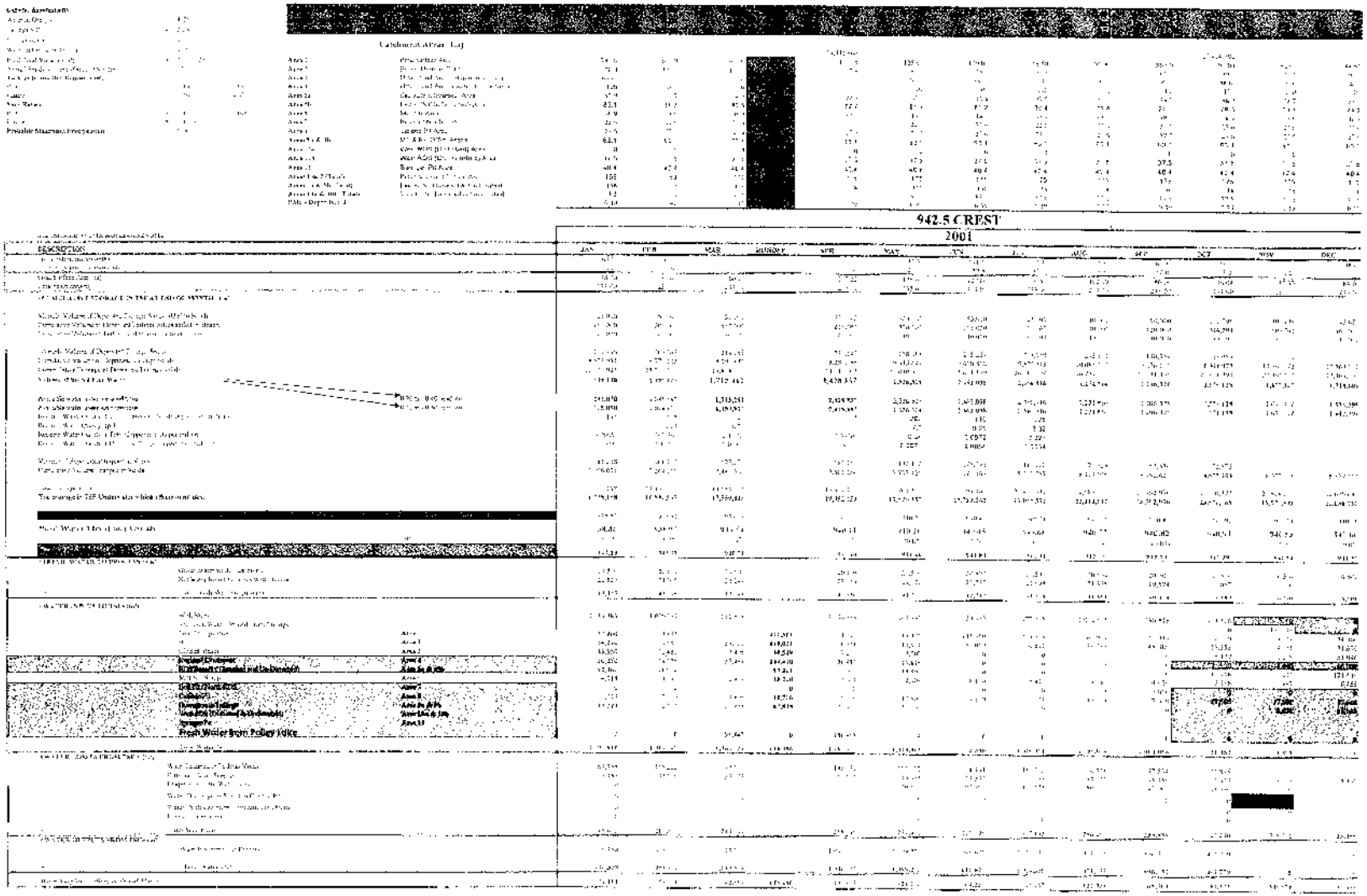
Waterbalance 1997 - 2004



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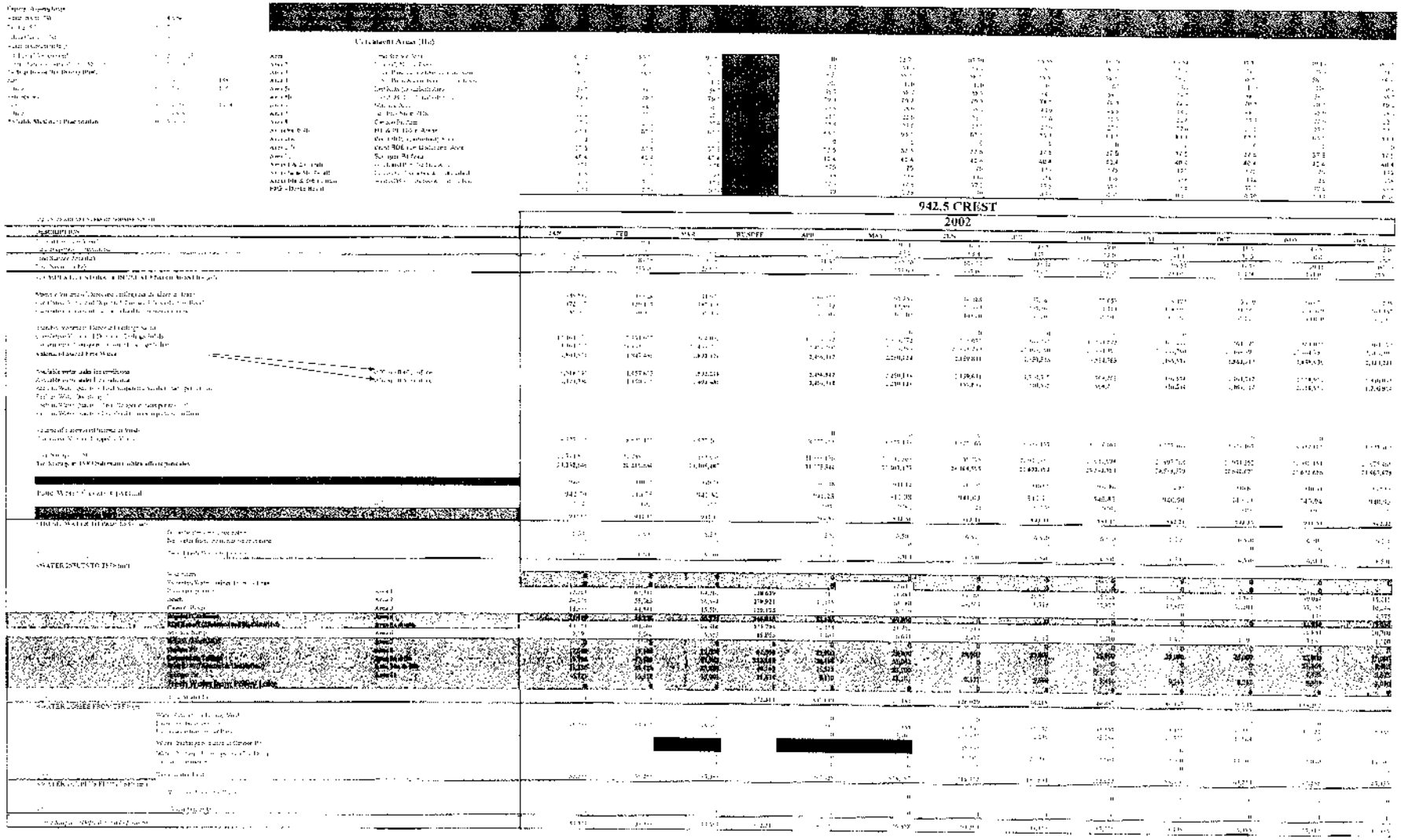

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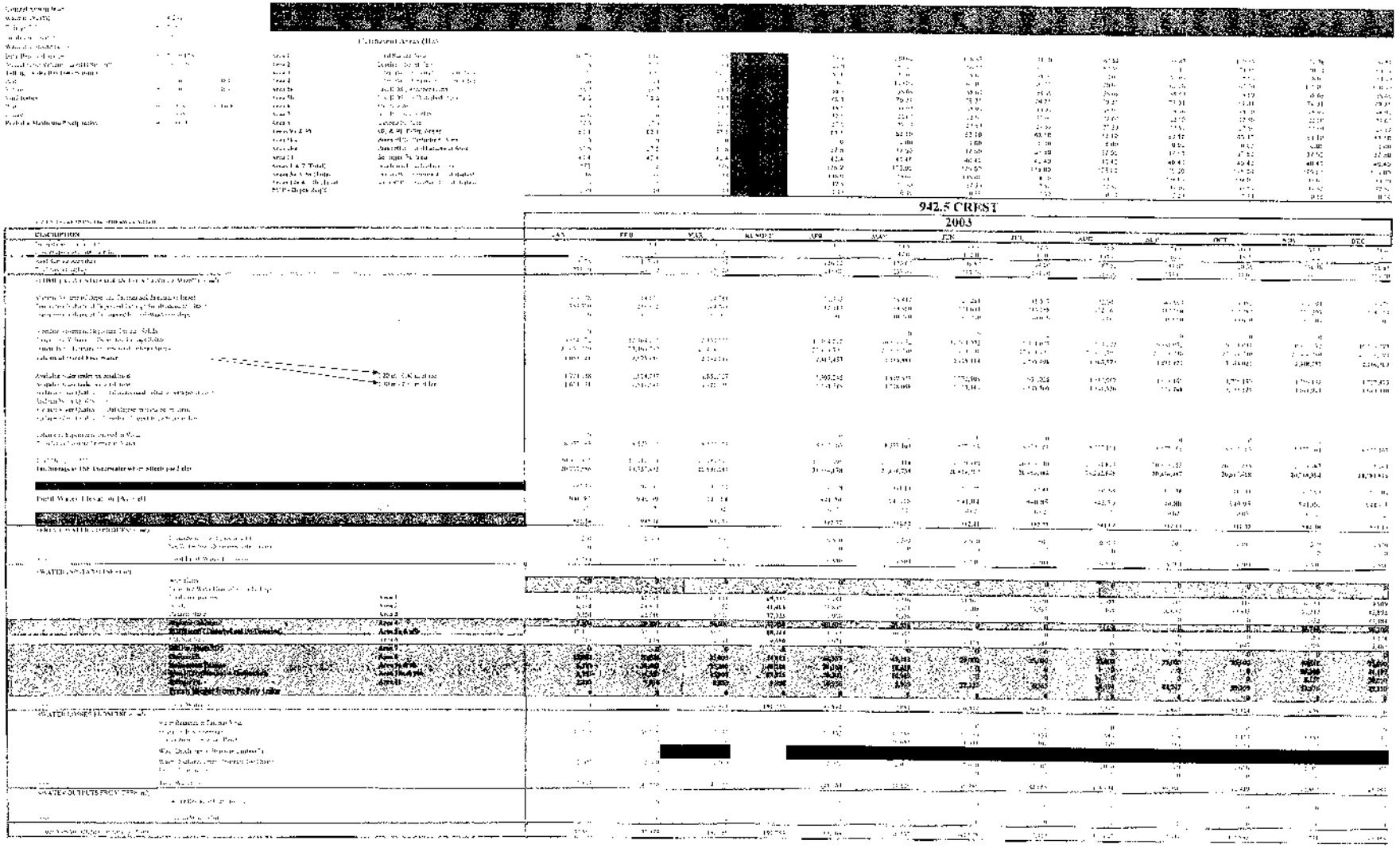

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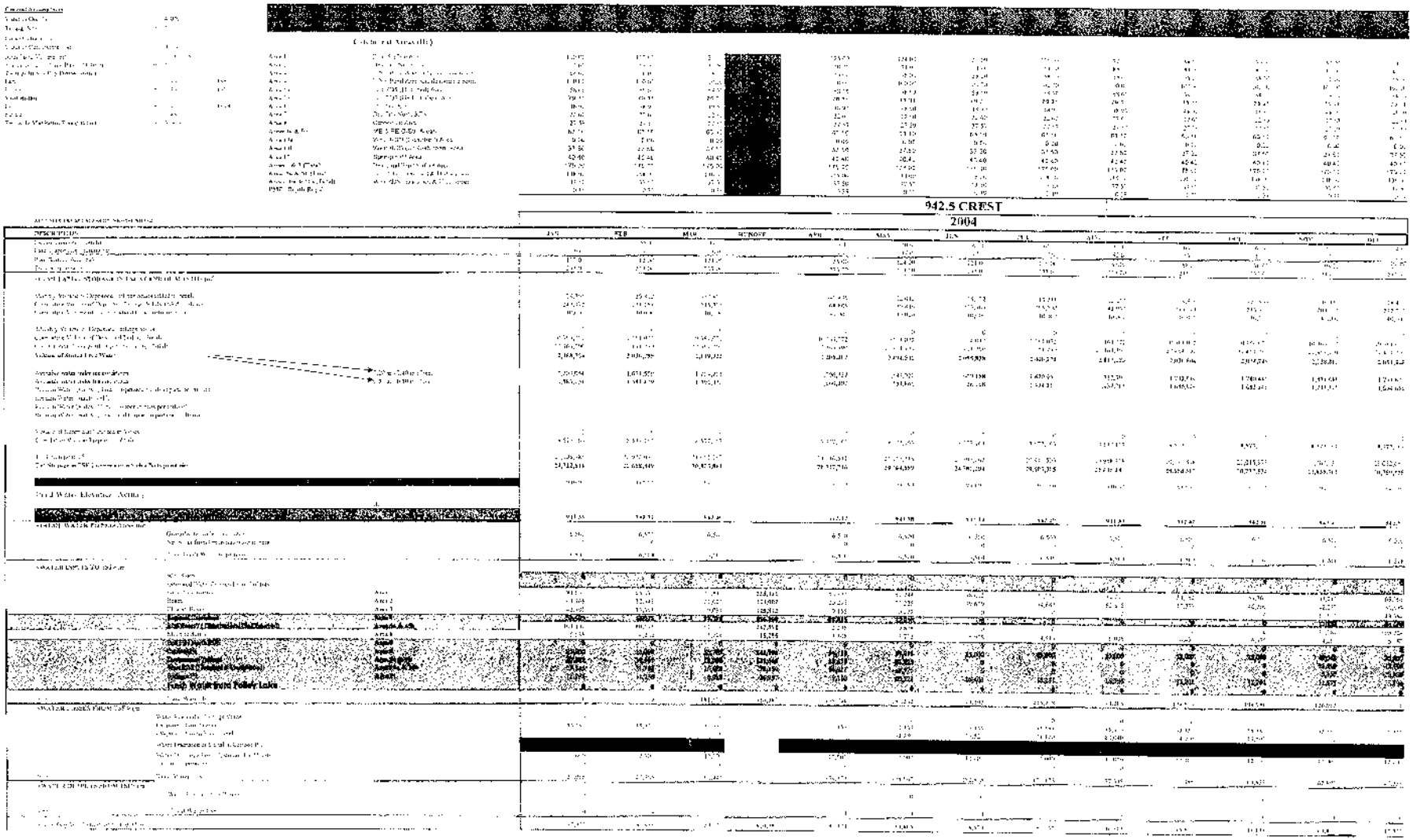

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Table of Contents MISSING WATER BALANCE DATA

MT POLLEY REVIEW PANEL DOCUMENT
FIRST PAGE OF 2005 REPORT IS CORRECT,
BUT FOLLOWING PAGES ARE FROM THE 2004 ANNUAL REPORT

MPMC00131

Annual Environmental and Reclamation Report 2005

For Submission to:

Ministry of Energy and Mines
and
Ministry of Environment

Prepared by:

Mount Polley Mining Corporation

Environmental Department

March 2006

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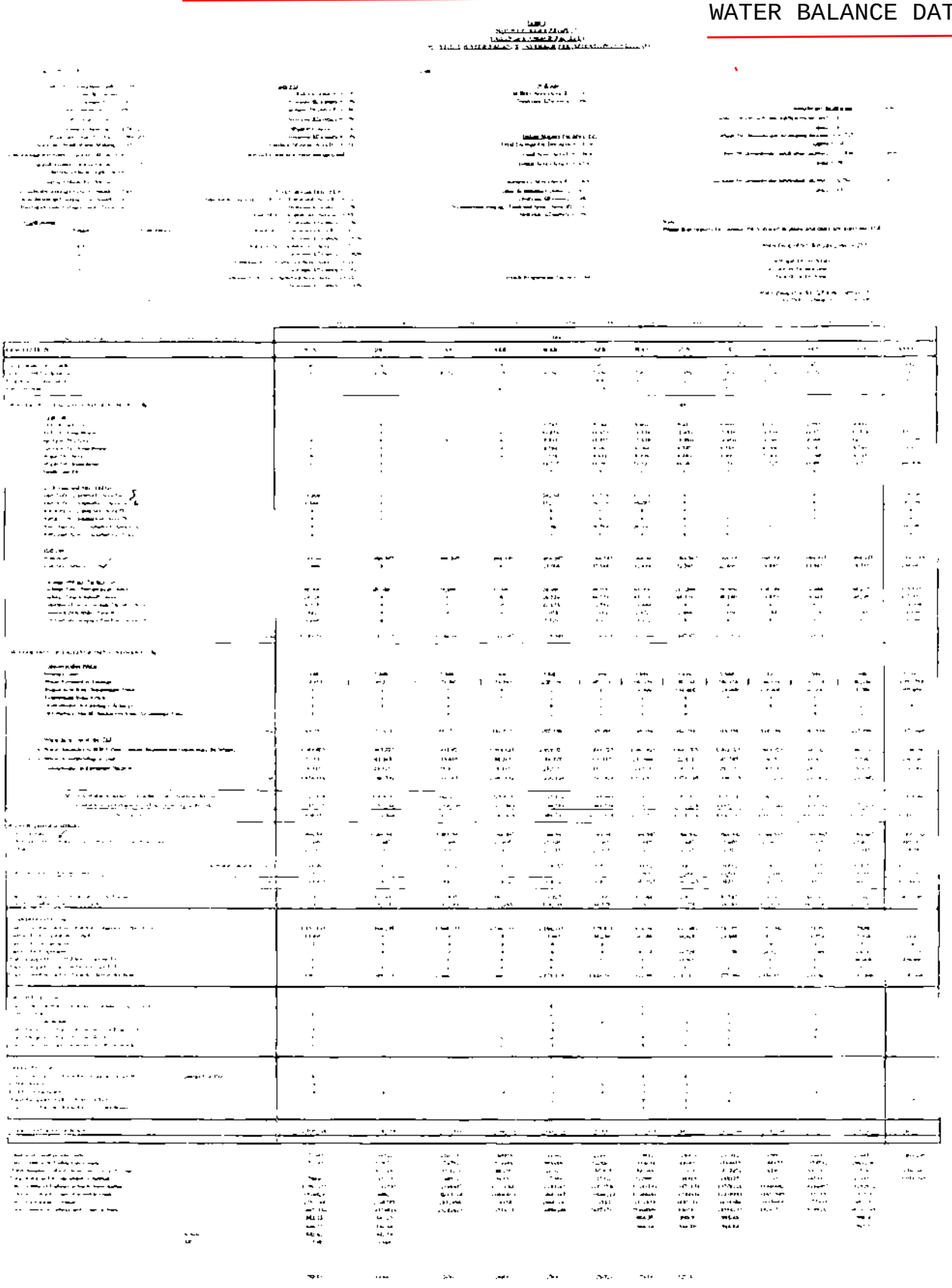
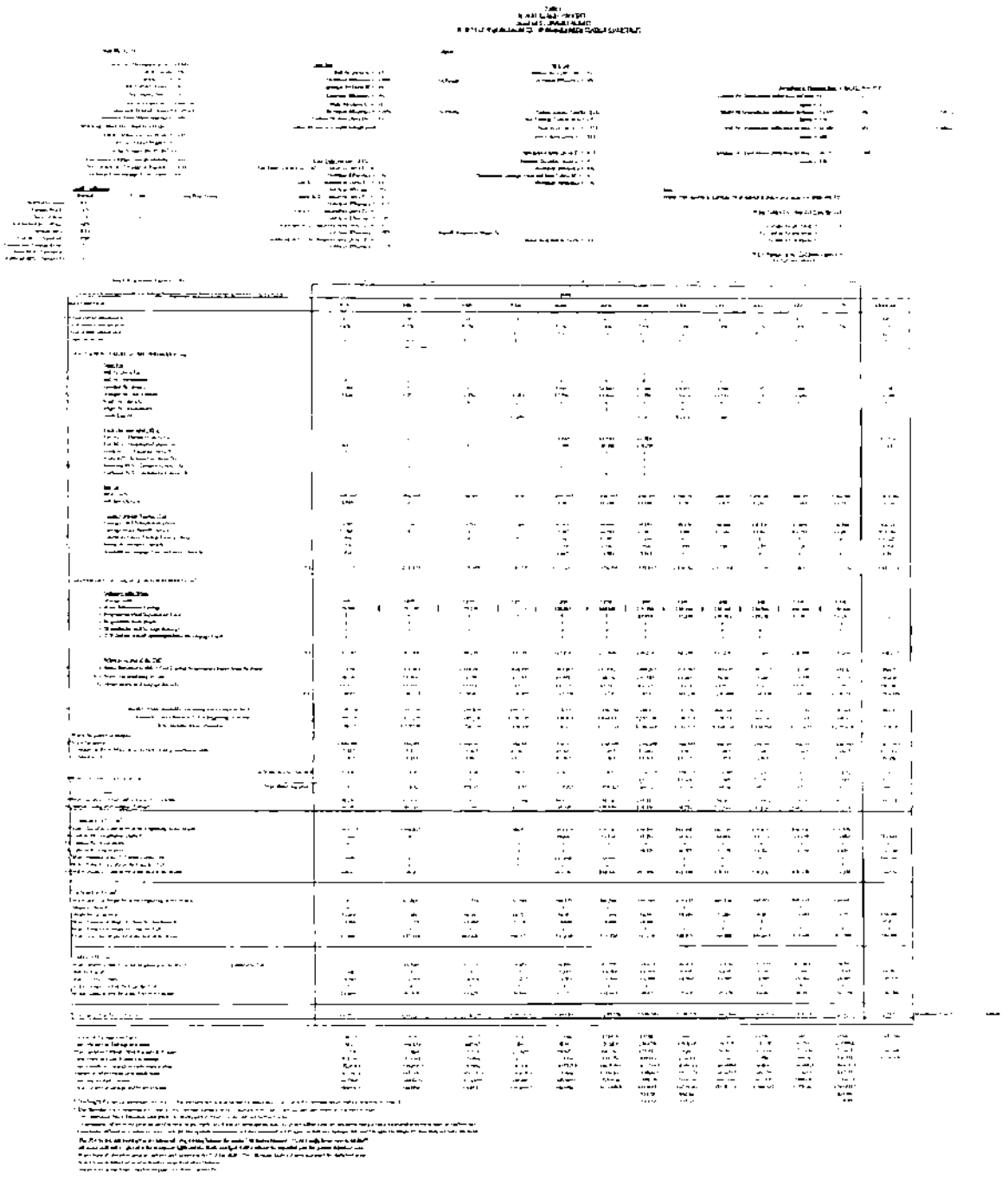
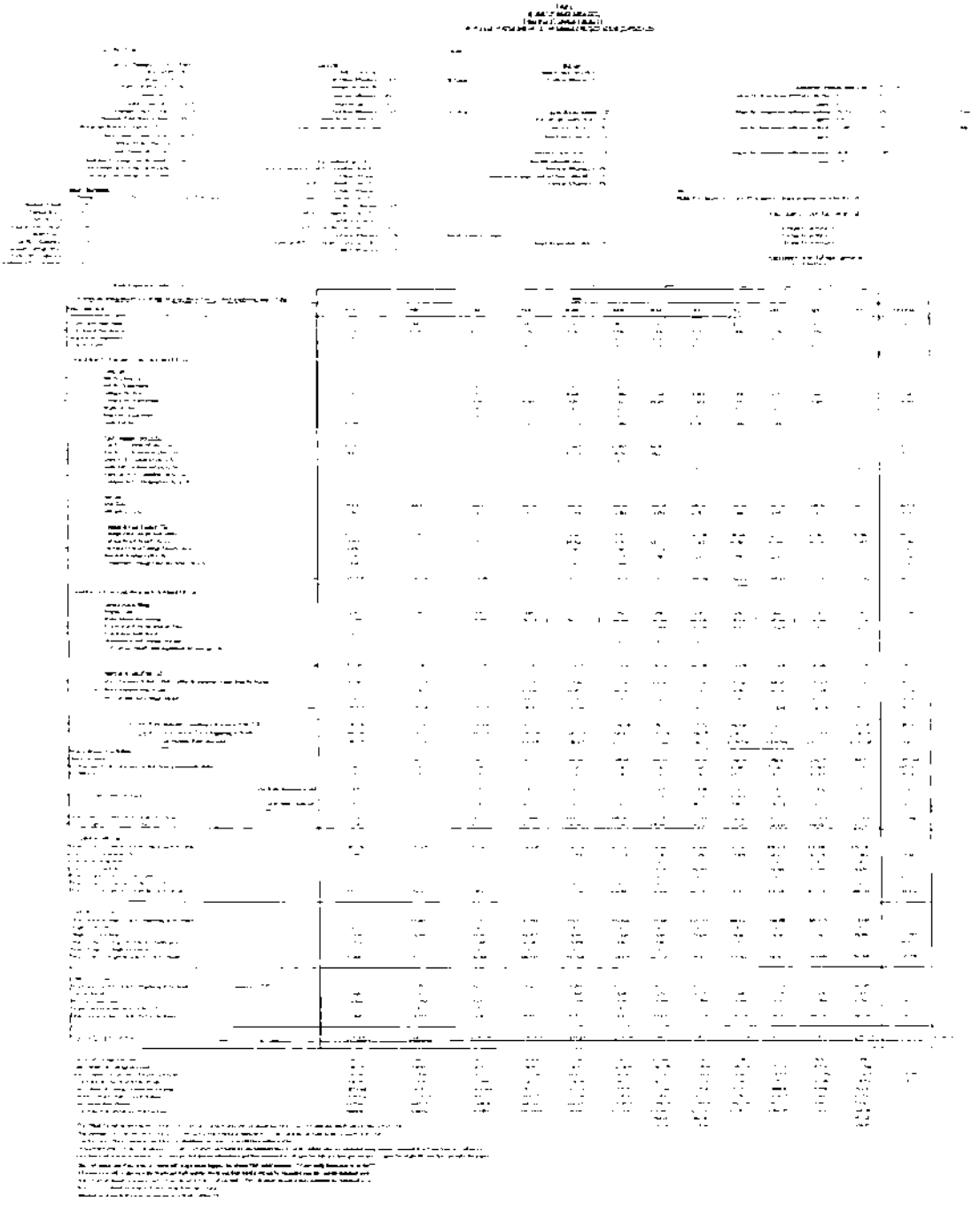
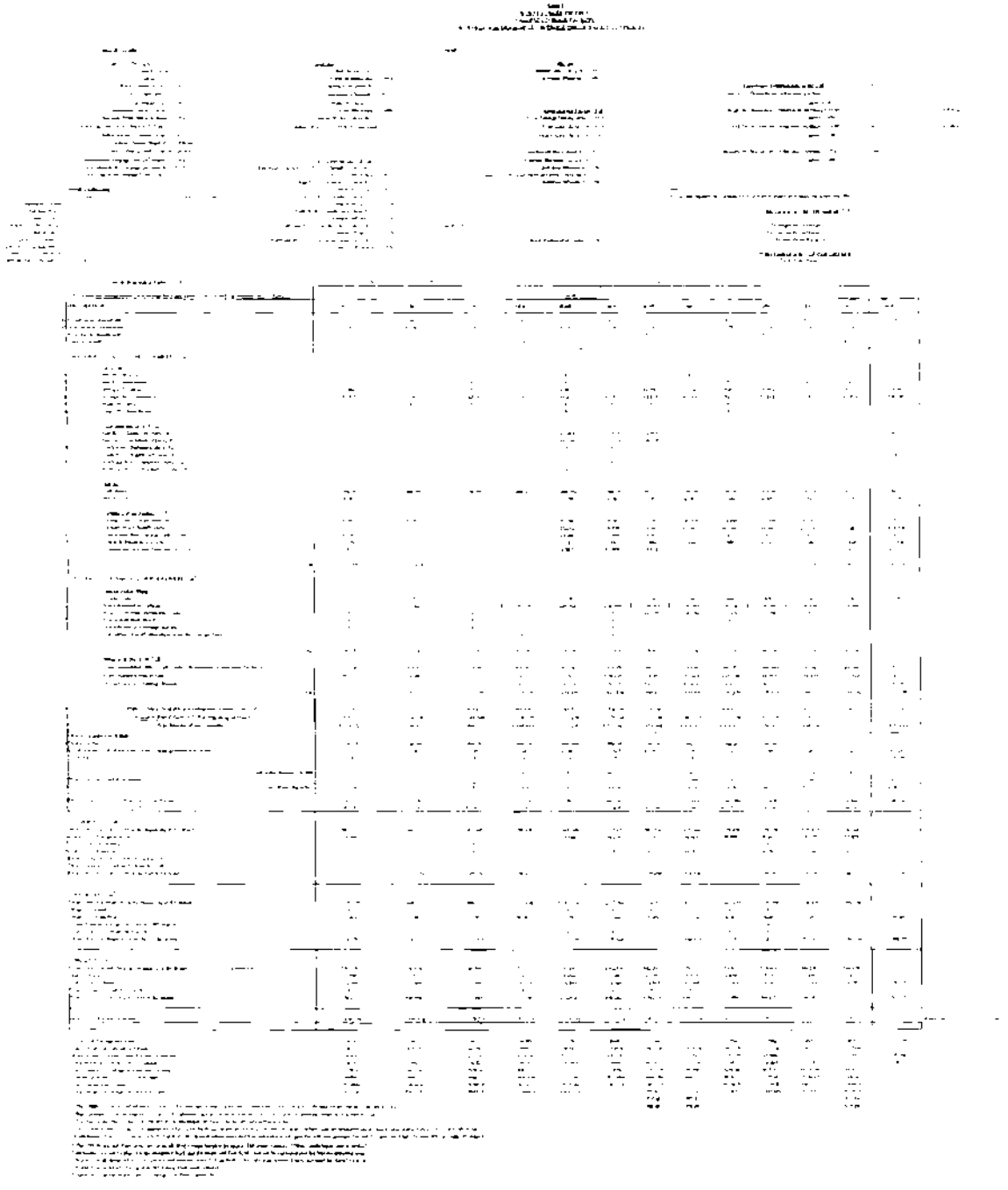
MT POLLEY FOI DOCUMENT - 2005 ANNUAL REPORT -

WATER BALANCE DATA









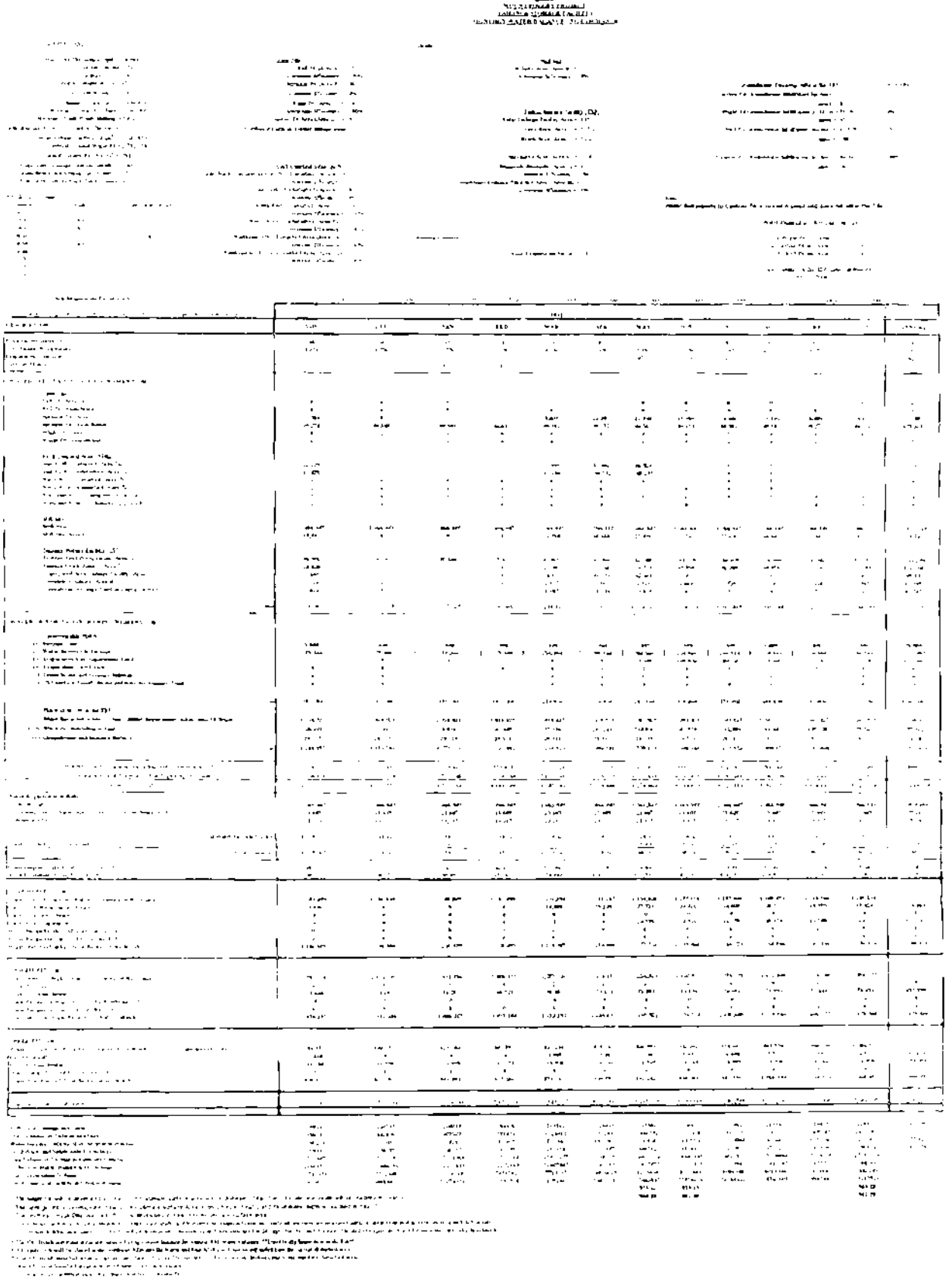


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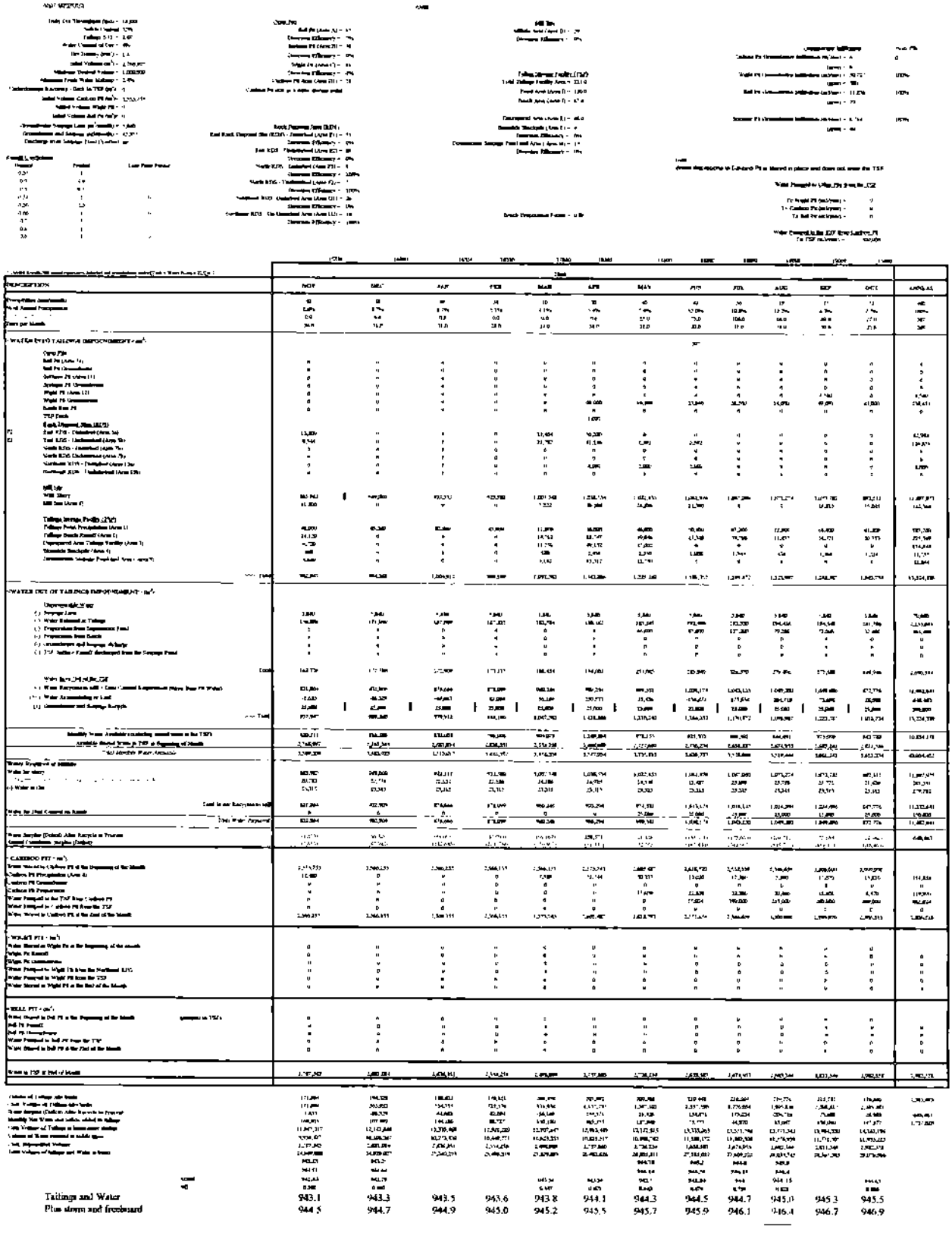
Table: 4 (January to October 2006)

Water Balance

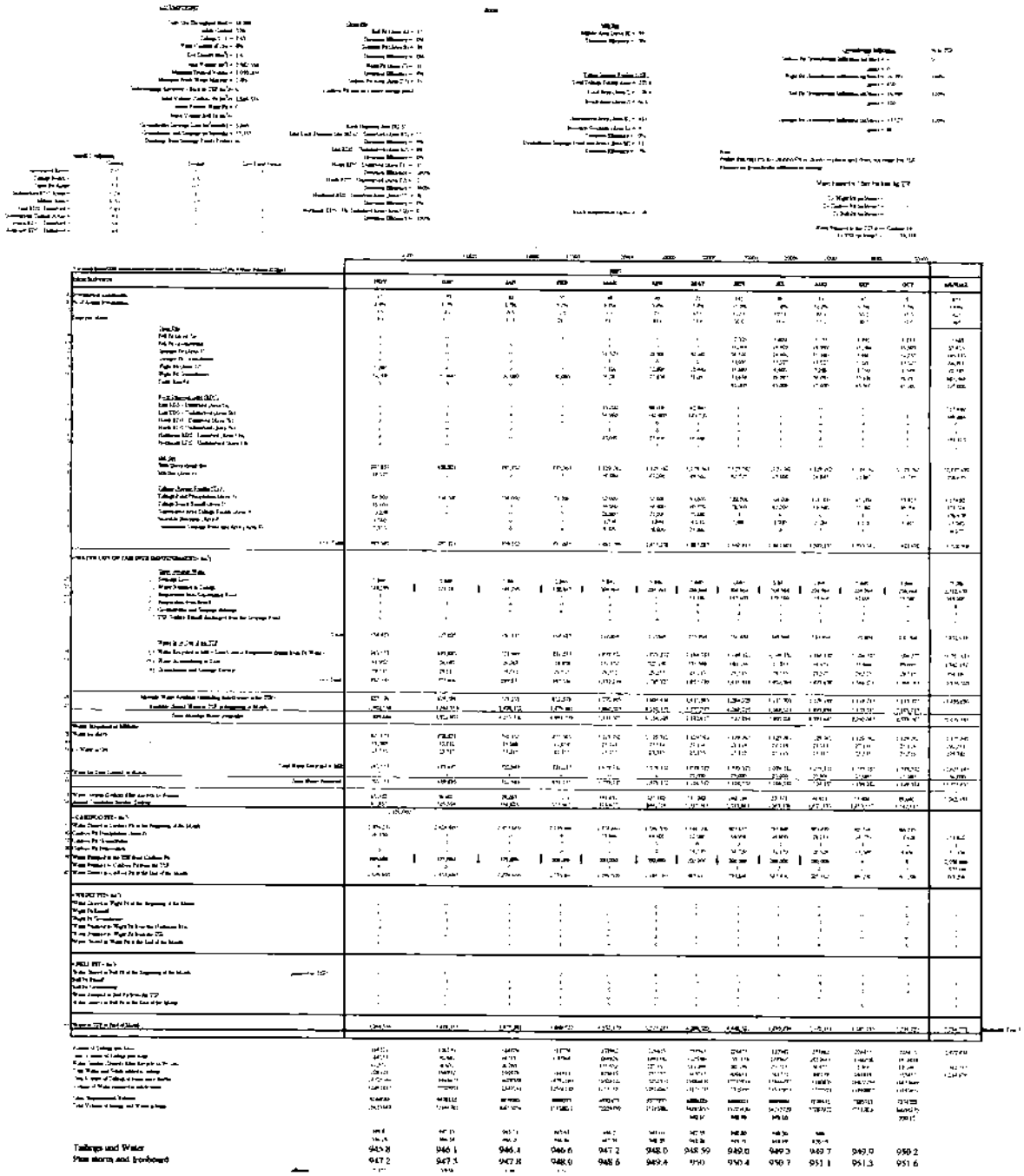
MT POLLEY FOI DOCUMENT - 2006 ANNUAL REPORT - WATER BALANCE DATA



Tailings and Water	943.1	943.3	943.5	943.6	943.8	944.1	944.3	944.5	944.7	945.0	945.3	945.5
Plus storm and freeboard	944.5	944.7	944.9	945.0	945.2	945.5	945.7	945.9	946.1	946.4	946.7	946.9

Table: 4 Con't (November and December 2006)

Water Balance



Tailings and Water
Plus storm and freeboard

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MT POLLEY FOI DOCUMENT - 2007 ANNUAL REPORT - MISSING NO WATER BALANCE DATA FOR 2007

MPMC00134

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Table of Contents

Annual Report 2008

Table 4: Water Balance

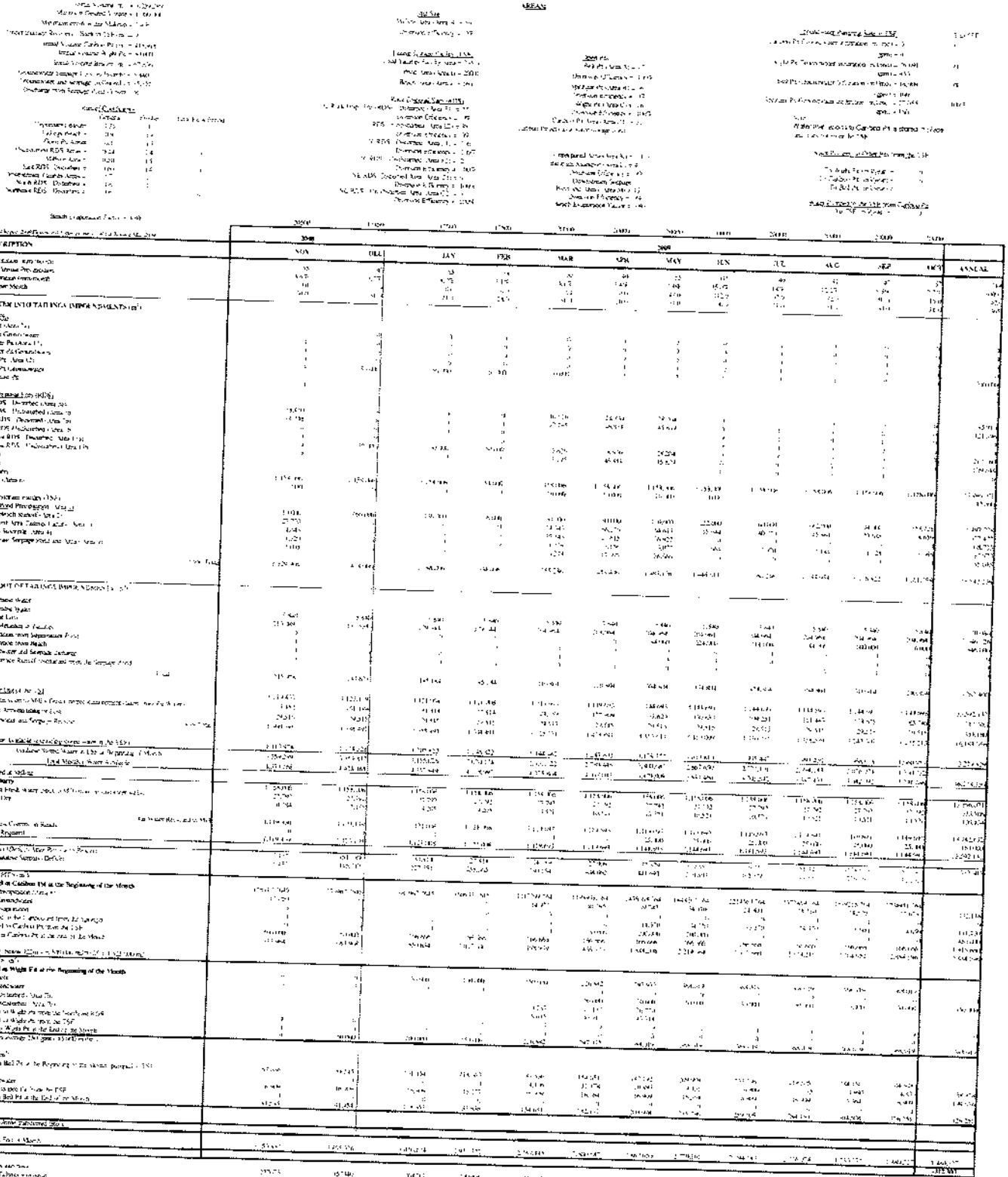
(January to October 2008)

ASSUMPTIONS

[illegible]

DESCRIPTION	NOV (2007)	DEC (2007)	JAN (2008)	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	ANNUAL
Precipitation (mm/month)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
% of Annual Precipitation	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Evaporation (mm/month)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Days per Month	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WATER INTO TAILINGS IMPOUNDMENTS (m^3)													
WATER OUT OF TAILINGS IMPOUNDMENTS (m^3)													
Water Required at Mill													
CARIBOO PIT (m^3)													
WIGHT PIT (m^3)													
BELL PIT (m^3)													
Water in TSF at End of Month	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 4: Water Balance
(November and December 2008)



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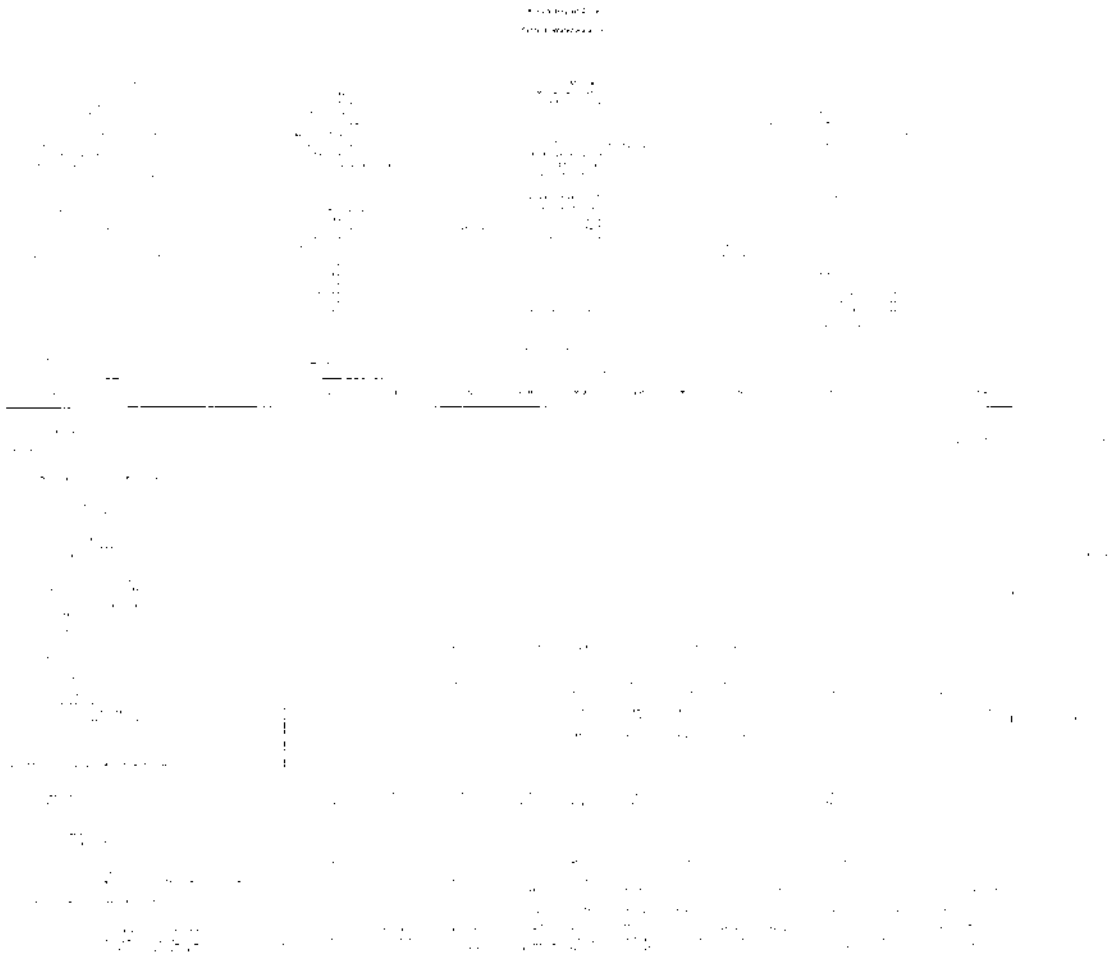

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Table of Contents ..... Error! Bookmark not defined.

MT POLLEY FOI DOCUMENT - 2010 ANNUAL REPORT - WATER BALANCE DATA

Appendix F

2010 Water Balance

<WATER OUT OF TAILINGS IMPOUNDMENT> (m^3)													
Unrecoverable Water													
20 (-) Seepage Loss/Discharge	5,940	5,940	5,940	5,940	5,940	5,940	5,940	5,940	5,940	5,940	5,940	5,940	70,080
21 (-) Water Retained in Tailings	207,443	225,732	209,695	188,578	239,307	227,425	225,907	227,424	230,507	225,907	227,424	225,907	2,688,000
22 (-) Evaporation from Supernatant Pond	0	0	0	0	0	0	70,500	108,000	100,500	130,000	75,000	72,500	634,500
23 (-) Evaporation from Beach	0	0	0	0	0	0	19,375	47,600	45,475	39,100	21,250	6,375	179,275
(-) Dust Control water from TSF Ponds	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	213,293	231,672	214,735	194,518	245,247	233,260	331,622	449,669	446,822	417,947	329,616	305,727	3,572,415
Water In or Out of the TSF													
24 (-) Water Recycled to Mill	1,130,513	1,205,955	1,114,365	1,004,798	1,255,933	1,214,836	1,255,933	1,214,939	1,255,933	1,255,930	1,214,939	1,255,935	14,258,535
25 (+/-) Water Accumulating or Lost	-21,500	-171,213	-162,691	-144,319	90,672	207,002	162,907	5,120	240,716	100,197	179,071	-50,862	-505,096
(-) TSF Discharge	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,341,056	1,008,945	1,461,011	1,343,637	1,401,908	1,140,113	1,424,340	1,759,959	1,939,471	1,963,061	1,720,420	1,510,813	
26 Monthly Water Available (excluding stored water in the TSF)	1,085,214	1,053,542	951,094	800,401	1,346,505	1,522,831	1,412,840	1,219,902	1,119,215	1,360,748	1,030,708	1,105,971	13,785,485
27 Available Stored Water in TSF at Beginning of Month	586,407	760,108	850,974	920,893	914,306	1,542,236	1,580,226	1,665,135	1,993,250	1,964,541	1,783,354	1,710,293	
Total Monthly Water Available	1,653,421	1,814,100	1,802,068	1,751,164	2,281,169	2,086,067	3,000,266	3,085,007	3,212,474	2,531,287	2,822,121	2,320,264	
Water Required at Millsite													
28 Water for slurry	1,143,424	1,244,234	1,151,429	1,040,000	1,295,357	1,253,571	1,295,357	1,253,571	1,295,357	1,295,357	1,253,571	1,295,357	14,915,587
30 (-) Minimum Fresh Water input to Mill (from groundwater wells)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	216,000
31 (-) Water in Ore	18,911	20,278	19,043	17,201	21,424	20,733	21,424	20,733	21,424	21,424	20,733	21,424	245,852
[illegible]	1,108,513	1,205,955	1,114,365	1,004,798	1,255,933	1,214,839	1,255,933	1,214,639	1,255,932	1,255,530	1,214,879	1,255,935	14,258,535
27 Total Water Required	1,108,513	1,205,955	1,114,365	1,004,798	1,255,933	1,214,836	1,255,933	1,214,636	1,255,933	1,255,933	1,214,939	1,255,935	14,258,535
33 Water Surplus (Deficit) After Recycle to Process	[illegible]	[illegible]	[illegible]	[illegible]	90,672	207,002	162,907	5,123	[illegible]	[illegible]	[illegible]	[illegible]	595,000
34 Annual Cumulative Surplus (Deficit)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	91,748	96,871	[illegible]	[illegible]	[illegible]	[illegible]	
<CARIBOO PIT> (m^3)													
35 Water Stored in Cariboo Pit at the Beginning of the Month	2,032,518	1,371,780	1,620,042	1,515,224	1,433,879	1,354,680	1,315,153	1,253,695	1,172,657	1,305,469	1,008,341	824,984	
36 Cariboo Pit Precipitation (Area B)	20,264	0	0	0	13,020	31,000	31,930	34,410	24,800	28,210	14,570	17,020	224,020
37 Cariboo Pit Groundwater	0	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0	0	0
38 Cariboo Pit Evaporation	0	0	0	0	0	0	14,570	34,720	30,170	20,520	15,500	4,650	131,130
16 NEW Water Pumped to the Cariboo Pit from the Springer / and NEZ pit	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	902,745
Water Pumped to Cariboo Pit from the TSF	[illegible]	[illegible]	[illegible]					[illegible]		[illegible]	[illegible]		0
Water Pumped out of Cariboo for Dust Control and Transfer	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	620,000
Water Pump for Dust Control	0	[illegible]	0			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	125,000
Water Pumped from the Cariboo pit to the TSF	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,824,020
40 Water Stored in Cariboo Pit at the End of the Month	1,671,780	1,669,042	1,515,224	1,433,879	1,304,980	1,315,153	1,253,695	1,172,657	1,007,406	1,008,041	824,984	859,843	
		[illegible]											
Available Space below 932m = 8,600,000 m3*0.25 = 1,625,000 m3													
<WIGHT PIT> (m^3)													
Water Stored in Wight Pit at the Beginning of the Month	608,781	618,333	659,330	659,330	550,332	662,593	564,593	460,933	365,405	368,045	370,957	382,461	
Wight Pit Runoff	7,552	0	0	0	3,360	8,000	5,240	3,562	2,500	2,917	1,504	4,549	42,220
Wight Pit Groundwater	45,000	45,000	0	0	0	0	0	0	0	0	0	0	90,000
Wight Pit Groundwater (Pumped)	25,000	4,000	0	0	0	106,000	120,000	85,000	0	0	0	0	336,000
Water Stored in Wight Pit at the End of the Month	618,333	659,333	659,330	550,335	902,020	564,093	476,933	365,405	368,045	380,952	382,461	387,010	
893 m to 927 m average 280 gpm (45,000 m3/m)				852.60	861.05	854.81							
<BELL PIT> (m^3)													
Water Stored in Bell Pit at the Beginning of the Month	525,602	550,450	587,059	564,282	589,541	620,020	644,924	670,948	690,665	710,315	730,510	749,279	
Bell Pit Runoff	6,024	[illegible]	0	[illegible]	3,570	8,500	5,755	3,274	2,720	2,094	1,398	4,603	44,006
Bell Pit Groundwater	19,304	19,309	19,009	15,273	19,300	19,304	19,505	19,264	16,509	16,309	16,354	19,505	199,399
Water Pumped to Bell Pit from the TSF	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Stored in Bell Pit at the End of the Month	550,450	587,329	584,265	589,541	620,020	644,564	670,548	690,605	710,315	730,510	749,279	770,322	
<SOUTHEAST PIT>(m3)													
41 Water in TSF at End of Month	760,180	[illegible]	920,893	914,084	1,143,330	1,509,224	1,665,135	1,993,259	1,264,541	1,763,354	1,730,283	1,768,321	1,799,321
Volume of Tailings into basin	232,338	252,820	235,062	211,221	263,208	254,717	263,209	254,717	263,209	263,208	254,717	254,717	3,002,177
Cum. Volume of Tailings into basin	232,338	485,155	719,116	930,436	1,193,546	1,448,263	1,711,571	1,966,268	2,229,486	2,492,733	2,747,420	3,002,157	
Water Surplus (Deficit) After Recycle to Process	[illegible]	[illegible]	[illegible]	[illegible]	90,672	207,002	162,907	5,123	[illegible]	[illegible]	[illegible]	[illegible]	-595,008
Total Water and Solids added to tailings	211,090	81,100	71,271	87,002	354,002	462,709	426,115	259,940	25,494	74,021	78,646	164,755	2,402,072
Cum Volume of Tailings in basin since startup	24,779,531	25,029,456	25,263,413	25,474,733	25,737,941	25,992,658	26,255,865	26,510,582	26,773,790	27,036,997	27,291,714	27,546,431	
Volume of Water retained in solids/voids	21,620,740	21,656,075	21,863,988	22,052,549	22,287,855	22,515,001	22,750,884	22,977,534	23,212,721	23,447,527	23,674,953	23,909,960	
Cum. Supernatant Volume	780,188	850,374	920,803	914,084	1,143,338	1,589,229	1,665,135	1,993,289	1,864,541	1,763,354	1,730,283	1,799,321	
Total Volume of tailings and Water in basin	48,080,141	47,536,898	48,048,085	48,441,749	49,168,032	50,068,067	50,671,829	51,481,355	51,850,951	52,247,870	52,696,857	53,254,712	
Tailings and Water	954.57	954.83	956.07	955.26	955.60	956.54	958.38	956.98	958.85	957.04	957.23	957.49	
Plus storm and freeboard	956.96	958.22	958.48	956.06	956.89	957.43	957.78	956.97	958.2	958.43	958.62	958.88	
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
[illegible]	954.12	[illegible]											
[illegible]	-0.45	-0.40	956.07	955.26	955.60	956.04	956.38	956.98	955.55	957.04	957.23	957.49	