

PEDAL2 – Delivery of Phosphorus and Faecal Indicator Organisms from Agricultural Sources to Watercourses

Evidence Project Final Report to DEFRA

December 2013

Lancaster Environment Centre

Lancaster University

Lancaster

LA1 4YQ

Table of Contents

Executive Summary.....	2
Introduction.....	4
Scientific Objectives.....	5
Concept and Methodology.....	6
The Pedal 2 Phosphorus Delivery and DESPRAL Models.....	9
The FIO Model.....	13
Results and Discussion.....	15
Towards a Graphic User Interface.....	23
Conclusions.....	24
References.....	27

Appendix 1: Sample Collection and analysis and DESPRAL maps	
Appendix 2: PEDAL 2 Phosphorus Expert Workshop report 17 th & 18 th November 2009	
Appendix 3: PEDAL 2 Faecal Indicator Organisms (FIO) Expert Workshop Report	
Appendix 4: New Visual Assessment Methodology for the PEDAL 2 Catchments	
Appendix 5: Input Variables, Output Results and Storm Plots for the FIO In-stream Model at Lower Moor Head Farm and Dedra Banks Farm	
Appendix 6: The PEDAL 2 GUI User Manual	

PEDAL2 – Delivery of Phosphorus and Faecal Indicator Organisms from Agricultural Sources to Watercourses

Evidence Project Final Report to DEFRA

December 2013

Appendices

Lancaster Environment Centre

Lancaster University

Lancaster

LA1 4YQ