



Republic of the Philippines  
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**MAY 29 2014**

**DENR Administrative Order**

No. 05

Series of 2014

Subject: **Designation of Butuanon River Watershed as a Water Quality Management Area (WQMA) and Creation of Its Governing Board.**

Pursuant to Section 5 of the Philippine Clean Water Act of 2004 (R.A. No. 9275) together with the pertinent provisions in its Implementing Rules and Regulations (DENR Administrative Order No. 2005-10) and DENR Memorandum Circular No. 15, series of 2009, and considering the critical importance to cities of Cebu and Mandaue, **Butuanon River Watershed is hereby designated as a Water Quality Management Area (WQMA).**

**Section 1. Policy and Objectives.** It is the policy of the State to pursue economic growth in a manner consistent with the protection, preservation and revival of the quality of our fresh, brackish and marine waters. Pursuant to this policy statement, this Order aims at protecting and improving the water quality of Butuanon River Watershed to make it a sustaining resource for the people of the cities of Cebu and Mandaue and municipality of Consolacion, consistent with the following water quality management objectives:

- a) To improve the water quality of Butuanon River Watershed and thereby contribute to the enhancement of the cities of Cebu and Mandaue and the municipality of Consolacion, as a source of water for irrigation and other agricultural uses and serve the best interest of the communities and stakeholders;
- b) To formulate a WQMA program on water quality management which recognizes that water quality management issues are inherently related and cannot be detached from concerns on water sources, ecological protection, water supply, public health and quality of life;
- c) To mobilize, encourage and support civil society and other sectors, including the academe and businesses engaged in environment-related activities in their efforts to organize, educate and motivate the people in addressing pertinent environmental issues and problems in the WQMA;
- d) To promote inter-LGU and stakeholder collaboration and cooperation through coordinated efforts in protecting and sustaining acceptable quality of water in the Butuanon River Watershed; and,
- e) To harness locally available resources to support rehabilitation and protection efforts for the Butuanon River Watershed.

**Section 2. Coverage.** The Butuanon River Watershed WQMA shall cover the Butuanon River and their natural or man-made tributaries that are within the WQMA boundary including the land embraced by the hydrologic unit identified through various maps.

The WQMA is bounded by the following geographic coordinates which are consistent with the map in Annex A:

| <b>Boundary Control Point</b> | <b>LGU with Jurisdiction</b>  | <b>LATITUDE</b> | <b>LONGITUDE</b> |
|-------------------------------|---|-----------------|------------------|
| 1                             | Brgy. Paknaan, Mandaue City   | 10 20 25.17 N   | 123 58 2.78 E    |
| 2                             | Brgy. Paknaan, Mandaue City   | 10 20 25.14 N   | 123 58 2.00 E    |
| 3                             | Brgy. Paknaan, Mandaue City   | 10 20 25.10 N   | 123 58 1.07 E    |
| 4                             | Brgy. Paknaan, Mandaue City   | 10 20 25.01 N   | 123 58 0.28 E    |
| 5                             | Brgy. Paknaan, Mandaue City   | 10 20 25.01 N   | 123 57 59.53 E   |
| 6                             | Brgy. Paknaan, Mandaue City   | 10 20 26.05 N   | 123 57 50.55 E   |
| 7                             | Brgy. Paknaan, Mandaue City   | 10 20 26.95 N   | 123 57 48.52 E   |
| 8                             | Near the boundary of Brgy. Paknaan, Mandaue City and Brgy. Umapad, Mandaue City       | 10 20 27.57 N   | 123 57 46.92 E   |
| 9                             | Near the boundary of Brgy. Paknaan, Mandaue City and Brgy. Umapad, Mandaue City       | 10 20 29.92 N   | 123 57 33.74 E   |
| 10                            | Plaridel St., Brgy. Paknaan, Mandaue City   | 10 20 37.63 N   | 123 57 27.59 E   |
| 11                            | S. E. Llenes St., Brgy. Paknaan, Mandaue City   | 10 20 45.21 N   | 123 57 26.37 E   |
| 12                            | S. E. Llenes St., Brgy. Paknaan, Mandaue City   | 10 20 47.40 N   | 123 57 24.23 E   |
| 13                            | S. E. Llenes St., Brgy. Paknaan, Mandaue City   | 10 20 56.67 N   | 123 57 16.02 E   |
| 14                            | S. E. Llenes St., Brgy. Paknaan, Mandaue City   | 10 20 58.44 N   | 123 57 16.18 E   |
| 15                            | S. E. Llenes St., Brgy. Paknaan, Mandaue City   | 10 20 59.68 N   | 123 57 16.66 E   |
| 16                            | Brgy. Paknaan, Mandaue City   | 10 20 54.49 N   | 123 57 14.91 E   |
| 17                            | Hiway, Brgy. Labogon, Mandaue City  | 10 20 50.42 N   | 123 56 45.93 E   |
| 18                            | Brgy. Tabok, Mandaue City   | 10 20 48.98 N   | 123 56 40.31 E   |
| 19                            | Brgy. Tabok, Mandaue City   | 10 20 50.56 N   | 123 56 34.44 E   |
| 20                            | Boundary of Brgy. Tabok, Mandaue City and Brgy. Tingub, Mandaue City                  | 10 21 27.22 N   | 123 56 24.74 E   |
| 21                            | Near the boundary of Brgy. Canduman, Mandaue City and Brgy. Pagsabungan, Mandaue City | 10 21 42.16 N   | 123 56 15.12 E   |
| 22                            | Brgy. Canduman, Mandaue City  | 10 21 40.48 N   | 123 56 4.52 E    |
| 23                            | Boundary of Brgy. Tawason, Mandaue City and Brgy. Canduman, Mandaue City              | 10 21 45.73 N   | 123 56 3.85 E    |
| 24                            | Brgy. Tawason, Mandaue City   | 10 22 11.18 N   | 123 55 47.97 E   |
| 25                            | Brgy. Tawason, Mandaue City   | 10 22 10.42 N   | 123 55 41.41 E   |
| 26                            | Boundary of Brgy. Tawason, Mandaue City and Brgy. Talamban,                           | 123 55 34.65 E  | 123 55 34.65 E   |

|    | Cebu City  |               |                |
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| 27 | NS Road, Brgy. Talamban, Cebu City   | 10 22 30.20 N | 123 55 32.18 E |
| 28 | Brgy. Talamban, Cebu City  | 10 22 51.10 N | 123 55 25.26 E |
| 29 | Brgy. Bacayan, Cebu City   | 10 22 57.40 N | 123 55 23.13 E |
| 30 | Brgy. Bacayan, Cebu City   | 10 23 6.25 N  | 123 55 36.12 E |
| 31 | Brgy. Bacayan, Cebu City   | 10 23 7.91 N  | 123 55 34.39 E |
| 32 | Brgy. Bacayan, Cebu City   | 10 23 16.69 N | 123 55 34.94 E |
| 33 | Brgy. Bacayan, Cebu City   | 10 23 20.91 N | 123 55 32.37 E |
| 34 | Brgy. Bacayan, Cebu City   | 10 23 36.54 N | 123 55 30.34 E |
| 35 | Near the boundary of Brgy. Pit-os, Cebu City and Brgy. Panoypoy, Consolacion | 10 23 41.08 N | 123 55 32.80 E |
| 36 | Near the boundary of Brgy. Pit-os, Cebu City and Brgy. Panoypoy, Consolacion | 10 23 48.87 N | 123 55 29.41 E |
| 37 | Brgy. Pit-os, Cebu City  | 10 23 59.82 N | 123 55 25.22 E |
| 38 | Brgy. Pit-os, Cebu City  | 10 24 5.01 N  | 123 55 22.84 E |
| 39 | Near the boundary of Brgy. Pit-os, Cebu City and Brgy. Panas, Consolacion    | 10 24 8.39 N  | 123 55 22.36 E |
| 40 | Near the boundary of Brgy. Pit-os, Cebu City and Brgy. Panas, Consolacion    | 10 24 10.96 N | 123 55 20.51 E |
| 41 | Near the boundary of Brgy. Pit-os, Cebu City and Brgy. Panas, Consolacion    | 10 24 12.58 N | 123 55 20.00 E |
| 42 | Brgy. Pit-os, Cebu City  | 10 24 13.49 N | 123 55 20.62 E |
| 43 | Brgy. Pit-os, Cebu City  | 10 24 15.49 N | 123 55 21.68 E |
| 44 | Brgy. Panas, Consolacion   | 10 24 22.82 N | 123 55 23.28 E |
| 45 | Brgy. Panas, Consolacion   | 10 24 30.69 N | 123 55 26.89 E |
| 46 | Boundary of Brgy. Binaliw, Cebu City and Brgy. Panas, Consolacion            | 10 24 36.81 N | 123 55 2.10 E  |
| 47 | Brgy. Binaliw, Cebu City   | 10 24 48.17 N | 123 54 58.69 E |
| 48 | Brgy. Binaliw, Cebu City   | 10 25 2.21 N  | 123 54 54.25 E |
| 49 | Brgy. Binaliw, Cebu City   | 10 25 6.36 N  | 123 54 51.68 E |
| 50 | Brgy. Binaliw, Cebu City   | 10 25 9.45 N  | 123 54 50.68 E |
| 51 | Brgy. Binaliw, Cebu City   | 10 25 13.57 N | 123 54 51.14 E |
| 52 | Brgy. Binaliw, Cebu City   | 10 25 17.98 N | 123 54 52.99 E |
| 53 | Brgy. Binaliw, Cebu City   | 10 25 26.75 N | 123 55 30.88 E |
| 54 | Brgy. Binaliw, Cebu City   | 10 25 28.81 N | 123 55 31.48 E |
| 55 | Brgy. Panas, Consolacion   | 10 25 30.48 N | 123 55 30.99 E |
| 56 | Brgy. Panas, Consolacion   | 10 25 31.51 N | 123 55 32.03 E |
| 57 | Brgy. Panas, Consolacion   | 10 25 33.32 N | 123 55 32.09 E |
| 58 | Brgy. Binaliw, Cebu City   | 10 25 34.50 N | 123 55 32.14 E |
| 59 | Brgy. Binaliw, Cebu City   | 10 25 34.93 N | 123 55 34.96 E |
| 60 | Brgy. Binaliw, Cebu City   | 10 25 35.37 N | 123 55 36.70 E |
| 61 | Brgy. Binaliw, Cebu City   | 10 25 42.34 N | 123 55 36.67 E |
| 62 | Boundary of Brgy. Binaliw, Cebu City and Brgy. Lanipga, Consolacion          | 10 25 46.80 N | 123 55 37.13 E |
| 63 | Boundary of Brgy. Binaliw, Cebu City and Brgy. Lanipga, Consolacion          | 10 25 51.25 N | 123 55 43.29 E |

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| 64  | Brgy. Binaliw, , Cebu City   | 10 25 56.65 N | 123 55 43.16 E |
| 65  | Brgy. Lanipga, Consolacion   | 10 26 3.40 N  | 123 54 56.24 E |
| 66  | Brgy. Lanipga, Consolacion   | 10 26 5.36 N  | 123 54 57.98 E |
| 67  | Brgy. Lanipga, Consolacion   | 10 26 6.34 N  | 123 54 59.97 E |
| 68  | Brgy. Lanipga, Consolacion   | 10 26 8.20 N  | 123 55 0.17 E  |
| 69  | Brgy. Lanipga, Consolacion   | 10 26 9.38 N  | 123 55 0.37 E  |
| 70  | Boundary of Brgy. Lanipga,<br>Consolacion and Brgy. Agsungot,<br>Cebu City | 10 26 11.34 N | 123 54 58.84 E |
| 71  | Brgy. Agsungot, Cebu City  | 10 26 13.35 N | 123 54 59.44 E |
| 72  | Brgy. Agsungot, Cebu City  | 10 26 15.17 N | 123 55 0.34 E  |
| 73  | Brgy. Agsungot, Cebu City  | 10 26 17.48 N | 123 54 59.51 E |
| 74  | Brgy. Agsungot, Cebu City  | 10 26 25.38 N | 123 54 56.55 E |
| 75  | Brgy. Agsungot, Cebu City  | 10 26 32.01 N | 123 54 55.14 E |
| 76  | Brgy. Agsungot, Cebu City  | 10 26 43.14 N | 123 54 58.74 E |
| 77  | Brgy. Agsungot, Cebu City  | 10 26 50.74 N | 123 54 58.41 E |
| 78  | Brgy. Agsungot, Cebu City  | 10 26 53.64 N | 123 54 58.37 E |
| 79  | Mabini Road, Brgy. Mabini, Cebu<br>City                                    | 10 26 55.31 N | 123 54 58.58 E |
| 80  | Brgy. Mabini, Cebu City  | 10 26 57.01 N | 123 55 1.31 E  |
| 81  | Brgy. Mabini, Cebu City  | 10 27 8.00 N  | 123 55 3.27 E  |
| 82  | Brgy. Mabini, Cebu City  | 10 27 10.16 N | 123 55 1.30 E  |
| 83  | Brgy. Mabini, Cebu City  | 10 27 12.08 N | 123 55 1.05 E  |
| 84  | Brgy. Mabini, Cebu City  | 10 27 13.35 N | 123 55 1.85 E  |
| 85  | Boundary of Brgy. Mabini , Cebu<br>City and Brgy. Agsungot, Cebu<br>City   | 10 26 52.09 N | 123 54 32.30 E |
| 86  | Agsungot Road, Brgy. Agsungot,<br>Cebu City                                | 10 26 49.31 N | 123 54 28.87 E |
| 87  | Brgy. Agsungot, Cebu City  | 10 26 44.80 N | 123 54 26.73 E |
| 88  | Agsungot Road, Brgy. Agsungot,<br>Cebu City                                | 10 26 39.02 N | 123 54 21.95 E |
| 89  | Agsungot Road, Brgy. Agsungot,<br>Cebu City                                | 10 26 37.51 N | 123 54 18.53 E |
| 90  | Agsungot Road, Brgy. Agsungot,<br>Cebu City                                | 10 26 39.14 N | 123 54 14.86 E |
| 91  | Agsungot Road, Brgy. Agsungot,<br>Cebu City                                | 10 26 38.56 N | 123 54 12.93 E |
| 92  | Agsungot Road, Brgy. Agsungot,<br>Cebu City                                | 10 26 34.79 N | 123 54 11.03   |
| 93  | Agsungot Road, Brgy. Agsungot,<br>Cebu City                                | 10 26 33.71 N | 123 54 8.95 E  |
| 94  | Agsungot Road, Brgy. Agsungot,<br>Cebu City                                | 10 26 27.78 N | 123 54 7.30 E  |
| 95  | Agsungot Road, Brgy. Agsungot,<br>Cebu City                                | 10 26 19.01 N | 123 54 1.42 E  |
| 96  | Boundary of Brgy. Agsungot, Cebu<br>City and Brgy. Guba                    | 10 26 16.23 N | 123 53 58.74 E |
| 97  | Guba Road, Brgy. Guba, Cebu City   | 10 26 14.03 N | 123 53 55.51 E |
| 98  | Guba Road, Brgy. Guba, Cebu City   | 10 26 11.00 N | 123 53 51.14 E |
| 99  | Guba Road, Brgy. Guba, Cebu City   | 10 26 6.98 N  | 123 53 49.45 E |
| 100 | Guba Road, Brgy. Guba, Cebu City   | 10 26 3.60 N  | 123 53 48.74 E |
| 101 | Brgy. Guba, Cebu City  | 10 26 2.32 N  | 123 53 47.10 E |
| 102 | Brgy. Guba, Cebu City  | 10 26 0.47 N  | 123 53 44.62 E |

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| 103 | Guba Road, Brgy. Guba, Cebu City   | 10 26 0.49 N  | 123 53 37.43 E |
| 104 | Guba Road, Brgy. Guba, Cebu City   | 10 25 58.98 N | 123 53 33.96 E |
| 105 | Guba Road, Brgy. Guba, Cebu City   | 10 25 55.75 N | 123 53 29.59 E |
| 106 | Brgy. Guba, Cebu City  | 10 25 56.12 N | 123 53 19.88 E |
| 107 | Brgy. Guba, Cebu City  | 10 25 50.64 N | 123 53 16.04 E |
| 108 | Brgy. Guba, Cebu City  | 10 25 28.05 N | 123 53 2.90 E  |
| 109 | Brgy. Guba, Cebu City  | 10 25 24.37 N | 123 53 3.23 E  |
| 110 | Brgy. Guba, Cebu City  | 10 25 19.76 N | 123 53 4.26 E  |
| 111 | Brgy. Guba, Cebu City  | 10 25 18.45 N | 123 52 39.23 E |
| 112 | Guba Road, Brgy. Guba, Cebu City   | 10 25 15.16 N | 123 52 23.41 E |
| 113 | Guba Road, Brgy. Guba, Cebu City   | 10 25 13.85 N | 123 52 18.40 E |
| 114 | Guba Road, Brgy. Guba, Cebu City   | 10 25 9.84 N  | 123 52 15.62 E |
| 115 | Boundary of Brgy. Guba, Cebu City<br>and Brgy. Sirao, Cebu City                        | 10 25 3.02 N  | 123 52 15.40 E |
| 116 | Sirao Road, Brgy. Sirao, Cebu City   | 10 24 56.44 N | 123 52 15.08 E |
| 117 | Sirao Road, Brgy. Sirao, Cebu City   | 10 24 50.22 N | 123 52 10.31 E |
| 118 | Sirao Road, Brgy. Sirao, Cebu City   | 10 24 46.06 N | 123 52 9.41 E  |
| 119 | Sirao Road, Brgy. Sirao, Cebu City   | 10 24 41.69 N | 123 52 8.06 E  |
| 120 | Brgy. Sirao, Cebu City   | 10 24 35.86 N | 123 52 5.96 E  |
| 121 | Brgy. Sirao, Cebu City   | 10 24 33.22 N | 123 52 1.59 E  |
| 122 | Brgy. Sirao, Cebu City   | 10 24 29.16 N | 123 51 56.97 E |
| 123 | Near the boundary of Brgy. Sirao,<br>Cebu City and Brgy. Pung-ol<br>Sibugay, Cebu City | 10 24 26.67 N | 123 51 53.05 E |
| 124 | Brgy. Pung-ol Sibugay, Cebu City   | 10 24 25.31 N | 123 51 50.47 E |
| 125 | Pung-ol Sibugay Road, Brgy. Pung-<br>ol Sibugay, Cebu City                             | 10 24 8.79 N  | 123 51 42.34 E |
| 126 | Pung-ol Sibugay Road, Brgy. Pung-<br>ol Sibugay, Cebu City                             | 10 24 3.07 N  | 123 51 35.64 E |
| 127 | Pung-ol Sibugay Road, Brgy. Pung-<br>ol Sibugay, Cebu City                             | 10 23 55.01 N | 123 51 23.62 E |
| 128 | Brgy. Pung-ol Sibugay, Cebu City   | 10 23 41.77 N | 123 51 27.05 E |
| 129 | Brgy. Pung-ol Sibugay, Cebu City   | 10 23 39.65 N | 123 51 26.61 E |
| 130 | Brgy. Pung-ol Sibugay, Cebu City   | 10 23 35.34 N | 123 51 25.63 E |
| 131 | Cebu Transcentral Highway, Brgy.<br>Babag, Cebu City                                   | 10 23 17.95 N | 123 51 19.31 E |
| 132 | Cebu Transcentral Highway, Brgy.<br>Babag, Cebu City                                   | 10 23 12.91 N | 123 51 16.49 E |
| 133 | Cebu Transcentral Highway, Brgy.<br>Babag, Cebu City                                   | 10 23 7.80 N  | 123 51 13.89 E |
| 134 | Cebu Transcentral Highway, Brgy.<br>Babag, Cebu City                                   | 10 23 3.12 N  | 123 51 13.88 E |
| 135 | Cebu Transcentral Highway, Brgy.<br>Babag, Cebu City                                   | 10 22 59.55   | 123 51 9.29 E  |
| 136 | Cebu Transcentral Highway, Brgy.<br>Babag, Cebu City                                   | 10 22 53.69 N | 123 51 13.48 E |
| 137 | Cebu Transcentral Highway, Brgy.<br>Babag, Cebu City                                   | 10 22 52.44 N | 123 51 14.14 E |
| 138 | Cebu Transcentral Highway, Brgy.<br>Babag, Cebu City                                   | 10 22 49.23 N | 123 51 11.40 E |
| 139 | Cebu Transcentral Highway, Brgy.<br>Babag, Cebu City                                   | 10 22 42.01 N | 123 51 4.88 E  |
| 140 | Cebu Transcentral Highway, Brgy.<br>Babag, Cebu City                                   | 10 22 38.14 N | 123 51 3.17 E  |

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| 141 | Babag Road, Brgy. Babag, Cebu City                     | 10 22 33.09 N | 123 51 3.23 E  |
| 142 | Babag Road, Brgy. Babag, Cebu City                     | 10 22 32.07 N | 123 51 3.23 E  |
| 143 | Babag Road, Brgy. Babag, Cebu City                     | 10 22 31.12 N | 123 51 4.41 E  |
| 144 | Babag Road, Brgy. Babag, Cebu City                     | 10 22 31.31 N | 123 51 12.68 E |
| 145 | Babag Road, Brgy. Babag, Cebu City                     | 10 22 30.36 N | 123 51 13.27 E |
| 146 | Babag Road, Brgy. Babag, Cebu City                     | 10 22 29.34 N | 123 51 13.27 E |
| 147 | Babag Road, Brgy. Babag, Cebu City                     | 10 22 25.91 N | 123 51 8.68 E  |
| 149 | Boundary of Brgy. Kalunasan and Brgy. Babag, Cebu City | 10 22 21.02 N | 123 51 5.93 E  |
| 150 | Brgy. Kalunasan, Cebu City                             | 10 22 20.14 N | 123 51 6.67 E  |
| 151 | Brgy. Kalunasan, Cebu City                             | 10 22 19.62 N | 123 51 8.29 E  |
| 152 | Brgy. Kalunasan, Cebu City                             | 10 22 21.81 N | 123 51 12.73 E |
| 153 | Brgy. Kalunasan, Cebu City                             | 10 22 20.62 N | 123 51 19.74 E |
| 154 | Brgy. Kalunasan, Cebu City                             | 10 22 18.05 N | 123 51 21.07 E |
| 155 | Brgy. Kalunasan, Cebu City                             | 10 22 17.48 N | 123 51 22.00 E |
| 156 | Brgy. Kalunasan, Cebu City                             | 10 22 16.79 N | 123 51 22.95 E |
| 157 | Brgy. Kalunasan, Cebu City                             | 10 22 18.49 N | 123 51 27.16 E |
| 158 | Brgy. Kalunasan, Cebu City                             | 10 22 18.36 N | 123 51 29.18 E |
| 159 | Brgy. Kalunasan, Cebu City                             | 10 22 16.56 N | 123 51 31.15 E |
| 160 | Brgy. Kalunasan, Cebu City                             | 10 22 14.28 N | 123 51 31.06 E |
| 161 | Brgy. Kalunasan, Cebu City                             | 10 22 11.33 N | 123 51 31.88 E |
| 162 | Brgy. Kalunasan, Cebu City                             | 10 22 8.96 N  | 123 51 34.47 E |
| 163 | Brgy. Kalunasan, Cebu City                             | 10 22 4.51 N  | 123 51 33.18 E |
| 164 | Brgy. Kalunasan, Cebu City                             | 10 21 59.69 N | 123 51 33.87 E |
| 165 | Brgy. Kalunasan, Cebu City                             | 10 21 59.93 N | 123 51 35.64 E |
| 166 | Brgy. Kalunasan, Cebu City                             | 10 22 0.01 N  | 123 51 37.87 E |
| 167 | Brgy. Kalunasan, Cebu City                             | 10 22 1.74 N  | 123 51 46.33 E |
| 168 | Brgy. Kalunasan, Cebu City                             | 10 22 2.92 N  | 123 51 47.61 E |
| 169 | Brgy. Kalunasan, Cebu City                             | 10 22 4.06 N  | 123 51 48.35 E |
| 170 | Brgy. Kalunasan, Cebu City                             | 10 22 4.88 N  | 123 51 50.25 E |
| 171 | Brgy. Kalunasan, Cebu City                             | 10 22 4.42 N  | 123 51 51.03 E |
| 172 | Brgy. Kalunasan, Cebu City                             | 10 22 3.77 N  | 123 51 50.04 E |
| 173 | Brgy. Kalunasan, Cebu City                             | 10 22 2.14 N  | 123 51 49.42 E |
| 174 | Brgy. Kalunasan, Cebu City                             | 10 21 58.63 N | 123 51 49.82 E |
| 175 | Brgy. Kalunasan, Cebu City                             | 10 21 58.45 N | 123 51 56.09 E |
| 176 | Brgy. Kalunasan, Cebu City                             | 10 21 57.95 N | 123 51 58.48 E |
| 177 | Brgy. Kalunasan, Cebu City                             | 10 21 53.87 N | 123 51 59.54 E |
| 178 | Brgy. Kalunasan, Cebu City                             | 10 21 54.55 N | 123 52 3.00 E  |
| 179 | Brgy. Kalunasan, Cebu City                             | 10 21 54.63 N | 123 52 5.48 E  |
| 180 | Brgy. Kalunasan, Cebu City                             | 10 21 54.42 N | 123 52 6.88 E  |
| 181 | Brgy. Kalunasan, Cebu City                             | 10 22 3.27 N  | 123 52 9.87 E  |
| 182 | Brgy. Busay, Cebu City                                 | 10 22 6.25 N  | 123 52 10.09 E |
| 183 | Brgy. Busay, Cebu City                                 | 10 22 6.29 N  | 123 52 11.20 E |
| 184 | Brgy. Busay, Cebu City                                 | 10 22 7.43 N  | 123 52 13.59 E |
| 185 | Brgy. Busay, Cebu City                                 | 10 22 8.02 N  | 123 52 18.71 E |
| 186 | Brgy. Busay, Cebu City                                 | 10 22 14.92 N | 123 52 18.81 E |
| 187 | Brgy. Busay, Cebu City                                 | 10 22 16.58 N | 123 52 19.62 E |

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| 188 | Brgy. Busay, Cebu City   | 10 22 17.23 N | 123 52 20.66 E |
| 189 | Brgy. Busay, Cebu City   | 10 22 21.44 N | 123 52 25.32 E |
| 190 | Brgy. Busay, Cebu City   | 10 22 20.70 N | 123 52 26.54 E |
| 191 | Brgy. Busay, Cebu City   | 10 22 19.26 N | 123 52 25.93 E |
| 192 | Brgy. Busay, Cebu City   | 10 22 17.05 N | 123 52 24.34 E |
| 193 | Brgy. Busay, Cebu City   | 10 22 15.86 N | 123 52 24.33 E |
| 194 | Brgy. Busay, Cebu City   | 10 22 14.64 N | 123 52 25.22 E |
| 195 | Brgy. Busay, Cebu City   | 10 22 11.79 N | 123 52 26.88 E |
| 196 | Brgy. Busay, Cebu City   | 10 22 9.64 N  | 123 52 27.17 E |
| 197 | Brgy. Busay, Cebu City   | 10 22 8.17 N  | 123 52 28.37 E |
| 198 | Brgy. Busay, Cebu City   | 10 22 7.71 N  | 123 52 29.42 E |
| 199 | Brgy. Busay, Cebu City   | 10 22 7.29 N  | 123 52 38.19 E |
| 200 | Brgy. Busay, Cebu City   | 10 22 5.98 N  | 123 52 39.83 E |
| 201 | Brgy. Busay, Cebu City   | 10 22 3.62 N  | 123 52 41.75 E |
| 202 | Brgy. Busay, Cebu City   | 10 22 3.57 N  | 123 52 43.67 E |
| 203 | Brgy. Busay, Cebu City   | 10 21 58.81 N | 123 52 46.87 E |
| 204 | Brgy. Busay, Cebu City   | 10 21 57.09 N | 123 52 49.06 E |
| 205 | Brgy. Busay, Cebu City   | 10 21 54.10 N | 123 52 50.53 E |
| 206 | Brgy. Busay, Cebu City   | 10 21 52.45 N | 123 52 49.55 E |
| 207 | Brgy. Busay, Cebu City   | 10 21 51.53 N | 123 52 47.86 E |
| 208 | Brgy. Busay, Cebu City   | 10 21 50.34 N | 123 52 48.81 E |
| 209 | Brgy. Busay, Cebu City   | 10 21 49.52 N | 123 52 50.83 E |
| 210 | Brgy. Busay, Cebu City   | 10 21 47.92 N | 123 52 59.81 E |
| 211 | Brgy. Busay, Cebu City   | 10 21 46.37 N | 123 53 1.68 E  |
| 212 | Brgy. Busay, Cebu City   | 10 21 47.03 N | 123 53 4.09 E  |
| 213 | Brgy. Busay, Cebu City   | 10 21 47.50 N | 123 53 11.23 E |
| 214 | Boundary of Brgy. Busay , Cebu City and Brgy. Budlaan, Cebu City   | 10 21 49.29 N | 123 53 15.02 E |
| 215 | Brgy. Budlaan, Cebu City   | 10 21 48.54 N | 123 53 16.44 E |
| 216 | Brgy. Budlaan, Cebu City   | 10 21 52.90 N | 123 53 35.63 E |
| 217 | Brgy. Budlaan, Cebu City   | 10 21 51.12 N | 123 53 36.58 E |
| 218 | Brgy. Budlaan, Cebu City   | 10 21 48.96 N | 123 53 35.24 E |
| 219 | Boundary of Brgy. Budlaan, Cebu City and Brgy. Talamban, Cebu City | 10 21 49.51 N | 123 53 38.19 E |
| 220 | Boundary of Brgy. Banilad, Cebu City and Brgy. Talamban, Cebu City | 10 21 45.65 N | 123 53 39.98 E |
| 221 | Brgy. Banilad, Cebu City   | 10 21 39.91 N | 123 53 42.81 E |
| 222 | Brgy. Banilad, Cebu City   | 10 21 36.19 N | 123 53 49.06 E |
| 223 | Brgy. Banilad, Cebu City   | 10 21 35.14 N | 123 53 50.31 E |
| 224 | Brgy. Banilad, Cebu City   | 10 21 33.90 N | 123 53 52.56 E |
| 225 | Brgy. Banilad, Cebu City   | 10 21 29.01 N | 123 53 55.46 E |
| 226 | Brgy. Banilad, Cebu City   | 10 21 27.46 N | 123 54 1.18 E  |
| 227 | Brgy. Banilad, Cebu City   | 10 21 19.35 N | 123 54 1.66 E  |
| 228 | Brgy. Banilad, Cebu City   | 10 21 17.96 N | 123 54 2.71 E  |
| 229 | Brgy. Banilad, Cebu City   | 10 21 16.86 N | 123 54 4.11 E  |
| 230 | Brgy. Banilad, Cebu City   | 10 21 16.40 N | 123 54 6.72 E  |
| 231 | Brgy. Banilad, Cebu City   | 10 21 13.56 N | 123 54 8.77 E  |
| 232 | Brgy. Banilad, Cebu City   | 10 21 6.64 N  | 123 54 15.53 E |
| 233 | Brgy. Banilad, Cebu City   | 10 21 5.48 N  | 123 54 21.40 E |
| 234 | Brgy. Banilad, Cebu City   | 10 21 2.74 N  | 123 54 21.90 E |
| 235 | Brgy. Banilad, Cebu City   | 10 21 1.45 N  | 123 54 21.59 E |
| 236 | Brgy. Banilad, Cebu City   | 10 20 58.67 N | 123 54 20.23 E |

|     |   |               |                |
|-----|---|---------------|----------------|
| 237 | Brgy. Banilad, Cebu City  | 10 20 54.64 N | 123 54 21.37 E |
| 238 | Brgy. Banilad, Cebu City  | 10 20 53.88 N | 123 54 24.94 E |
| 239 | Brgy. Banilad, Cebu City  | 10 20 50.89 N | 123 54 27.09 E |
| 240 | Brgy. Banilad, Cebu City  | 10 20 44.07 N | 123 54 29.48 E |
| 241 | Brgy. Banilad, Cebu City  | 10 20 46.75 N | 123 54 40.22 E |
| 242 | Brgy. Banilad, Mandaue City   | 10 20 43.57 N | 123 54 48.84 E |
| 243 | Brgy. Banilad, Mandaue City   | 10 20 45.08 N | 123 54 52.26 E |
| 244 | Brgy. Banilad, Mandaue City   | 10 20 45.95 N | 123 54 52.87 E |
| 245 | Brgy. Banilad, Mandaue City   | 10 20 53.96 N | 123 54 54.82 E |
| 246 | Brgy. Banilad, Mandaue City   | 10 20 55.21 N | 123 54 55.43 E |
| 247 | Brgy. Banilad, Mandaue City   | 10 20 55.13 N | 123 54 58.43 E |
| 248 | Brgy. Banilad, Mandaue City   | 10 20 54.20 N | 123 55 3.91 E  |
| 249 | Brgy. Banilad, Mandaue City   | 10 20 54.05 N | 123 55 5.21 E  |
| 250 | Brgy. Banilad, Mandaue City   | 10 20 56.98 N | 123 55 14.31 E |
|     | Boundary of Brgy. Banilad,<br>Mandaue City and Brgy.<br>Cabancalan, Mandaue City            |               |                |
| 251 |   | 10 21 4.05 N  | 123 55 25.23 E |
| 252 | Brgy. Cabancalan, Mandaue City  | 10 21 8.87 N  | 123 55 30.08 E |
|     | Boundary of Brgy. Cabancalan,<br>Mandaue City and Brgy.<br>Casuntingan, Mandaue City        |               |                |
| 253 |   | 10 21 1.63 N  | 123 55 35.62 E |
| 254 | Brgy. Casuntingan, Mandaue City   | 10 20 48.77 N | 123 55 43.94 E |
|     | Near the boundary of Brgy.<br>Maguikay, Mandaue City and Brgy.<br>Casuntingan, Mandaue City |               |                |
| 255 |   | 10 20 42.31 N | 123 55 58.73 E |
| 256 | Brgy. Maguikay, Mandaue City  | 10 20 37.46 N | 123 56 5.78 E  |
| 257 | Brgy. Maguikay, Mandaue City  | 10 20 36.47 N | 123 56 8.04 E  |
| 258 | Brgy. Ibabao, Mandaue City  | 10 20 15.98 N | 123 56 25.28 E |
| 259 | Brgy. Ibabao, Mandaue City  | 10 20 16.77 N | 123 56 26.51 E |
| 260 | Brgy. Ibabao, Mandaue City  | 10 20 18.21 N | 123 56 28.47 E |
| 261 | Brgy. Ibabao, Mandaue City  | 10 20 28.05 N | 123 56 41.58 E |
| 262 | Brgy. Ibabao, Mandaue City  | 10 20 31.01 N | 123 56 43.66 E |
|     | Boundary of Brgy. Ibabao,<br>Mandaue City and Brgy. Alang-<br>alang, Mandaue City           |               |                |
| 263 |   | 10 20 32.11 N | 123 56 44.28 E |
| 264 | Brgy. Alang-alang, Mandaue City   | 10 20 32.16 N | 123 56 50.38 E |
| 265 | Brgy. Umapad, Mandaue City  | 10 20 31.55 N | 123 56 51.87 E |
| 266 | Brgy. Umapad, Mandaue City  | 10 20 31.02 N | 123 56 53.21 E |
| 267 | Brgy. Umapad, Mandaue City  | 10 20 30.17 N | 123 56 55.66 E |
| 268 | Brgy. Umapad, Mandaue City  | 10 20 21.79 N | 123 57 18.96 E |
| 269 | Brgy. Umapad, Mandaue City  | 10 20 17.51 N | 123 57 26.70 E |
| 270 | Brgy. Umapad, Mandaue City  | 10 20 15.34 N | 123 57 28.49 E |
| 271 | Brgy. Umapad, Mandaue City  | 10 20 14.42 N | 123 57 29.22 E |
| 272 | Brgy. Umapad, Mandaue City  | 10 20 29.92 N | 123 57 31.34 E |
| 273 | Brgy. Umapad, Mandaue City  | 10 20 29.90 N | 123 57 35.18 E |
| 274 | Brgy. Umapad, Mandaue City  | 10 20 29.86 N | 123 57 36.25 E |
| 275 | Brgy. Umapad, Mandaue City  | 10 20 29.85 N | 123 57 40.62 E |
| 276 | Brgy. Umapad, Mandaue City  | 10 20 29.35 N | 123 57 41.96 E |
| 277 | Brgy. Umapad, Mandaue City  | 10 20 28.97 N | 123 57 43.04 E |
| 278 | Brgy. Umapad, Mandaue City  | 10 20 28.64 N | 123 57 44.18 E |
| 279 | Brgy. Umapad, Mandaue City  | 10 20 28.32 N | 123 57 45.48 E |
| 280 | Brgy. Umapad, Mandaue City  | 10 20 26.13 N | 123 57 47.86 E |
| 282 | Brgy. Umapad, Mandaue City  | 10 20 23.07 N | 123 57 51.10 E |
| 281 | Brgy. Umapad, Mandaue City  | 10 20 17.22 N | 123 57 53.86 E |

|     |                             |               |                |
|-----|-----------------------------|---------------|----------------|
| 283 | Brgy. Umapad, Mandaue City  | 10 20 20.56 N | 123 57 54.82 E |
| 284 | Brgy. Umapad, Mandaue City  | 10 20 24.10 N | 123 57 58.02 E |
| 285 | Brgy. Umapad, Mandaue City  | 10 20 22.79 N | 123 57 57.13 E |
| 286 | Brgy. Umapad, Mandaue City  | 10 20 21.56 N | 123 57 56.41 E |
| 287 | Brgy. Umapad, Mandaue City  | 10 20 19.24 N | 123 57 56.10 E |
| 288 | Brgy. Umapad, Mandaue City  | 10 20 17.75 N | 123 57 56.80 E |
| 289 | Brgy. Umapad, Mandaue City  | 10 20 15.51 N | 123 57 57.95 E |
| 290 | Brgy. Umapad, Mandaue City  | 10 20 13.34 N | 123 57 59.06 E |
| 291 | Brgy. Paknaan, Mandaue City | 10 20 10.75 N | 123 58 0.35 E  |
| 292 | Brgy. Paknaan, Mandaue City | 10 20 8.86 N  | 123 58 1.22 E  |
| 293 | Brgy. Paknaan, Mandaue City | 10 20 6.70 N  | 123 58 2.34 E  |
| 294 | Brgy. Paknaan, Mandaue City | 10 20 4.46 N  | 123 58 3.46 E  |
| 295 | Brgy. Paknaan, Mandaue City | 10 20 24.39 N | 123 57 49.61 E |
| 296 | Brgy. Paknaan, Mandaue City | 10 20 21.45 N | 123 57 53.00 E |

**Section 3. Political/Administrative Jurisdiction.** The political/administrative jurisdiction of the Butuanon River Watershed Water Quality Management Area encompasses the following areas in Cebu City, Mandaue City and the Municipality of Consolacion, Cebu.

| Province | City/Municipality | Barangay    |
|----------|-------------------|-------------|
| Cebu     | Mandaue City      | Banilad     |
|          |                   | Cabancalan  |
|          |                   | Tawason     |
|          |                   | Tingub      |
|          |                   | Casuntingan |
|          |                   | Tabok       |
|          |                   | Canduman    |
|          |                   | Tabok       |
|          |                   | Maguikay    |
|          |                   | Labogon     |
|          |                   | Alang-alang |
|          |                   | Paknaan     |
|          |                   | Umapad      |
|          |                   | Ibabao      |
|          |                   | Cebu City   |
|          | Agsungot          |             |
|          | Guba              |             |
|          | Binaliw           |             |
|          | Sirao             |             |
|          | Pit-os            |             |
|          | Malubog           |             |
|          | Pung-ol Sibugay   |             |
|          | Pulangbato        |             |
|          | Budlaan           |             |
|          | Bacayan           |             |
|          | San Jose          |             |
|          | Kalunasan         |             |
| Talamban |                   |             |

|  |             |         |
|--|-------------|---------|
|  |             | Babag   |
|  |             | Busay   |
|  |             | Banilad |
|  | Consolacion | Lanipga |
|  |             | Panas   |

**Section 4. Creation of the WQMA Governing Board.** A WQMA Governing Board to be chaired by the Regional Director of the Environmental Management Bureau, Region VII, is hereby created and shall have the following members:

- a) Representative from the National Water Resources Board (NWRB)
- b) Representative from the Office of the Governor, Province of Cebu
- c) Representative from the Regional Development Council, Region VII
- d) Representative from the Office of the Mayor of the following cities/municipality:
  - 1) Cebu City;
  - 2) Mandaue City; and
  - 3) Municipality of Consolacion
- e) Representative from the following government offices in Region VII:
  - 1) Department of Agriculture;
  - 2) Department of Public Works and Highways;
  - 3) Department of Health;
  - 4) Department of Education;
  - 5) Department of Social Welfare and Development;
  - 6) Commission on Higher Education;
  - 7) Department of Science and Technology;
  - 8) Department of Trade and Industry;
  - 9) National Irrigation Administration;
  - 10) National Economic and Development Authority;
  - 11) Bureau of Fisheries and Aquatic Resources;
  - 12) Housing and Land Use Regulatory Board; and
  - 13) Department of the Interior and Local Government;
- f) Representative from the following sectors:
  - 1) Cebu Chamber of Commerce, Inc.;
  - 2) Mandaue Chamber of Commerce, Inc.;
  - 3) Metro Cebu Water District;
  - 4) Cebu Uniting for Sustainable Waters;
  - 5) Pollution Control Association of the Philippines, Inc. VII;
  - 6) University of Cebu;
  - 7) Sacred Heart School-Ateneo de Cebu; and
  - 8) Association of Barangay Captains;
- g) Representative from the Fisheries and Aquatic Resources Management Council/s.

The Board may also invite representatives from the Philippine Coast Guard, the Philippine National Police and other agencies/institutions to participate in the deliberations of the Board as needed.

The terms, vacancy and compensation of expenses of the Governing Board shall be governed by DAO 2005-10. The Local Chief Executives and Head of Office may appoint/authorize representatives to the Board, provided that he/she shall be able to make commitments. Provided, further, that the LGU representative in another WQMA shall also serve as its representative in the Butuanon River Watershed WQMA.

**Section 5. Functions of the Governing Board.** The Governing Board shall have the following functions:

- a) Formulate the Governing Rules that will ensure management effectiveness of the WQMA Governing Board;
- b) Elect other officers and create working committees within the Board that are deemed necessary for the effective implementation of WQMA policies, programs, and activities; and
- c) Review and adopt the WQMA Action Plan drafted by the EMB Region VII in accordance to the Integrated Water Quality Management Framework and prepare a common and integrated compliance scheme. Thereafter, prepare the succeeding action plans for the submission to the DENR;
- d) Together with EMB Region VII, assist the Local Government Units in preparing the LGU Compliance Scheme to implement the WQMA Action Plan and drafting local legislation to protect Butuanon River Watershed and promote overall environmental improvement in the WQMA area;
- e) Monitor and facilitate the compliance with the WQMA Action Plan by the local governments;
- f) Formulate strategies to harmonize policies/regulations/local legislation necessary for the effective implementation of R.A. 9275 in accordance with those established in the Integrated Water Quality Management Framework;
- g) Coordinate relevant activities among its members and the member agencies and facilitate resolution of conflicts;
- h) Undertake complementary interventions for non-point sources of pollution, considering their greater contribution to pollution;
- i) Undertake projects that will complement national and local initiatives for water pollution control;
- j) Solicit support, financial, and non-financial, from other parties, both local and international, subject to existing applicable regulations;
- k) Initiate and/or coordinate information dissemination activities pertaining to Butuanon River Watershed WQMA;
- l) Prepare and publish on a regular basis, a Water Quality Status Report for the WQMA and submit a copy thereof to the EMB Region VII and to the EMB Central Office to be consolidated into the National Water Quality Status Report;
- m) Manage efficiently and judiciously the Area Water Quality Management Fund.

**Section 6. Governing Rules.** The Governing Board shall formulate its own Governing Rules based on applicable and pertinent laws, policies, rules and regulations. Based on its Governing Rules, the Governing Board may elect at least one Co-chair, create standing committees as may be necessary to carry out the Board's functions, and designate their respective chairs.

**Section 7. Meetings.** The Governing Board shall meet quarterly or as often as may be required pursuant to its Governing Rules.

**Section 8. Technical Working Group and Technical Secretariat.** The Governing Board, pursuant to DENR Administrative Order No. 2005-10 and under the governing rules shall form a Technical Working Group (TWG) or Committees to ensure broad-based participation of all the stakeholders in the work of the Governing Board.

The Governing Board shall likewise organize a Technical Secretariat of the WQMA, which shall be based at the EMB Region VII.

**Section 9. Multi-Sectoral Group.** In accordance with DENR Administrative Order No. 2005-10, the Governing Board shall create a Multi-Sectoral group for water quality monitoring and surveillance network, composed of representatives nominated by the members of the Governing Board. Said group shall augment and complement monitoring and reporting efforts of the DENR/EMB.

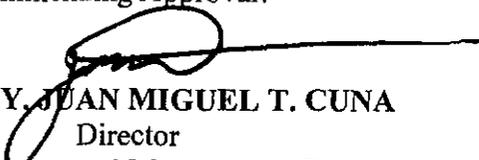
**Section 10. Re-designation of WQMA.** When necessary, and only after undertaking necessary studies and conducting consultations with relevant local government authorities, the Secretary of the DENR, upon recommendation of the EMB, shall revise the designation of WQMA, re-adjust its boundaries or reconstitute its membership for adequate representation.

**Section 11. Amendments and Revisions.** Amendments or revisions of any of the provisions hereof shall be made only upon consultations with the concerned stakeholders in accordance with existing policies on the matter and subject to the written approval of all the parties thereto.

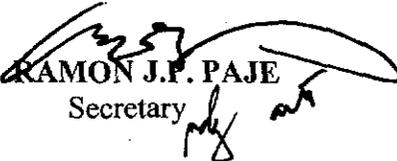
**Section 12. Separability Clause.** Should any of the provisions of this Order be subsequently declared invalid or null and void, the validity of the other provisions not affected shall not be impaired and shall remain to be in full force and effect.

**Section 13. Effectivity.** This Order shall take effect fifteen (15) days after its publication in a newspaper of general circulation and its registration with the Office of the National Administrative Registry (ONAR).

Recommending Approval:

  
**ATTY. JUAN MIGUEL T. CUNA**  
Director  
Environmental Management Bureau

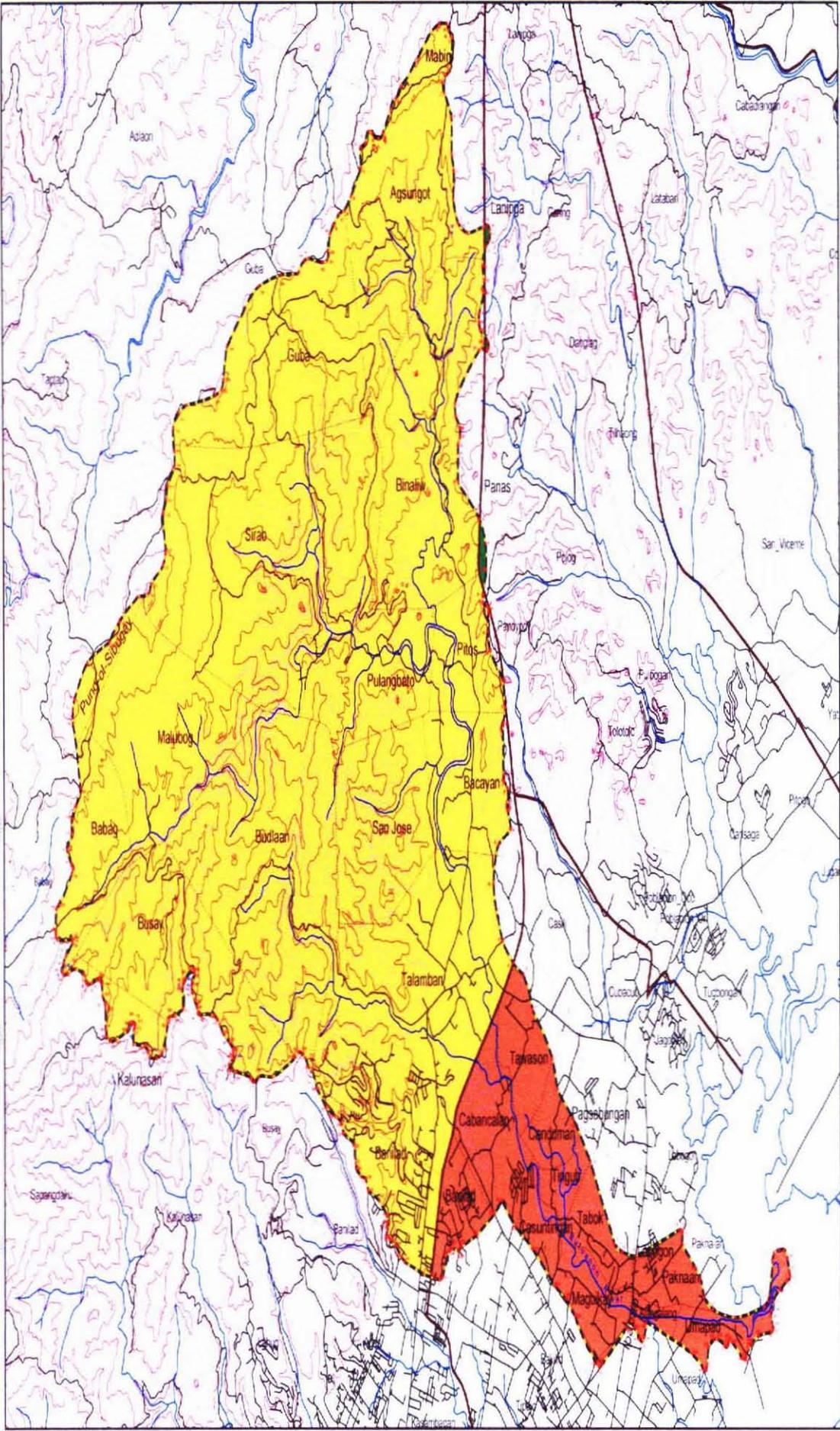
Publication: Malaya  
June 04, 2014  
Acknowledgement: ONAR, UP Law Center  
June 05, 2014

  
**RAMON J.F. PAJE**  
Secretary



# Annex A

## Butuanon Watershed Water Quality Management Area



Legend

- Watersheds
- ▭ Education Watershed Boundaries
- River/Stream
- Sample Boundaries
- Municipal Boundary
- Road
- 20m contour interval
- 100m contour interval
- ▭ Municipality of Consolacion
- ▭ Butuanon City
- ▭ Municipality of Butuanon

