

FINAL ENVIRONMENTAL IMPACT REPORT

**Wind Energy Ordinance Amendment POD 10-007
SCH No. 2010091030**

Lead Agency:

**County of San Diego
Planning & Development Services
5510 Overland Ave, Suite 310
San Diego, CA 92123**

**Contact: Matthew Schneider, Project Manager
Phone No. 858-694-3714**

Preparer:

**Dudek
605 Third Street
Encinitas, CA 92024**

January 2013

**This Environmental Impact Report was certified by the
County Board of Supervisors on May 15, 2013**



MARK WARDLAW , Director

County of San Diego, Planning & Development Services

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
S.0 SUMMARY	S-1
S.1 Overview	S-1
S.2 Project Synopsis	S-1
S.2.1 Project Description	S-1
S.2.2 Project Objectives	S-2
S.2.3 Project Location	S-2
S.2.4 Environmental Setting	S-3
S.3 Summary of Significant Effects and Mitigation Measures that Reduce or Avoid the Significant Effects	S-4
S.4 Areas of Controversy	S-4
S.5 Issues to be Resolved by the Decision-Making Body	S-4
S.6 Project Alternatives	S-6
S.6.1 Limited Small Wind Turbine Alternative	S-6
S.6.2 Limited Large Wind Turbine Alternative	S-6
S.6.3 No Project (No Amendment) Alternative	S-7
S.6.4 Environmentally Superior Alternative	S-7
1.0 PROJECT DESCRIPTION, LOCATION, AND ENVIRONMENTAL SETTING ...	1-1
1.1 Project Objectives	1-1
1.2 Project Location	1-1
1.3 Environmental Setting	1-2
1.4 Project Description	1-2
1.4.1 Project's Components	1-5
1.4.2 CEQA Assumptions	1-8
1.4.3 Technical, Economic, and Environmental Characteristics	1-10
1.5 Intended Uses of the Environmental Impact Report	1-13
1.5.1 Project Approvals/Permits	1-14
1.5.2 Related Environmental Review and Consultation Requirements	1-15
1.6 Project Inconsistencies with Applicable Regional and General Plans	1-15
1.7 List of Past, Present, and Reasonably Anticipated Future Projects in the Project Area	1-15
1.8 Growth-Inducing Effects	1-16
2.0 ENVIRONMENTAL EFFECTS OF THE PROPOSED PROJECT	2-1
2.1 Aesthetics and Visual Quality	2-1-1
2.1.1 Existing Conditions	2-1-1
2.1.2 Regulatory Setting	2-1-4

TABLE OF CONTENTS (Continued)

<u>SECTION</u>	<u>PAGE</u>
2.1.3 Analysis of Project Effects and Determination of Significance	2.1-7
2.1.4 Cumulative Impact Analysis.....	2.1-16
2.1.5 Significance of Impacts Prior to Mitigation.....	2.1-19
2.1.6 Mitigation Measures	2.1-19
2.1.7 Conclusion	2.1-24
2.2 Agriculture and Forest Resources	2.2-1
2.2.1 Existing Conditions.....	2.2-1
2.2.2 Regulatory Setting	2.2-5
2.2.3 Analysis of Project Effects and Determination as to Significance	2.2-8
2.2.4 Cumulative Impact Analysis.....	2.2-16
2.2.5 Significance of Impacts Prior to Mitigation.....	2.2-20
2.2.6 Mitigation Measures	2.2-20
2.2.7 Conclusion	2.2-24
2.3 Air Quality	2.3-1
2.3.1 Existing Conditions.....	2.3-1
2.3.2 Regulatory Setting	2.3-4
2.3.3 Analysis of Project Effects and Determination of Significance	2.3-7
2.3.4 Cumulative Impact Analysis.....	2.3-17
2.3.5 Significance of Impacts Prior to Mitigation.....	2.3-23
2.3.6 Mitigation.....	2.3-23
2.3.7 Conclusion	2.3-25
2.4 Biological Resources	2.4-1
2.4.1 Existing Conditions.....	2.4-1
2.4.2 Regulatory Setting	2.4-17
2.4.3 Analysis of Project Effects and Determination as to Significance	2.4-26
2.4.4 Cumulative Impact Analysis.....	2.4-39
2.4.5 Significance of Impacts Prior to Mitigation.....	2.4-43
2.4.6 Mitigation Measures	2.4-44
2.4.7 Conclusion	2.4-47
2.5 Cultural and Paleontological Resources	2.5-1
2.5.1 Existing Conditions.....	2.5-1
2.5.2 Regulatory Setting	2.5-5
2.5.3 Analysis of Project Effects and Determination as to Significance	2.5-11
2.5.4 Cumulative Impact Analysis.....	2.5-19
2.5.5 Significance of Impacts Prior to Mitigation.....	2.5-24

TABLE OF CONTENTS (Continued)

<u>SECTION</u>	<u>PAGE</u>
2.5.6 Mitigation Measures	2.5-24
2.5.7 Conclusion	2.5-27
2.6 Hazards and Hazardous Materials	2.6-1
2.6.1 Existing Conditions	2.6-1
2.6.2 Regulatory Setting	2.6-18
2.6.3 Analysis of Project Effects and Determination as to Significance	2.6-28
2.6.4 Cumulative Impact Analysis	2.6-43
2.6.5 Significance of Impacts Prior to Mitigation.....	2.6-49
2.6.6 Mitigation Measures	2.6-50
2.6.7 Other Field-Related Public Concerns or Hazards	2.6-51
2.6.8 Conclusion	2.6-54
2.7 Land Use and Planning	2.7-1
2.7.1 Existing Conditions	2.7-1
2.7.2 Regulatory Setting	2.7-2
2.7.3 Analysis of Project Effects and Determination of Significance	2.7-11
2.7.4 Cumulative Impact Analysis	2.7-16
2.7.5 Significance of Impacts Prior to Mitigation.....	2.7-18
2.7.6 Mitigation Measures	2.7-18
2.7.7 Conclusion	2.7-19
2.8 Noise	2.8-1
2.8.1 Existing Conditions	2.8-1
2.8.2 Regulatory Setting	2.8-6
2.8.3 Analysis of Project Effects and Determination of Significance	2.8-10
2.8.4 Cumulative Impact Analysis	2.8-22
2.8.5 Significance of Impacts Prior to Mitigation.....	2.8-27
2.8.6 Mitigation Measures	2.8-27
2.8.7 Conclusion	2.8-29
2.9 Transportation and Traffic	2.9-1
2.9.1 Existing Conditions	2.9-1
2.9.2 Regulatory Setting	2.9-3
2.9.3 Analysis of Project Effects and Determination of Significance	2.9-7
2.9.4 Cumulative Impact Analysis	2.9-16
2.9.5 Significance of Impacts Prior to Mitigation.....	2.9-20
2.9.6 Mitigation Measures	2.9-20
2.9.7 Conclusion	2.9-22

TABLE OF CONTENTS (Continued)

<u>SECTION</u>	<u>PAGE</u>
2.10 Significant Irreversible Environmental Changes Resultant from Project Implementation.....	2.10-1
2.10.1 Irreversible Environmental Changes.....	2.10-1
2.10.2 Potential Environmental Damage from Accidents	2.10-2
2.10.3 Irreversible Commitment of Resources	2.10-2
3.0 ENVIRONMENTAL EFFECTS FOUND NOT TO BE SIGNIFICANT	3-1
3.1 Effects Found Not Significant as Part of the EIR Process.....	3.1-1
3.1.1 Greenhouse Gas Emissions.....	3.1.1-1
3.1.2 Hydrology and Water Quality.....	3.1.2-1
3.2 Effects Found Not Significant During Initial Study	3.2-1
3.2.1 Geology and Soils.....	3.2.1-1
3.2.2 Mineral Resources	3.2.2-1
3.2.3 Population and Housing.....	3.2.3-1
3.2.4 Public Services.....	3.2.4-1
3.2.5 Recreation	3.2.5-1
3.2.6 Utilities and Service Systems.....	3.2.6-1
4.0 PROJECT ALTERNATIVES	4-1
4.1 Rationale for Alternative Selection.....	4-1
4.2 Alternatives Considered but Rejected.....	4-2
4.3 Analysis of the Limited Small Wind Turbine/MET Facility Alternative	4-5
4.3.1 Limited Small Wind Turbine Alternative Description and Setting	4-5
4.3.2 Comparison of the Effects of the Limited Small Wind Turbine Alternative to the Proposed Project.....	4-6
4.4 Analysis of the Limited Large Wind Turbine/MET Facility Alternative	4-13
4.4.1 Limited Large Wind Turbine Alternative Description and Setting	4-13
4.4.2 Comparison of the Effects of the Limited Large Wind Turbine Alternative to the Proposed Project.....	4-14
4.5 Analysis of the No Project Alternative	4-23
4.5.1 No Project Alternative Description and Setting.....	4-23
4.5.2 Comparison of the Effects of the No Project Alternative to the Proposed Project	4-24
4.6 Environmentally Superior Project.....	4-27

TABLE OF CONTENTS (Continued)

<u>SECTION</u>	<u>PAGE</u>
5.0 LIST OF REFERENCES.....	5-1
Chapter S.0 Summary	5-1
Chapter 1.0 Project Description	5-1
Chapter 2.0 Significant Environmental Effects of the Proposed Project	5-2
2.1 Aesthetics	5-2
2.2 Agriculture and Forest Resources	5-2
2.3 Air Quality.....	5-3
2.4 Biological Resources.....	5-4
2.5 Cultural and Paleontological Resources.....	5-8
2.6 Hazards and Hazardous Materials.....	5-9
2.7 Land Use and Planning.....	5-10
2.8 Noise.....	5-10
2.9 Transportation/Traffic	5-12
2.10 Significant Irreversible Environmental Changes Resultant from Project Implementation.....	5-12
Chapter 3.0 Environmental Effects Found Not to be Significant	5-13
3.1 Effects Found Not Significant as Part of the EIR Process	5-13
3.2 Effects Found Not Significant During Initial Study.....	5-16
Chapter 4.0 Project Alternatives	5-17
6.0 LIST OF EIR PREPARERS AND PERSONS AND ORGANIZATIONS CONTACTED.....	6-1
6.1 EIR Preparers	6.1-1
6.1.1 County of San Diego.....	6.1-1
6.1.2 Dudek.....	6.1-1
6.2 Persons and Organizations Contacted.....	6.2-1

APPENDICES

A	Zoning Ordinance Amendments
B	General Plan Amendments
C	Notice of Preparation and Comment Letters
D	Environmental Initial Study
E	Response to Comments
F	Summary of Changes

TABLE OF CONTENTS (Continued)

PAGE

LIST OF FIGURES

1-1	Regional Map.....	1-29
1-2	Vicinity Map.....	1-31
1-3	Small Wind Turbine(s) Project Area	1-33
1-4	Large Wind Turbine Project Area.....	1-35
1-5	Typical Horizontal-Axis and Vertical-Axis Wind Turbine	1-37
1-6	Typical Schematic for a Wind Turbine.....	1-39
1-7a	Photo of Typical Small Wind Turbine – Vertical Axis	1-41
1-7b	Photo of Typical Small Wind Turbine – Vertical Axis	1-43
1-7c	Photo of Typical Small Wind Turbine – Horizontal Axis	1-45
1-7d	Photo of Typical Small Wind Turbine– Large	1-47
1-8	Typical Wind Turbine Design	1-49
1-9a	Photos of Typical Small Turbine – Supporting Structures	1-51
1-9b	Photo of Typical Small Turbine System – Supporting Structures.....	1-53
1-10a	Development Parameters for Small Wind Turbine.....	1-55
1-10b	Development Parameters for Large Wind Turbine.....	1-57
2.1-1	Regional Trails Map	2.1-27
2.2-1	County Identified Agricultural Lands.....	2.2-27
2.2-2	Williamson Act Contract Lands.....	2.2-29
2.2-3	Farmland, Mapping, and Monitoring Program Lands	2.2-31
2.4-1	Vegetation Communities	2.4-49
2.5-1	Historical Resources	2.5-29
2.7-1	County of San Diego Existing Land Uses Map	2.7-21
2.8-1	Weighting Networks	2.8-37
3.1.2-1	Surface Water.....	3.1.2-39
3.1.2-2	County Floodplains and Floodways.....	3.1.2-41
3.1.2-3	Aquifer Types	3.1.2-43
3.2.1-1	Landslide Susceptibility Areas	3.2.1-5
4-1	Limited Large Wind Turbine Alternative	4.1-31

The maps (figures) contained in this document are covered by the following disclaimer:

This map is provided without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

Copyright SanGIS. All Rights Reserved. This product may contain information from SANDAG Regional Information System which cannot be reproduced without the written permission of SANDAG. This product may contain information which has been reproduced with permission granted by Thomas Brothers Maps.

TABLE OF CONTENTS (Continued)

PAGE

LIST OF TABLES

S-1	Environmental Issue Areas Analyzed in Chapter 2.0	S-8
1-1	Environmental Design Considerations – Small Wind Turbine.....	1-18
1-2	Small Wind Turbine Worst-Case Ground Disturbance per County General Plan Update Land Use Designations	1-19
1-3	Matrix of Potential Approvals/Permits	1-20
1-4a	Private Projects Not Included in the General Plan Update	1-21
1-4b	Proposed Projects on Tribal Lands	1-25
1-4c	Proposed Projects in Mexico	1-26
1-4d	Other Regionally Significant Projects	1-27
2.2-1	Acres of Agricultural Zoned Land and Percentage of the Unincorporated County Land Area.....	2.2-26
2.2-2	Acres of Agricultural Zoned Land and Percentage of Wind Resource Areas	2.2-26
2.3-1	Ambient Air Quality Standards	2.3-27
2.3-2	State and Federal Attainment Designations for San Diego County.....	2.3-29
2.3-3	Screening-Level Criteria for Air Quality Impacts	2.3-29
2.3-4	Summary of Ambient Air Quality Data – San Diego Air Basin 2003–2007.....	2.3-30
2.7-1	San Diego County Land Distribution Totals	2.7-20
2.8-1	Hearing Thresholds in the Infrasonic and Low Frequency Range	2.8-31
2.8-2	Typical A-Weighted Sound Levels Measured in the Environment and Industry	2.8-31
2.8-3	Guideline for Determining the Significance of Groundborne Vibration and Noise Impacts for Special Buildings.....	2.8-32
2.8-4	San Diego County Noise Ordinance Sound Level Limits	2.8-32
2.8-5	San Diego County Code Section 36.404 Sound Level Limits in Decibels (dBA) ..	2.8-33
2.8-6	Guideline for Determining the Significance of Groundborne Vibration and Noise Impacts.....	2.8-34
2.8-7	Typical Construction Equipment Noise Levels	2.8-35
2.9-1	Measure of Significant Project Impacts to Congestion of Road Segments: Allowable Increases on Congested Road Segments	2.9-24
2.9-2	County Criteria for the Need to Prepare a TIS	2.9-24
3.1.1-1	Greenhouse Gas Sources in California	3.1.1-25
3.1.1-2	San Diego County Greenhouse Gas Emissions – 2006	3.1.1-25
3.1.2-1	Hydrologic Units of the San Diego and Colorado River Regions	3.1.2-36
3.1.2-2	State Water Resources Control Board’s List of Beneficial Uses.....	3.1.2-36

INTENTIONALLY LEFT BLANK

LIST OF ACRONYMS AND ABBREVIATIONS

AAQS	ambient air quality standards
AB	Assembly Bill
ABPP	Avian and Bat Protection Plan
ACOE	U.S. Army Corps of Engineers
ADA	Americans with Disabilities Act
ADT	average daily traffic
AEIS	Application for an Environmental Initial Study
AICUZ	Air Installation Compatible Use Zone
ALUCP	Airport Land Use Compatibility Plan
ANSI	American National Standards Institute
APCD	Air Pollution Control District
APN	assessor's parcel number
APZ	Accident Potential Zone
AQS	Air Quality Study
ASBS	Areas of Special Biological Significance
AST	aboveground storage tank
ASTREA	Air Support to Regional Enforcement Agencies
AVWS	audio-visual warning system
AWEA	American Wind Energy Association
BAD	Backcountry Against Dumps
BLM	Bureau of Land Management
BMO	Biological Mitigation Ordinance
BMP	best management practice
BOS	Board of Supervisors
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFÉ	Corporate Average Fuel Economy
Cal EMA	California Emergency Management Agency
Cal NAGPRA	California Native American Graves Protection and Repatriation Act
Cal/EPA	California Environmental Protection Agency
CalARP	California Accidental Release Prevention
Caltrans	California Department of Transportation
CAO	cleanup and abatement order
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CB	Critical Biological

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

CBC	California Building Code
CCA	Climate Change Analysis
CCAA	California Clean Air Act
CCAP	Climate Change Action Plan
CCR	California Code of Regulations
CDFG	California Department of Fish and Game
CDO	cease and desist order
CEC	California Education Code
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act
CEVMS	commercial electronic-variable message sign
CFC	California Fire Code
CFR	Code of Federal Regulations
CH ₄	methane
CHHSL	California Human Health Screening Level
CIWMB	California Integrated Waste Management Board
CMP	Congestion Management Program
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CNF	Cleveland National Forest
CNPS	California Native Plant Society
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ E	carbon dioxide equivalent
County	County of San Diego
CPA	community planning area
CRHR	California Register of Historical Resources
CSA	County Service Area
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
dB	decibel
dBA	A-weighted decibel scale
dBc	decibels referenced to the carrier
DEH	Department of Environmental Health
DEH HMD	Department of Environmental Health Hazardous Materials Division
DEH-HIRT	Department of Environmental Health, Hazardous Incident Response Team

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

DHS	Department of Health Services
DOD	Department of Defense
DTSC	Department of Toxic Substances Control
EA	Environmental Assessment
ECCAC	East County Community Action Coalition
ECP	Eagle Conservation Plan
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EMF	electric and magnetic field
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning Community Right-to-Know Act
ESA	Endangered Species Act
F	Fahrenheit
FAA	Federal Aviation Administration
FCI	Forest Conservation Initiative
FEMA	Federal Emergency Management Agency
FHSZ	Fire Hazard Severity Zone
FIRM	Federal Insurance Rate Map
FMMP	Farmland Mapping and Monitoring Program
FPD	Fire Protection District
FPP	Fire Protection Plan
FRAP	Fire and Resource Assessment Program
FTA	Federal Transit Administration
FUDS	Formerly Used Defense Site
GHG	greenhouse gas
GIS	geographic information system
GPA	General Plan Amendment
H ₂ O	water vapor
HAP	hazardous air pollutant
HCM	Highway Capacity Manual
HCP	Habitat Conservation Plan
HFC	hydrofluorocarbon
HLP	Habitat Loss Permit
HMBP	Hazardous Materials Business Plan
HMD	Hazardous Materials Division
HR	House Resolution
HVAC	heating, ventilating, and air conditioning

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

Hz	hertz
I	Interstate
IBC	International Building Code
IFC	International Fire Code
IPCC	Intergovernmental Panel on Climate Change
kV/m	kilovolt per meter
kW	kilowatts
kWh	kilowatt-hour
LAFCO	Local Agency Formation Commission
LARA	Local Agricultural Resource Assessment
L _{dn}	day-night average sound level
LEA	Local Enforcement Agency
L _{eq}	equivalent sound level
LESA	Land Evaluation and Site Assessment
LID	low impact development
LOS	Level of Service
LPC	Light Pollution Code
LUFT	leaking underground fuel tank
MACT	Maximum Achievable Control Technology
MBTA	Migratory Bird Treaty Act
MCL	Maximum Contaminant Level
MET	Meteorological Testing
mG	milligauss
MLD	most likely descendant
MMTCO ₂ E	million metric tons of carbon dioxide equivalent
MOU	Memorandum of Understanding
mpg	miles per gallon
MPO	Metropolitan Planning Organization
MRZ	Mineral Resource Zone
MS4	municipal separate storm sewer system
MSCP	Multiple Species Conservation Program
MSR	Municipal Service Review
MTBE	methyl tertiary butyl ether
MW	megawatt
MWh	megawatt-hour
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

NAGPRA	Native American Graves Protection Act
NAHC	Native American Heritage Commission
NCCP	Natural Community Conservation Planning
NDAA	California Natural Disaster Assistance Act
NEPA	National Environmental Policy Act
NESHAPS	National Emissions Standards for Hazardous Air Pollutants
NF ₃	nitrogen trifluoride
NFIP	National Flood Insurance Program
NHTSA	National Highway Traffic Safety Administration
NO	nitric oxide
NO ₂	nitrogen dioxide
NOP	Notice of Preparation
NO _x	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NREL	National Renewable Energy Laboratory
NRHP	National Register of Historic Places
O ₃	ozone
OAEP	Operational Area Emergency Plan
OCAS	Obstacle Collision Avoidance System
ODS	ozone-depleting substance
OES	Office of Emergency Services
OPR	Governor's Office of Planning and Research
OSHA	Occupational Safety and Health Administration
OSM	U.S. Office of Surface Mining Reclamation and Enforcement
PFC	perfluorocarbon
PM ₁₀	particulate matter less than or equal to 10 microns
PM _{2.5}	particulate matter less than or equal to 2.5 microns in size
POC	Protect Our Communities (Foundation)
POD	Policy/Ordinance Development
PPV	peak particle velocity
PRG	Preliminary Remediation Goal
RAQS	Regional Air Quality Strategy
RCA	Resource Conservation Area
RCP	Regional Comprehensive Plan
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

RMP	Risk Management Plan
RMS	root mean square
ROG	reactive organic gas
RPM	revolutions per minute
RPO	Resource Protection Ordinance
RPS	Renewable Portfolio Standard
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SAM	Site Assessment and Mitigation
SANDAG	San Diego Association of Governments
SARA	Superfund Amendments and Reauthorization Act
SB	Senate Bill
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SDCRAA	San Diego County Regional Airport Authority
SDCWA	San Diego County Water Authority
SDG&E	San Diego Gas & Electric
SDRAQS	San Diego Regional Air Quality Strategy
SF	square feet
SF ₆	sulfur hexafluoride
SHPO	State Historic Preservation Officer
SIP	State Implementation Plan
SO ₂	sulfur dioxide
SOI	sphere of influence
SR	State Route
SRA	State Responsibility Area
SUSMP	Standard Urban Stormwater Mitigation Plan
SWIS	Solid Waste Inventory System
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TDA	Transportation Development Act
TDS	total dissolved solids

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

TIS	traffic impact study
TMDL	total maximum daily load
TSDF	treatment, storage, and disposal facility
U.S.C.	United States Code
UDC	Unified Disaster Council
UNEP	United Nations Environment Programme
UNFCCC	United Nations Framework Convention on Climate Change
URBEMIS	Urban Emissions Model
USFWS	U.S. Fish and Wildlife Service
UST	underground storage tank
VMP	vehicle miles traveled
VOC	volatile organic compound
W	Wilderness
WPO	Watershed Protection, Stormwater Management, and Discharge Control Ordinance
WQO	water quality objective
WUI	wildland–urban interface

INTENTIONALLY LEFT BLANK