

Yanbu Royal Commission | Saudi Arabia



LANDSCAPE ARCHITECT:

Yanbu Royal Commission

IRRIGATION DESIGN:

Yanbu Royal Commission

GENERAL CONTRACTOR:

Sadeem & Initial

COMPLETION DATE:

On Going

RAIN BIRD SALES PERSON:

Bashar Omari

RAIN BIRD PRODUCTS:

- XFS 0.9 GPH, 12" Spacing Sub-surface Dripline
- PESB-R Valves (1", 1½", and 2")
- VB Series Valve Boxes with purple lids (RND, STD, and JMB)
- Air Relief Valves
- Drain Valves



"Using Rain Bird XFS helped us reduce our water consumption and solved the water run-off issues."

Eng. Saleh A. Al-Zahrani
 Director, Landscaping & Irrigation Department
 Royal Commission for Jubail and Yanbu



PROJECT OVERVIEW

Yanbu City is located in the Western Providence of Saudi Arabia (KSA) and is one of the largest industrial cities in KSA. It is surrounded by the Red Sea and is about 350 kilometers North of the second largest city - Jeddah. Yanbu City is an ongoing residential development project that involves replacing old irrigation systems with new networks of sub-surface dripline.

CHALLENGE

Water conservation has been a primary focus for the Yanbu Royal Commission. Irrigation water is being sourced from a de-salinization and tertiary plants located within an industrial zone and purchased at high costs. Saving water used for irrigation was a significant priority for the city's management.

Other concerns were pedestrian safety and auto accidents caused as a result of the run-off from walkways and roads - which was made worse by excessively windy conditions that prevail most of the year. Large public parks were also a target for vandalism, making all an ongoing maintenance challenge for the city.

SOLUTION

The Yanbu Royal Commission selected Rain Bird's XFS Sub-Surface Dripline with Copper Shield™ technology as the solution to high maintenance costs, the inefficient use of water and it's root-protection qualities. The product of choice was 500 ft. coils of XFS in a 0.9 gph with 12" spacing. More than 3000 coils have been installed in Yanbu's public parks, roadways, highways, street medians and on slopes. Also installed were hundreds of PESB-R valves, valve boxes, air relief and drain valves.