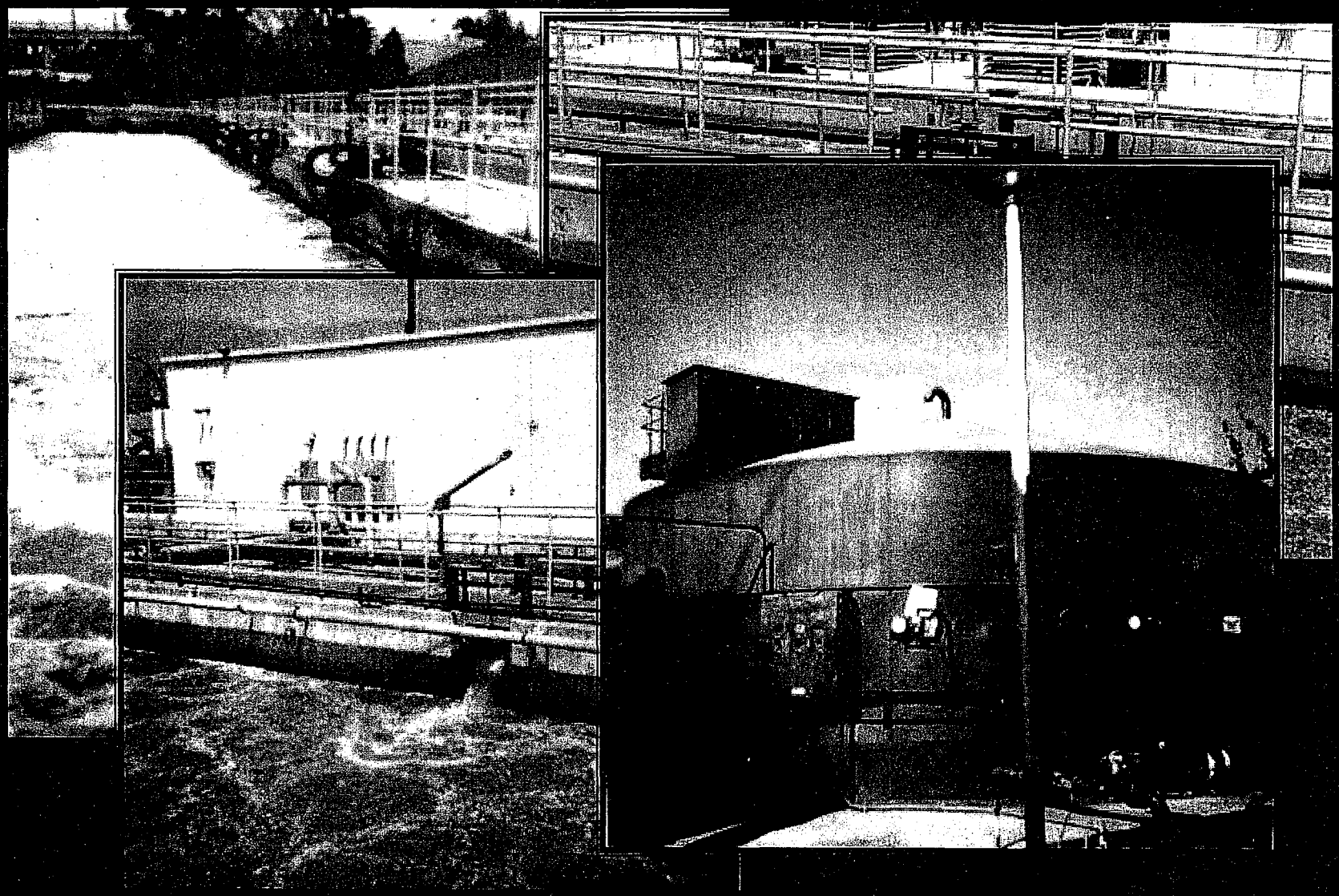
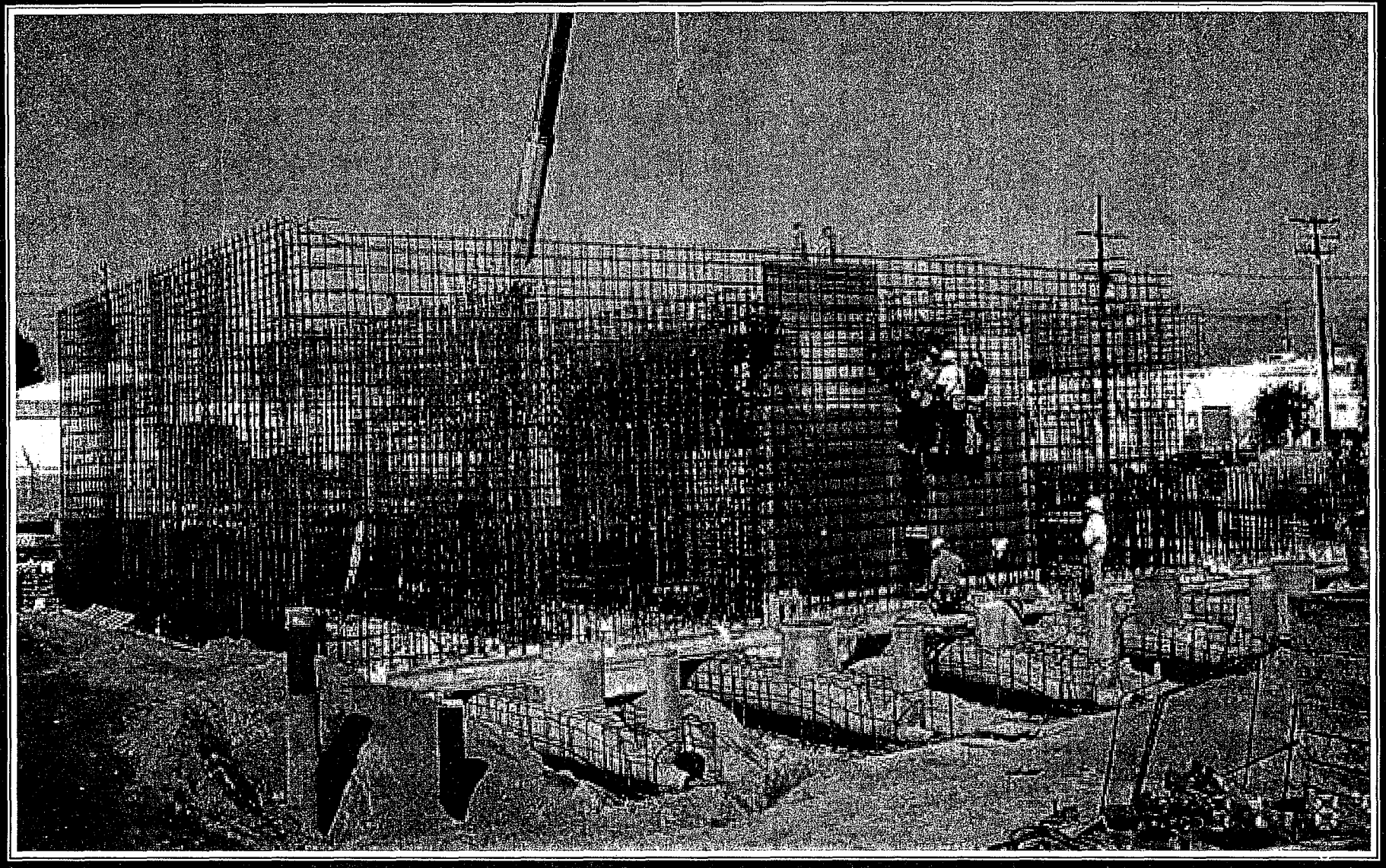
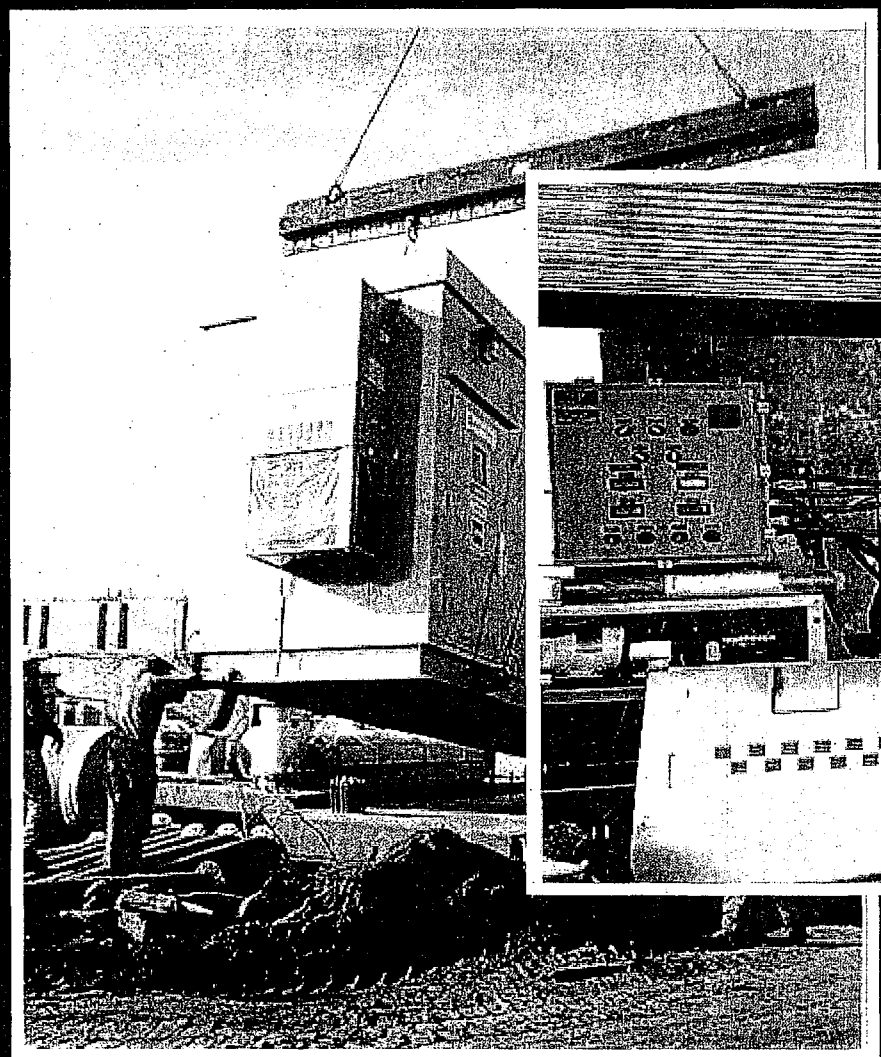
Burbank WRP - History

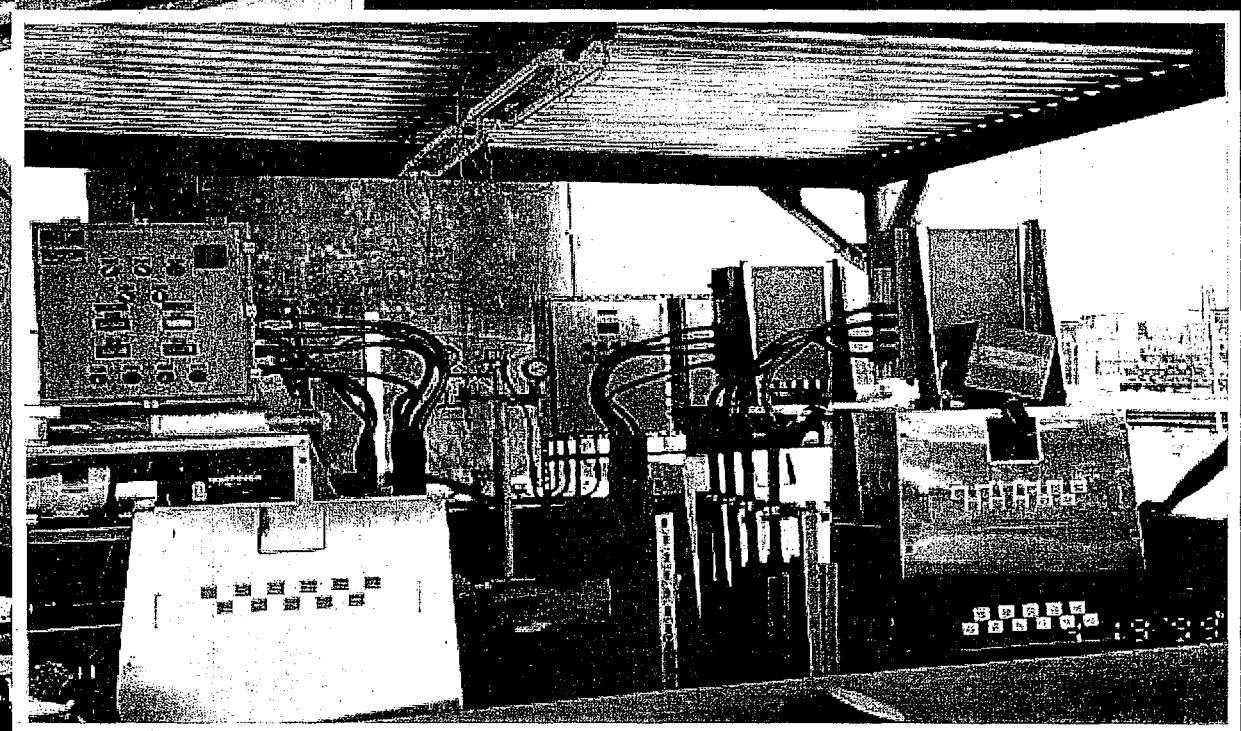


2000 Upgrades – New Filters

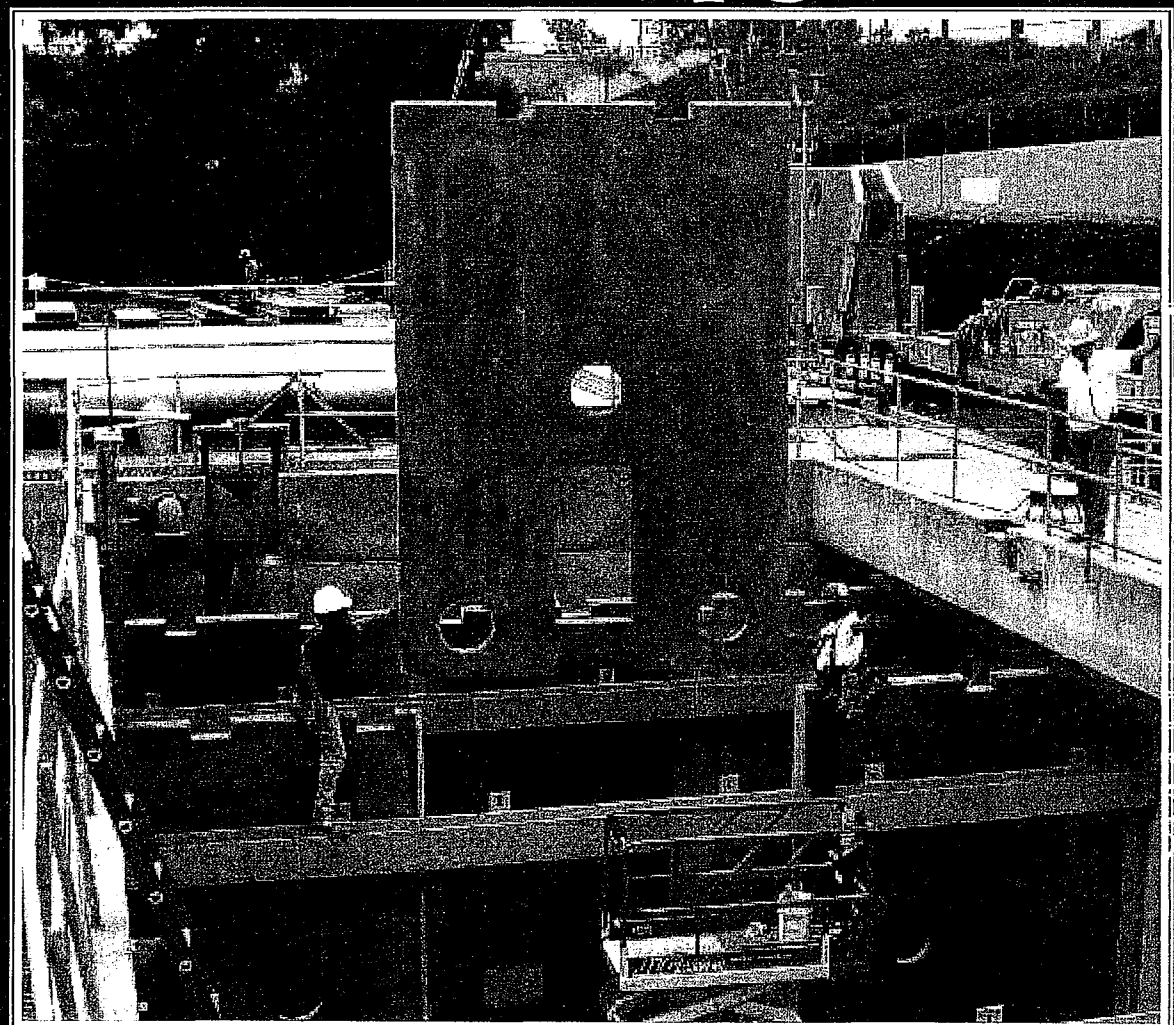


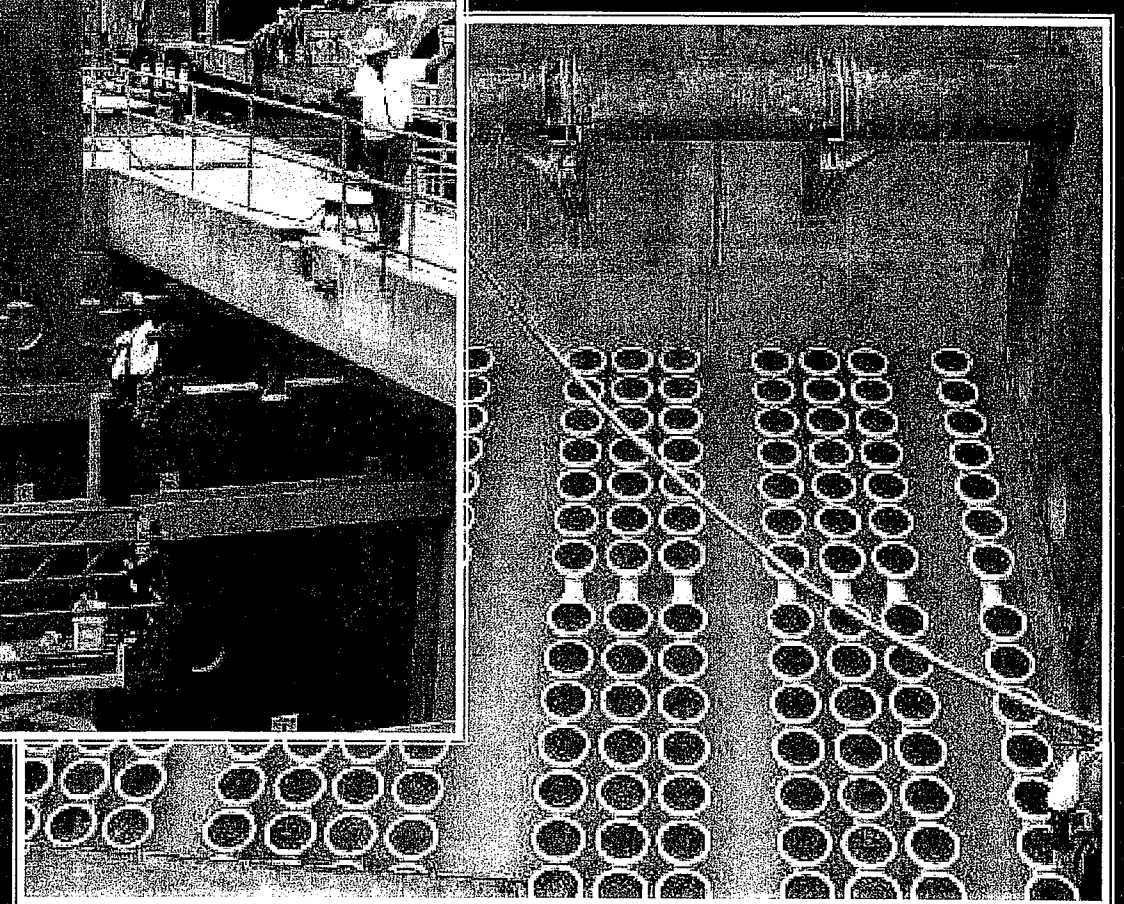
2000 Upgrades – Electrical and Chemical Improvements



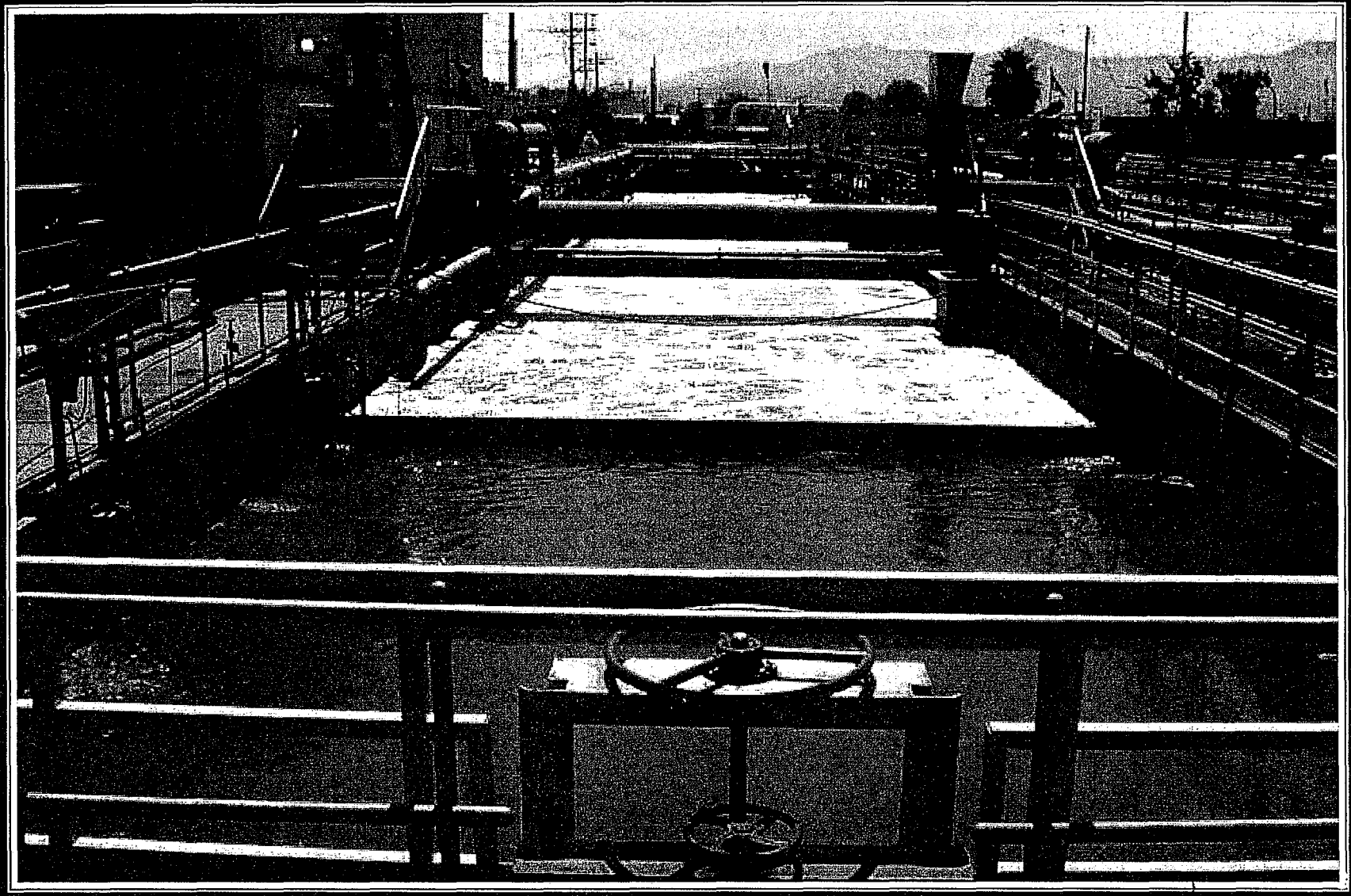


2003 Upgrades – BNR

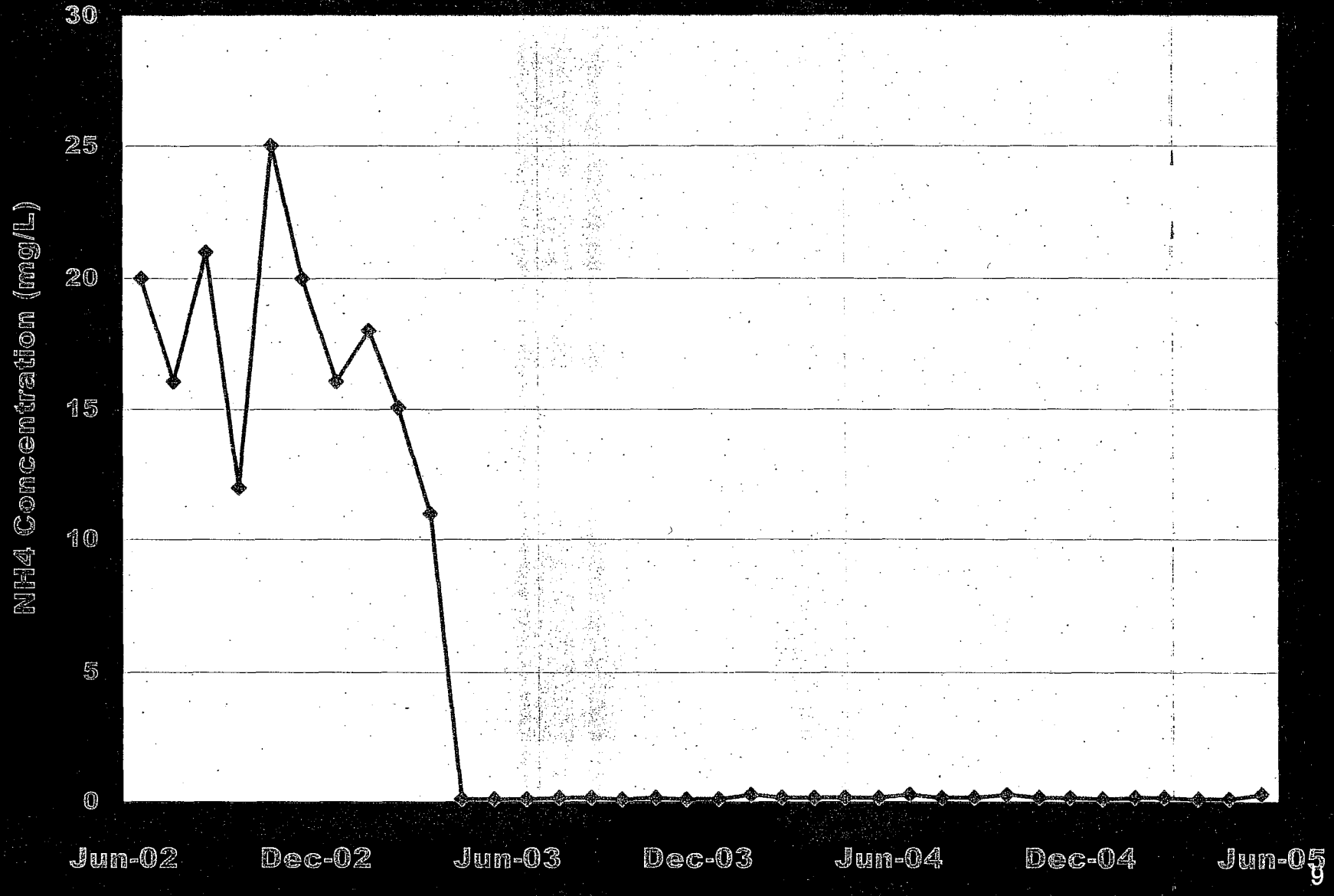




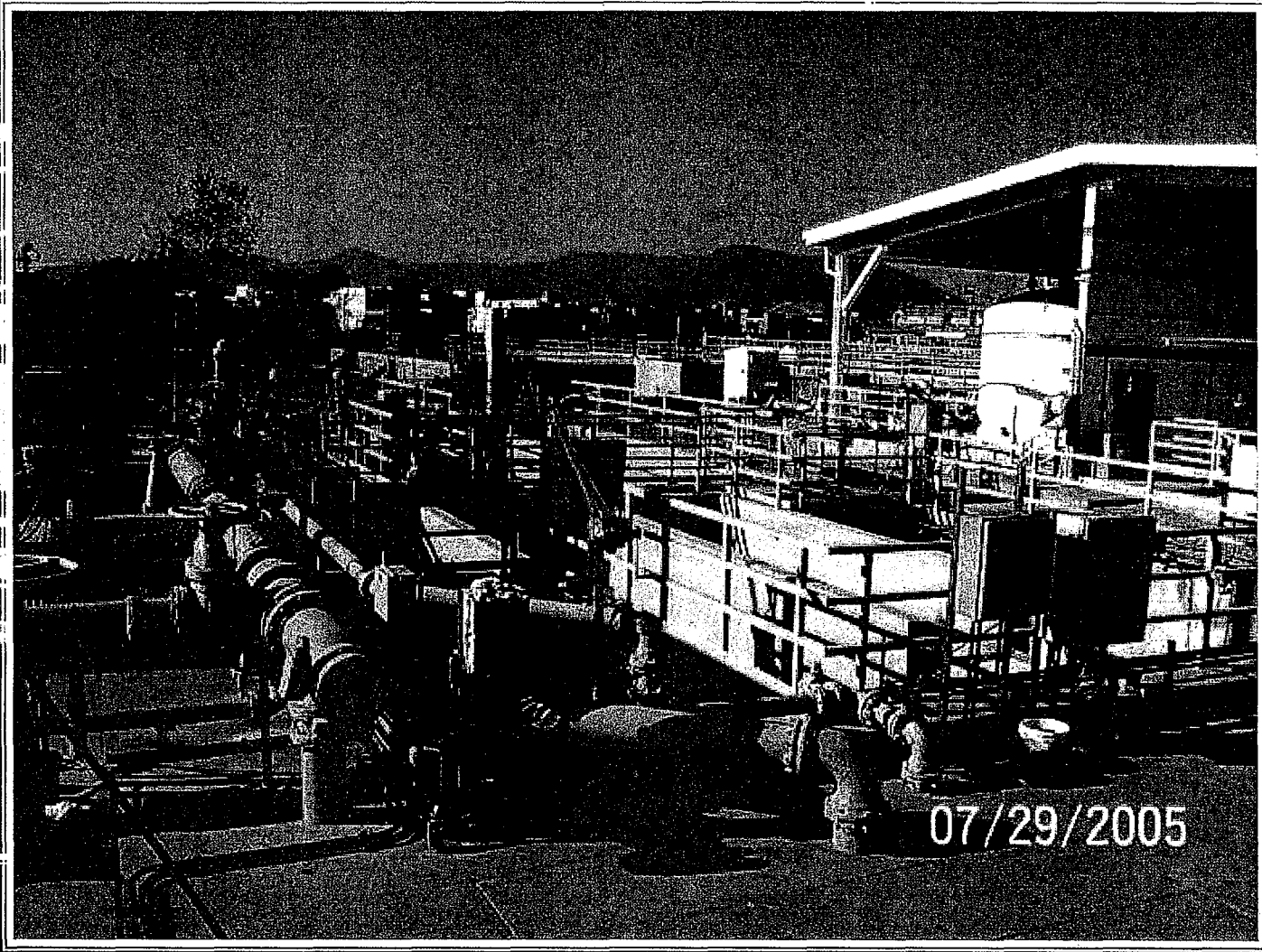
2003 Upgrades – Biological Zones



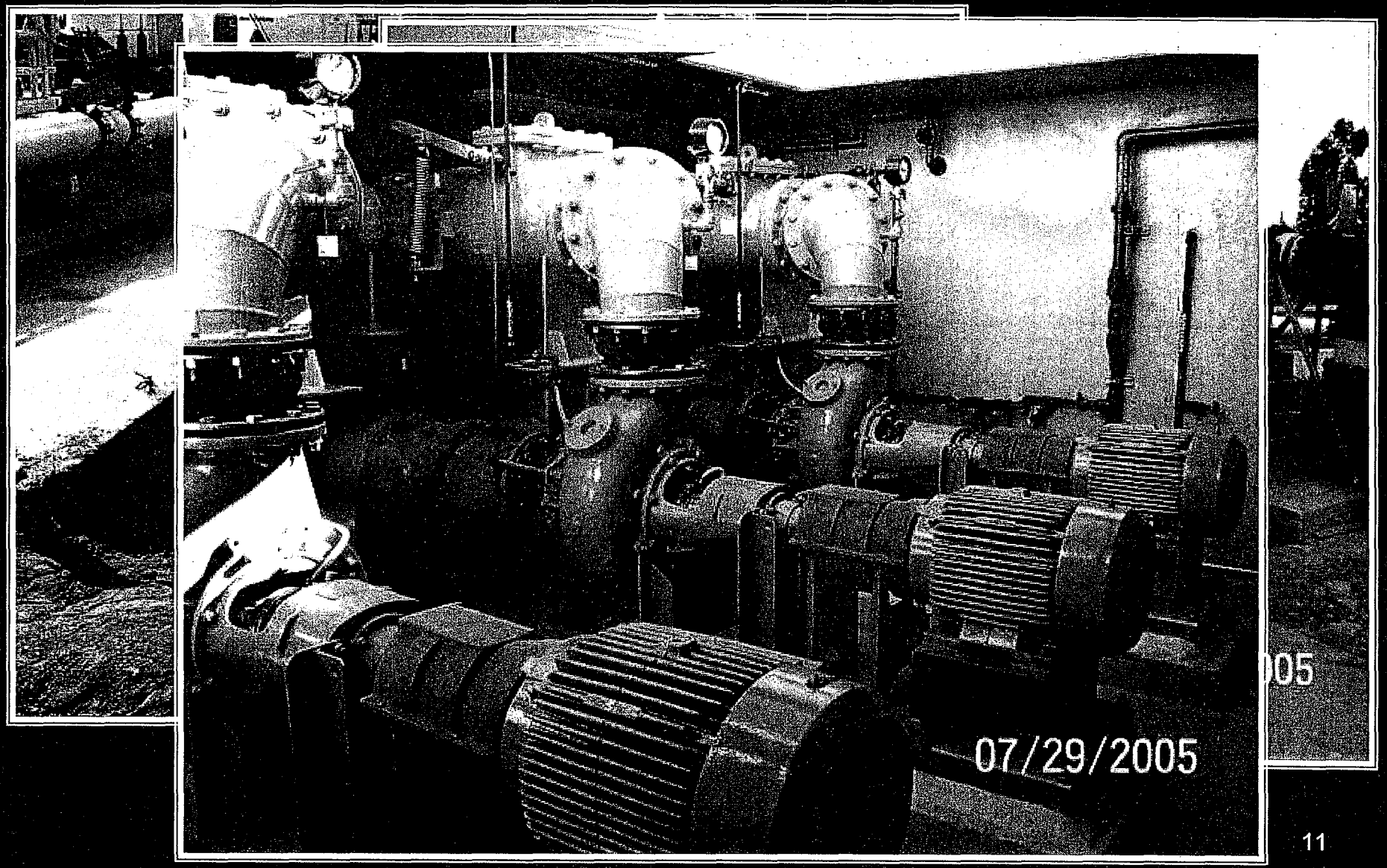
2003 Upgrades – Ammonia Reduction



2005 Upgrades – Disinfection



2005 Upgrades – RAS Pumps



Studies by City of Burbank

- WER Studies
  - Ammonia WER (with LA and LACSD)
  - Copper WER (with LA)
- Algae Impairment Study* (with LA)
- Groundwater Nutrient Loading Study* (with LA)
- Copper Translator Study

* Required by TMDL Implementation Plan

NPDES Permit Issues

1. Effluent limits based on drinking water limits
2. Sanitary sewer overflow provisions
3. Limits imposed where no reasonable potential exists

1. Effluent limits based on drinking water limits

- Data shows no threat to groundwater for these constituents

Groundwater Arsenic Data

Pollock Well #	Date	Result	Water Quality Standard
4	1/28/93	ND	10
6	1/28/93	ND	10
4	5/28/98	ND	10
6	5/28/98	ND	10
4	3/22/99	2.2	10
6	3/22/99	ND	10
6	4/15/99	ND	10
4	7/25/00	ND	10
6	7/25/00	ND	10
4	7/26/01	ND	10
6	7/26/01	ND	10
6	11/3/04	ND	10
4	4/13/05	ND	10

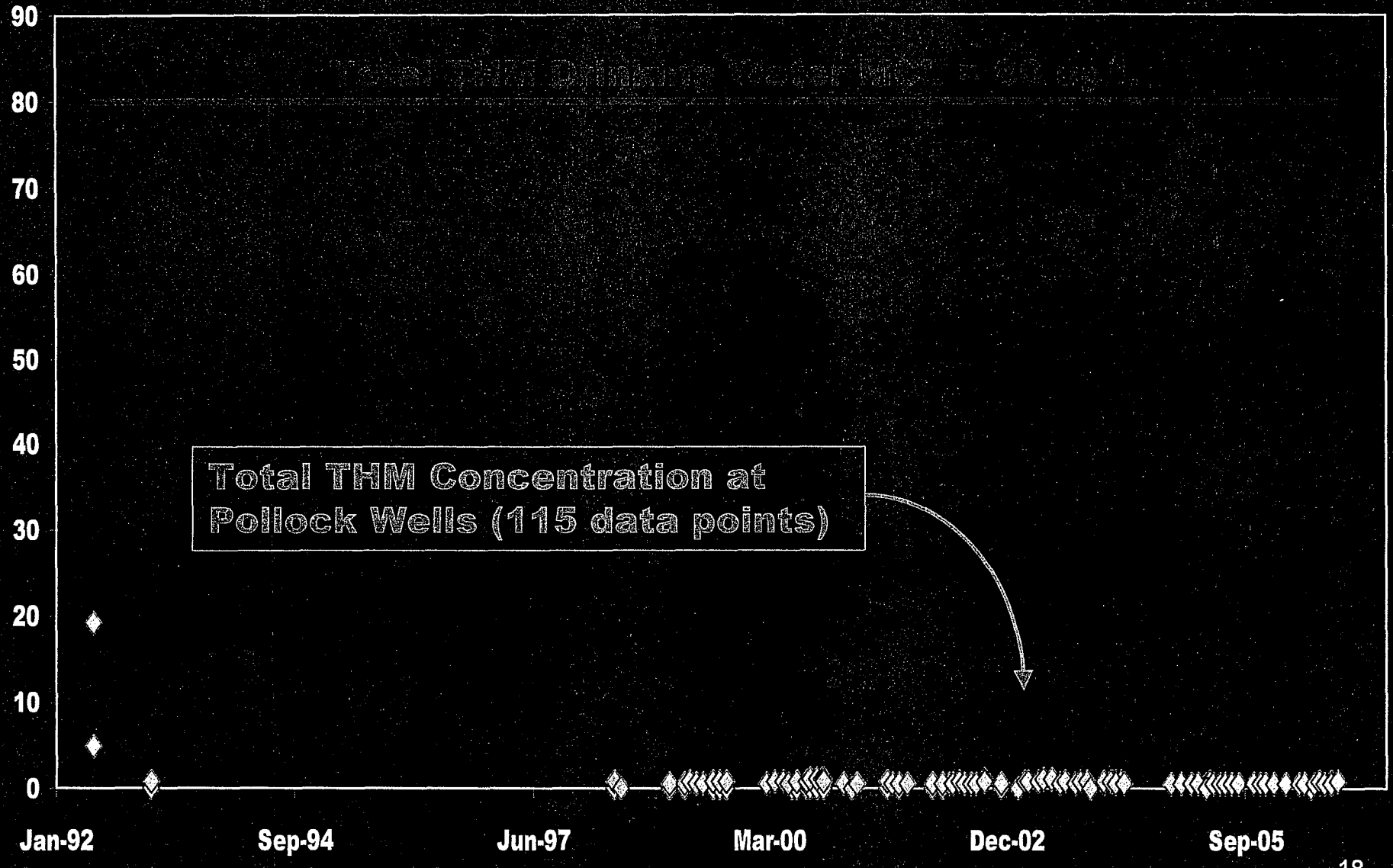
Groundwater
Bis(2-ethylhexyl)phthalate Data

Pollock Well #	Date	Result	Water Quality Standard
4	5/28/98	[illegible]	4
6	5/28/98	ND	4
6	5/12/99	ND	4
4	7/22/99	ND	4
6	8/14/03	ND	4

Groundwater Iron Data

Pollock Well #	Date	Result	Water Quality Standard
4	1/28/93	[illegible]	300
6	1/28/93	[illegible]	300
4	5/28/98	[illegible]	300
6	5/28/98	[illegible]	300
4	3/22/99	[illegible]	300
6	3/22/99	[illegible]	300
6	4/15/99	[illegible]	300
4	7/26/01	[illegible]	300
6	7/26/01	[illegible]	300
6	11/3/04	[illegible]	300
4	4/13/05	[illegible]	300

Groundwater Total THM Data



Suggested Revisions

- Effluent limits based on drinking water limits
  - Replace effluent limits with performance goals

    or

  - Replace effluent limits with groundwater receiving water limits

2. Sanitary sewer overflow provisions

- Requirements in the draft NPDES permit are more stringent than the statewide WDRs

Suggested Revisions

- Sanitary sewer overflow provisions

  Reference the Statewide Collection System WDRs as suggested in the NPDES Permit Template

3. Limits imposed where no reasonable potential exists

- No reasonable potential shown for many constituents with effluent limits

Suggested Revisions

- Limits imposed where no reasonable potential exists

Remove effluent limits for chloride, TDS, sulfate, MBAS, nitrite, cadmium, lead, mercury, and ammonia