# Implementation Status & Results

## Kazakhstan

## Syr Darya Control & Northern Aral Sea Phase I Project (P046045)

Operation Name: Syr Darya Control & Northern Aral Sea Phase I Project (P046045) | Project Stage: Implementation | Seq.No: 19 | Status: ARCHIVED | Last Modified Date: 07-Dec-2010

Country: Kazakhstan | Approval FY: 2001

Product Line: IBRD/IDA | Region: EUROPE AND CENTRAL ASIA | Lending Instrument: Specific Investment Loan

Implementing Agency(ies): Ministry of Agriculture

## Key Dates

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Board Approval Date | 05-Jun-2001 | Original Closing Date | 28-Feb-2007 | Planned Mid Term Review Date | 15-Oct-2005 | Last Archived ISR Date | 28-Jan-2010 |
| Effectiveness Date | 08-Apr-2002 | Revised Closing Date | 31-Dec-2010 | Actual Mid Term Review Date | 31-Jul-2004 | | |

## Project Development Objectives

Project Development Objective (from Project Appraisal Document)

**1. Sustaining and increasing agriculture (and livestock) and increasing fisheries production in the Syr Darya basin; and 2. Securing the existence of Northern Aral Sea and improving the ecological/environmental conditions in the delta area and around the sea leading to improved human and animal health and biodiversity.**

Has the Project Development Objective been changed since Board Approval of the Project?

○ Yes ◉ No

## Component(s)

| Component Name | Component Cost |
|---|---|
| REHABILITATION OF NORTHERN ARAL SEA | 23.19 |
| IMPROVING THE HYDRAULIC CONTROL OF THE SYR DARYA | 40.95 |
| REHABILITATION OF CHARDARA DAM | 14.10 |
| RESTORATION OF AQUATIC RESOURCES | 2.00 |
| MONITORING AND EVALUATION | 1.50 |
| PROJECT MANAGEMENT | 1.60 |

## Overall Ratings

| | Previous Rating | Current Rating |
|---|---|---|
| Progress towards achievement of PDO | Satisfactory | Satisfactory |
| Overall Implementation Progress (IP) | Moderately Satisfactory | Moderately Satisfactory |
| Overall Risk Rating | | Low |

## Implementation Status Overview

All of the main project contracts and activities, and their outcomes, have thus far been encouraging. Positive stories have been written in the media during the past years. Northern Aral Sea (NAS) water levels increased from a low 38m to the desired design level of 42m. The water surface increased to 3,300 km2 in 2009 compared to 2,400 km2 in 2001. In 2010 NAS approached the Aralsk harbor by 35 km compared to 75 km in 2001. Water losses into the desert sinks were reduced from 5 billion m3 in 2003 to less than 1 billion m3 in 2009. Rice planted area increased from 58,500 ha in 2001 to 73,300 ha in 2009. Cattle growing increased from 185 thousand heads in 2001 to 260 thousand heads in 2009. Fish catches from the region increased from 52 tons in 2004 to 2,650 tons in 2009. The increased freshwater inflow has more than halved the salinity levels in NAS to less than 10 gram/liter by August 2010 compared to 2001. Flora and fauna has improved. People reported better health and wellbeing after the micro-climate around the water body has improved.

However, there are pending works under the Aklak-Structure contract that need to be completed as soon as possible. Also there is a need for building on the project success by starting its second phase (SYNAS-2) as soon as possible.

## Results

### Project Development Objective Indicators

| Indicator | Baseline | Current | End Target |
|---|---|---|---|
| Indicator Name<br>Sustaining and increasing agriculture (and livestock) and increasing fisheries production in Syr Darya basin.<br><br>Type: Custom Indicator<br>Unit of Measure: Text | Value<br>Insignificant amount of freshwater fish production and no sturgeon and caviar production. Depressed crop production in irrigated lands and lowcrop yields.<br>Date<br>05-Mar-2001<br>Comment | Value<br>From a low of 52 tons of fish in 2004, about 2,650 to 3,000 tons were caught in the Northern Aral Sea and inland lakes in 2009 (excluding the informal fish-catch data). Water is sufficient to supply all irrigated lands, but so far no clear trend in increased crop production (though it is reported that rice planted area may have increased from 58, 500 ha in 2001 to 73, 300 ha in 2009).<br>Date<br>19-Nov-2010<br>Comment<br>Increased agricultural developments depend not only on availability of water, but also on workable irrigation systems, agriculturalextension, marketing, etc. Further support is needed to reap the benefits from timely water supplies, e.g. through the proposed IDIP-2. | Value<br>Production of fresh water fish about 2,000 tons per year, 500 tons of sturgeon and 30 tons of caviar. Agricultural yields on 150,000 ha up by 20%.<br>Date<br>31-Mar-2017<br>Comment<br>The 2017 date accounts for the envisaged completion of the other post-SYNAS improvements, such as IDIP-2. |

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| Indicator | Baseline | Current | End Target |
|---|---|---|---|
| Indicator Name<br>Securing existence of Northern Aral Sea (NAS) and improving the ecological/environmental conditions in the delta area and around the sea leading to improved human and animal health and biodiversity.<br><br>Type: Custom Indicator<br>Unit of Measure: Text | Value<br>Water salinity in NAS was about 25 g/l. Air and soil salinity was high, negatively impacting population and animal health and negatively impacting the natural environment and biodiversity.<br>Date<br>05-Mar-2001<br>Comment | Value<br>Almost 4 billion m3 of water reached the NAS and a maximum level of 42 m was reached again in 2009. Salinity levels throughout the sea reached less than 10 g/l (around 10 gram/liter in August 2010), half of the levels in 2001. People report better health. Floraand fauna increased.<br>Date<br>19-Nov-2010<br>Comment<br>There are many good media reports that describe the dramatic impact on people, flora, and fauna. | Value<br>Water salinity reduced to between 4 and 17 g/l; improvements in air and soil salinity.<br>Date<br>31-Dec-2010<br>Comment |

**Intermediate Results Indicators**

| Indicator | Baseline | Current | End Target |
|---|---|---|---|
| Indicator Name<br>Major bottlenecks in Syr Darya's carrying capacity removed (e.g. at Chardara dam, Aitek, Kyzylorda, and Aklak);<br><br>Type: Custom Indicator<br>Unit of Measure: Text | Value<br>A number of bottlenecks severely decreasing the carrying capacity of Syr Darya within the Kazakhstan territory.<br>Date<br>05-Mar-2001<br>Comment | Value<br>Construction of the new Aitek structure and rehabilitation of other structures has increased the winter carrying capacity of Syr Darya up to 700 m3/sec, reducing losses into desert sinks to less than 1 Bcm/yr in 2009, compared to 5 Bcm/yr in 2003. Aklak has allowed diversion of 75 million m3 of water into the delta lake system.<br>Date<br>19-Nov-2010<br>Comment<br>Although not all works at Aklak are completed, the structure is now operational. | Value<br>Syr Darya capacity increased during winter to 700 m3/sec, and spills to Arnasai reduced from 3-5 Bcm/yr to 1 Bcm/yr.<br>Date<br>31-Dec-2010<br>Comment |

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| Indicator | Baseline | Current | End Target |
|---|---|---|---|
| Indicator Name<br>Completion of dike enabling filling of the NAS.<br><br>Type: Custom Indicator<br>Unit of Measure: Text | Value<br>Reduced area of the Northern Aral Sea.<br>Date<br>05-Mar-2001<br>Comment | Value<br>Water level has already reached full supply level of 42 m for fourth year in a row in April 2009. NAS area increased from 2,400 km2 in 2001 to 3,300 km2 in 2009 (plus 37%). In August 2010 the NAS approached Aralsk harbor by 35 km (40 Km in 2009) compared to 75 km in 2001.<br>Date<br>19-Nov-2010<br>Comment | Value<br>Water level stabilized between 39 - 42 m in Yr 10 of the project.<br>Date<br>31-Dec-2010<br>Comment |

## Data on Financial Performance (as of 05-Oct-2010)

### Financial Agreement(s) Key Dates

| Project | Loan No. | Status | Approval Date | Signing Date | Effectiveness Date | Closing Date |
|---|---|---|---|---|---|---|
| P046045 | IBRD-46090 | Effective | 05-Jun-2001 | 22-Oct-2001 | 08-Apr-2002 | 31-Dec-2010 |
| P046045 | TF-56801 | Effective | 27-Mar-2008 | 27-Mar-2008 | 27-Mar-2008 | 27-Mar-2012 |

### Disbursements (in Millions)

| Project | Loan No. | Status | Currency | Original | Revised | Cancelled | Disbursed | Undisbursed | % Disbursed |
|---|---|---|---|---|---|---|---|---|---|
| P046045 | IBRD-46090 | Effective | USD | 64.50 | 64.50 | 0.00 | 60.71 | 3.79 | 94.00 |
| P046045 | TF-56801 | Effective | USD | 1.90 | 1.90 | 0.00 | 0.27 | 1.63 | 14.00 |

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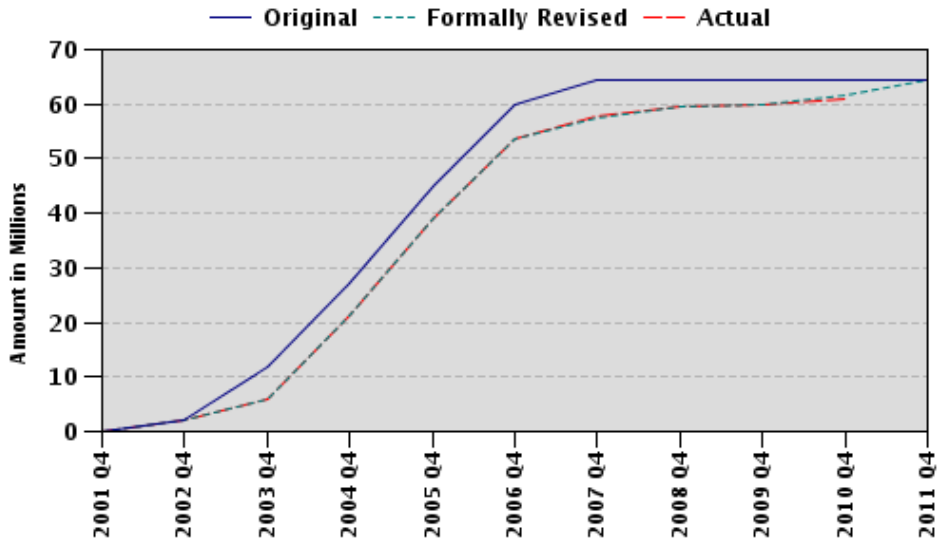
## Disbursement Graph




## Key Decisions Regarding Implementation

There are pending works under the Aklak-Structure contract that need to be completed as soon as possible. Also there is a need for building on the project success by starting its second phase (SYNAS-2) soon. The client and Bank teams will closely follow up to address these two aspects.

## Restructuring History

There has been no restructuring to date.

## Related Projects

There are no related projects.

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