

***Green Head Volunteer
Bush Fire Brigade***

Green Head Fire Shed
Lot 709 Green Head Rd
GREEN HEAD WA 6514

Fire Hydrant Audit - Sep 2011

Keeping Our Community "Safe"

Introduction:

This audit is to enable all stake holders to have a “As of Now Status” of the Green Head, town reticulated fire hydrant system.

Auditor:

Geoff Angwin – Fire Control Officer – Green Head Volunteer Bush Fire Brigade

Reference:

The Standards applied during the audit have been obtained from the following reference:

Introduction To Firefighting: Rev 1.0 February 2006. Section 5.1 Water Supplies – Hydrants.

Audit Period:

The audit was conducted over 2 days - 3rd – 4th September 2011

Audit Criteria:

The audit criteria was lined against the standards as applied in the above “Reference”, Inclusive of the following:

Hydrant Type, Serviceability of Hydrant, Hydrant Visibility, Access to Hydrant, Hydrant Spacing, Hydrant Indicating.

Measurements:

The measurement used, in determining the results of this audit are pure percentage, based on the total number hydrants in the area of audit.

Hydrant Pressure:

Note:- Hydrant pressure was not measured as part of this audit. The auditor was not qualified or equipped to perform this function.

Audit Findings

Hydrant Water Supply:

The water supply to the hydrant system is via the water mains, being part of the "Water Corporations" domestic water supply infrastructure.

System Type:

The system is referred to as a "Reticulated" hydrant system.

Number of Hydrants:

A total of 54 hydrants are connected to the reticulated system.

Hydrant Types:

All hydrants in the Green Head reticulated system are "Below Ground" hydrants.

Hydrant Serviceability:

54 hydrants were tested for their serviceability. 53 were deemed as serviceable. 1 hydrant at the junction of Battersby Rd and Rowlands Rd was deemed as unserviceable.

Score = 98%

Hydrant Visibility:

The rule used to determine "Hydrant Visibility" was "Could it be Seen – Yes/No". All hydrants were visible. Hydrant Boxes were all painted and exposed.

Score = 100%

Unrestricted Access:

Hydrant access is an essential criteria. All hydrants should have a 1-meter "Clear Zone" to allow timely installation of the standpipe and hoses. The "Clear Zone" exists on all hydrant locations.

Score = 100%

Hydrant Spacing:

Hydrant spacing varies within the Green Head town site. This is mainly due to the change in standards. The spacing in the older areas of Green Head is greater than the new developments of Hunter Cres, South Bay and the Light Industrial Area. These spacing all fall within the standard. Knowledge of the spacing is important to allow the correct fit out of hose lengths on the fire tenders.

Score = 100%

Hydrant Indicators:

Indicators are the prime mode for locating a fire hydrant. Not being able to locate a hydrant could mean the difference between saving an asset or it's destruction. The standard for "Hydrant Indicators" is based an either / or scenario depending on the infrastructure available. The standard has three alternatives based on that available infrastructure. The alternatives being: Use of Street Poles (Power / Light), Installation of Indicator Posts and the use of Road Markings. The Green Head Brigade has adopted a dual use of indicators, Reflective Road Delineators and Clear Visible Road Markings

The audit has shown that "Hydrant Indicators" (Reflective Road Delineators and Clear Visible Road Markings) are all in place and maintained.

Reflective Delineators

Score = 100%

Road Markings

Score = 100%

Audit Summary:

As the scoring indicates the Green Head Fire Hydrant System is in good order. 98% of hydrants are serviceable.

Recommendations

Hydrant Serviceability:

- Hydrant Work Order to be raised for # 40 Battersby Rd.

Hydrant Visibility:

- Hydrant Boxes to be maintained and painted annually.

Unrestricted Access:

- Clear Zone to be maintained around hydrant

Hydrant Indicators:

- Reflective Delineators be maintained and replaced as and when required
- Visible Road Markings be maintained and re-stenciled annually

Report Distribution:

Green Head Volunteer Bush Fire Brigade

Shire of Coorow

Green Head Community Association

FESA (Area Controller)