

**Attachment E6**

List of plant

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## **Attachment E6**

### **E.6. Plant**

**The following is a list of plant currently on site.  
Refer to Section D1.g. for detailed list of tanks and their capacities used on site.**

#### **Filter Crusher,**

Manufactured by MRJ Engineers in 1999, Model OFB 150, Serial Number 50698. Quarterly maintenance checks carried out by yard maintenance staff. The Crusher is used to crush filters extruding the trapped oil and compact the metal into bales.

#### **Weighbridge,**

See Site plan D1. Manufactured by Avery Berkell and was installed in 2000. Calibration of the weighbridge is carried out yearly by weights and measures.

#### **Interceptors (x 2),**

Two class 1 interceptors are used on site to treat all surface water runoff prior to discharge to the municipal surface water system.

*Top Interceptor (SW1):* Four chamber Class 1 interceptor with alarmed oil detector on chamber two and coalescence filter in chamber three. High level alarms on final chamber monitored by 24hr monitoring company. This interceptor serves mainly the older part of the site (~southern half see map D2).

*New Interceptor (SW2):* This interceptor receives runoff from the newer section of the facility (northern half - see map D2). Two chamber Class 1 Interceptor with coalescence filter in the second chamber. Maintenance is carried out by yard staff.

Laboratory analysis is carried out on final quality of surface water discharge as per Schedule 4 (i) of the IPC license.

#### **Boiler**

The boiler is used on site to generate steam and provide heat for the processing of liquids which is essential to the recycling of waste oil. The boiler can be fueled Light Fuel Oil or Natural gas. It was manufactured by Dan Stoker, is fitted with a Dunphy Dual Fuel Burner and was commissioned in December 2001. The boiler is rated for producing 7,000 kg of steam per hour, Model TDC 10, serial No. 21-6505. The condensate return is recirculated back into the boiler through an insulated header tank to maximize efficiency and reduce heat loss. Emissions

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from boiler are monitored yearly as per Schedule 1 (i) of IPC license. Water testing is carried out daily for general maintenance of boiler and pipe work.

### **Drum Compactor,**

Compactor is used to compact waste drums on site which are collected as part of the Industrial and Automotive supplies and Services collection system. The drum compactor is manufactured by KK Balers. It was installed in 2000. Model KK DP, Serial No. 9239, Oil levels are checked prior to usage by maintenance staff.

### **Oil rag conveyor and compactor,**

All oily rags, waste etc. are re-drummed into UN approved drums for shipment off site by TFS. The unit consists of a belt powered hopper feeding a feed conveyor which discharges on demand into a drum compactor or other container. The conveying unit was manufactured by Metalmasters in 2000. The drum compactor is an Orwak unit model 5030 it was purchased in 2000.

### **Cardboard compactor,**

Any cardboard packaging waste generated on site along with office paper is compacted by the on site cardboard compactor. It is manufactured by LSM, WR 750, Serial No. WR 750 02107. The compactor was installed in 2001.

### **Stand-by Generator,**

Where electricity may fail on site a stand by generator is available. The generator is a 160 KvA unit manufactured by FW Wilson and installed in 1999. The unit automatically operates in the event of a power failure.

### **Compressor,**

Ingersoll Rand, Model No. ML37GD, Serial No. 2272597 and installed in 2001. The compressor is maintained weekly by draining of receiver and checking oil.

### **Pallet wrapper,**

All drums of pallets are wrapped to ensure packages are stable for loading and transit. The pallet wrapper is a MIDO unit, model MIDO 2000, Serial Number 15103

### **SCADA system,**

The Supervisory Control and Data Acquisition (SCADA) system is the system used to monitor and control activities within the processing of liquids within the plant and handling of effluent. The Scada allows remote monitoring of heating, levels and transferring of liquids within the process tanks. The system also facilitates the prevention of over heating through temperature regulation and the

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monitoring of levels within tanks to prevent overflows. The Scada was initially installed in 2000 and is being expanded over time to incorporate the entire liquid handling system.

### **Truck wash recycling unit,**

The wash bay on site takes runoff from vehicle washing and miscellaneous washing operations on site. This runoff discharges through a grit trap initially and then an interceptor before being discharged to the recycling unit. Here the wash water is recycled through a number of discreet steps. The first step consists of further settlement to remove solids followed by sand filtration. After sand filtration the unit passes to a biological stage where aeration breaks down any organic fractions within the wash water and allowing reuse for washing purposes. The unit was manufactured by Atlas (wastewater division) and was commissioned in August 2000.

### **High-pressure power washer (mobile)**

Where high-pressure washing is required on site a mobile power washer is available. The unit was manufactured by KEW, Model SOC3VA, Serial No. 9062107. Maintained by an external contractor.

### **High-pressure power washer (Fixed)**

This unit was manufactured by Euroquip and was installed in 2001. The unit is located within the boiler house with outlets located at various points within the facility. Maintenance is carried out by a contractor with some internal servicing carried out internally including monthly check of oil etc.

### **Steam traps (15),**

Steam traps are used on all heated tanks to maintain efficiency during heating. The manufacturer is Spirax Sarco and different models are used for differently sized tanks. The steam traps are blown down weekly to remove any dirt from steam.

## **PUMPS**

A variety of different pumps are used throughout the plant. Pumps are routinely replaced or relocated as demand necessitates. However details of the main pumps currently used on site is shown below:

### **1. Mono Pumps (4) Ex Rated**

Unloading pumps (3) Model CAG 12M IR3, weekly checks carried out of oil level.

Process supply pumps (1) Model CAC 12HIR3/HI, monthly checks on packing and belts.

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**2. Grundfos pumps (2)**

Model CR 1640, weekly checks for dirt at inlet of pump.

**3. Wording Simpson pump**

This pump is used pump 11LS Model 80 WR 160, 11ls loading pump. Gland packing checked monthly on pump.

**4. Submersible pump (2)**

Manufactured by Lowara. Model No. DOC 3SGHS17 used in the effluent transfer system and controlled through float switches with overall control by means of the SCADA.

**Cat and Mouse gauges are standard on all tanks used.** Manual cat and mouse gauges are visually checked by yard staff. These gauges are maintained by internal maintenance personnel. The expansion of the SCADA system means that the future use of cat and mouse gauges is not likely and these will be removed or not relied upon.

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