

**Initial Study and Mitigated Negative Declaration for  
Crown Castle NG West Inc.**

---

**TABLE OF CONTENTS**

<b><u>Section</u></b>	<b><u>Page No.</u></b>
<b><u>PREFACE.....</u></b>	<b><u>P-1</u></b>
<u>Introduction/Overview .....</u>	<u>P-1</u>
<u>Contents of the Final IS/ND .....</u>	<u>P-2</u>
<u>Public Review Process .....</u>	<u>P-3</u>
<b><u>MND.....</u></b>	<b><u>MND-1</u></b>
<b>1 INITIAL STUDY ENVIRONMENTAL CHECKLIST FORM.....</b>	<b>1-1</b>
1.1 Project Title.....	1-1
1.2 Lead Agency Name and Address.....	1-1
1.3 Contact Person and Phone Number .....	1-1
1.4 Project Location .....	1-1
1.5 Project Sponsor’s Name and Address.....	1-1
1.6 General Plan Designation .....	1-2
1.7 Zoning.....	1-2
1.8 Description of Project .....	1-2
1.9 Surrounding Land Uses and Setting .....	1-2
1.10 Other Public Agencies Whose Approval is Required.....	1-3
<b>2 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED .....</b>	<b>2-1</b>
<b>3 ENVIRONMENTAL DETERMINATION .....</b>	<b>3-1</b>
<b>4 PROJECT DESCRIPTION .....</b>	<b>4-1</b>
<b>5 ENVIRONMENTAL CHECKLIST AND DISCUSSION .....</b>	<b>5-1</b>
5.1 Aesthetics.....	5-1
5.1.1 Regulatory Setting .....	5-1
5.1.2 Environmental Setting .....	5-5
5.1.3 Applicant Proposed Measures.....	5-11
5.1.4 Environmental Impacts and Mitigation .....	5-12
5.1.5 References Cited .....	5-19
5.2 Agriculture and Forestry Resources.....	5.2-1
5.2.1 Regulatory Setting .....	5.2-1
5.2.2 Environmental Setting .....	5.2-3
5.2.3 Applicant Proposed Measures.....	5.2-4
5.2.4 Environmental Impacts and Mitigation .....	5.2-4
5.2.5 References Cited .....	5.2-6

**Initial Study and Mitigated Negative Declaration for  
Crown Castle NG West Inc.**

---

**TABLE OF CONTENTS (CONTINUED)**

<b><u>Section</u></b>	<b><u>Page No.</u></b>
5.3	Air Quality ..... 5.3-1
5.3.1	Regulatory Setting ..... 5.3-1
5.3.2	Environmental Setting ..... 5.3-7
5.3.3	Applicant Proposed Measures..... 5.3-11
5.3.4	Environmental Impacts and Mitigation ..... 5.3-12
5.3.5	References Cited ..... 5.3-17
5.4	Biological Resources ..... 5.4-1
5.4.1	Regulatory Setting ..... 5.4-1
5.4.2	Environmental Setting ..... 5.4-6
5.4.3	Applicant Proposed Measures..... 5.4-20
5.4.4	Environmental Impacts and Mitigation ..... 5.4-22
5.4.5	References Cited ..... 5.4-30
5.5	Cultural Resources ..... 5.5-1
5.5.1	Regulatory Setting ..... 5.5-1
5.5.2	Environmental Setting ..... 5.5-7
5.5.3	Applicant Proposed Measures..... 5.5-12
5.5.4	Environmental Impacts and Mitigation ..... 5.5-13
5.5.5	References Cited ..... 5.5-16
5.6	Geology and Soils ..... 5.6-1
5.6.1	Regulatory Setting ..... 5.6-1
5.6.2	Environmental Setting ..... 5.6-3
5.6.3	Applicant Proposed Measures..... 5.6-6
5.6.4	Environmental Impacts and Mitigation ..... 5.6-6
5.6.5	References Cited ..... 5.6-10
5.7	Greenhouse Gas Emissions..... 5.7-1
5.7.1	Regulatory Setting ..... 5.7-1
5.7.2	Environmental Setting ..... 5.7-9
5.7.3	Applicant Proposed Measures..... 5.7-12
5.7.4	Environmental Impacts and Mitigation ..... 5.7-12
5.7.5	References Cited ..... 5.7-15
5.8	Hazards and Hazardous Materials ..... 5.8-1
5.8.1	Regulatory Setting ..... 5.8-1
5.8.2	Environmental Setting ..... 5.8-6
5.8.3	Applicant Proposed Measures..... 5.8-7

**Initial Study and Mitigated Negative Declaration for  
Crown Castle NG West Inc.**

---

**TABLE OF CONTENTS (CONTINUED)**

<b><u>Section</u></b>	<b><u>Page No.</u></b>
5.8.4 Environmental Impacts and Mitigation .....	5.8-8
5.8.5 References Cited .....	5.8-12
5.9 Hydrology and Water Quality .....	5.9-1
5.9.1 Regulatory Setting .....	5.9-2
5.9.2 Environmental Setting .....	5.9-4
5.9.3 Applicant Proposed Measures .....	5.9-6
5.9.4 Environmental Impacts and Mitigation .....	5.9-7
5.9.5 References Cited .....	5.9-13
5.10 Land Use and Planning .....	5.10-1
5.10.1 Regulatory Setting .....	5.10-1
5.10.2 Environmental Setting .....	5.10-4
5.10.3 Applicant Proposed Measures .....	5.10-5
5.10.4 Environmental Impacts and Mitigation .....	5.10-6
5.10.5 References Cited .....	5.10-14
5.11 Mineral Resources .....	5.11-1
5.11.1 Regulatory Setting .....	5.11-1
5.11.2 Environmental Setting .....	5.11-2
5.11.3 Applicant Proposed Measures .....	5.11-3
5.11.4 Environmental Impacts and Mitigation .....	5.11-3
5.11.5 References Cited .....	5.11-3
5.12 Noise .....	5.12-1
5.12.1 Noise Background and Terminology .....	5.12-1
5.12.2 Regulatory Setting .....	5.12-4
5.12.3 Environmental Setting .....	5.12-5
5.12.4 Applicant Proposed Measures .....	5.12-7
5.12.5 Environmental Impacts and Mitigation .....	5.12-8
5.12.6 References Cited .....	5.12-13
5.13 Population and Housing .....	5.13-1
5.13.1 Regulatory Setting .....	5.13-1
5.13.2 Environmental Setting .....	5.13-2
5.13.3 Applicant Proposed Measures .....	5.13-3
5.13.4 Environmental Impacts and Mitigation .....	5.13-3
5.13.5 References Cited .....	5.13-5
5.14 Public Services .....	5.14-1

**Initial Study and Mitigated Negative Declaration for  
Crown Castle NG West Inc.**

---

**TABLE OF CONTENTS (CONTINUED)**

<b><u>Section</u></b>	<b><u>Page No.</u></b>
5.14.1 Regulatory Setting .....	5.14-1
5.14.2 Environmental Setting .....	5.14-1
5.14.3 Applicant Proposed Measures.....	5.14-3
5.14.4 Environmental Impacts and Mitigation .....	5.14-3
5.14.5 References Cited .....	5.14-6
5.15 Recreation .....	5.15-1
5.15.1 Regulatory Setting .....	5.15-1
5.15.2 Environmental Setting .....	5.15-1
5.15.3 Applicant Proposed Measures.....	5.15-2
5.15.4 Environmental Impacts and Mitigation .....	5.15-2
5.15.5 References Cited .....	5.15-3
5.16 Transportation and Traffic .....	5.16-1
5.16.1 Regulatory Setting .....	5.16-1
5.16.2 Environmental Setting .....	5.16-3
5.16.3 Applicant Proposed Measures.....	5.16-4
5.16.4 Environmental Impacts and Mitigation .....	5.16-5
5.16.5 References Cited .....	5.16-9
5.17 Utilities and Service Systems.....	5.17-1
5.17.1 Regulatory Setting .....	5.17-1
5.17.2 Environmental Setting .....	5.17-2
5.17.3 Applicant Proposed Measures.....	5.17-2
5.17.4 Environmental Impacts and Mitigation .....	5.17-2
5.17.5 References Cited .....	5.17-5
5.18 Mandatory Findings of Significance.....	5.18-1
5.18.1 References.....	5.18-4
<b>6 LIST OF PREPARERS AND AGENCY CONSULTATION .....</b>	<b>6-1</b>
6.1 Lead Agency .....	6-1
6.2 Preparers .....	6-1
6.3 Agency Consultation.....	6-1

**APPENDIX**

A Noise Appendix

**Initial Study and Mitigated Negative Declaration for  
Crown Castle NG West Inc.**

---

**TABLE OF CONTENTS (CONTINUED)**

**Page No.**

**ATTACHMENTS**

A	<u>Comments and Responses</u>	
B	<u>Analysis to Support the Lead Agency’s Decision to Not Recirculate</u>	
C	<u>Figures Supporting Response to Comment 4-4</u>	

**FIGURES**

4-1	Regional Map.....	4-21
4-2(a)	<u>Vicinity Index Map</u> .....	4-23
4-2(b)	<u>Vicinity Map</u> .....	4-25
4-2a(a)	<u>Proposed Alignment Northern Map</u> .....	4-27
4-2a(b)	<u>Northern Map</u> .....	4-29
4-2b(a)	<u>Southern Map Proposed Alignment</u> .....	4-31
4-2b(b)	<u>Southern Map</u> .....	4-33
5.1-1	Visual Character Photographs.....	5.1-21
5.1-2	KOP Locations.....	5.1-23
5.1-3	KOP 1a: View of Node (DAV 11).....	5.1-25
5.1-4	KOP 1b: View of Node (DAV 11).....	5.1-27
5.1-5	KOP 2a: View of Node (DAV 12).....	5.1-29
5.1-6	KOP 2b: North View of Node (DAV 12).....	5.1-31
5.1-7	KOP 3a: Southeast View of Node (DAV 15).....	5.1-33
5.1-8	KOP 3b: Northeast View of Node (DAV 15).....	5.1-35

**TABLES**

1-1	Required Permits and Approvals.....	1-3
4-1	Proposed Project ROW.....	4-2
4-2	Construction Activity – Estimated Work Area Requirements for the Proposed Project.....	4-10
4-3	Equipment Requirements and Crew Size for the Proposed Project.....	4-11
4-4	Estimated Duration of Construction Tasks for the Proposed Project.....	4-13
4-5	Applicant Proposed Measures.....	4-14
4-6	Permits and Approvals Required for Construction.....	4-18
5.2-1	Farmland Conversion in San Mateo County From 2008–2010.....	5.2-4

**Initial Study and Mitigated Negative Declaration for  
Crown Castle NG West Inc.**

---

**TABLE OF CONTENTS (CONTINUED)**

	<u><b>Page No.</b></u>
5.3-1 Ambient Air Quality Standards .....	5.3-2
5.3-2 BAAQMD Air Quality Significance Thresholds – Project Level .....	5.3-6
5.3-3 SFBAAB Attainment Classification .....	5.3-9
5.3-4 Ambient Air Quality Data.....	5.3-10
5.3-5 Frequency of Air Quality Standard Violations .....	5.3-11
5.3-6 Proposed Project Construction Emissions .....	5.3-13
5.4-1 Special-Status Plant Species with the Potential to Occur in the Project Area .....	5.4-13
5.4-2 Special-Status Wildlife Species with Potential to Occur in the Project Vicinity .....	5.4-17
5.7-1 GHG Sources in California.....	5.7-11
5.7-2 GHG Sources in San Mateo County .....	5.7-12
5.7-3 Total Estimated Construction GHG Emissions .....	5.7-13
5.10-1 Consistency Analysis with Applicable Land Use Plans, Policies, or Regulations for the Proposed Project.....	5.10-7
5.12-3 Existing CNEL for Highway 1 .....	5.12-6
5.12-4 Construction Equipment Assumptions and Sensitive Receptors Distances .....	5.12-11
5.12-5 Construction Noise Summary of Results (dBA L <sub>eq</sub> ).....	5.12-12
5.13-1 Estimated Population Growth, 2010 to 2015.....	5.13-3