

# Permit Introductory Note

Local Authority Pollution Prevention and Control  
The Pollution Prevention and Control Act 1999  
The Environmental Permitting (England and Wales) Regulations 2010  
(as amended)



**IPSWICH**  
BOROUGH COUNCIL

Certified a true copy of a notice  
served by me. Addressed as  
this copy

By POST Date 25/11/16  
Name Rose Signature [Signature]

Asda Stores Ltd  
Asda House  
South bank  
Great Wilson Street  
Leeds  
LS11 5AD

LAPPC Permit Ref No:  
**PS20/DR/11/16**

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## Chronicle

Detail	Date	Comments
First authorised	November 2016	PS20/DR/11/16

Permit issued by:

Environmental Protection Services  
Ipswich Borough Council  
Grafton House  
15-17 Russell Road  
Ipswich  
IP1 2DE

Telephone: 01473 433115  
Website: [www.ipswich.gov.uk](http://www.ipswich.gov.uk)  
Email: [environmentalprotection@ipswich.gov.uk](mailto:environmentalprotection@ipswich.gov.uk)

***This introductory note does not form part of the permit***

The following Permit is issued under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010 (as amended), hereinafter referred to as the EP Regulations, to operate a scheduled installation carrying out an activity, or activities covered by the description in paragraph (d) Part B of section 1.2 Part 2 of Chapter 1 to Schedule 1 of the EP Regulations, to the extent authorised by the Permit.

Conditions within this Permit detail Best Available Techniques (BAT), for the management and operation of the installation, to prevent, or where that is not practicable, to reduce emissions.

In determining BAT, the Operator should pay particular attention to relevant sections of the LAPPC Process Guidance note 1/14(06), and any other relevant guidance. Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned. The general BAT condition in this permit is regarded as covering, among any other matters, the provision of sufficient training and practical instruction for service station operation staff; in order to enable them to carry out their duties in respect of using (or supervising the use of) and maintaining vapour collection controls, and the actions to be taken in the event of leak of vapour.

Note that the Permit requires the submission of certain information to the Regulator, and in addition, the Regulator has the power to seek further information at any time under Regulation 60 of the EP Regulations provided that the request is reasonable.

**Public Registers**

Information relating to Permits, including the application, is available on public registers in accordance with the EP Regulations. Certain information may be withheld from the public registers where it is commercially confidential, or if it is in the interest of national security to do so.

**Variations to the Permit**

The Regulator may vary the permit in the future, by serving a variation notice on the Operator. Should the Operator want any of the conditions of the Permit to be changed, a formal application must be submitted to the Regulator (the relevant forms are available from the Regulator). The Status Log that forms part of this introductory note will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

**Transfer of the Permit or Part of the Permit**

Before the Permit can be wholly or partially transferred to another Operator, an application to transfer the Permit has to be made jointly by the existing and proposed Operators. A transfer will not be approved if the Regulator is not satisfied that the proposed Permit holder will be the person having control over the operation of the installation, or will not comply with the conditions of the transferred Permit. In addition, if the Permit authorises the Operator to carry out a specified waste management activity, the transfer will not be approved if the Regulator does not consider the proposed Permit holder to be a 'fit and proper person' as required by the EP Regulations.

### **Surrender of the Permit**

Where an Operator intends to cease the operation of an installation (in whole or in part) the Regulator should be informed in writing. Such notification must include the information specified in Regulation 24(3) of the EP Regulations.

### **Responsibility under Workplace Health and Safety Legislation**

The permit is given in relation to the requirements of the EP Regulations. It must not be taken to replace any responsibilities an Operator may have under the workplace health and safety legislation.

### **Appeal Against Permit Conditions**

Any person who is aggrieved by the conditions attached to a Permit can appeal to the Secretary of State for Environment, Food & Rural Affairs. Appeals must be received by the Secretary of State no later than 6 months from the date of the decision (the date of the Permit).

Appeals relating to installations in England should be received by the Secretary of State for Environment, Food & Rural Affairs. The address is as follows:

**The Planning Inspectorate  
Environmental Appeals Administration  
Room 4/19 – Eagle Wing  
Temple Quay House  
2 The Square  
Temple Quay  
Bristol, BS1 PN**

The appeal must be in the form of a written notice or letter stating that the person wishes to appeal and listing the condition(s) which is/are being appealed against. The following five items must be included:

- (a) A statement of the grounds of appeal;
- (b) A copy of any relevant application;
- (c) A copy of any relevant Permit;
- (d) A copy of any relevant correspondence between the person making the appeal and the Council;
- (e) A statement indicating whether the appellant wishes the appeal to be dealt with.
  - by a hearing attended by both parties and conducted by an inspector appointed by the Secretary of State; or
  - by both parties sending the Secretary of State written statements of their case (and having the opportunity to comment upon one another's statements).

At the same time, the notice of appeal and documents (a) and (e) must be sent to the Council, and the person making the appeal should inform the appropriate Secretary of State that this had been done.

- An appeal will not suspend the effect of the conditions appealed against; the conditions must still be complied with.
- In determining an appeal against one or more conditions, the Act allows the Secretary of State in addition to quash any of the other conditions not subject to the appeal and to direct the local authority to either vary any of these conditions or to add new conditions.

### **Copyright of any Maps Provided with this Permit**

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### **Talking to us**

Please quote the Permit Number if you contact the Regulator about this permit. To give a notification, the Operator should telephone 01473 433115 or any other number notified in writing by the Regulator for that purpose.

***~End of Introductory Note~***

# Permit

**Local Authority Pollution Prevention and Control  
The Pollution Prevention and Control Act 1999  
The Environmental Permitting (England and Wales) Regulations 2010  
(as amended)**

LAPPC Permit Ref No: **PS20/DR/11/16**

Ipswich Borough Council in exercise of its powers under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010 (as amended) hereby authorises:

## **ASDA Stores Ltd**


Whose Registered Office is:

**Asda Stores Ltd  
Asda House  
Southbank  
Great Wilson Street  
Leeds  
LS11 5AD**

to operate an installation at:

**ASDA Ipswich Stoke Park  
Asda Stores Ltd  
Stoke Park Drive  
Ipswich  
Suffolk  
IP2 9EG**

to the extent authorised by and subject to the conditions of this Permit.

Signature:   
David Rowe  
Senior Environmental Protection Officer  
(The Authorised Officer for this purpose)

Date: 25th November 2016

Permit issued by:

**Environmental Protection Services  
Ipswich Borough Council  
Grafton House  
15-17 Russell Road  
Ipswich  
IP1 2DE**

Telephone: 01473 433115  
Website: [www.ipswich.gov.uk](http://www.ipswich.gov.uk)  
Email: [environmentalprotection@ipswich.gov.uk](mailto:environmentalprotection@ipswich.gov.uk)

## **OPERATING CONDITIONS**

### **Process Description and General Information**

The unloading of petrol into stationary storage tanks at Asda Ipswich Stoke park Service Station, Stoke Park Drive, Ipswich is within the process boundary marked on site plan 1, Appendix 1. The site layout is shown on site plan 2, Appendix 1.

The service station has 1 petrol storage tank.

The deliveries of petrol can occur at any time. The deliveries are controlled entirely by the road tanker driver.

The station is self-service and may be unmanned outside normal operating hours.

The process is designed and operated to prevent and control emissions to air using the Best Available Techniques, as described by the Secretary of State in Process Guidance Note 1/14 (06).

The conditions in this permit are required to be met in order to achieve that aim.

### **Emission Limits, Monitoring and Other Provisions**

1. Vapours displaced by the delivery of petrol into storage installations at service stations shall be returned through a vapour tight connection line to the road tanker delivering the petrol. Unloading operations may not take place unless the arrangements are in place and properly functioning, subject to conditions 3, 4 and 5.

2. The Operator shall implement the following schedule of preventative maintenance. Once per year the Operator shall carry out the following checks and maintenance work.

- a visual inspection of fill pipe adaptors and caps and replace as required;
- a visual inspection of the vapour connection point, including the condition of the adaptor, poppet valve and dust cover and replace as required.
- a visual inspection of the position and clarity of the notices required by condition 13 of this permit.
- a visual inspection of the pressure/vacuum relief valve and clean flame arrestor/gauges.

The inspections shall comprise checks for buildup of deposits, wear, damage, blockage, leakage and correct operation.

Additional maintenance and inspections shall be carried out at the frequency detailed in Appendix 2, as provided by the Operator to the Regulator.

Records of all maintenance checks shall be made and copies retained on site for a minimum of two years, and available for inspection by an authorised officer of Ipswich Borough Council.

3. All reasonably practicable steps shall be taken to prevent uncontrolled leaks of vapour from vents, pipes and connectors from occurring. The regulator shall be advised without delay of the circumstances of such a vapour leak if there is likely to be an effect on the local community, and in all cases such a vapour leak should be recorded in the log book required under condition 34. In this condition and in condition 4 a vapour leak means any leak of vapour excepting those which occur through the vent mentioned in condition 11 during potentially hazardous pressurisation.
4. The operator shall advise the regulator of the corrective measures to be taken and the timescales over which they will be implemented in the event of a vapour leak described in condition 3.
5. Instances of vapour lock shall be recorded in the log book and, under the circumstances detailed in condition 3, be advised to the regulator.
6. The procedures referred to in this permit shall be reviewed in light of any modifications which occur to the facilities. The regulator shall be advised of any proposed alteration in operating procedures.
7. The vapour collection systems shall be of a size and design, as approved by the regulator, to minimize vapour emission during the maximum petrol and vapour flow in accordance with the conditions stated in this permit (i.e. when most tank compartments are being simultaneously discharged).
8. The number of tanker compartments being discharged simultaneously shall not exceed 2, excluding the diesel compartment[s].
9. The connection points on the tank filling pipes and vapour return pipe shall be fitted with secure seals to reduce vapour leaks when not in active use. If apertures are provided on storage tanks for the use of a dipstick, these shall be securely sealed when not in active use.
10. The fittings for delivery and vapour return pipes shall be different to prevent mis-connection.
- H. Petrol storage tank vent pipe(s) shall be fitted with a pressure vacuum relief valve to minimise vapour loss during unloading and storage of petrol. The pressure vacuum relief valve shall be sized and weighted to prevent vapour loss, except when the storage tanks are subject to potentially hazardous pressurisation.
12. When connecting hoses prior to delivery, the vapour return hose shall be connected before any delivery hose. The vapour return hose shall be connected by the road tanker end first, and then at the storage tank end.
13. Adjacent to each vapour return connection point for the storage tank, there shall be a clearly legible and durable notice instructing "Connect vapour return line before off-loading" or similar wording. The sign shall also refer to the maximum number of tanker compartments which may be unloaded simultaneously in accordance with condition 8.

14. If dip testing of storage tanks or road tanker compartments is performed before delivery, the dip openings shall be securely sealed prior to the delivery taking place.

15. Road tanker compartment dip testing shall not be performed whilst the vapour hose is connected.

16. A trained competent person shall remain near the tanker and keep a constant watch on hoses and connections during unloading.

17. All road tanker compartment vent and discharge valves shall be closed on completion of the delivery.

18. On completion of unloading the vapour hose shall not be disconnected until the delivery hose has been discharged and disconnected. The delivery hose shall be disconnected at the road tanker end first. The vapour return hose shall be disconnected at the storage tank end first.

19. All connection points shall be securely sealed after delivery.

20. If the storage tanks or road tanker compartments are dipped after delivery, the dip openings shall be securely sealed after dip testing.

21. Manhole entry points to storage tanks shall be kept securely sealed except when maintenance and testing are being carried out which require entry to the tank.

22. Petrol delivery and vapour return lines shall be tested in accordance with the following:

- when any modification is made to the system, or
- if any leak or malfunction is suspected.

23. Pressure vacuum relief valves on petrol storage tank vents shall be checked for correct functioning, including extraneous matter, seating and corrosion at least once every three years.

24. Vapours displaced by the filling of petrol into vehicle petrol tanks at service stations shall be recovered through the use of a Stage II vapour recovery system known as an active system with automatic monitoring. Filling of vehicle petrol tanks shall not take place unless such a system is in place and fully functioning.

25. The vapour recovery system referred to in condition 24 shall be certified by the manufacturer to have a hydrocarbon capture efficiency of not less than 85%. Equipment used shall be approved for use under the regulatory regimes of at least one European Union or European Free Trade Association country.

26. The vapour recovery equipment referred to in condition 24 shall be designed, installed and tested in accordance with the relevant British, European and international standards or national methods in place at the time that the equipment was installed.

27. The installation has in place an automatic monitoring system in accordance with condition 29.



28. Petrol delivery and vapour recovery systems for vehicle petrol tanks shall be tested in accordance with the manufacturer's specifications prior to commissioning and for:

- Vapour containment integrity at least once every three years, and always following substantial changes or significant events that lead to the removal or replacement of any of the components required to ensure the integrity of the containment system.
- Effectiveness of the vapour recovery system at least once every three years where an automatic monitoring system. As the system on site is an open active vapour recovery system, this shall be undertaken by measuring the ratio of the volume of vapour recovered to liquid petrol dispensed i.e. vapour/petrol (V/P) ratio. The V/P ratio shall be at least 95% and, where the vapours are recovered into the fuel storage tank, not greater than 105% to avoid excessive pressure build up and consequent release through the pressure relief valves. The V/P ratio shall be determined by simulating the dispensing of petrol using measuring equipment approved for use in any European Union or European Free Trade Association country. The method to be used shall involve measuring the volume of air recovered with fuel flow simulated at the dispenser and read electronically using the approved measuring equipment. This provides the ratio of air recovered to liquid dispensed (air/liquid ratio) which should then be corrected to provide the V/P ratio using an appropriate factor to account for the difference in viscosity between petrol vapour and air ( `k-factor` ).

29. The automatic monitoring system referred to in condition 27 shall:

- Automatically detect faults in the proper functioning of the petrol vapour recovery system including the automatic monitoring system itself and indicate faults to the operator. A fault shall be deemed to be present where continuous monitoring during filling of vehicle petrol tanks indicates that the V/P ratio (condition 28) averaged over the duration of filling has fallen below 85% or has exceeded 115% for ten consecutive filling operations. This only applies to filling operations of at least 20 seconds duration and where the rate of petrol dispensed reaches at least 25 litres per minute.
- Automatically cut off the flow of fuel on the faulty delivery system if the fault is not rectified within 1 week.
- Be approved for use under the regulatory regime of at least one European Union or European Free Trade Association country.

30. The operator shall also undertake a weekly check to verify functionality of the system for recovery of vapours during filling of vehicle petrol tanks, including:

- A test of functionality of the vapour recovery system using appropriate equipment;
- An inspection for torn, flattened or kinked hoses and damaged seals on vapour return lines;

31. Operators shall be notified without delay if the results from any monitoring or tests mentioned in Conditions 28, 29 or 30 identifies adverse results, vapour recovery equipment failure or leaks if there is likely to be an effect on the local community, The operator should advise the regulator of the corrective measures to be taken and the timescales over which they will be implemented.

32. Effective preventative maintenance shall be employed on all aspects of the installation including all plant, buildings and the equipment concerned with the control of emissions to air. Preventative maintenance for all vapour recovery systems shall be carried out in accordance with the manufacturer's instructions

33. Spares and consumables needed shall be held on site, or should be available at short notice from guaranteed suppliers, so that plant breakdowns can be rectified rapidly.

34. The operator shall maintain a log book at the authorised premises incorporating details of all maintenance, examination and testing, inventory checking, installation and repair work carried out, along with details of training given to operating staff at the service station. The log book shall also detail any suspected vapour leak together with action taken to deal with any leak, in accordance with Conditions 3, 4 and 5.

The operator shall record in the log book details of all maintenance; examination and testing; installation and repair work carried out on equipment for recovery of vapours during filling of vehicle petrol tanks. The operator shall also hold at the premises the certificate referred to in Condition 25 and the results of testing undertaken in accordance with Condition 28.

35. Venting of the petrol vapour shall be through the vent pipes marked on site plan.

36. The best available techniques shall be used to prevent or, where that is not practicable, reduce emissions from the installation in relation to any aspect of the operation of the installation which is not regulated by any other condition of this permit.

37. The Operator shall be aware that important elements for effective control of emissions shall include:

- proper management; supervision and training for process operations
- proper use of equipment and
- effective preventative maintenance on all plant and equipment concerned with the control of emissions to the air.

38. The Operator shall ensure staff at all levels need the necessary training and instruction in their duties relating to control of the process and emissions to air.

39. The Operator shall ensure that training of all staff with responsibility for operating the process shall include:

- awareness of their responsibility under the permit; in particular supervising and performing unloading operations of tankers
- actions to minimise emissions during abnormal conditions

40. The Operator shall maintain a statement of training requirements for each operational part and keep a record of the training received by each person whose actions may have an impact on the environment. These documents shall be made available to an authorised officer of Ipswich Borough Council at their request.

41. The Operator shall notify Ipswich Borough Council without delay of:

- the detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution; and
- any accident, which has caused, is causing or has the potential to cause significant pollution.

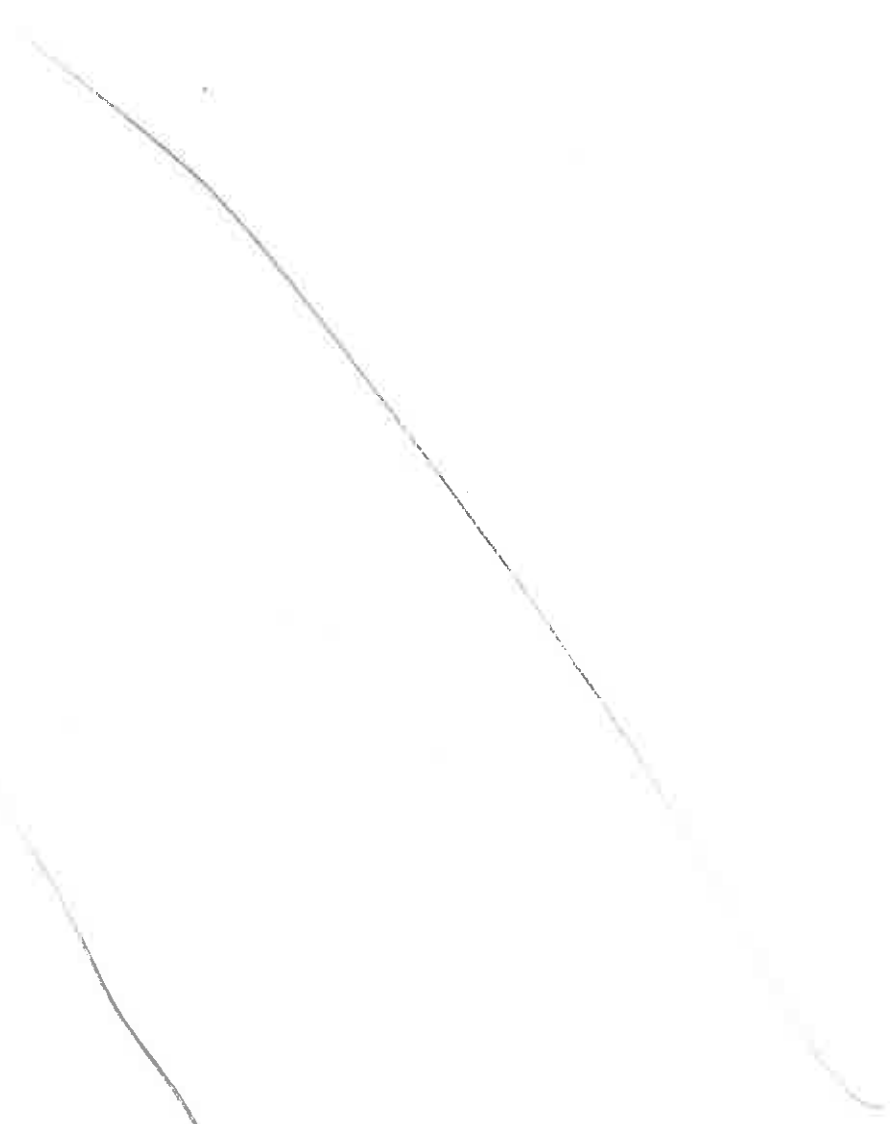
42. The Operator shall give written notification as soon as practicable prior to any of the following:

- permanent cessation of the operation of part or all of the Permitted Installation;
- cessation of operation of part or all of the Permitted Installation for a period likely to exceed one year; and
- resumption of the operation of part or all of the Permitted Installation after a cessation has been notified.

43. The Operator shall notify the following matters to Ipswich Borough Council in writing within 14 days of their occurrence:

- any change to the operation capable of altering the substances from the operation. The notification must contain a description of the proposed change in operation. In this condition, 'change in operation' means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment;
- any change in the Operator's trading name, registered name or registered office address;
- any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary);
- any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement, or being wound up.

***~ End of Permit~***



**NOTES**

All dimensions to include walls, unless indicated otherwise. All dimensions to include walls, unless indicated otherwise. All dimensions to include walls, unless indicated otherwise.

This drawing includes information provided by independent surveyors and/or consultants, to whom CA Design has no liability for its accuracy.

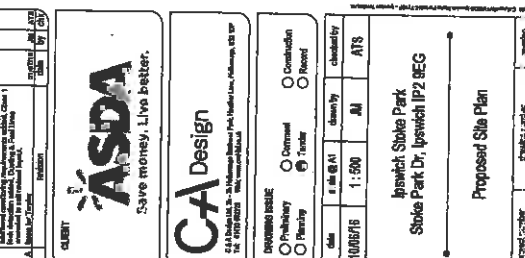
Drawings to be read in connection with: -RFS Specification. Any anomalies and/or discrepancies to be raised to CA as soon as reasonably practicable.

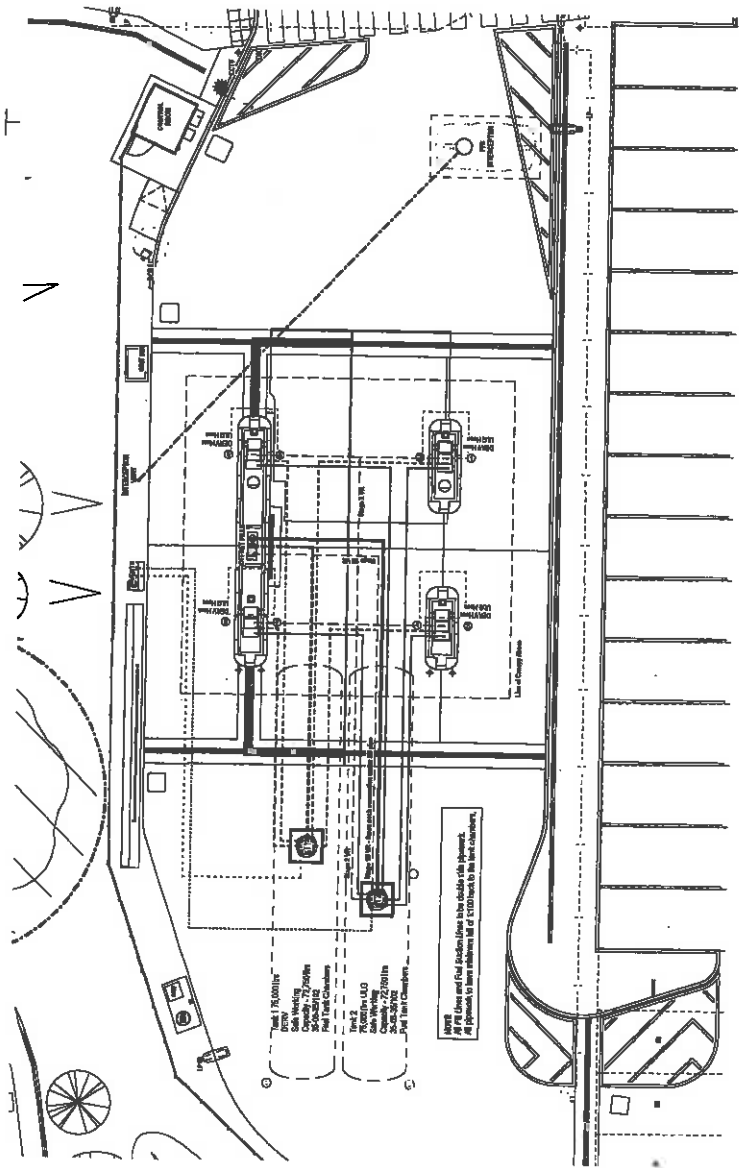
**CLIENT** ASDA  
**PROJECT** Stoke Park  
**DATE** 10/08/16  
**SCALE** 1:500  
**STATUS** AM  
**CLIENT** ASDA  
**PROJECT** Stoke Park  
**DATE** 10/08/16  
**SCALE** 1:500  
**STATUS** AM

**CA Design**  
 Save money. Live better.  
 CA Design  
 44 Highgate Way, Welwyn Garden City, Herts, SG13 7JF  
 Tel: 0438 742222  
 Email: info@ca-design.co.uk

**RESPONSE DATE**  
 Preliminary  
 Concept  
 Tender  
 Construction  
 Handover

**PROPOSED SITE PLAN**  
 Stoke Park Dr, Ipswich IP2 8EG  
 Proposed Site Plan





**Proposed Fuel Pipework Layout**  
1:100

**Fuel Line Legend**

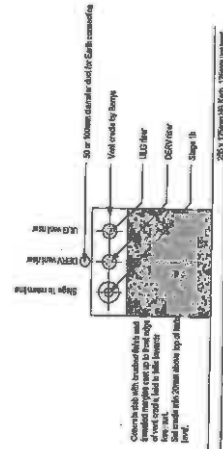
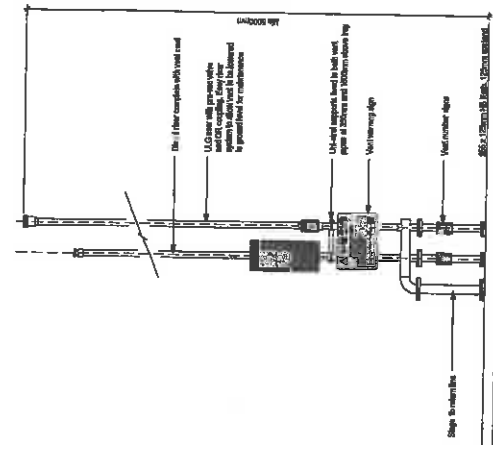
All fuel lines and fuel suction lines to be double skin pipework, and all pipework to have minimum fall of 1:100 back to the tank chambers.

- ULG Tank 1 - Fuel Line
- Offset III - Fuel Line (ULG)
- Offset II - Fuel Line (DERV)
- Vapor recovery - Stage 1b
- Separator Vent Pipe
- Fuel chamber vent (ULG)
- Fuel chamber vent (DERV)

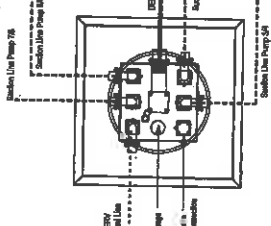
**Proposed Fuel Tanks - Fuel Line Configuration**

Capacity (Lit)	Fuel Grade	Displacement (Lit)
75,000	DERV	1.6
75,000	ULG	1.4

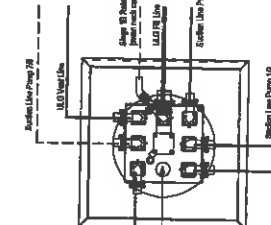
**Proposed PFS Fuel Pipework and Fuel Installation Details**  
1:100



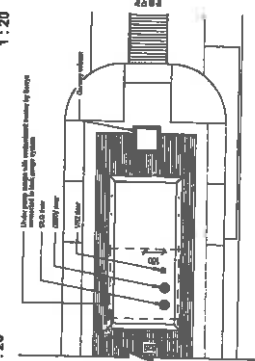
**Vent Pipes**  
1:25



**T1 - DERV Tank Chamber**  
1:20



**T2 - ULG Tank Chamber**  
1:20



**Pump Cradle & Fuel Riser Setting-Out**  
1:20

**NOTES**  
 1. All dimensions are in millimeters unless otherwise stated.  
 2. All dimensions are to the centerline of the pipe unless otherwise stated.  
 3. All dimensions are to the finished surface of the pipe unless otherwise stated.  
 4. All dimensions are to the finished surface of the pipe unless otherwise stated.  
 5. All dimensions are to the finished surface of the pipe unless otherwise stated.  
 6. All dimensions are to the finished surface of the pipe unless otherwise stated.  
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 9. All dimensions are to the finished surface of the pipe unless otherwise stated.  
 10. All dimensions are to the finished surface of the pipe unless otherwise stated.

This drawing includes information provided by independent surveyors and / or consultants to whom all queries shall be made. CSA Design can accept no liability for its content or accuracy.  
 Drawings to be read in connection with:-  
 - NRS Specifications. Any anomalies and/or discrepancies to be raised to CA as soon as reasonably practicable.

**ASDA**  
Save money. Live better.

**CA Design**  
614 Dept. U.S. - 24 Humber Park, Humberston, L30 3RQ  
Tel: 01474 474747

**CLIENT**  
10067616 As Indicated  
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**PROPOSED DATE**  
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 Planning  
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**PROPOSED DATE**  
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**PROPOSED DATE**  
 Ipswich Stone Park  
 Stone Park Dr, Ipswich IP2 9EG

**PROPOSED DATE**  
 Proposed PFS Fuel Pipework and Fuel Installation Details

**PROPOSED DATE**  
 Project number: \_\_\_\_\_  
 Sheet number: \_\_\_\_\_  
 Date: 11/11/15

## **VAPOUR RECOVERY - SCHEDULE OF MAINTENANCE & SCHEDULE OF INSPECTION .**

### **STAGE 1B**

To meet the requirements in Defra PGN 1.14 (06)

#### **ANNUAL**

Visual inspection of:

- a) Fill pipe adaptors and caps. Replace as required.
- b) Vapour connection point, including condition of adaptor, poppet valve and dust cover. Replace as required
- c) Position and clarity of safety notice. Replace as required
- d) Emission control valve. Clean/check flame arrestors and gauzes

#### **EVERY 3 YEARS**

As per annual inspection plus:

- a) Replace emission control valve with new certified unit to meet pressure and vacuum settings.

#### **EVERY 5 YEARS**

As per annual inspection plus:

- a) Testing of all fill pipes, vapour return line(s) and vents.
- b) Visual inspection of non return ball valves on vapour manifold (if applicable).  
Clean and check operation

### **STAGE 2 - Pump/Dispenser**

As pumps are fitted with Automatic monitoring system tested and approved to Merkblatt 1 standard there is no requirement for weekly checks or annual tests as specified in Defra PGN 1.14(06)

#### **EVERY 3 YEARS**

- a) Vapour containment integrity test
- b) Vapour recovery effectiveness (V/P ratio)
- c) Monitoring system test - disables petrol nozzles affected

