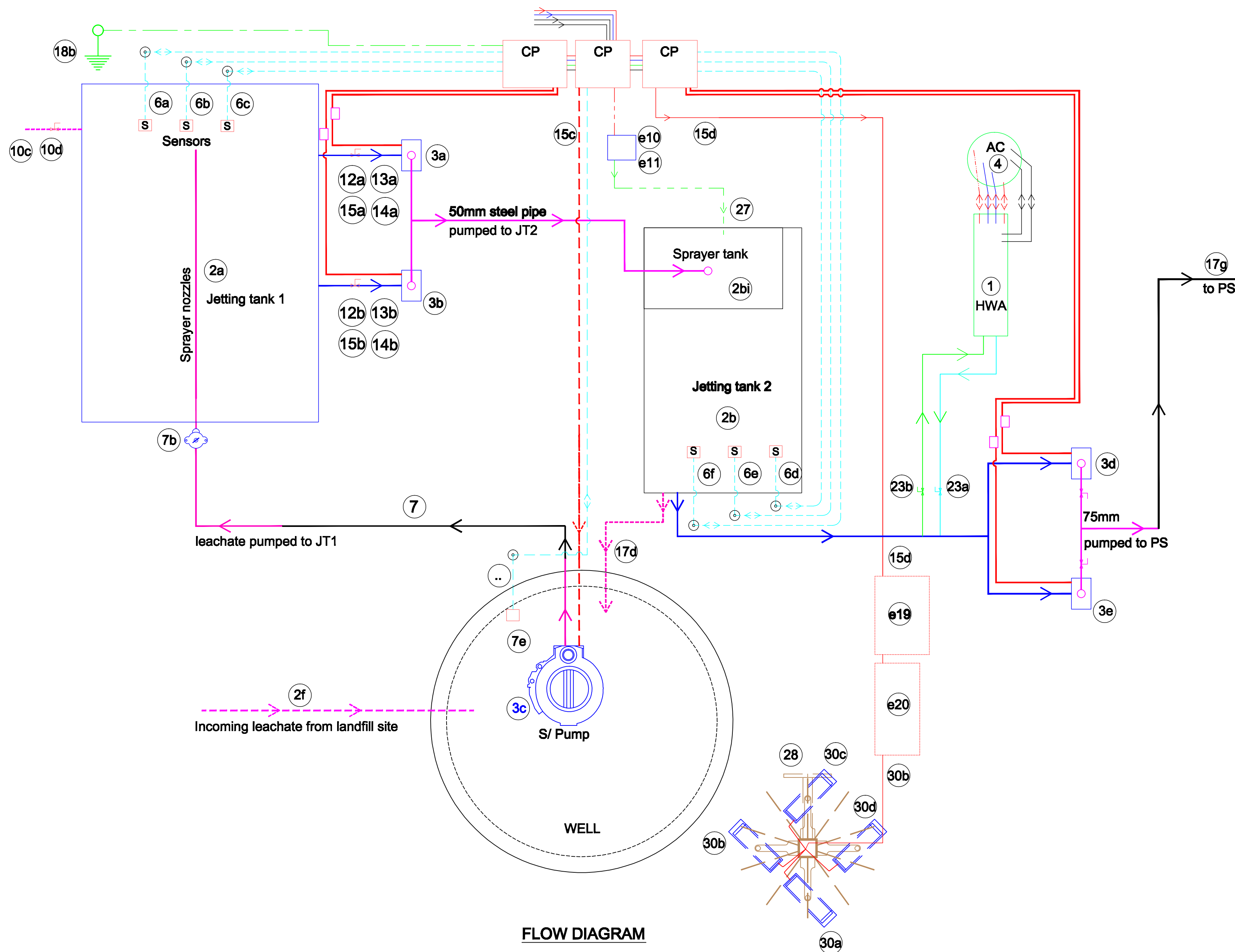


CONTROL ROOM



FLOW DIAGRAM

KEYS

Civil /Bldg.

- FENCELINES
- BRICK BUILT BUILDING
- Concrete roof /handstanding

Mechanical

- Foul water to the WELL in collection chamber
- S/pump delivery, flex- 75mm
- S/pump delivery pipe, steel - 75mm
- Washout pipe, steel - 75mm
- Pump 1&2 suction, attached to JT1 - 75mm
- Pump 3&4 suction, in the Control room - 75mm
- Pump 1&2 delivery pipe, steel - 50mm
- Pump 3&4 delivery pipe, steel - 75mm
- Pump 3&4 delivery pipe, flex - 75mm
- Overflow (return) from JT2 to Well
- Aerated liquid to HWA , flex - 25mm
- Aerated liquid return - 25mm flex
- Blower line - 25mm flex

Electrical

- Power supply to S/pump
- UG power cables
- Power supply to Pump controls
- Power supply to Analysing C & return to CP
- Power supply to Sensors
- Power supply to CCTV
- Earthing


Component Details

- 1 Hightech Water Analyser MMD MK
- 2a Jetting tank (JT 1), new
- 2b Jetting tank (JT 2), existing
- 2bi Jetting (JT 2)-sprayer
- 2c 8 Adjustable steel legs JT1
- 2d 2 Adjustable steel legs -pumps platform
- 2e Pumps platform
- 2f Leachate collected from site
- 3a Pump 1, attached to JT1
- 3b Pump 2, attached to JT1
- 3c Submersible pump
- 3d Pump 3, in control room
- 3e Pump 4, in control room
- 4 Analysing Chamber
- 5 Flow Meter ABB
- 5a Pressure gauge on JT1
- 5b Pressure gauge on 7a
- 5c Pressure gauge on 17c
- 5d Pressure gauge on 17c
- 6 20mm plastic duct
- 6a High high level sensor on JT1
- 6b High level sensor on JT1
- 6c Low level sensor on JT1
- 6d High high level sensor on JT2
- 6e High level sensor on JT2
- 6f Low level sensor on JT2
- 7 75mm flexible delivery hose to JT1
- 7a 75mm steel pipe to strainer
- 7b Strainer on platform
- 7c 75mm steel sprayer pipe
- 7d Sprayer nozzles (100 nos.)
- 7e 100mm steel delivery pipe
- 8a 75mm steel checknut JT1
- 8b 50mm steel checknut
- 8c 75mm steel checknut
- 9a 75mm Steel suction to pump1
- 9b 75mm Steel suction to pump2
- 9c 75mm Steel suction to pump 3 &4
- 9d 75mm steel delivery pipe to PS (17g)
- 9e 75mm delivery pipe (black flex) to PS
- 10a 75mm Steel Isolation valve on 9a.
- 10b 75mm Steel Isolation valve on 9b.
- 10c 75mm Steel washout pipe from JT1
- 10d 75mm Steel Isolation valve on washout 10c.
- 10e 75mm Steel Isolation valve on pump3.
- 10f 75mm Steel Isolation valve on pump4.
- 10g 75mm Steel Isolation valve on suction from JT2
- 11a 75mm flange joint on Pump1
- 11b 75mm flange joint Pump2
- 11c 75mm flange joint on Pump3
- 11d 75mm flange joint Pump4
- 12a Non return valve on Pump1
- 12b Non return valve on Pump2
- 12c Non return valve on Pump3
- 12d Non return valve on Pump4
- 13a Power incomer to switch1
- 13b Power incomer to switch2
- 14a Switch1
- 14b Switch2
- 15a Supply to Pump1
- 15b Supply to Pump2
- 15c Supply to Submersible Pump
- 15d Supply to Camera
- 15e Supply to Pump3

- 15f Supply to Pump4
- 15g Supply to Analysing Chamber & return to CP
- 15h Supply to CCTV Recorder
- 16a General earthing pumps
- 17a 50mm steel delivery pipe to JT2
- 17b 50mm pvc pipe on JT2
- 17c 150mm pvc on JT2
- 17d 75mm Steel overflow from JT2 to Well
- 17e 100mm pvc Spare
- 17f 150mm pvc (raw collection) from landfill
- 17g 75mm Steelpipe- intake on valve chamber
- 17h 75mm Steelpipe- intake spare
- 18a 50mm steel flang joint
- 18b 150 -75mm steel flang on 9c
- 18c 150 -75mm steel flang on 9d
- 18d 150 -50mm steel flang
- 18e 75mm steel flang
- 19a 75mm Bowel connection
- 19b 75mm Bowel connection
- 19c 75mm Coupling
- 19d 50mm Coupling
- 20a Cover JT1
- 21a Vent Cowl on JT1
- 22a Short handles
- 23 15mm valve
- 23a 25mm valve
- 23b 25mm valve
- 23c 25mm valve
- 23d 50mm valve
- 23e 40mm valve
- 23f 75mm isolation valve
- 23g 150mm valve
- 23h 150mm valve
- 25 Aerated liquid to HWA
- 26 Aerated liquid return from HWA
- 27 Blower line - 75mm green flex
- 28 50mm steel square pipe - camera pole
- 28a Security mesh
- 29a Flood light 1
- 29b Flood light 2
- 29c Flood light 3
- 30 CCTV recorder
- 30a CCTV Camera 1
- 30b CCTV Camera 2
- 30c CCTV Camera 3
- 30d CCTV Camera 4
- 31 Cable tray
- 32 15mm breather
- 33 Ladder in the main chamber
- 34 Steel mesh
- 35 Air valve
- 35a Chainblock in the main chamber
- 36 Power circuits
- 37 Novera Condensing compressors
- 38 Flagged compound
- 39 Fencing (wiremesh)
- 40 Locable gate

Control room & Power components

- e1 Control panel
- e2 Telemetry
- e3 240v feeder
- e4 Well- water level
- e5 Pump run time
- e6 DAB - Automatic control
- e7 DAB - Automatic control
- e8 Redundant Control panel
- e9 Power incomer
- e10 Blower Control panel
- e11 BLOWER
- e12 Exo. fan
- e13 Distribution board -Vent Asia
- e14 ABB controls
- e15 Motion detetor1
- e15b Motion detetor2
- e16 Supply to flood lights
- e17 Distribution board - nos
- e18a Earthing cabinet
- e18b Copper Earthing Rod
- e19 Distribution board
- e20 Distribution board
- e21 Junction boxes
- 30 CCTV Recorder
- 31 Cable trays

A	NEW AERATION SYSTEM ADDED	JUNE 2013
Rev.	Amendment	Date
Client		
Site		
BILLINGE FORMER LANDFILL SITE		
Title		
FLOW DIAGRAM		
 <div>Merseyside Waste Disposal Authority 6th Floor North House North John Street Liverpool L2 5QY</div>		
A1	Drg. No. MWDA.510-350-003	Rev. A
Drawn	Binu	Scale 1:1000
		Date JUNE 11