

Bathing Water Profile

Ballygally

May 2016



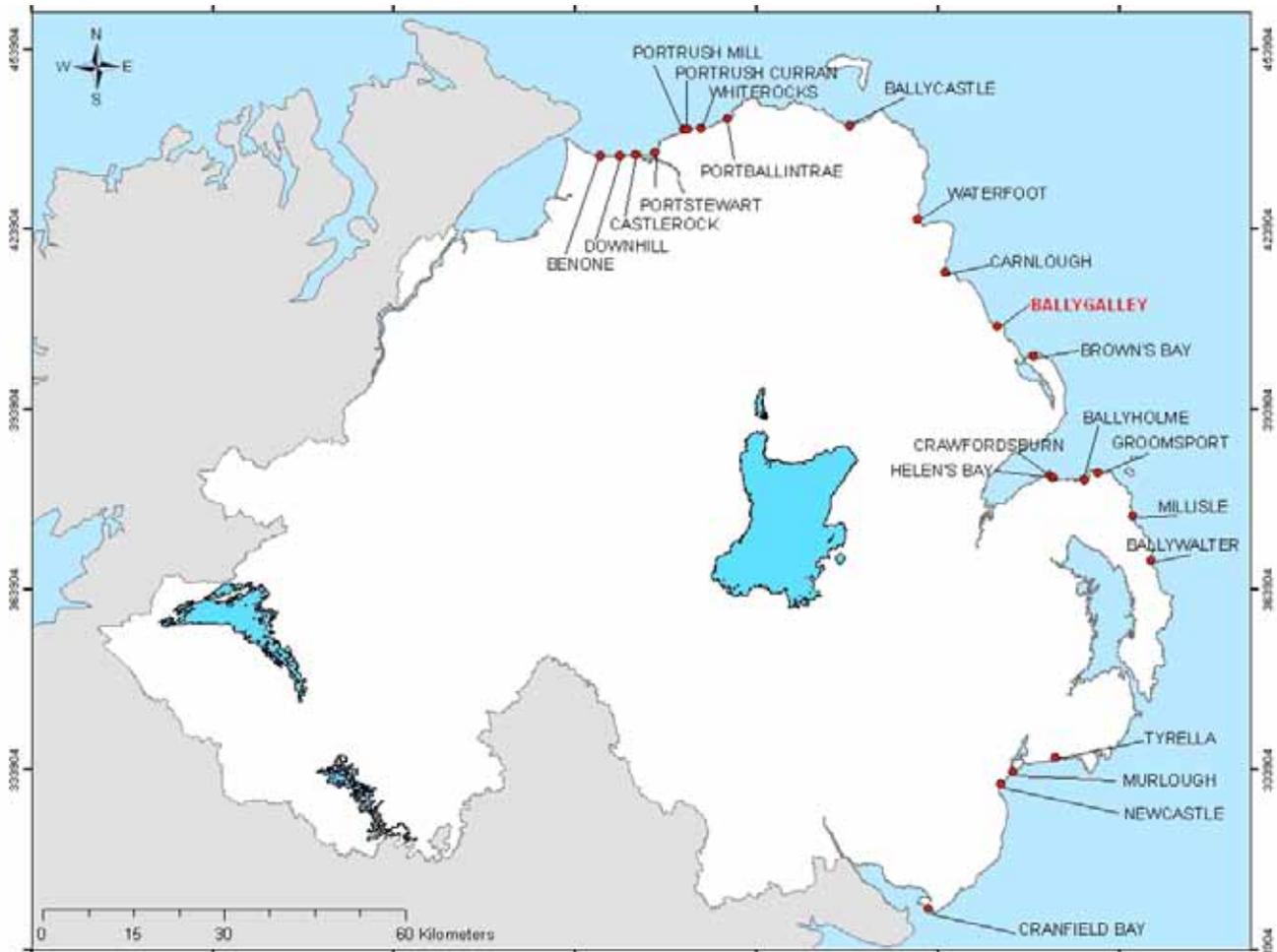
Department of
**Agriculture, Environment
and Rural Affairs**

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Map of Northern Ireland's Bathing Waters 2016



Background to Bathing Water Profiles

This is one of a series of profiles which cover all 23 of Northern Ireland's identified bathing waters. These are the most popular of our bathing areas and have been 'identified' as part of a network of European bathing sites.

The purpose of the bathing water profile is to help the bather to make an informed choice before bathing. The profile gives information on the physical, geographical and hydrological characteristics of the bathing water while assessing the possible pollution risk at the site. Bathing water profiles are a European requirement, under the 2006 Bathing Waters Directive (www.daera-ni.gov.uk/articles/bathing-water-quality). It is our intention to review the profiles annually.

All of our bathing waters are monitored on 20 occasions during the bathing season. In Northern Ireland the season runs between 1st June and 15th September each year. Bathing waters are tested for bacteria which indicate faecal contamination. Results are published weekly to bathing water operators and to the NI Direct web site (www.nidirect.gov.uk). Waters are then classified annually as Excellent, Good, Sufficient or Poor, as defined by the European Bathing Water Directive, 2006.

Key Information

Bathing Water Name	Ballygally Bathing Water
EU bathing water ID number	UKNO5_51000
Location	UK/Northern Ireland/County Antrim/Antrim Coast
Year of identification	2006
Local council area	Mid and East Antrim Borough Council
Bathing Water Operator	Mid and East Antrim Borough Council
Description of bathing beach	Sand, approximately 0.6 kilometres in length.
Monitoring Point	Western end of bathing water, D37430781 (Map 2)

A Description of Ballygally bathing water and the surrounding area

Ballygally bathing water is located on the Antrim coast of Northern Ireland. The bathing water is approximately 0.6 kilometres in length and is comprised mainly of sand with rocky outcrops at both ends. The beach is backed by rock armour and a sea wall. There are two car parks in the area. The main one is opposite the bathing area and a smaller one is approximately 200m south of the bathing area. Picnic sites are located at the smaller car park and on a grass area opposite the main car park. Across the road is the residential area of Ballygally, population approximately 714, including a hotel and public toilet facilities.

The wider catchment for this bathing area consists of improved grassland, forestry and arable farming.

There is one small river which flows out to sea close to the western end of the bathing beach. This river flows through a rural environment and the village of Ballygally and may be influenced by rural and urban discharges.

Bathing Water Quality History at Ballygally

Ballygally bathing water was identified in 2006. Monitoring and reporting is carried out by DAERA Marine and Fisheries Division.

Ballygally Bathing Water Quality 2015



In 2015 the 1976 Bathing Water Directive was replaced by the European Bathing Water Directive 2006/7/EC. This revised directive introduced more stringent bathing water standards. Bathing Waters are classified as Excellent, Good, Sufficient or Poor (see above). This classification is based on a statistical assessment of results from the last four years.

All of Northern Ireland's water quality objectives are set out in River Basin Management Plans (www.daera-ni.gov.uk/topics/water/river-basin-management). Within the Programme of Measures in the River Basin Management Plans there are a number of measures which relate directly to the protection of bathing waters.

Potential sources of pollution and measures to reduce the impact at the bathing water

It should be noted that weekly classification at Ballygally bathing water is generally Good or Excellent.

The potential sources of pollution have been split into main categories. These are waste water systems in urban areas and rural source pollution, including agriculture.

DAERA Marine and Fisheries Division work with NIEA and other Departments to identify and resolve sources of pollution.

Are there Waste Water Treatment Works in the vicinity of Ballygally beach?

There are no waste water treatment works in the vicinity of Ballygally bathing water (Map 1). The sea port and industrial town of Larne (approx pop 18,000) is to be found approximately 6.5 km to the south of Ballygally. A major waste water treatment facility for the greater Larne area, including Ballygally, was commissioned in 2008 with a treated effluent discharge approximately 7 km (by sea) to the south of the Ballygally bathing water. The waste water receives secondary treatment with UV disinfection throughout the year.

Are there other risks of pollution from waste water systems?

The urbanisation associated with the village of Ballygally, is a potential source of pollution, especially during and after periods of prolonged or heavy rainfall. In the event of very heavy rainfall a collection system may not be able to deal with all the flow received. A portion of the contents of the collection system may overflow to a waterway under storm conditions. [This is why there is general advice not to bathe during or up to 2 days after such rain.](#)

The municipal collection and treatment of waste water has the potential to cause pollution because all collection systems must be designed to overflow in periods of extreme wet weather or following failure of the pump system. If systems are not designed in that way, then sewers may overflow into residential areas. Within the Ballygally area there are sewage pumping stations (SPS) with associated emergency overflows as shown on Map 1.

In order to reduce the potential for pollution in the water environment from these systems NIEA requires that all current and proposed systems meet the requirements of the Urban Wastewater Treatment Directive (www.daera-ni.gov.uk/publication/waste-water-treatment-works-discharges-and-ec-urban-waste-water-treatment-directive) and the Water Framework Directive (WFD).

During the expansion of any urban area, there is the potential for misconnections between the sewer system and surface drains, which may allow untreated wastewater to enter the water environment. When these become apparent, NIEA pursues them as pollution incidents.

A further measure in tackling urban pollution is through the use of sustainable urban drainage systems (SUDS), which NIEA encourages through its SUDS Strategy. Other measures include compliance with the Northern Ireland Water Order 1999 and implementation of Pollution Prevention Guidelines (www.netregs.org.uk/library_of_topics/pollution_prevention_guides.aspx).

Are there risks from agriculture and rural activities?

Agriculture is a major industry in Northern Ireland and the land cover within the catchment area of Ballygally bathing water is improved grassland, forestry and arable farming. Areas within the catchment where agriculture is the dominant land use may be subjected to inputs from chemical fertilisers and organic wastes which can contribute to pollution problems in the surrounding area. Prolonged periods of rainfall can cause surface runoff of these organic wastes, such as animal slurries, contributing to the bacteria content in the water environment.

The Nitrates Action Programme Regulations (Northern Ireland) 2010 (previously the Nitrates Action Programme Regulations (Northern Ireland) 2006) and the Phosphorus (Use in Agriculture) Regulations (Northern Ireland) 2006 were introduced to improve the use of nutrients on farms and as a result improve water quality throughout Northern Ireland. The effectiveness of these regulations is continually reviewed through monitoring, enforcement and education.

Septic tanks also have the potential to cause localised pollution, but there is no evidence to suggest that this is impacting Ballygally bathing water.

Are there other potential sources of pollution?

Other sources of pollution exist in this bathing area, these include;

- Dogs
- Horses
- Litter
- Fly tipping

All issues have been addressed through local signage to ensure that these controllable causes of pollution do not affect the bacteria content of the water.

NIEA have compiled River Basin Management Plans, these take an integrated approach to the protection, improvement and sustainable use of the water environment. Each plan identifies existing pollution reduction programmes and additional measures which could be implemented to maintain or improve the water quality.

Ballygalley is located in the North Eastern River Basin Management Plan - further details can be found at www.daera-ni.gov.uk/publications/north-eastern-river-basin-management-plan-2015-2021

Is there evidence of short term water pollution events at Ballygally?

From 2012-2015 there were eight confirmed pollution incidents within 3kms of the bathing water. Four of these incidents occurred during the bathing seasons.

What should I do if I see a pollution incident?

If you see a water pollution incident, you should immediately contact NIEA through the Emergency Water Pollution Hotline, which is operated 24 hours.

Phone: 0800 807060

When a pollution incident is reported or pollution is found to be affecting the water quality of a bathing water, an immediate investigation is instigated. All possible sources of pollution are checked. In addition, a resample will be collected to monitor whether the beach is still polluted. Bathing waters may be closed (by local authority or controlling body) until the water quality has improved and levels of bacteria are within mandatory standards.

Macro-Algae, Phytoplankton and Cyanobacteria (blue-green algae)

Ballygally bathing water is not at risk of a proliferation of macro-algae, phytoplankton or cyanobacteria (blue/green algae).

Daily water quality forecasts

There is presently no facility to predict bathing water quality on a daily basis. However, the general advice remains: do not bathe during or for up to 2 days after heavy rainfall events.

Contact details

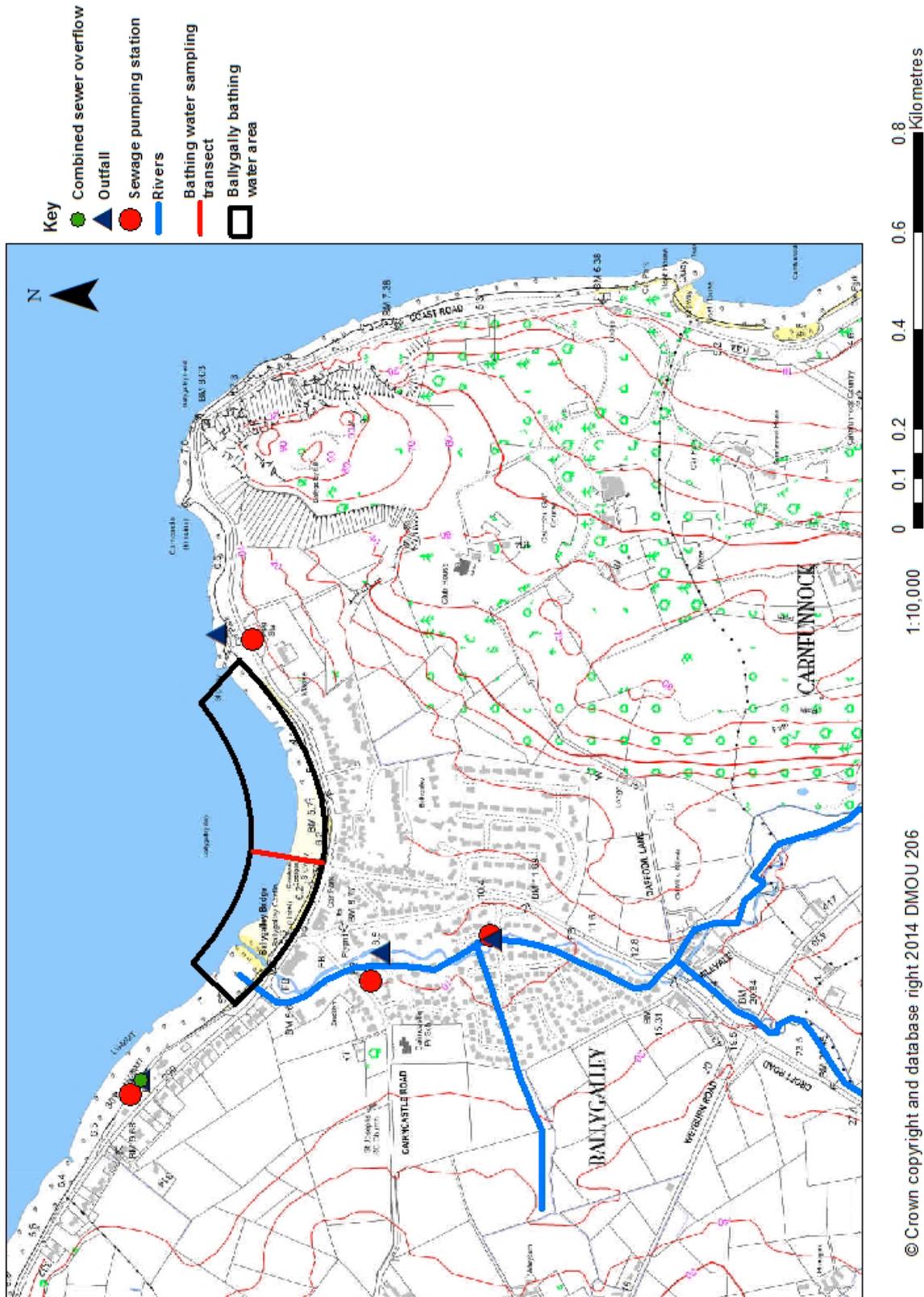
For general information about bathing waters:

DAERA
Marine and Fisheries Division
17 Antrim Road
Tonagh
Lisburn, BT28 3AL
Email: Marine.InfoRequests@daera-ni.gov.uk
Phone: 028 9262 3244

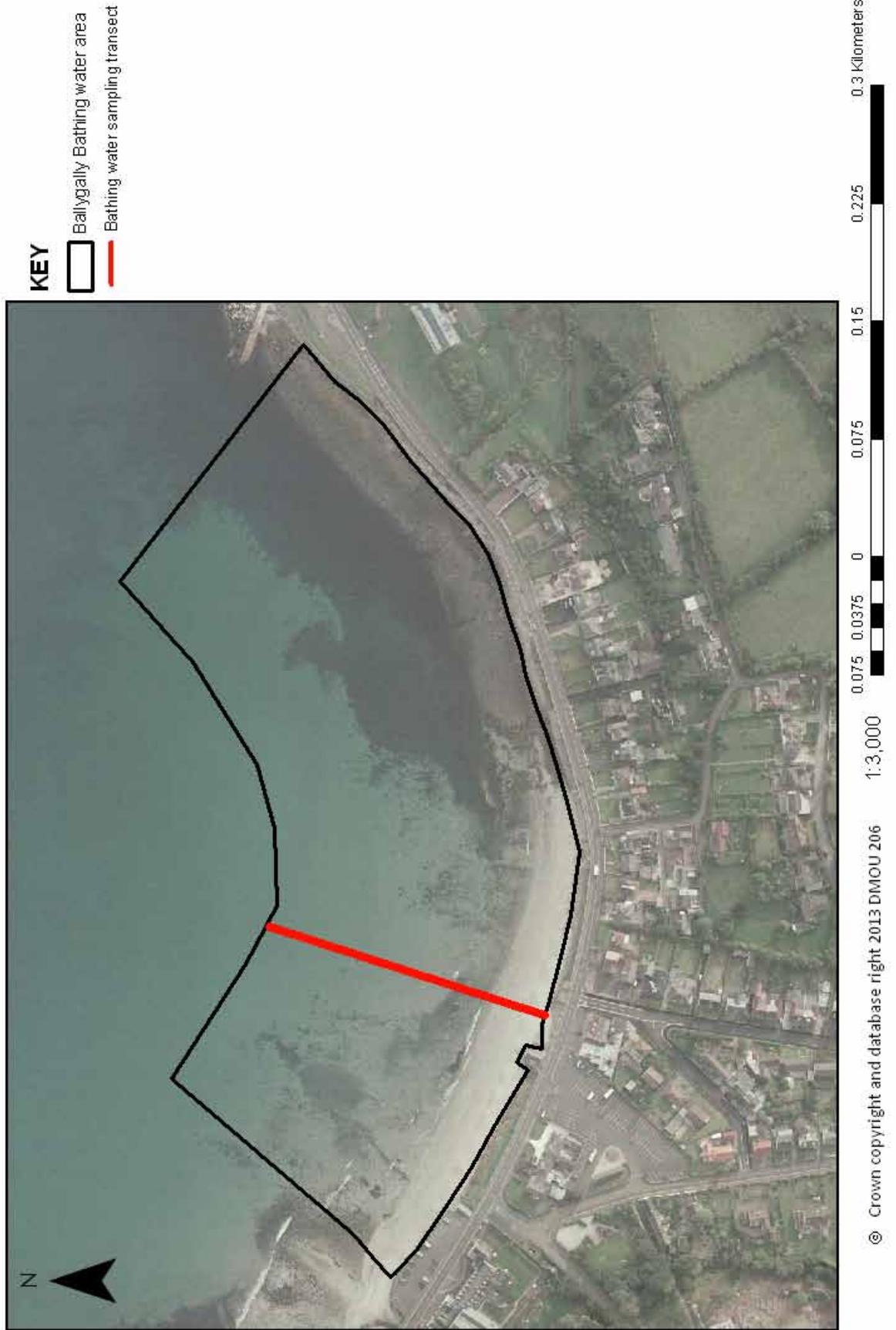
**Water Pollution
24hr Hotline**
Phone: 0800 807060

Local Authority
Mid and East Antrim Borough
Council
Head Office
The Braid
1-29 Bridge Street
Ballymena
BT43 5EJ
Phone 0300 124 5000

Map 1
Ballygally Bathing Water -
Potential Pollution Sources



Map 2
Ballygally Bathing Water -
EC Bathing Water Sample Location



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