



# Kerry County Council

*Comhairle Contae Chiarraí*

## KERRY CENTRAL REGIONAL WATER SUPPLY SCHEME

### SCART RESERVOIR

#### PART 8 – PUBLIC CONSULTATION PROCESS

#### DESCRIPTION OF PROPOSED DEVELOPMENT

*Planning & Development Act 2000 as set down in Part 8 of the  
Planning & Development Regulations 2001 (S.I. 600 of 2001) and articles 17 to 19 of Planning  
and Development Regulations 2006 (S.I. 685 of 2006)*



**October 2008**  
**Revision B**



**Nicholas O'Dwyer**  
CONSULTING ENGINEERS

## KERRY COUNTY COUNCIL

### SCART RESERVOIR

#### PART 8 – PUBLIC CONSULTATION PROCESS

#### DESCRIPTION OF PROPOSED DEVELOPMENT

**Nicholas O'Dwyer Ltd.,  
Consulting Engineers,  
Nutgrove Office Park, & Arthurs Quay  
Nutgrove Avenue, Limerick  
Dublin 14.**

**October 2008  
Revision B**

PROJECT NO. 40400		Prepared by		Approved by		Issued by	
		Initials	Date	Initials	Date	Initials	Date
<b>Revision</b>	<b>Reason for Revision</b>	RB	12/09/08	RK	12/09/08	RK	12/09/08
<b>A</b>	General revisions following receipt of Client comments on 16/09/08	RB	23/09/08	RK	23/09/08	RK	24/09/08
<b>B</b>	Minor revisions to text following receipt of further Client comments on 03/10/08	RB	06/10/08	RK	06/10/08	RK	06/10/08
<b>C</b>							
<b>D</b>							

## **CONTENTS**

<b>1. INTRODUCTION</b>	<b>1</b>
<b>2. SCOPE OF WORKS</b>	<b>2</b>
<b>3. LOCATION</b>	<b>2</b>
<b>4. DRAWINGS</b>	<b>2</b>
<b>5. DETAILS AND FINISHES</b>	<b>3</b>
<b>6. ENVIRONMENTAL CONSIDERATIONS</b>	<b>4</b>

## **1. INTRODUCTION**

The Kerry Central Regional Water Supply Scheme caters for the water supply requirements of the major population centres of Tralee, Killarney, Castleisland, Castlemaine, and for an extensive rural area in Central Kerry.

The primary source for the Central Regional Water Supply Scheme is Lough Guitane, which is located close to the town of Killarney. Water from there is transferred to the main storage reservoir for the overall scheme at Sheheree, Killarney. From Sheheree, it gravitates to Killarney and to the Killarney town reservoir at Madam's Height. From Killarney, it is pumped via a 600mm diameter pipeline to a 5,000m<sup>3</sup> capacity storage tank at Scart near Farranfore. From Scart, water feeds onwards by gravity to Tralee with various off-takes supplying water to Castlemaine and Castleisland and the surrounding areas. The tank at Scart was originally designed to serve only as a Break Pressure Tank (BPT). However with increasing use of the Central Regional Water Supply Scheme to serve additional areas outside of the Killarney/Tralee corridor, the tank at Scart has assumed the role of a major service reservoir catering for a significant supply area.

At present, the water demand north of Scart is of such an order that the Scart BPT affords only a little over 3 hours of storage. This is contrary to best practice where a minimum storage time of 24 hours would be regarded as necessary to minimise serious disruption of supply to consumers in the event of a breakdown in any part of the supply network.

Following an assessment of the storage requirements, Nicholas O'Dwyer Ltd., acting on behalf of the Kerry County Council, presented a Preliminary Report, which recommended the construction of a 12,500m<sup>3</sup> capacity reservoir at Scart. This recommendation was accepted by Kerry County Council and subsequently approved by the Department of Environment (DOE), now the Department of Environment, Heritage and Local Government (DEHLG). The proposed reservoir was then included in the Water Services Investment Programme.

## **2. SCOPE OF WORKS**

The works associated with the proposed development involve the construction of a new 12.5ML (12,500m<sup>3</sup>) reservoir at Scart along with associated landscaping and siteworks. The proposed reservoir will consist of two separate compartments and will interlink with the existing Break Pressure Tank on the site and with existing pipework there.

## **3. LOCATION**

The Scart reservoir site is located in the townland of Scart, close to Farranfore. It is approximately 22 kilometres south east of Tralee and approximately 11 kilometres north of Killarney. It lies a short distance from, and to the east of, the main roadway (N22) which connects Killarney and Tralee.

The proposed reservoir is to be located adjacent to, and to the rear of, the existing tank on the site.

## **4. DRAWINGS**

The following drawings accompany this document:

<b>Drg. No.</b>	<b>Title</b>
40400-PC-01A	Site Location Plans
40400-PC-02A	Proposed Site Layout Plan & Contiguous Cross Section
40400-PC-03A	G.A. Top of Reservoir
40400-PC-04A	G.A. Top Water Level
40400-PC-05A	G.A. Reservoir Base Level
40400-PC-06A	Sections Sheet 1
40400-PC-07A	Sections Sheet 2
40400-PC-08A	3D Views
40400-PC-09	Elevations Sheet 1
40400-PC-10	Elevations Sheet 2

## **5. DETAILS AND FINISHES**

The details and finishes for the proposed works are as follows:

### **a) Proposed Works**

The proposed new structure will be a twin celled reservoir of 12,500m<sup>3</sup> capacity. The dimensions of the reservoir will be approximately 60m x 60m in plan area and for the most part will be recessed into the ground. New pipework will be constructed wholly within the reservoir site, integrating the existing and new storage facilities.

### **b) External Finishes to Structure**

The proposed reservoir will comprise in-situ concrete walls and floors and pre-cast concrete roof slabs. Where the top level of the structure will lie above existing ground level, the reservoir will be surrounded with grassed embankments up to the full height at a maximum slope of 1 vertical to 2 horizontal. Where it is recessed into the hillside, the existing ground adjacent to the reservoir will be sloped off at a similar gradient of maximum 1 in 2, and a reinforced concrete retaining wall will be used, where required, to front the retained ground.

A waterproof layer will be provided on the external surface of the reservoir roof, and to minimise maintenance, the entire roof slab will be covered with stone chippings

### **c) Fencing and Handrailing**

Along the boundaries of the site the existing perimeter fencing, which consists of 2.4 m high concrete post and wire, will be retained. Where required around the top of the reservoir, safety handrailing will be provided and will be of galvanised tubular steel construction.

## **6. ENVIRONMENTAL CONSIDERATIONS**

- **Human Beings**

The proposed development will meet the long term storage requirements for the Scart element of the Kerry Central Water Supply Scheme, and will ensure the provision of a secure supply for the hinterland. The supply area serviced through the Scart storage facility has an existing population estimate of approximately 39,000 people and the proposed development will cater for a future population of approximately 61,000 people in the year 2025. Consequently, the proposed development will have a very beneficial impact due to increased water supply security for residential, commercial, industrial and agricultural uses.

During the construction period there will be an increase in traffic volumes as a result of employees travelling to and from the site and for the delivery and disposal of construction related materials. This will impact on local residents only during working hours but will be temporary in nature. There will be no permanent increase in traffic volumes, as the proposed development is an expansion of an existing facility and future traffic volumes will closely mirror the very low existing levels.

Suitable traffic management measures will be implemented during the construction period to mitigate potential construction related impacts and it is intended that construction related activities will be restricted to normal working hours.

- **Flora and Fauna**

On request, Mr. Tim Burkitt, Conservation Ranger, National Parks & Wildlife Service (NPWS), examined the site to determine if any impacts were likely to arise due to the development. Having examined the NPWS map database and other nature conservation issues, Mr. Burkitt confirmed that National Parks & Wildlife have no issues with the proposed development of this site.

No part of the proposed development is located within or in close proximity to any designated Natural Heritage Areas (NHA) or candidate Special Areas of Conservation (cSAC).

- **Air**

There may be an impact on air quality through the generation of dust during the construction stage. This impact will be temporary in nature and best construction practice will be implemented to mitigate the impact. The proposed reservoir at Scart is an extension of an existing works and there will be no permanent impact on air quality as a result of this development.

- **Noise**

During construction, additional noise will be generated by construction equipment and additional construction traffic. Best practice measures will be implemented to ensure levels remain within acceptable limits. As the proposed reservoir at the site is an extension of an existing facility, there will be no permanent noise impact as a result of this development.

- **Cultural Heritage**

A desktop archaeological assessment of the proposed location has been carried out by Mr. Michael Connolly, Kerry County Archaeologist, and an Archaeological Impact Statement Report has been prepared dated May 2008. No impact on cultural heritage, arising from the proposed development, is anticipated.

Comment was also sought and obtained from the Kerry County Council Heritage Office which confirmed that the proposals had no impact from a heritage perspective.

- **Water Quality and Fisheries**

There are no streams or rivers in close proximity to the proposed reservoir and there will no be direct impact in streams and rivers from the proposed reservoir. Consequently, it is not anticipated that the proposed development will have any impact on Water Quality and Fisheries.

- **Landscape**

The proposed reservoir will be located adjacent to the site of the existing Break Pressure Tank (BPT) on the site. The reservoir structure itself will be screened with grassed embankments which will be placed up to the full height of the reservoir walls and will match the existing adjacent Scart BPT. There will be no significant impact on views from the local public road network in the area.