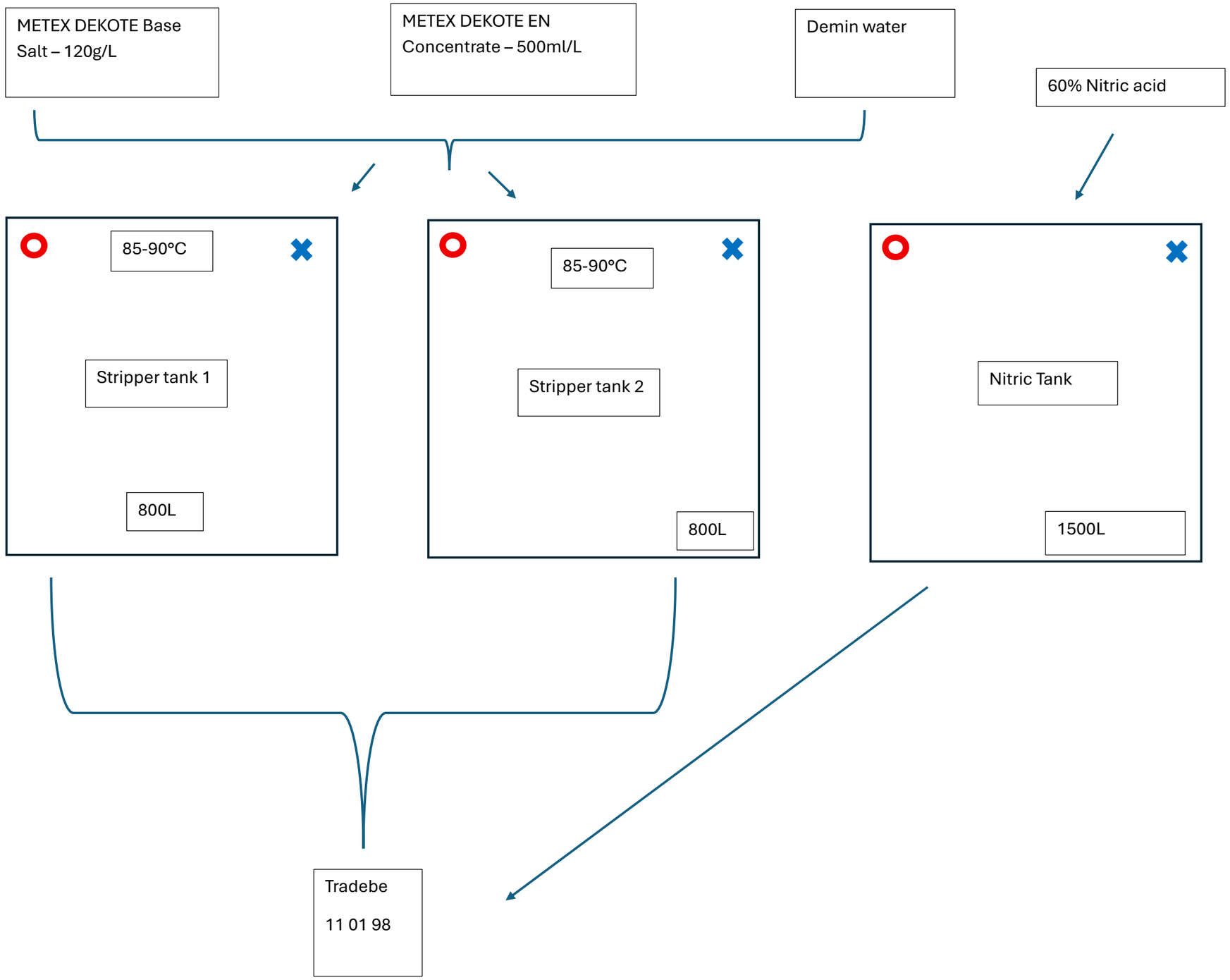
Stripper Line



Total Chemical Volume: 53126L

Strippers: 3100L

L1: 12805L

L2:29700L

L2a: 38450L

L4: 5186L

Copper:6500L

Any tanks where temperature has not been specified the tanks are ambient temperature

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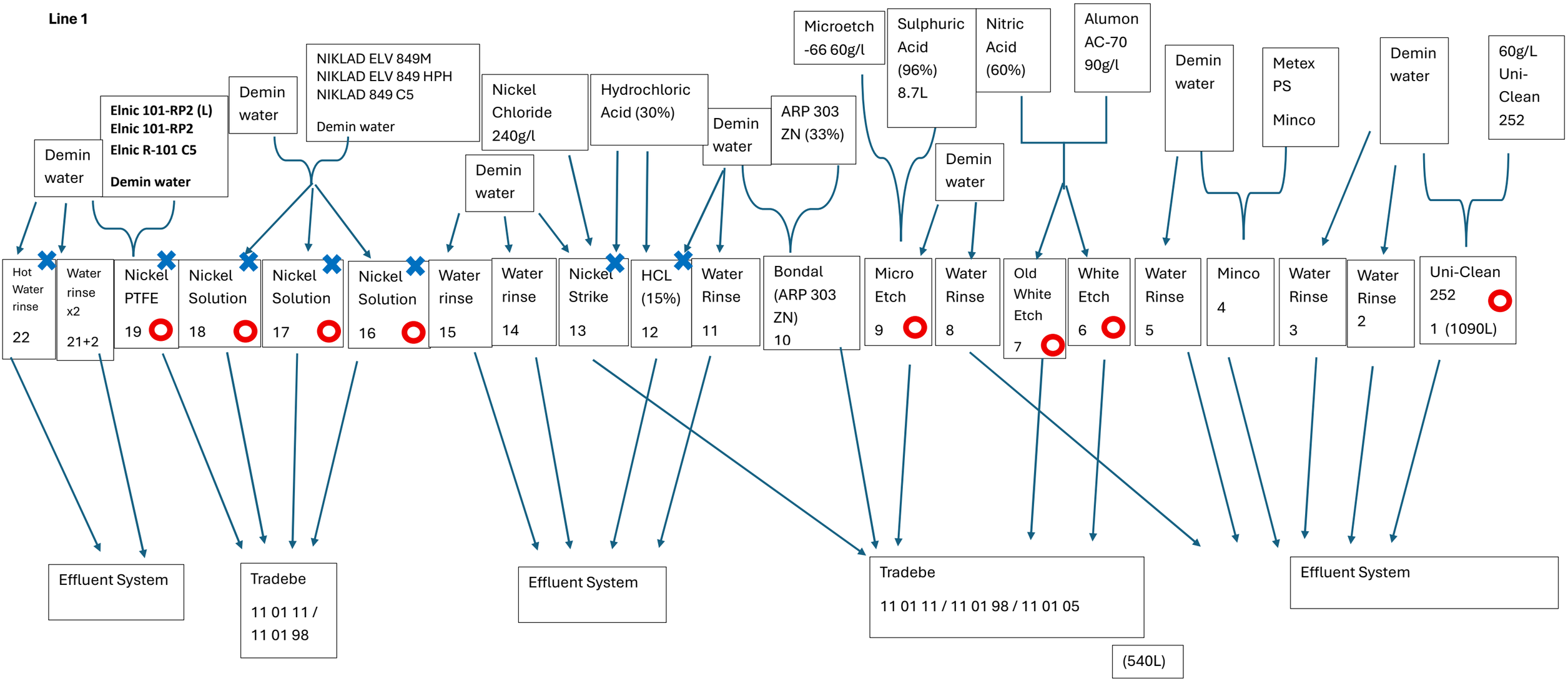
Line 1



Example route for Mild Steel: Uni-Clean 252, 10 minutes, Water Rinse 2/3, Hydrochloric Acid, 30 secs/1 minute, Water Rinse 14/15, Nickel Solution, Water Rinse 20/21, Hot Water Rinse.

Example route for Aluminium: Minco, 10 minutes, Water Rinse 5, White Etch, 20/30 secs, Water Rinse 8, Micro Etch, 30 secs, Water Rinse 8, Bondal, 45 secs, Water Rinse 11, Micro Etch, 20 secs, Water Rinse 8, Bondal, 30 secs, Water Rinse 11, Nickel Solution, Water Rinse 20/21, Hot Water Rinse.

Tank volumes: 1 is 1090L 19 is 890L

2,3,4,5,6, 7, 8, 9, 10, 11,14, 15, 20 and 21 are 550L

12,13,16, 17, 18 are 675L

Tank 1: 70°C

Tank 4,22: 55°C

Tank 16,17,18,19 :80-90°C

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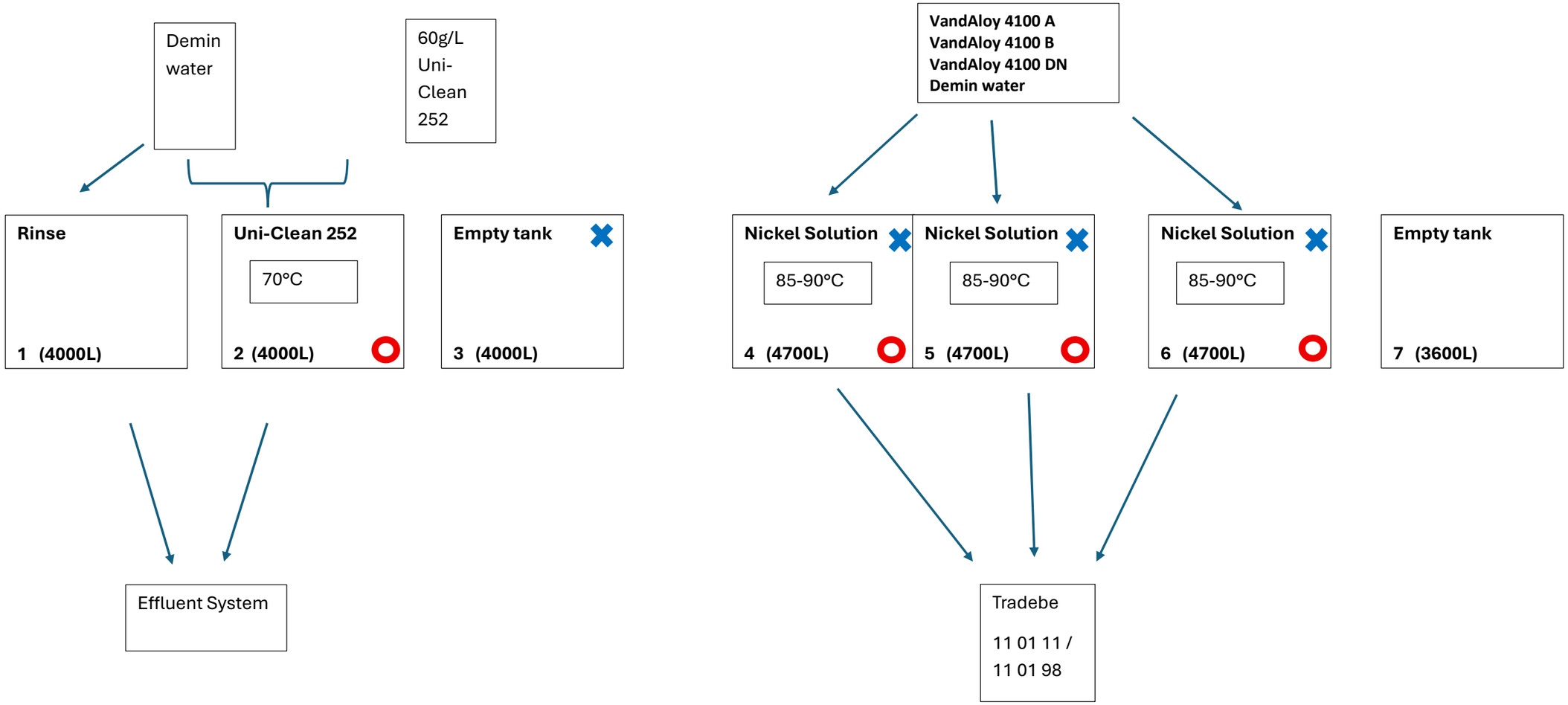
Line 2



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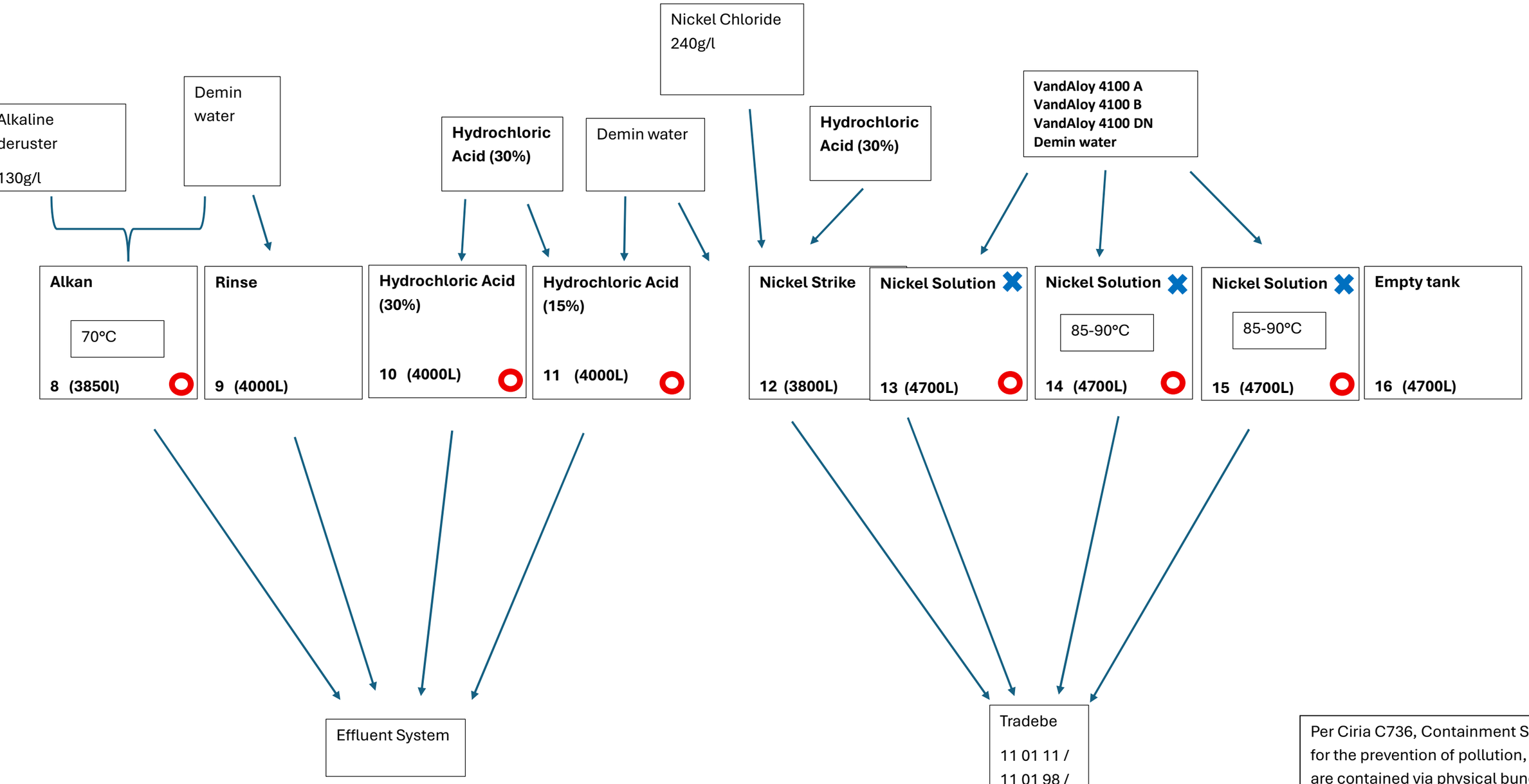
Line 2A



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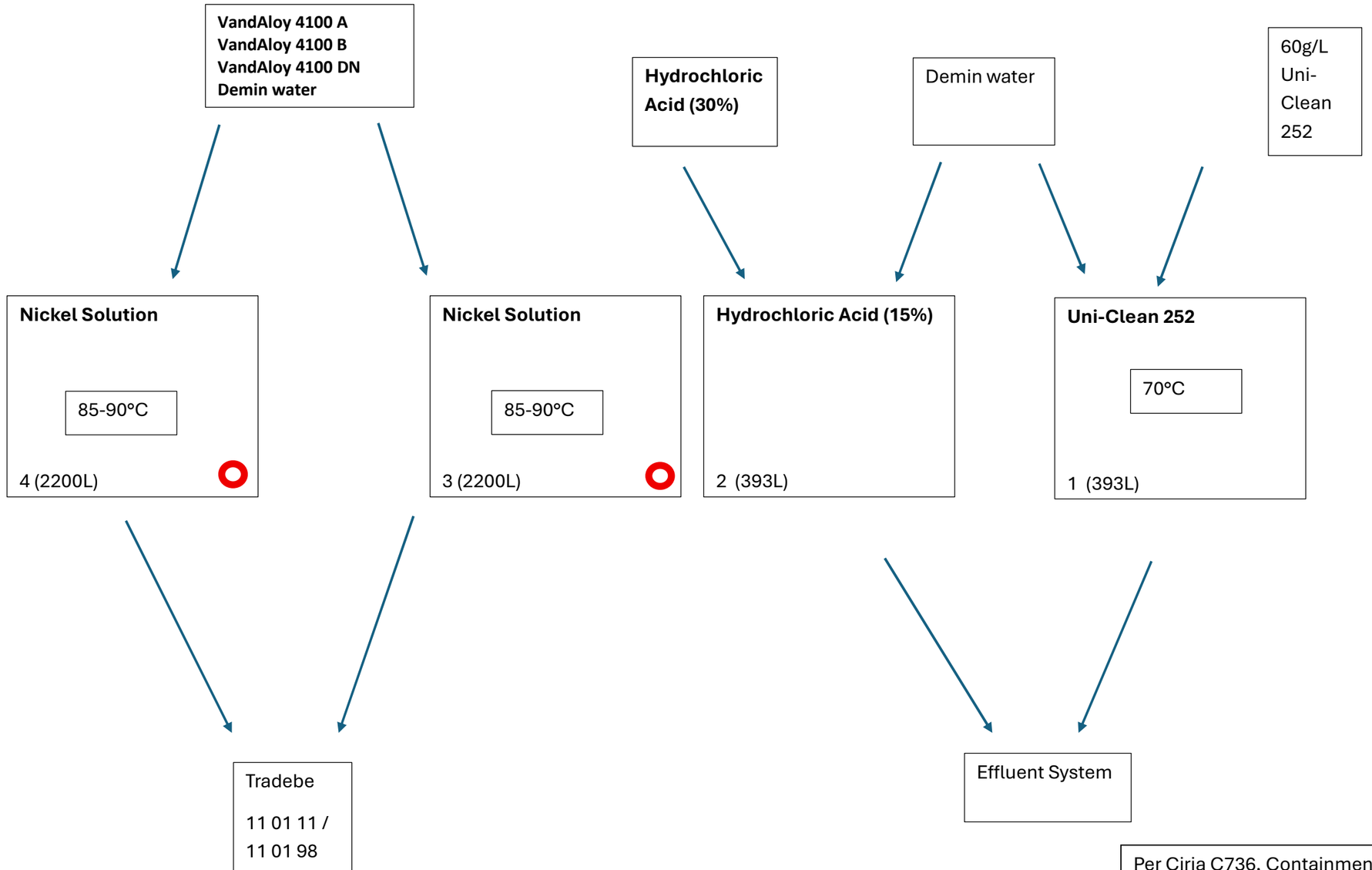
Line 4



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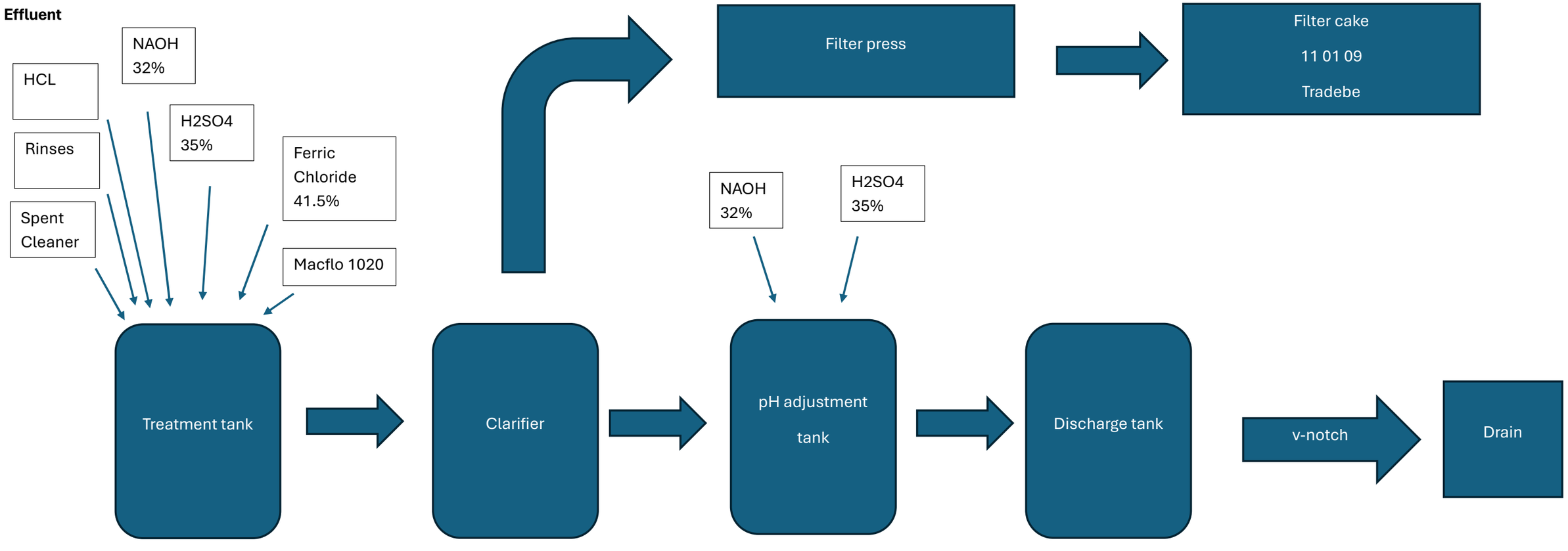

Effluent Treatment Summary

An effluent plant treats our industrial wastewater to ensure it is safe before discharge to the sewage works. Waste liquids from plating—rinse water, spent cleaners, spent acids, and spent electroless nickel—must undergo neutralization and metal removal.

Process Steps

1. Transfer ~200 L spent acid, 1000 L spent cleaner, and 6500 L rinse water (volumes may vary) into the treatment tank. Mix for at least 10 minutes to ensure a uniform solution.
2. Adjust pH to 3–5 using 35% sulfuric acid or 32% caustic soda.
3. Add 40 L ferric chloride and mix for 60 minutes.
4. Adjust pH to 7–10, add flocculant as needed, mix 30 seconds, then allow to stand (ideally overnight, minimum 2–4 hours) to compact the filter cake.
5. Pump the compacted mixture into a clarifying tank. Treated water overflows into another tank for final pH adjustment if required. The filter cake is pumped to a press for drying.
6. Adjusted water pumped into a discharge tank for controlled manual release. All discharged water is automatically sampled and periodically tested by Yorkshire Water.
7. Package and dispose of dried filter cake through Innovation Alloys.

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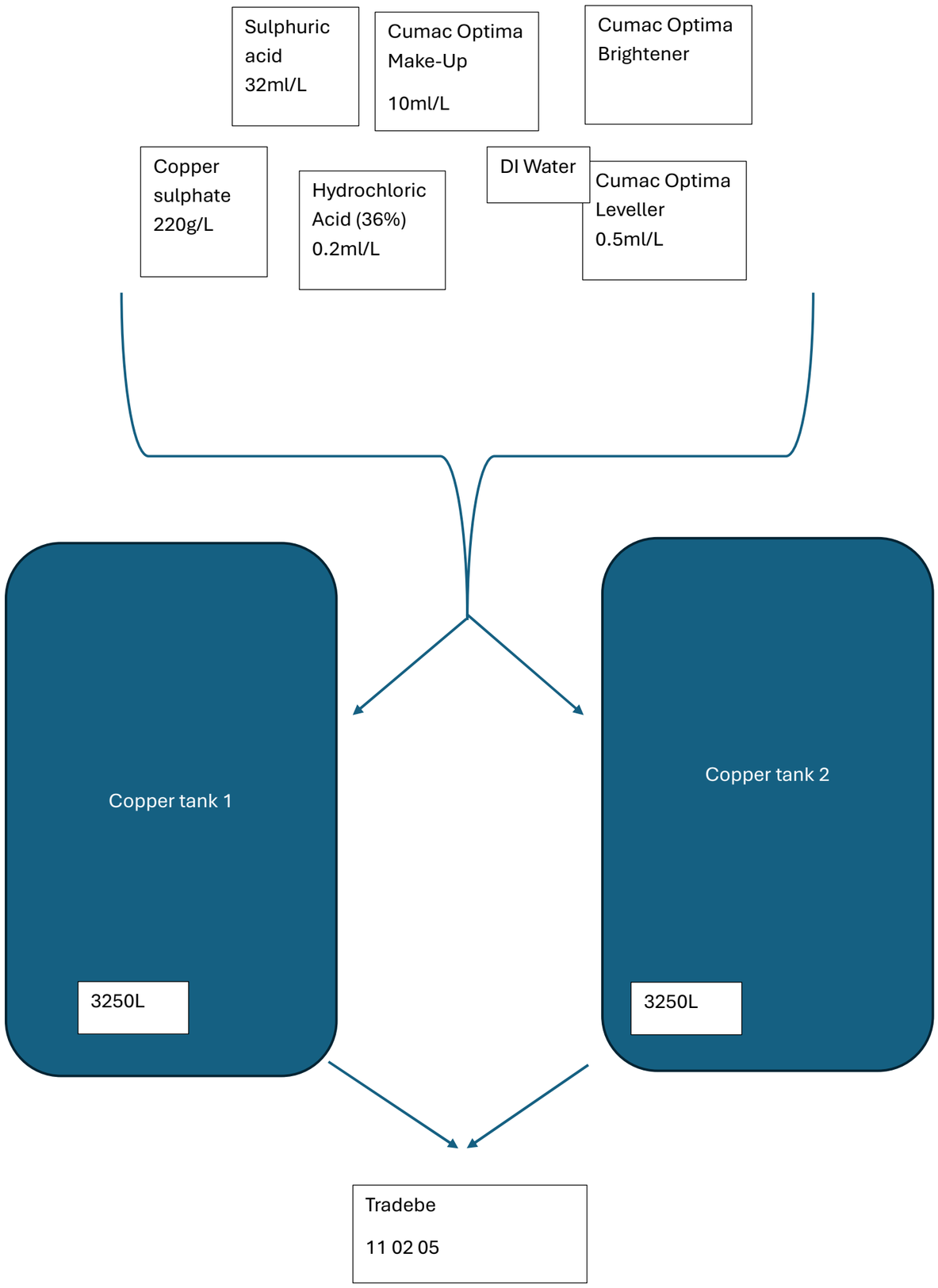
Copper Tank



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