



**ENVIRONMENT  
AGENCY**

## Variation Notice with introductory note

Pollution Prevention and Control Regulations 2000

---

***EnviroWales Ltd.  
Rassau Recycling Facility  
Rassau Industrial Estate  
Ebbw Vale  
Blaenau Gwent  
NP23 5SD***

Variation Notice number

***EP3439LB***

Permit number

***EP3230BW***

# Introductory note

## **This introductory note does not form a part of the Variation Notice.**

The following Notice is issued under Regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the Regulations) to vary the conditions of a Permit issued under the Regulations to operate [part of] an installation.

The Notice comprises Schedule 1 containing conditions to be deleted, Schedule 2 conditions to be amended and Schedule 3 conditions to be added. The Notice is subject to the express conditions set out in Schedules 1 to 3.

The Permit, as amended by this Variation Notice, contains conditions which have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(10) of the PPC Regulations, that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation. Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

## **Brief description of the changes introduced by this variation notice.**

The main purpose of the activities at the installation is:-

Recycling of lead-acid batteries to produce metallic lead for re-sale and re-use.

In the original permit, lead smelting activities were to be undertaken in a single rotary furnace of 10m<sup>3</sup> (45 tonnes nominal capacity) and the scrap melting and refining kettles, fired by natural gas burners, were to each have a combustion stack associated with them.

In order to maintain operational flexibility, particularly with regard to different operational conditions for processing lead paste, the requirement for two 5m<sup>3</sup> furnaces instead of the single, larger furnace was identified. There will not be an additional release point required, as both furnaces will vent through release point A2 via separate bag filter abatement. There are separate banks of bag filters for each furnace merging to the single stack, which under normal operation will operate in tandem. However, if necessary, both furnaces can be vented through a single bank of filters as there is sufficient capacity designed into the arrangement to achieve the same attenuation of emissions.

Similarly the change from four smaller combustion stacks to a single stack serving the scrap melting kettle and refining kettles gas burner array is proposed to give improved dispersion characteristics of the combustion gases and increased ease of maintenance. As a result of this change, four release points (A5-A8) of 15m in height will be varied to a single release point of 21m in height, designated A5.

An additional release point to sewer is added through this variation. S1 will now service the foul domestic effluent from amenity blocks on the site, whilst the new release point, S2, will service the treated effluent from the on-site effluent treatment plant.

Atmospheric dispersion modelling and an H1 assessment have been carried out using the proposed operational revisions which demonstrate no negative environmental impact as a result of these changes.

**Other PPC Permits relating to this installation**

| Permit holder | Permit Number | Date of Issue |
|---------------|---------------|---------------|
| None          | -             | -             |

**Superseded Licenses/Consents/Authorisations relating to this installation**

| Holder | Reference Number | Date of Issue |
|--------|------------------|---------------|
| None   | -                | -             |

## Talking to us

If you contact the Agency about this Permit please quote the Permit Number.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) or any other number notified to it to give a notification under condition 5.1.1 of the Permit.

## Confidentiality

The Permit/Variation requires the Operator to provide information to the Agency. The Agency will place the information onto the public registers in accordance with the requirements of the PPC Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Agency to have such information withheld from the register as provided in the PPC Regulations. To enable the Agency to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

## Variations to the permit

This Permit may be varied in the future. The Status Log within the Introductory Note to any such variation will include summary details of the Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

## Surrender of the permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made. For the applicant to be successful, they would have to be able to demonstrate to the Agency, in accordance with Regulation 19 of the PPC Regulations, that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

## Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 18 of the PPC Regulations. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit. If the Permit authorises the carrying out of a specified waste management activity, then there is a further requirement that the transferee is considered to be a "fit and proper person" to carry out that activity.

## Status Log

| Detail                              | Date                   | Comment  |
|-------------------------------------|------------------------|--|
| <b>Application</b> EP 3230 BW       | Received 12/09/04      | Duly Made 13/10/04   |
| Response to request for information | Request dated 21/12/04 | Response dated 17/01/05  |
| Request to extend determination     | Request dated 22/02/05 | Request accepted 23/02/05  |
| Response to request for information | Request dated 03/03/05 | Response dated 15/03/05  |
| Request to extend determination     | Request dated 23/03/05 | Request accepted 24/3/05   |
| Request to extend determination     | Request dated 06/04/05 | Request accepted 06/04/05  |
| Permit determined                   | 26/04/05               |  |
| Application for variation           | Received 23/12/05      | Duly Made 16/01/06   |
| Variation EP3439LB                  | Determined 28/04/06    | Change from one 10m <sup>3</sup> Rotary Furnace to two 5m <sup>3</sup> Rotary Furnaces. Change to single release point for combustion products from Refining Kettle burners. |

*End of Introductory Note*

**Variation Notice**

Pollution Prevention and Control  
(England and Wales) Regulations 2000



**ENVIRONMENT  
AGENCY**

## Variation Notice

Permit number (**The Permit**)

**EP3230BW**

Variation Notice number

**EP3439LB**

The Environment Agency in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I. 2000 No. 1973) (as amended), hereby varies the Permit issued on 26/4/05 and held by you.

**EnviroWales Ltd.** ("the Operator"),

Whose Registered Office is

7a Nevil Street

Abergavenny

Monmouthshire

NP7 5AA

**Company registration number 4296277**

which relates to the operation of Installation at

**Rassau Recycling Facility, Plateaux 1 & 2, Rassau Industrial Estate, Ebbw Vale, Blaenau Gwent, NP23 5SD**

to the extent set out in Schedules 1 to 3 of this Variation Notice.

This Notice shall take effect from **28<sup>th</sup> April 2006 at 00.01 hours.**

Signed

**Dr Norman Allen**

Authorised to sign on behalf of the  
Environment Agency

Date

**27th April 06**

## **SCHEDULE 1 - CONDITIONS TO BE DELETED**

1. None

## **SCHEDULE 2 - CONDITIONS TO BE AMENDED**

2. Condition IC11 in Table 1.4 to be amended to

**Table 1.4.1: Improvement programme**

| Reference | Requirement  | Date       |
|-----------|--|------------|
| IC11      | <p>Subject to monitoring results for the pollutants listed below from points S1 and S2 exceeding Indicative BAT Benchmark concentrations, the following shall apply.</p> <p>The Operator shall submit a report in writing to the Agency reviewing the options for reducing the emissions of the pollutants listed below so they shall not exceed the Indicative BAT benchmark concentration indicated as standard conditions;</p> <ul style="list-style-type: none"><li>i) BOD 10 mg l<sup>-1</sup></li><li>ii) Lead and its compounds (as Pb) 5 mg l<sup>-1</sup></li><li>iii) Cadmium and its compounds (as Cd) 0.25 mg l<sup>-1</sup></li><li>iv) Mercury and its compounds (as Hg) 0.125 mg l<sup>-1</sup></li><li>v) Arsenic and its compounds (as As) 2.5 mg l<sup>-1</sup></li><li>vi) Zinc and its compounds (as Zn) 12.5mg l<sup>-1</sup></li><li>vii) Total hydrocarbon oil 2mg l<sup>-1</sup></li></ul> | 01/01/2007 |

The report must not only assess abatement options, but bias towards prevention at source through the supply chain and procurement, especially all rogue battery types and the effectiveness of the pre-sorting activity prior to battery breaking. If one of the options represents BAT the report shall contain a timetable for implementation by **30<sup>th</sup> June 2007**.

3. Table 2.2.1 to be amended to

**Table 2.2.1 : Emission points to air**

| <b>Emission point reference or description</b> | <b>Source</b>   | <b>Location of emission point</b>                |
|--|---|--|
| A1   | Wet scrubber abatement serving Battery Breaking   | Point A1 on site plan                            |
| A2   | Bag filter abatement plant serving Rotary Furnaces RF1 and RF2                          | Point A2 on site plan dated 10/04/06             |
| A3   | Bag filter abatement plant serving Refining Kettles RK1-3 and Scrap Melting Kettle SK1  | Point A3 on site plan                            |
| A4   | Bag filter abatement plant serving Slag Treatment and storage area                      | Point A4 on site plan                            |
| A5   | Oxy-gas burners stack for Scrap Melting Kettle SK1 and Refining Kettles RK1, RK2 & RK3. | Point A5 on site plan dated 10/04/06             |
| A6   | Sodium Carbonate silo   | Point indicating A6 on site plan dated 10/04/06  |
| A7   | Sodium Carbonate silo   | Point indicating A7 on site plan dated 10/014/06 |



**Table 2.2.2 : Emission limits to air and monitoring**

| Emission point reference | Parameter   | Limit (including Reference Period) <sup>1</sup>                | Monitoring frequency | Monitoring method<br>Note 2. |
|--------------------------|---|--|----------------------|------------------------------|
| A1                       | <b>Sulphuric Acid mist</b> mg Nm <sup>-3</sup>                              | <b>1.00</b><br>6 Monthly extractive sample                     | Twice a year         | US EPA Method 8              |
|                          | Minimum interval between extractive monitoring                              |  | 4 months             |                              |
| A2                       | <b>Lead and compounds taken together (as metal)</b> mg Nm <sup>-3</sup>     | <b>2.00</b>  | Quarterly            | BS EN 14385:2004             |
| A3                       |   | Monthly average and quarterly extractive sample                |                      |                              |
| A4                       |   |  |                      |                              |
| A1                       | <b>Total Particulate</b> mg Nm <sup>-3</sup>                                | <b>5.00</b>  | Quarterly            | BS EN 13284-1:2002           |
| A2                       |   | Monthly AMS (CEM) average and quarterly extractive sample      |                      |                              |
| A3                       |   | <b>10.00</b>   | Continuous           | ISO 10155:1995               |
| A4                       |   | Maximum daily average provided monthly AMS (CEM) value is met. |                      |                              |
| A2                       | <b>Sulphur Dioxide</b> mg Nm <sup>-3</sup> (Natural Gas Fuel)               | <b>500.00</b>  | Quarterly            | BS 6069-4.4:1993             |
| A3                       |   | Monthly AMS (CEM) average and quarterly extractive sample      |                      |                              |
|                          |   | <b>500.00</b>  | Continuous.          | BS 6069-4.4:1993             |
|                          |   | Maximum daily average provided monthly AMS (CEM) value is met. |                      |                              |
| A5                       | <b>Sulphur Dioxide</b> mg Nm <sup>-3</sup> (Natural Gas Fuel)               | <b>50.00</b>   | Twice a year         | BS 6069-4.4:1993             |
|                          |   | 6 Monthly extractive sample                                    |                      |                              |
|                          |   | Minimum interval between extractive monitoring                 | 4 months             |                              |
| A2                       | <b>Hydrogen Chloride</b> mg Nm <sup>-3</sup>                                | <b>10.00</b>   | Quarterly            | BS EN 1911-1:1998            |
| A3                       |   | Quarterly extractive sample                                    |                      |                              |
| A1                       | <b>Cadmium and compounds taken together (as element) mg Nm<sup>-3</sup></b> | <b>0.5</b>   | Quarterly            | BS EN 14385:2004             |
| A2                       |   | Quarterly extractive sample                                    |                      |                              |
| A3                       |   |  |                      |                              |
| A4                       |   |  |                      |                              |

|    |   |        |  |              |                                      |
|----|---|--------|--|--------------|--------------------------------------|
| A1 | Copper, lead, nickel, zinc and their compounds taken together (as metal) mg Nm <sup>-3</sup>              | 2.00   | Quarterly extractive sample                                    | Quarterly    | BS EN 14385:2004                     |
| A2 |   |        |  |              |                                      |
| A3 |   |        |  |              |                                      |
| A4 |   |        |  |              |                                      |
| A1 | Antimony, tin, tellurium and their compounds taken together (as element) mg Nm <sup>-3</sup>              | 2.00   | Quarterly extractive sample                                    | Quarterly    | BS EN 14385:2004                     |
| A2 |   |        |  |              |                                      |
| A3 |   |        |  |              |                                      |
| A4 |   |        |  |              |                                      |
| A1 | Cadmium, arsenic, thallium, selenium, and their compounds taken together (as element) mg Nm <sup>-3</sup> | 0.5    | Quarterly extractive sample                                    | Quarterly    | BS EN 14385:2004                     |
| A2 |   |        |  |              |                                      |
| A3 |   |        |  |              |                                      |
| A4 |   |        |  |              |                                      |
|    | Mercury (as element) mg Nm <sup>-3</sup>  | 0.5    | Quarterly extractive sample                                    | Quarterly    | BS EN 13211:2001                     |
|    |   |        |  |              |                                      |
|    |   |        |  |              |                                      |
|    |   |        |  |              |                                      |
| A2 | Dioxins and Furans (ITEQ) ng Nm <sup>-3</sup>   | 0.1    | 6 Monthly extractive sample (minimum 4 hours, maximum 8 hours) | Twice a year | BS EN 1948-1:1997 Parts 1 to 3       |
| A3 |   |        |  |              |                                      |
|    | Minimum interval between extractive monitoring  |        |  | 4 Months     |                                      |
| A2 | Oxides of Nitrogen mg Nm <sup>-3</sup>  | 100.00 | Monthly AMS (CEM) average and extractive sample                | Quarterly    | ISO 10849:1996                       |
| A3 |   |        |  |              |                                      |
| A5 |   |        |  |              |                                      |
|    |   |        |  |              |                                      |
|    |   | 200.00 | Maximum daily average provided monthly AMS (CEM) value is met. | Continuous   | ISO 10849:1996                       |
|    |   |        |  |              |                                      |
|    |   |        |  |              |                                      |
|    |   |        |  |              |                                      |
| A2 | Carbon Monoxide mg Nm <sup>-3</sup>   | 150.00 | Monthly AMS (CEM) average and extractive sample                | Quarterly    | ISO 12039:2001                       |
| A3 |   |        |  |              |                                      |
| A5 |   |        |  |              |                                      |
|    |   |        |  |              |                                      |
|    |   | 300.00 | Maximum daily average provided monthly AMS (CEM) value is met. | Continuous   | ISO 12039:2001                       |
|    |   |        |  |              |                                      |
|    |   |        |  |              |                                      |
|    |   |        |  |              |                                      |
| A2 | Volatile Organic Compounds (as Carbon) mg Nm <sup>-3</sup>  | 50.00  | Monthly AMS (CEM) average and extractive sample                | Quarterly    | BS EN 12619:1999 or BS EN 13526:2001 |
| A3 |   |        |  |              |                                      |
| A5 |   |        |  |              |                                      |

|          |                    |  |  |   |
|----------|--------------------|--|--|---|
|          |                    | <b>100.00</b><br>Maximum daily<br>average provided<br>monthly AMS (CEM)<br>value is met. | Continuous                                       | BS EN<br>12619:1999 or<br>BSEN 13526:2001 |
| A6<br>A7 | <b>Particulate</b> | No visible emission <sup>3</sup>   | When<br>unloading<br>bulk<br>Sodium<br>Carbonate |   |

Note 1: See Section 6 for reference conditions

Note 2: Monitoring methodology shall have regard to the current methods as described in Technical Guidance Note (Monitoring) M2 as periodically revised or as previously agreed in writing with the Agency.

Note 3: For these release points only, a particulate emission concentration limit of 10mg/m<sup>3</sup> is appropriate for this type of cartridge filter abatement. However, the Environment Agency recognises that it is neither practicable, nor beneficial to test small individual filters. The Operator is therefore required generally to ensure that visible emissions of dust are prevented, or in the event of a visible emission, that such steps are taken as to minimise the release, and that prompt inspection and maintenance is carried out as soon as practicable. Operating instruction shall state visual observations are taken during unloading of bulk lime or sodium carbonate.

4. Condition 2.2.2.7 to be amended to

2.2.2.7 Emissions to sewer from the specified emission points in Table 2.2.7 shall only arise from the source(s) specified in that Table.

Table 2.2.7 Emission points to sewer

| Emission point reference or description                  | Source   | Sewer           |
|--|--|-----------------|
| S1 (WD1 on drawing S4.4122-23(a))                        | Mainly foul domestic sewage from amenity areas.                              | Welsh Water plc |
| S2 (S2 on drawing 04122-201 and drawing dated 10/4/2006) | Effluent treatment plant taking process waters from site process operations. | Welsh Water plc |

5. Condition 2.2.2.8 to be amended to

2.2.2.8 The limits for the emissions to sewer for the parameter(s) and emission point(s) set out in Table 2.2.8 shall not be exceeded.

**Table 2.2.8 : Emission limits and monitoring frequency to sewer**

| Emission point reference | Substance   | Limit (including Reference Period) | Monitoring frequency   |                    | Monitoring method<br>Note 4.  |
|--------------------------|---|------------------------------------|------------------------|--------------------|---|
| S1, S2                   | Flow m <sup>3</sup> day <sup>-1</sup>                     | 150<br>Daily average               | Continuous             |                    | To be agreed in writing with the Agency prior to commencement of measurement. |
|                          | Biological Oxygen Demand mg litre <sup>-1</sup>           | 10.0<br>Weekly average             | Weekly                 |                    | BS EN 1899-2 (BOD <sub>5</sub> )  |
|                          | Suspended Solids mg litre <sup>-1</sup>                   | 400<br>Weekly average              | Weekly made up samples | composite of daily | SCA Blue Book 105<br>ISBN 011751957X  |
|                          | Hydrocarbon Oil mg litre <sup>-1</sup>                    | No visible staining                | Weekly made up samples | composite of daily | -   |
|                          | pH max  | 11                                 | Continuous             |                    | ISO 10523:1994 or BS 6068-2.50:1995   |
|                          | pH min  | 6                                  | Continuous             |                    | ISO 10523:1994 or BS 6068-2.50:1995   |
|                          | Sulphate mg litre <sup>-1</sup>                           | 2000<br>Weekly average             | Weekly made up samples | composite of daily | SCA Blue Book 136<br>ISBN 0117522406  |
|                          | Antimony and its compounds (as Sb) mg litre <sup>-1</sup> | 2.5<br>Weekly average              | Weekly made up samples | composite of daily | BS ISO 17294-2:2003 or BS 6068-2.89:2003                                      |
|                          | Arsenic and its compounds (as As) mg litre <sup>-1</sup>  | 2.5<br>Weekly average              | Weekly made up samples | composite of daily | BS ISO 17294-2:2003 or BS 6068-2.89:2003                                      |
|                          | Cadmium and its compounds (as Cd) mg litre <sup>-1</sup>  | 0.25<br>Weekly average             | Weekly made up samples | composite of daily | BS ISO 17294-2:2003 or BS 6068-2.89:2003                                      |
|                          | Copper and its compounds (as Cu) mg litre <sup>-1</sup>   | 12.5<br>Weekly average             | Weekly made up samples | composite of daily | BS ISO 17294-2:2003 or BS 6068-2.89:2003                                      |
|                          | Lead and its compounds (as Pb) mg litre <sup>-1</sup>     | 5.0<br>Weekly average              | Weekly made up samples | composite of daily | BS ISO 17294-2:2003 or BS 6068-2.89:2003                                      |
|                          | Mercury and its compounds (as Hg) mg litre <sup>-1</sup>  | 0.125<br>Weekly average            | Weekly made up samples | composite of daily | BS EN 13506:2002 or BS 6069-2.74:2002   |
|                          | Nickel and its compounds (as Ni) mg litre <sup>-1</sup>   | 12.5<br>Weekly average             | Weekly made up samples | composite of daily | BS ISO 17294-2:2003 or BS 6068-2.89:2003                                      |
|                          | Zinc and its compounds (as Zn) mg litre <sup>-1</sup>     | 12.5<br>Weekly average             | Weekly made up samples | composite of daily | BS ISO 17294-2:2003 or BS 6068-2.89:2003                                      |

Note 4: Monitoring methodology shall have regard to the current methods as described in Technical Guidance Note (Monitoring) M18 as periodically revised or as previously agreed in writing with the Agency.

6. Schedule 2 - Reporting of monitoring data to be amended to

Parameters for which reports shall be made, in accordance with conditions 4.1.2 and 4.1.3 of this Permit, are listed below.

| Parameter  | Emission point | Reporting period | Period begins   |
|--|----------------|------------------|---|
| <b>Sulphuric Acid mist</b><br>mg Nm <sup>-3</sup>  | A1             | Every 6 months   | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Lead and compounds taken together (as metal)</b><br>mg Nm <sup>-3</sup>                                       | A2, A3, A4     | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Total Particulate</b><br>mg Nm <sup>-3</sup>  | A1, A2, A3, A4 | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Sulphur Dioxide</b><br>mg Nm <sup>-3</sup> (Smelting)   | A2, A3,        | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Sulphur Dioxide</b><br>mg Nm <sup>-3</sup> (Natural Gas Fuel)   | A5,            | Every 6 months   | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Hydrogen Chloride</b><br>mg Nm <sup>-3</sup>  | A2, A3         | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Cadmium and compounds taken together (as element)</b><br>mg Nm <sup>-3</sup>                                  | A1, A2, A3, A4 | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Copper, lead, nickel, zinc and their compounds taken together (as metal)</b><br>mg Nm <sup>-3</sup>           | A1, A2, A3, A4 | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Antimony, tin, tellurium and their compounds taken together (as element)</b> mg Nm <sup>-3</sup>              | A1, A2, A3, A4 | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Cadmium, arsenic, thallium, selenium, and their compounds taken together (as element)</b> mg Nm <sup>-3</sup> | A1, A2, A3, A4 | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Mercury (as element)</b> mg Nm <sup>-3</sup>  |                |                  |   |
| <b>Dioxins and Furans (ITEQ)</b><br>ng Nm <sup>-3</sup>  | A2, A3,        | Every 6 months   | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Oxides of Nitrogen</b><br>mg Nm <sup>-3</sup>   | A2, A3, A5     | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Carbon Monoxide</b><br>mg Nm <sup>-3</sup>  | A2, A3, A5,    | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Volatile Organic Compounds (as Carbon)</b><br>mg Nm <sup>-3</sup>   | A2, A3, A5,    | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Particulate</b><br>Visible emission Y/N?  | A6, A7         | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Flow</b> m3 day <sup>-1</sup>   | S1, S2         | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |
| <b>Biological Oxygen Demand</b><br>mg litre <sup>-1</sup>  | S1, S2         | Quarterly        | 1 <sup>st</sup> day of quarter in which operations commence |

|   |               |                  |   |
|---|---------------|------------------|---|
| <b>Suspended Solids</b><br>mg litre <sup>-1</sup>               | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>Hydrocarbon Oil</b>  | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>pH max</b>   | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>pH min</b>   | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>Sulphate mg litre<sup>-1</sup></b>                           | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>Antimony and its compounds (as Sb) mg litre<sup>-1</sup></b> | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>Arsenic and its compounds (as As) mg litre<sup>-1</sup></b>  | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>Cadmium and its compounds (as Cd) mg litre<sup>-1</sup></b>  | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>Copper and its compounds (as Cu) mg litre<sup>-1</sup></b>   | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>Lead and its compounds (as Pb) mg litre<sup>-1</sup></b>     | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>Mercury and its compounds (as Hg) mg litre<sup>-1</sup></b>  | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>Nickel and its compounds (as Ni) mg litre<sup>-1</sup></b>   | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>Zinc and its compounds (as Zn) mg litre<sup>-1</sup></b>     | <b>S1, S2</b> | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |
| <b>Water usage</b>  |               | <b>Annually</b>  | <b>1<sup>st</sup> January 2006.</b>                               |
| <b>Energy Usage</b>   |               | <b>Annually</b>  | <b>1<sup>st</sup> January 2006.</b>                               |
| <b>Waste disposal and/or Recovery</b>                           |               | <b>Annually</b>  | <b>1<sup>st</sup> January 2006.</b>                               |
| <b>Performance Indicators</b>                                   |               | <b>Annually</b>  | <b>1<sup>st</sup> January 2006.</b>                               |
| <b>Quarterly Substance Report</b>                               |               | <b>Quarterly</b> | <b>1<sup>st</sup> day of quarter in which operations commence</b> |



7. Schedule 3 - Forms to be used shall be amended to

| Table S3: Reporting Forms   |             |              |
|-----------------------------|-------------|--------------|
| Media / parameter           | Form Number | Date of Form |
| Air                         | A1, A2, A3  | 28/04/06     |
| Water (excluding sewer)     | W1          | 26/04/05     |
| Sewer                       | S1          | 28/04/06     |
| Energy                      | E1          | 26/04/05     |
| Waste Return                | R1          | 26/04/05     |
| Water usage                 | WU1         | 26/04/05     |
| Performance indicators      | PI1         | 26/04/05     |
| Quarterly Substance reports | SC1         | 26/04/05     |

### **SCHEDULE 3 - CONDITIONS TO BE ADDED**

8. None

**END OF VARIATION**