

TABLE OF CONTENTS

Permanente Creek Restoration Plan Project Draft Supplemental EIR

| | <u>Page</u> |
|---------------------------------------------------------------|-------------|
| Acronyms and Abbreviations | iv |
| Key Terms | vii |
| Executive Summary | ES-1 |
| ES.1 Introduction | ES-1 |
| ES.2 Purpose, Focus, and Use of this SEIR | ES-3 |
| ES.3 Overview of Impacts and Mitigation Measures | ES-4 |
| ES.4 Significant Irreversible Changes | ES-13 |
| ES.5 Growth-Inducing Impacts | ES-13 |
| ES.6 Summary of Alternatives..... | ES-14 |
| ES.7 Known Areas of Controversy | ES-15 |
| ES.8 Issues to be Resolved | ES-15 |
| ES.9 References | ES-31 |
| 1. Introduction | 1-1 |
| 1.1 Project Context | 1-1 |
| 1.2 Permanente Creek Restoration Plan | 1-4 |
| 1.3 CEQA Process Overview..... | 1-6 |
| 1.4 References | 1-11 |
| 2. Project Description | 2-1 |
| 2.1 Overview..... | 2-1 |
| 2.2 Project Objectives..... | 2-4 |
| 2.3 Focus of the Supplemental EIR | 2-4 |
| 2.4 Correlation between the 2012 EIR PCRA and the PCRCP | 2-9 |
| 2.5 Permanente Creek Restoration Plan | 2-15 |
| 2.6 Permits and Approvals..... | 2-34 |
| 2.7 References | 2-34 |
| 3. Project Impacts and Mitigation Measures | |
| 3.0 Introduction to Environmental Analysis | 3.0-1 |
| 3.1 Air Quality | 3.1-1 |
| 3.2 Biological Resources | 3.2-1 |
| 3.3 Cultural Resources | 3.3-1 |
| 3.4 Energy | 3.4-1 |
| 3.5 Geology, Soils, Seismicity, and Paleontology | 3.5-1 |
| 3.6 Greenhouse Gas Emissions | 3.6-1 |
| 3.7 Hydrology and Water Quality | 3.7-1 |

| | <u>Page</u> |
|------------------------------------------------------------------------------------------------------|-------------|
| 3. Project Impacts and Mitigation Measures (continued) | |
| 3.8 Project Consistency with 2012 EIR | 3-8-1 |
| 3.8.1 Introduction..... | 3-8-1 |
| 3.8.2 Aesthetics, Visual Quality, and Light and Glare..... | 3-8-2 |
| 3.8.3 Agriculture and Forestry Resources | 3-8-3 |
| 3.8.4 Hazards and Hazardous Materials | 3-8-5 |
| 3.8.5 Land Use and Planning | 3-8-9 |
| 3.8.6 Mineral Resources..... | 3-8-10 |
| 3.8.7 Noise | 3-8-11 |
| 3.8.8 Population and Housing | 3-8-12 |
| 3.8.9 Public Services..... | 3-8-14 |
| 3.8.10 Recreation | 3-8-15 |
| 3.8.11 Transportation | 3-8-16 |
| 3.8.12 Tribal Cultural Resources | 3-8-18 |
| 3.8.13 Utilities and Service Systems | 3-8-20 |
| 3.8.14 Wildfire | 3-8-22 |
| 3.8.15 References | 3-8-25 |
| 4. Alternatives | 4-1 |
| 4.1 Potential Alternatives Screening Process | 4-1 |
| 4.2 Potential Alternatives Initially Considered but Not Carried Forward for Detailed Review | 4-2 |
| 4.3 Alternative A—No Grading Approval Alternative..... | 4-4 |
| 4.4 Alternative B—No Project Alternative | 4-5 |
| 4.5 Environmentally Superior Alternative | 4-6 |
| 4.6 References | 4-6 |
| 5. Report Preparation | 5-1 |
| 5.1 Lead Agency..... | 5-1 |
| 5.2 Consultants..... | 5-1 |
| 5.3 Entities Consulted and Recipients of the Draft SEIR | 5-2 |

List of Figures

| | | |
|--------------|------------------------------------------------------------------------------------------|-------|
| Figure 1-1 | Permanente Creek | 1-2 |
| Figure 2-1 | Project Location..... | 2-2 |
| Figure 2-2 | Project Overview | 2-3 |
| Figure 2-3 | Correlation of PCRA Subareas and PCRP Reaches..... | 2-14 |
| Figure 2-4 | Geomorphic Map of the Rock Pile Area | 2-20 |
| Figure 3.1-1 | Residential Areas in the Vicinity of the Project Site | 3.1-7 |
| Figure 3.3-1 | Study Area..... | 3.3-2 |
| Figure 3.7-1 | Monthly Average Selenium Concentration in Quarry Discharges to Permanente Creek | 3.7-4 |

List of Tables

| | | |
|------------|--------------------------------------------------------------------------------------------------|-------|
| Table ES-1 | Summary of Environmental Issue Areas and Impact Conclusions | ES-7 |
| Table ES-2 | PCRP Impacts and Mitigation Measures | ES-16 |
| Table 2-1 | Specific Areas of Focus for the Supplemental EIR..... | 2-7 |
| Table 2-2 | Amended Consent Decree Reach Locations..... | 2-10 |
| Table 2-3 | 2012 EIR Subarea Restoration Details and Correlation with Amended Consent Decree Reaches..... | 2-11 |
| Table 2-4 | Permanente Creek Restoration Plan Construction Schedule | 2-27 |

| | <u>Page</u> |
|-------------------------------|-------------------------------------------------------------------------------------------------------------|
| List of Tables (cont.) | |
| Table 2-5 | Summary of Permits and Approvals 2-34 |
| Table 3.0-1 | Geographic Considerations in Cumulative Analysis 3.0-5 |
| Table 3.0-2 | Cumulative Projects List 3.0-6 |
| Table 3.1-1 | Air Quality Data Summary (2019–2021) for the Project Area 3.1-5 |
| Table 3.1-2 | Ambient Air Quality Standards and San Francisco Bay Area Air Basin Attainment Status 3.1-9 |
| Table 3.1-3 | 2012 Reclamation Plan Amendment Maximum Daily Criteria Air Pollutant Emissions (pounds/day) 3.1-21 |
| Table 3.1-4 | 2012 Reclamation Plan Amendment Maximum Annual Criteria Air Pollutant Emissions (tons/year) 3.1-21 |
| Table 3.1-5 | 2012 Reclamation Plan Amendment Health Risk Summary 3.1-22 |
| Table 3.1-6 | 2012 Reclamation Plan Amendment Estimated Chronic and Acute Hazard Impacts 3.1-22 |
| Table 3.1-7 | Estimated PM _{2.5} Concentration Impacts (µg/m ³) 3.1-22 |
| Table 3.1-8 | Maximum Daily Net Criteria Pollutant Emissions (pounds/day) 3.1-25 |
| Table 3.1-9 | Maximum Annual Net Criteria Pollutant Emissions (tons/year) 3.1-25 |
| Table 3.1-10 | Estimated Cancer Risk at the MEIR and Caretaker’s Residence 3.1-28 |
| Table 3.1-11 | Estimated Chronic and Acute Hazard Impacts 3.1-30 |
| Table 3.1-12 | Estimated PM _{2.5} concentration impacts (µg/m ³) 3.1-31 |
| Table 3.1-13 | Cumulative Health Impacts 3.1-33 |
| Table 3.4-1 | 2012 Reclamation Plan Amendment Annual Fuel Use (gallons/year) 3.4-6 |
| Table 3.4-2 | 2012 Reclamation Plan Amendment Annual Fuel Use (gallons/year) 3.4-8 |
| Table 3.6-1 | California Greenhouse Gas Emissions (million metric tons CO ₂ e) 3.6-3 |
| Table 3.6-2 | 2012 Reclamation Plan Amendment Maximum Annual GHG Emissions (metric tons/year) 3.6-11 |
| Table 3.6-3 | Maximum Annual Net GHG Emissions (metric tons/year) 3.6-13 |

Appendices

- A. Scoping Report
- B. Amended Consent Decree
- C. Permanente Creek Restoration Plan Updated 90% Level Submittal Design Basis
Technical Memorandum
- D. Air Quality and Greenhouse Gas Emissions (Environmental Science Associates,
November 2021)
- E. Biological Resources
 - E1. Revised Draft Biological Assessment (GEI Consultants, Inc., May 2016)
 - E2. Aquatic Resources Report. Preliminary Delineation of Waters of the United
States, Including Wetlands (GEI Consultants, Inc., 2021)
 - E3. Temporary Riparian Vegetation Impact Assessment (Waterways Consulting,
Inc., August 26, 2022)
- F. Energy: Fuel Use Calculations
- G. Geology and Soils
 - G1. Geotechnical and Geomorphic Assessment of Permanente Creek (Golder
Associates, October 21, 2019)
 - G2. Slope Stability Analyses (Golder Associates, July 22, 2021)
 - G3. Water Quality Evaluation (Golder Associates, August 26, 2022)
 - G4. Seismic Refraction Survey (NorCal Geophysical Consultants, Inc. May 22, 2014)

Appendices (cont.)

- G5. Regional Hydraulic Geometry and Analogue Channel Assessment (Waterways Consulting, Inc., October 30, 2018)
- G6. Stability Analysis – Draft (Stantec, August 26, 2022)
- H. 2012 Approvals
 - H1. Impacts and Mitigation Measures for the Final 2012 Permanente Quarry Reclamation Plan Amendment
 - H2. 2012 Conditions of County Approval

Acronyms and Other Abbreviations

| | |
|---------------------------------|--------------------------------------------------------------------------------------------------------------|
| °F | degrees Fahrenheit |
| µg/m ³ | micrograms per cubic meter |
| 90% Design Memo | <i>Permanente Creek Restoration Plan Updated 90% Level Submittal Design Basis Technical Memorandum</i> |
| 2011 Creek Restoration Plan | draft Permanente Creek Long-Term Restoration Plan |
| 2012 EIR | certified 2012 Reclamation Plan Amendment Environmental Impact Report |
| 2012 Reclamation Plan Amendment | 2012 amendment to the 1985 Permanente Quarry reclamation plan |
| 2017 CAP | Clean Air Plan |
| AB | Assembly Bill |
| ABAG | Association of Bay Area Governments |
| AEP | Association of Environmental Professionals |
| Amended Consent Decree | amended consent decree between the Sierra Club and Lehigh/Hanson Permanente Cement, Inc., dated May 11, 2016 |
| APM | applicant-proposed measure |
| AR4 | IPCC Fourth Assessment Report |
| ASA | Architecture and Site Approval |
| BAAQMD | Bay Area Air Quality Management District |
| BACT | best available control technology |
| BMP | best management practice |
| CAL FIRE | California Department of Forestry and Fire Protection |
| Cal. Code Regs. | California Code of Regulations |
| CalEEMod | California Emissions Estimator Model |
| California Register | California Register of Historical Resources |
| CARB | California Air Resources Board |
| CDFW | California Department of Fish and Wildlife |
| CDFW Restoration Manual | California Department of Fish and Wildlife California Salmonid Stream Habitat Restoration Manual |
| CEC | California Energy Commission |
| CEQA | California Environmental Quality Act |
| CFR | Code of Federal Regulations |
| CH ₄ | methane |
| CO | carbon monoxide |

| | |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CO ₂ | carbon dioxide |
| CO ₂ e | carbon dioxide–equivalent |
| COA | condition of approval |
| Construction General Permit | National Pollutant Discharge Elimination System construction general permit adopted by the State of California on September 2, 2009 (Order No. 2009-0009-DWQ as amended by 2010-0014-DWQ and 2012-0006-DWQ) |
| County | County of Santa Clara |
| County Planning Department | County of Santa Clara Department of Planning and Development |
| CRLF | California red-legged frog |
| DPM | diesel particulate matter |
| DPS | Distinct Population Segment |
| Draft 2012 EIR | December 2011 draft of the 2012 Reclamation Plan Amendment Environmental Impact Report <i>Santa Clara County California Drainage Manual</i> |
| Drainage Manual | <i>Santa Clara County California Drainage Manual</i> |
| EIR | environmental impact report |
| EMSA | East Materials Storage Area |
| ESM | engineered streambed material |
| ESU | Evolutionarily Significant Unit |
| FOS | Factor(s) of Safety |
| FRAP | Fire and Resource Assessment Program |
| FTS | Final Treatment System |
| General Plan | Santa Clara County General Plan |
| GHG | greenhouse gas |
| GIS | geographic information system |
| Golder | Golder Associates |
| GWP | global warming potential |
| H:V | horizontal to vertical |
| Hanson | Hanson Permanente Cement, Inc. |
| HEC-RAS | Hydrologic Engineering Center River Analysis System |
| HFC | hydrofluorocarbon |
| HHDT | heavy-heavy duty trucks |
| HRA | health risk assessment |
| Individual NPDES Permit | individual facility-wide NPDES permit obtained by the Permanente Quarry subsequent to the 2012 EIR, NPDES Permit Number CA0030210, currently embodied in RWQCB Order Number R2-2019-0024 |
| IPCC | Intergovernmental Panel on Climate Change |
| LDT | light-duty trucks |
| LEHCP | Low-Effect Habitat Conservation Plan |
| Lehigh | Hanson Permanente Cement, Inc. and Lehigh Southwest Cement Company, collectively |
| Lehigh Southwest | Lehigh Southwest Cement Company |
| Lower FTS | Final Treatment System–Lower |
| LSAA | Lake and Streambed Alteration Agreement |
| MAMP | Monitoring and Adaptive Management Plan |
| MEIR | maximally exposed individual receptor |
| MHDT | heavy-duty trucks |
| MidPen | Midpeninsula Regional Open Space District |

| | |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mph | miles per hour |
| MTC | Metropolitan Transportation Commission |
| N ₂ O | nitrous oxide |
| National Register | National Register of Historic Places |
| NECPA | National Energy Conservation Policy Act |
| NF ₃ | nitrogen trifluoride |
| NHTSA | National Highway Traffic Safety Administration |
| NO | nitric oxide |
| NO ₂ | nitrogen dioxide |
| NOP | notice of preparation |
| NO _x | nitrogen oxides |
| NPDES | National Pollutant Discharge Elimination System |
| OEHHA | Office of Environmental Health Hazard Assessment |
| OGB | Office of Governor Edmund G. Brown Jr. |
| OM&C Plan | Operations, Maintenance, and Contingency Plan |
| PCRA | Permanente Creek Restoration Area |
| PCRP | Permanente Creek Restoration Plan |
| PFC | perfluorocarbon |
| PM _{2.5} | particulate matter less than 2.5 microns in diameter |
| PM ₁₀ | particulate matter less than 10 microns in diameter |
| ppm | parts per million |
| Project | Permanente Creek Restoration Project, specifically the PCRP to the extent that the 90% Design Memo differs from the restoration activities previously proposed within the PCRA and analyzed in the 2012 EIR |
| PSD | Prevention of Significant Deterioration |
| REL | reference exposure level |
| ROG | reactive organic gas |
| RWQCB | Regional Water Quality Control Board |
| SB | Senate Bill |
| SCAQMD | South Coast Air Quality Management District |
| SEIR | supplemental environmental impact report |
| SF ₆ | sulfur hexafluoride |
| SFBAAB | San Francisco Bay Area Air Basin |
| SIP | State Implementation Plan |
| SJVAPCD | San Joaquin Valley Air Pollution Control District |
| SMARA | Surface Mining and Reclamation Act |
| SO ₂ | sulfur dioxide |
| Stantec | Stantec Consulting Services Inc. |
| SWPPP | Stormwater Pollution Prevention Plan |
| SWRCB | State Water Resources Control Board |
| TAC | toxic air contaminant |
| TDS | total dissolved solids |
| U.S. EPA | U.S. Environmental Protection Agency |
| Upper FTS | Final Treatment System–Upper |
| USACE | U.S. Army Corps of Engineers |
| USDOT | U.S. Department of Transportation |

| | |
|--------------------------------|--------------------------------------------------------------------------------|
| USFWS | U.S. Fish and Wildlife Service |
| VMT | vehicle miles traveled |
| Water Collaborative Guidelines | <i>Water Collaborative Guidelines and Standards for Land Uses Near Streams</i> |
| WDR | waste discharge requirement |
| WMSA | West Materials Storage Area |
| WRCC | Western Regional Climate Center |

Key Terms

The terms necessary for a clear understanding of the process being undertaken by the County of Santa Clara Department of Planning and Development (County Planning Department), and of the project proposed and analyzed in this environmental review document, are listed below in an order that is intended to aid understanding, rather than alphabetically. Additional definitions and details are provided in the chapters and sections that follow.

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| CEQA | The County Planning Department is conducting this environmental review pursuant to the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq.) and its implementing regulations, the CEQA Guidelines (California Code of Regulations Title 14, Section 15000 et seq.). Because only minor additions or changes would be necessary to make prior environmental documentation adequately apply to the current project, the County Planning Department has elected to prepare a supplemental environmental impact report (SEIR). See Section ES.1, <i>Introduction</i> , in the Executive Summary for additional details. |
| Lehigh | This SEIR refers to Lehigh Southwest Cement Company and Hanson Permanente Cement, Inc., collectively as “Lehigh.” Lehigh is the applicant for a Grading Approval (County File No. PLN17-2250) submitted for consideration by the County Planning Department. |
| Amended Consent Decree | An Amended Consent Decree between the Sierra Club and Lehigh, dated May 11, 2016, is called the “Amended Consent Decree” in this SEIR. A copy of the Amended Consent Decree is provided in Appendix B. |
| Permanente Creek Restoration Plan (PCRP) | Pursuant to the Amended Consent Decree, the currently proposed creek restoration plan is called the Permanente Creek Restoration Plan (PCRP). The PCRP is the “Project” being analyzed in this SEIR pursuant to CEQA. Under the PCRP, creek restoration activities would be implemented within an area of up to 135.6 acres: <ul style="list-style-type: none"> • The 120.2-acre Permanente Creek Restoration Area (PCRA) described and analyzed in the 2012 Reclamation Plan Amendment Environmental Impact Report (EIR). • A 12.9-acre portion of the existing reclamation plan boundary where creek restoration activities were not described and analyzed in the 2012 EIR. • An additional 2.5 acres beyond the existing reclamation plan boundary where restoration work would occur pursuant to the PCRP. |

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|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>The 135.6-acre area where the PCRCP would be implemented is the “Project site” for purposes of this SEIR.</p> |
| 90% Design Memo | <p>Restoration activities proposed to occur as part of the PCRCP are described in the <i>Lehigh Permanente Creek Restoration Plan Updated 90% Level Submittal Design Basis Technical Memorandum</i>, prepared in 2019 and updated in 2022 by Waterways Consulting Inc. A copy of the Updated 90% Design Memo is provided in Appendix C.</p> |
| 2012 EIR | <p>This SEIR cites individual sections and pages of the 2012 Reclamation Plan Amendment EIR for the Lehigh Permanente Quarry. References in this SEIR to that document as a whole (i.e., the Draft EIR plus responses to comments document) are cited to the “2012 EIR.” When a reference is specifically to the December 2011 draft of the 2012 EIR, the citation is to the “Draft 2012 EIR.” When a reference is specifically to the responses to comments document or changes that were made to the Draft EIR, citations are to the “Final 2012 EIR.”</p> |
| 2011 Creek Restoration Plan | <p>The creek restoration requirements identified in paragraphs 33–42 of the Consent Decree reflect restoration duties imposed on Lehigh that stem from San Francisco Bay Regional Water Quality Control Board Cleanup and Abatement Order No. 99-018, which led to the development of the draft 2011 Creek Restoration Plan.</p> |
| Permanente Creek Restoration Area (PCRA) | <p>The portion of the draft 2011 Creek Restoration Plan that was described and analyzed in the 2012 EIR as the “Permanente Creek Restoration Area” or “PCRA” consisted of a 120.2-acre area, of which 49.2 acres was approved for disturbance pursuant to creek restoration activities. Restoration activities anticipated by the 2012 EIR to occur in the PCRA were described in the 2011 Creek Restoration Plan and, as revised and updated in the Amended Consent Decree, are included in the Amended Consent Decree. See Figure 2-3, <i>Correlation of PCRA Subareas and PCRCP Reaches</i>.</p> |