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| **1. PROJECT DETAILS** | | | |
| **Project name** | Model Frameworks for Estuarine Reporting | | |
| **DBCA project number** | RSP16UWA01 | | |
| **Funding recipient** | University Western Australia | | |
| **Project contact** | Dr Matthew Hipsey | | |
| **Project partners** | Dept of Biodiversity Conservation and Attractions; University of Western Australia | | |
| **Project objectives** | Specific objectives of this project are to:   1. Undertake an analysis of model performance in light of available datasets to give recommendations for rationalizing water quality monitoring data. 2. Develop a display portal for model outputs, showing regular visualisations of the SCERM model, driven by near real-time data. | | |
| **Scheduled start date** | 30 July 2016 | **Actual start date**: |  |
| **Scheduled completion date** | 30 December 2018 | | |
| **Funding allocated (Ex GST)** | $90,000 (DBCA); $15,317 (DBCA in-kind salary); $15,277 (UWA in-kind salary) | | |
| **Name of person completing this report** | Dr Matt Hipsey | | |

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| **2. BUDGET DETAILS AND DELIVERABLES** | |
| **2a. Summary of Project Funding** | | |
| **Please report on expenditure for this project.** | | |
| **Total funding allocated (Ex GST)** | $90,000 | |
| **Total funding spent to 31/12/2016 (Ex GST)** | $ | |
| **Remaining Funds 31/12/2016 (Ex GST)** | $ | |

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| **2b. Project variation across budget and/or milestones** |
| Please check the milestones in your collaborative arrangement. Do you need to seek a variation of milestones? Yes 🞎 No 🞎 |
| If yes, please provide details and reason for the request below: |
| Current milestone –  Varied milestone – |
| Reason and implications: |

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| 2c. Project Milestones (please refer to the Contract Letter / Collaborative Arrangement for your project) | | | | | | | | |
| Milestones | Activity | Due date | Progress towards milestones(inc. details on key achievements, dot points acceptable) | Behind | **On- track** | Completed | Not completed |
| Project Start | Undertake a start-up meeting to refine project arrangements, data requirements and output requirements | **30 July 2016** |  |  |  |  |  |
| Project development | Procure datasets and undertake an assessment of the model’s performance both spatially and temporally against the historical dataset and quantify error. Evaluate the relative value of datasets that input to the model. | **12 October 2016** |  |  |  |  |  |
| Project report | Deliver a report that presents visually and describes the outputs of the analyses of (b), identifies shortfalls, redundancies and relative values in the datasets used for the different aspects of model setup and validation, with recommendations on data shortfalls and data redundancies. | **Draft – 15 November 2016** |  |  |  |  |  |
| **Final – 15 December 2016** |  |  |  |  |  |
| Data management | Obtain data access and develop automation frameworks for model input. | **1 June 2018** |  |  |  |  |  |
| Portal development | Develop a visual (temporal and spatial) display of water quality (showing salinity, temperature, oxygen and other variables as agreed), which is readily updated. Create a web portal display that can be accessed access via Parks and Wildlife web pages | **1 September 2018** |  |  |  |  |  |
| Update visual display following review by the Department, and provide a summary document on project outcomes (max 2 pages) | **1 December 2018** |  |  |  |  |  |
| Model update | Update AED water quality model setup to include:   * Phytoplankton setup – dinoflagellate motility; * Lateral transect setup * Bathymetric updates | **1 September 2018** |  |  |  |  |  |
| Weekly maintenance of automated model system | **1 December 2018** |  |  |  |  |  |

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| **3. ADDITIONAL INFORMATION** |
| If you have any additional information or comments that you wish to include in this report please include it in the box below (please feel free to include a summary of results-to-date; attachments welcome): |
| Last project variation was in January 2018 |

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| 4. REPORT VERIFICATION | | | | |
| Please complete the section below to verify the details contained in this report. | | | | |
| **The information provided in this report and attachment (if applicable) is a true and accurate record:**  Dr Matt Hipsey | | | | |
| Project Manager (Name) |  | Project Manager (Signature) |  | Date |
|  |  |  |  |  |
| Deputy Vice Chancellor of Researchor representative (Name / Title) |  | Deputy Vice Chancellor of Researchor representative (Signature) |  | Date |

***Thank you for completing this report***

Please contact Dr Kerry Trayler on 9278 0955 if you would like more information

regarding this report.

**Please return the completed signed report and any attachments to:**

Department Biodiversity, Conservation and Attractions

Rivers and Estuaries Division

Locked Bag 104

BENTLEY DELIVERY CENTRE WA 6983

**or**

[kerry.trayler@dbca.wa.gov.au](mailto:kerry.trayler@dbca.wa.gov.au) (cc: [jeff.cosgrove@dbca.wa](mailto:jeff.cosgrove@dbca.wa).gov.au)

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| ***Rivers and Estuaries Division internal use only*** |
| Comments and recommendations:  Project manager name and signature: *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* Date:\_\_\_\_\_\_\_ |