



Ione WWTP Master Plan EIR

Draft

August 2009

Prepared for:

City of Ione
1 East Main Street
Ione, California 95640

Prepared by:

MHA/RMT
4 West Fourth Avenue, Suite 303
San Mateo, California 94402

Ione WWTP Master Plan EIR

Draft

August 2009

Prepared for:

City of Ione
1 East Main Street
Ione, California 95640

Prepared by:

MHA/RMT
4 West Fourth Avenue, Suite 303
San Mateo, California 94402

TABLE OF CONTENTS

Executive Summary ES-1

 ES.1 Introduction..... ES-1

 ES.2 Summary of Potential Impacts ES-5

1: Introduction 1-1

 1.0 Introduction..... 1-1

 1.1 EIR Process 1-1

 1.2 Key Areas of Environmental Concern 1-3

 1.3 Organization of the EIR 1-3

 1.4 Incorporated References 1-4

2: Project Description 2-1

 2.0 Introduction..... 2-1

 2.1 Project Objectives..... 2-1

 2.2 Project Location..... 2-2

 2.3 Project Background 2-3

 2.4 Project Description 2-8

 2.5 Permits and Approvals 2-42

3: Environmental Impact Analysis 3.0-1

 3.0 Introduction..... 3.0-1

 3.1 Hydrology and Water Quality 3.1-1

 3.2 Biological Resources 3.2-1

 3.3 Geology and Soils 3.3-1

 3.4 Air Quality..... 3.4-1

 3.5 Aesthetics..... 3.5-1

 3.6 Land Use, Planning, and Recreation 3.6-1

 3.7 Transportation and Traffic..... 3.7-1

 3.8 Cultural Resources 3.8-1

 3.9 Hazards and Hazardous Materials..... 3.9-1

 3.10 Noise 3.10-1

 3.11 Population and Housing..... 3.11-1

 3.12 Public Services and Utilities..... 3.12-1

TABLE OF CONTENTS

3.13	Greenhouse Gases.....	3.13-1
3.14	Agriculture	3.14-1
4:	Cumulative and Growth-Inducing Impacts	4-1
4.0	Introduction.....	4-1
4.1	Relevant Projects.....	4-1
4.2	Cumulative Impacts	4-5
4.3	Significant, Unavoidable Effects.....	4-12
4.4	Significant, Irreversible Environmental Changes	4-12
4.5	Growth-Inducing Impacts	4-13
5:	Alternatives to the Project	5-1
5.0	Introduction.....	5-1
5.1	Alternatives Considered but Rejected	5-2
5.2	Considered Alternatives	5-4
5.3	Environmentally Superior Alternative	5-5
6:	Report Preparation	6-1
6.0	List of Preparers	6-1
6.1	Agencies and Persons Contacted	6-2
7:	References	7-1

APPENDICES

- Appendix A: Notice of Preparation**
- Appendix B: Public Comments Received on the Notice of Preparation**
- Appendix C: Existing Facilities and Projected Growth**
- Appendix D: Hydrology Report**
- Appendix E: Air Emission Calculations**
- Appendix F: Historic Property Survey Report**
- Appendix G: Legend For Figure 3.3-3, Soil Map and Project Components**

LIST OF TABLES

Table ES.1-1:	Summary of Project Parts and Elements.....	ES-2
Table ES.1-2:	Permits or Approvals that may be Required for the Proposed Project	ES-4

Table ES.2-1:	Potential Project-Level Impacts and Mitigation.....	ES-12
Table 2.4-1:	Summary of Project Parts and Elements.....	2-9
Table 2.4-2:	Pond Disposal Capacities with the Addition of Pond 8	2-29
Table 2.4-3:	Pond Disposal Capacities with the Addition of Pond 9	2-30
Table 2.5-1:	Permits or Approvals that may be Required for the Proposed Project.....	2-42
Table 3.1-1:	Castle Oaks Golf Course Monitoring Well Water Quality Data – Average Concentrations.....	3.1-19
Table 3.1-2:	Mule Creek State Prison Monitoring Wells - Water Quality Data – Concentrations Ranges	3.1-22
Table 3.1-3:	Total Dissolved Solids Concentrations in Sutter Creek and in Wells South of Sutter Creek on March 11, 2009	3.1-22
Table 3.1-4:	Basin Plan Water Quality Objectives to Protect Beneficial Uses	3.1-24
Table 3.2-1:	Sensitive Plant Species and Potential for Occurrence in the Project Area	3.2-11
Table 3.2-2:	Special Status Wildlife Species Potential for Occurrence in the Project Area	3.2-14
Table 3.3-1:	Faults in the Vicinity of the Project Area.....	3.3-3
Table 3.4-1:	National and State Air Quality Designations for Amador County	3.4-2
Table 3.4-2:	Ambient Air Quality Standards	3.4-3
Table 3.4-3:	Applicable ACAPCD Permit, Prohibitory, and Fugitive PM10 Rules	3.4-6
Table 3.4-4:	Construction-Related Emissions (Existing and Phase One Elements)	3.4-9
Table 3.4-5:	Construction-Related Emissions (Phase Two Expansion Elements).....	3.4-9
Table 3.4-6:	Transportation-Related Emissions (Construction Employee Commute)	3.4-9
Table 3.4-7:	Emissions from Operation of Treatment Plant.....	3.4-11
Table 3.7-1:	ADT Counts for the Local Streets in Project Area Vicinity	3.7-4
Table 3.7-2:	Level of Service Description: Unsignalized Intersection Level of Service	3.7-5
Table 3.7-3:	Worst Case Scenario Construction and Truck Traffic for Parts I and II (Project-Level Elements).....	3.7-11
Table 3.9-1:	GeoTracker Results for Open Cases in Ione, Amador County, California	3.9-2
Table 3.9-2:	Hazardous Materials Stored at the Secondary and Tertiary WWTPs	3.9-4
Table 3.10-1:	Definition of Acoustical Terms.....	3.10-2
Table 3.10-2:	ADT Counts for the Local Streets in Project Area Vicinity	3.10-3
Table 3.10-3:	Sensitive Receptors Distances from the Project Area	3.10-3
Table 3.10-4:	Noise Levels from Construction Equipment	3.10-9

Table 3.11-1: Population of Incorporated Cities in Amador County 3.11-1

Table 3.11-2: Time and Staffing Required for Construction of Phase One
Project Elements 3.11-3

Table 3.13-1: Annual GHG Emissions from Operation of Wastewater Treatment Plant..... 3.13-5

LIST OF FIGURES

Figure 1.1-1: Proposed Project Location 1-2

Figure 2.3-1: City of Lone Wastewater Service Area 2-4

Figure 2.3-2: Existing Wastewater Treatment Flow Chart..... 2-5

Figure 2.3-3: Existing City of Lone Wastewater Treatment and Disposal Facilities 2-6

Figure 2.4-1: Proposed and Future Potential Wastewater Treatment Flow Chart 2-11

Figure 2.4-2: Proposed and Future Potential City of Lone Wastewater Treatment and
Disposal Facilities 2-12

Figure 2.4-3: Part I – Treatment Project Elements..... 2-15

Figure 2.4-4: Proposed and Existing Tertiary Plant Elements..... 2-24

Figure 2.4-5: Part II – Disposal Project Elements 2-28

Figure 2.4-6: Potential Pipeline Route #1 2-32

Figure 2.4-7: Potential Pipeline Route #2 2-33

Figure 2.4-8: Potential Pipeline Route #3 2-34

Figure 2.4-9: Potential Pipeline Route #4 2-35

Figure 2.4-10: Potential Pipeline Route #5 2-36

Figure 2.4-11: Potential Pipeline Route #6 2-37

Figure 2.4-12: Part III – Storage Project Elements 2-41

Figure 3.1-1: Regional Watershed Map 3.1-2

Figure 3.1-2: Annual Flow Pattern Typical of Sutter Creek 3.1-4

Figure 3.1-3: Aerial Photograph with Castle Oaks WWTP and Castle Oaks Golf Course 3.1-6

Figure 3.1-4: Proposed and Future Potential Facilities and 100 Year Floodplain..... 3.1-7

Figure 3.1-5: Well and Piezometer Locations 3.1-9

Figure 3.1-6: Specific Conductance Transect for Sutter Creek 3.1-14

Figure 3.1-7: Inferred Groundwater Level Map 3.1-17

Figure 3.2-1: Vegetation Communities 3.2-2

Figure 3.2-2: Wetland/Waters Impacts 3.2-6

Figure 3.2-3: CNDDDB Occurrences of Special-Status Species..... 3.2-8

Figure 3.2-4: Approximate Elderberry Locations 3.2-18

Figure 3.3-1: Proposed and Future Potential Facilities and Regional Topography 3.3-2

Figure 3.3-2: Geology of the Project Area Region..... 3.3-4

Figure 3.3-3: Soil Map and Project Components..... 3.3-7

Figure 3.6-1: Amador County General Plan Land Use Designations – January 2008..... 3.6-2

Figure 3.6-2: City of Ione General Plan Land Use Designations 3.6-4

Figure 3.7-1: Highways and Roads in the Project Area 3.7-2

Figure 3.10-1: Sensitive Receptors in the Project Area Vicinity..... 3.10-5

Figure 3.12-1: Water Service Areas in Amador County..... 3.12-5

Figure 3.12-2: Wastewater Systems in Amador County 3.12-7

Figure 3.14-1: Farmland Designations in the Project Area 3.14-3

Figure 3.14-2: Williamson Act Designations in the Project Area..... 3.14-6

Figure 4.1-1: Relevant Projects in the Project Area..... 4-2

This page is intentionally left blank