

Setting up to receive bulk CalSap

Tank Specifications

- Optima Agriculture recommends that you install a high density polyethylene tank with a minimum Specific Gravity of 1.30. Please check with your tank supplier to ensure your tank meets the CalSap SG rating.
- 22,000 – 45,000 litres tanks are ideal tank sizes as they can hold a single trailer or road train delivery load.
- Tanks should be fitted with a top filling point which will allow the tank to be top filled from ground level and bottom inlet/outlet points.
- The inlet/outlet points of the tank should be welded flanges. Threaded outlets can be used but it is recommended that they be in BSP thread.
- The preferred inlet/outlet size is 75mm (3")
- The SG (specific gravity) of CalSap is 1.30

Tank Set-Up

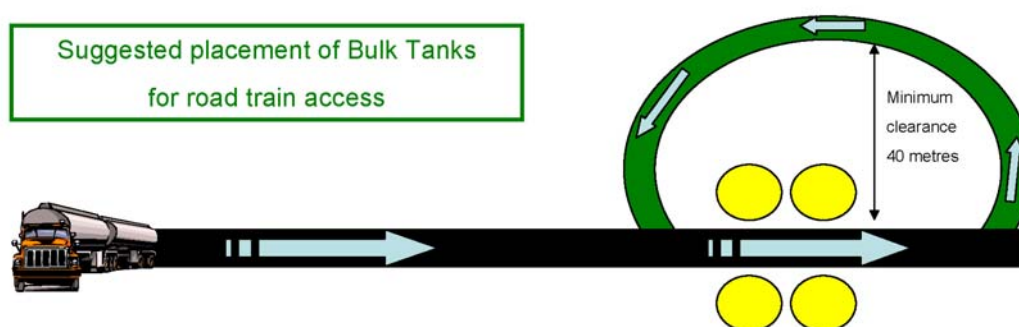
- The tank must be positioned on a flat, hard surface. Ideally a concrete slab or prepared compact sand base. Again check with your tank supplier as to the ideal site preparation for your tank.
- Tanks should be fitted with a float level indicator. This type of indicator is preferred over an external poly sight glass.
- Tanks must have the ability to be flushed out and cleaned at the end of each season in preparation for next season's product delivery.
- It is recommended that tanks be fitted with an overflow pipe and a manhole in the top of the tank

Tank Valves & Fittings

- Setting your tank up the correct valves and fittings is essential in ensuring ease of handling
- Optima Agriculture recommends 75mm (3") stainless steel flanged butterfly taps or 75mm (3") gate valves.
- The outlet hose connecting to the tanker must be fitted with a male camlock fitting. Optima Agriculture recommends you use a 75mm (3") male camlock.
- Use stainless steel or BSP threaded fittings where possible.

Tank Location

(Figure 1.0) Suggested placement of bulk tanks for road train access



- The tank must be positioned on a flat, hard surface. Ideally a concrete slab or prepared compact sand base.
- Check with your tank supplier as to the ideal site preparation for your tank.
- There should be a minimum clearance of 40 metres to allow for truck and trailer access
- The Tanks can be filled from either the left or right hand side of trailers
- The preferred inlet/outlet size is 75mm (3")

Bulk Liquid Discharge – Road Train

- Please allow enough clearance for bulk deliveries (see fig.1 above)
- Bulk CalSap deliveries are made with specialised equipment. Tankers have their own discharge pumps and hoses.
- To transfer CalSap on farm, Optima Agriculture recommends positive displacement type pumps. This is due to CalSap being a viscous type material with an SG of 1.30
- Best results are gained from using 1'-2" gear pumps, lobe pumps or mono pumps.
- Always ensure you flush pumps well after use and lubricate with appropriate oils if leaving to stand for long periods of time.

Bulk Liquid Discharge – Flexi-Tank

- Have the delivery truck slope towards the rear to allow for easier discharge. Drop tri-axle into small trough or bogie drive on mound. If truck is fitted with airbag suspension, use these.
- When there are approximately 1,000 litres remaining in the bladder (flexi-tank), turn pump to half revs.
- Have 2 men climb over the bulkhead and begin rolling the flexi-tank from the front of the container towards the rear.
- As pump is positive displacement, ensure the flexi-tank doesn't suck into the suction pipe.
- When discharge complete, remove the bulkhead, empty the last of the CalSap into a container and dispose of all remains.
- See Figure 2.0 below for more details regarding discharge of flexi-tanks.

(Figure 2.0) – Suggested set-up to discharge flexi-tanks

