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ADDENDUM
TO
REPORT FC/15/8104SR02, (APPENDIX 6.4 OF THE INDAVER RINGASKIDDY
RESOURCE RECOVERY CENTRE EIS)

28 April 2017

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Introduction

This addendum to report FC/15/8104SR02 has been prepared to address an issue that arose during the Oral Hearing for the above project.

During the Oral Hearing it was discovered that of the appendices submitted with the above referenced modelling report, Appendix D and Appendix J were attached in error. The correct versions of Appendices D and J are now provided. The conclusions of the report remain unchanged, as do the conclusions listed in Section 6.5.3.6 of the EIS and in fact there is a slight reduction in predicted impact due to the corrections noted by Professor Paul Johnston of Trinity College Dublin. The soil sample dioxin data used in the modelling study was correct and was from Location 4a of Table 2 of the soil dioxin monitoring report.

In order to reconfirm the robustness of the model methodology inputs and outputs it was decided to commission an independent expert, Professor Johnston to undertake a review of the modelling study (this review is provided as Attachment X1 of this Addendum). Professor Johnston has agreed with the conclusions of the modelling report submitted with the EIS and has noted a number of minor errors which do not change the conclusions but which we have corrected in the interests of completeness. Dr Paul Johnston's review of the correct appendices and the modelling found that the data in the appendices matched the model inputs and outputs with some minor transcription errors, these errors were related to how the data was transcribed and were minor in nature. Professor Johnston also noted that one value out of 58 input fields was entered as a higher concentration than the actual measured value on-site, this led to a slight over prediction of results, and has also been amended in the model for the sake of consistency.

The correction of the minor errors led to a predicted reduction in the increase in predicted dioxin intake, the corrected modelled increase was found to be 1.5% of the TWI compared with the previously predicted value of 1.7% of the TWI. As noted above the changes do not affect the conclusions of the modelling study or of the EIS. The conclusions drawn for the ecological effects of dioxin emissions remain unchanged also as a separate modelling exercise was undertaken for ecological impacts of dioxin, the conclusions of the NIS therefore remain unchanged.

Explanation as to How Error of Incorrect Appendices Occurred.

We have looked into what occurred and how the incorrect files were printed to the Attachment D and J submitted, and the error was in the following sequence:

The RISC HUMAN Model generates a proprietary file called a .loc file, and as the Model does not interface with Word or Excel, the modeller reads the model outputs from the screen and manually inputs them to Tables in the Word Document Model Report and the US EPA spreadsheet model used to calculate dioxin accumulation in soil. The modeller then takes the calculated increase in soil concentration and puts that into the RISC HUMAN model, to calculate the dioxin intake of baseline plus predicted. The modeller then takes the output from this model, again from the screen, and inputs that to the Word Document Model and Excel Report also and then writes up the Intake Model Report. Finally once all of this is done the modeller runs a print off, of the model .loc file, which generates as a text file, and then has to convert this .txt file to a word document. It was this last step, the conversion of .txt file to .doc file, where the error occurred, unfortunately the modeller chose the 2008 .txt files to convert, rather than the 2015 .txt, and saved the 2008 file with the "2015" title, hence the administrative error.



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