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Attention: [REDACTED]

12/3/06

Dear [REDACTED]

Please find the following Backflow assessment and quotation as requested.

BACKFLOW PREVENTION ASSESSMENT REPORT

CLIENT. [REDACTED]

REF. Q1128

SITE ADDRESS. [REDACTED]

SITE CONTACT. [REDACTED] **PHONE.** [REDACTED]

TYPE OF INDUSTRY. [REDACTED]

DATE OF ASSESSMENT. 12/03/06

ASSESSED BY. PAUL MILES

WATER SUPPLY DETAILS. The property is supplied by a 50mm metered service No [REDACTED] from [REDACTED] and a 100mm metered service No [REDACTED] supplied from [REDACTED]

The assessment revealed the following areas within the property where cross-connections exist or where potential cross-connections create a risk of contamination to the potable water supply.

1. **RISK.** Laboratory. A hose is connected from the distilled water plant and terminates below the sink level, creating a potential cross connection between the potable supply and sewer.

SOLUTION. Secure the hose above the spill level of the sink to maintain an air gap.

2. **RISK.** The Flusher tank on the roof of the admin building has water added via a ball-float valve. The water inlet is below the overflow outlet

creating a risk of cross-connection between stored water and the potable supply.

SOLUTION. Fit new 50mm overflow outlet to maintain an air gap between the stored water and the water inlet.

3. RISK. The Truck wash detergent tanks have water added at the base of the tanks creating a cross-connection between the stored contaminated water and the potable supply.
SOLUTION. The water supply to the truck wash tanks must be re-plumbed to maintain an air gap above the spill level of the tanks or install a 20mm RPZD in the supply pipework.
4. RISK. The TRICO bath make-up tank has water added via a ball-float valve. The water inlet is below the overflow outlet creating a risk of cross-connection between stored water and the potable supply.
SOLUTION. Fit new 50mm overflow outlet to maintain an air gap between the stored water and the water inlet. Note; At the time of our assessment a continuous flow of water was detected while the equipment appeared not to be in use.
5. RISK. The Demineral tank at the large Cooling Tower has a water inlet via a ball-float valve. The overflow outlet is below the water inlet but it's size may not guarantee separation of supplies creating a risk of cross-connection in the event of ball-float failure.
SOLUTION. Upgrade size of overflow outlet or add extra overflow to maintain an air gap between stored water and the potable supply.
6. RISK. The small Cooling Tower utilises an unsecured hose to add water during peak load. The hose lays loose near the tower basin. Backflow may occur if the hose was in use and submersed within the tower basin during an interruption to the mains water supply.
SOLUTION. Upgrade the size of the fixed make-up water to the Cooling Tower or re-plumb the hose tap supply to above the tower basin and delete the hose.
7. RISK. Unsecured wash-down hoses at LNG PPU, Cooling Towers, VIE and throughout the site create a risk of cross-connection with hazardous liquids. Backflow can occur when a hose is in use and submersed in liquid during an interruption to the mains water supply.
SOLUTION. All unsecured hose taps on the site should be fitted with vacuum breaker hose connections to reduce the risk of backflow occurring and contaminating the drinking water.
8. RISK. The header tank at the Fire pump has an overflow configuration that may not guarantee separation between stored water and potable water.
SOLUTION. Upgrade the size of the overflow outlet to maintain an air-gap between stored water and the potable supply.
9. RISK. Jacking pumps at the Fire pumps are supplied potable water by direct connection creating a cross-connection between Dam water and the

potable supply. Backflow can occur if the jacking pumps are in use during an interruption to the mains water supply.

SOLUTION. A high risk Backflow Prevention Device must be installed in the 25mm pipe-work supplying the fire pump area as Zone protection to separate the hazardous area from the drinking water on the site.

In evaluating the risk to South East Waters reticulated supply in [REDACTED] I found areas as described above where potable water is supplied to Plant and Apparatus or where work procedures create a possible risk hazard to the water supply. Consequently the risk hazard to the reticulated supply is considered HIGH and a HIGH risk backflow prevention device is required to be fitted to the 50mm Metered assembly from [REDACTED].

We suggest the installation of a HIGH-risk backflow prevention device be installed at your property boundary at the 100mm meter to protect your neighbors from potential hazards on your site.

NOTE: As your site is supplied water from a neighboring site, we suggest confirmation from them, that the potable water that they supply you, is not compromised by potential or existing cross-connections at Plant and Equipment on their site.

QUOTATION.

We are pleased to submit the following quotations Excluding GST to prevent contaminants from entering the drinking water at the above site.

We have allowed for the following works,

1. To shorten hose and secure above sink.
[REDACTED]
2. To supply and fit new overflow outlet.
[REDACTED]
3. Supply, install, test and commission a HIGH RISK Backflow prevention device on the water make up pipe.
[REDACTED]
4. To supply and fit new overflow outlet.
[REDACTED]
5. To supply and fit new overflow outlet.
[REDACTED]
6. To alter the pipework to allow water to be added manually when required without the need for a hose.
[REDACTED]
7. To supply and fit vacuum breaker hose connections each
[REDACTED]
8. To supply and fit new overflow outlet.
[REDACTED]

9. Supply, install, test and commission a HIGH RISK Backflow prevention device on the water make up pipe.
[REDACTED]

10. Supply, install, test and commission a 50mm HIGH RISK Backflow Prevention device at the 50mm Metered service from Hammond Road
[REDACTED]

11. Supply, install, test and commission a 100mm HIGH RISK Backflow Prevention device at the 100mm Metered service from the GASNET site.
[REDACTED]

I hope this assessment and quotation meets with your approval and look forward to working with you in the future,

Yours truly,

Paul Miles.