



**HOLLIDAY
ROCK**

2024 SUSTAINABILITY REPORT



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Adam Holliday (Left), John Holliday.

| MESSAGE FROM OWNERSHIP

Holliday Rock, founded in 1937, is one of America's largest independent construction material suppliers and a fourth-generation family-owned and operated business. We take great pride in our history and our commitment to strong relationships based on trust, decisiveness, and mutual success.

Sustainability is fundamental to our business. It is a vital part of the value we deliver to our customers and communities as we work to provide the highest quality materials with the best service. That is why we are proud to present this inaugural sustainability report.

Construction materials are the foundation of our economy and the cornerstone of our communities. As a family-owned company, we understand the importance of community, collaboration, and continuous learning. Developing more

sustainable materials is an essential part of that. By taking advantage of opportunities to use less fossil energy and operate more efficiently and by sourcing inputs that are less carbon intensive, we empower ourselves to create structures that are not only durable but also sustainable and environmentally friendly.

Meeting the demands for sustainable construction is one of the most important challenges faced by our industry. At Holliday, we aim to integrate sustainability across all operations and products. Electrification, renewable natural gas, recycled materials, and reduced carbon intensity are fundamental pillars of our strategy towards that goal. We look forward to working with our partners, suppliers, and customers, on the journey to sustainable construction.

II BUSINESS SUMMARY

Holliday Rock Company (HRC) is a producer of construction materials including ready mix concrete, asphalt, and aggregates. HRC mines and processes natural sand and gravel deposits to produce the construction aggregates necessary to make concrete and asphalt. We have 6 aggregate mining operations, 3 asphalt plants, and approximately 40 ready mix batch plants in Southern and Central California. HRC operates its own trucking as a core component of the business; this includes transporting of cement from cement mills to concrete batch plants, readymix concrete from batch plants to job sites, aggregate from mines to asphalt plants and concrete batch plants, and asphalt from asphalt plants to job sites.

Our primary suppliers include the leading producers of cement in California, truck dealers, fuel refiners, utilities, and other

aggregate producers. Our primary customers include concrete and paving contractors. Through them we supply material for public and private infrastructure, and residential, commercial, and industrial construction projects.



||| HIGHLIGHTS

ACHIEVEMENTS

- Committed to purchase 10 EV and hybrid vehicles and installed charging equipment at 5 locations.
- Built a Renewable CNG station that now has a fleet of 30 CNG concrete mixers, and 7 CNG dump trucks.
- Installed over 500 KW of solar in Upland, CA, where we are headquartered.
- Using by-products like flyash, we were able to avoid over 4,743 tons of embodied carbon in the concrete we delivered in 2023.

GOALS

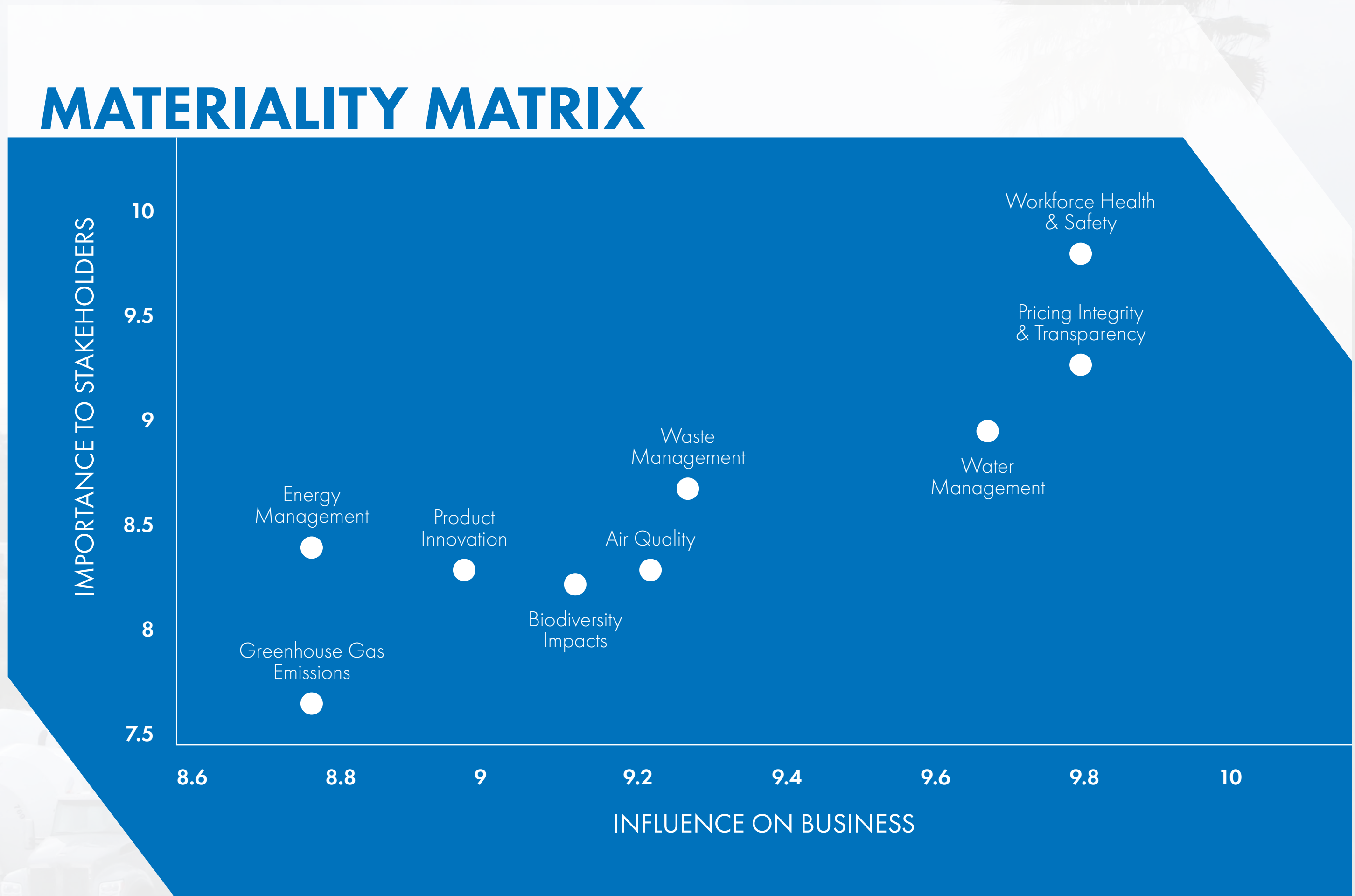
- Reduce our Scope 1 CO2 emissions per unit of material sold by 15% by 2030.
- Supply materials to at least 5 sustainable projects per year.
- Reduce ordinary Portland cement consumption by 20% by 2030.
- Convert 50% of our Medium Duty fleet to EV's by 2030.
- Convert 20% of our Heavy Duty fleet to CNG by 2030.

IV MATERIALITY ASSESSMENT

The following matrix illustrates the results of our materiality assessment. Utilizing the Sustainability Accounting Standards Board's (SASB) Materiality Finder, we identified the most relevant topics for our industry. We then surveyed our key stakeholders to determine the materiality of these topics.

Our stakeholders include our employees, owners, customers, and suppliers. Across these stakeholder groups, we engaged 208 stakeholders to understand the importance of sustainability-related topics to both them and to Holliday Rock's business success.

We are committed to regularly assessing the most important topics to our stakeholders and our business performance. Moving forward, we will integrate these findings into our strategic planning and goal-setting processes, ensuring that our sustainability efforts align with our business objectives and stakeholder expectations.



V WATER

Water is a critical resource and we take water conservation seriously. As an input for concrete and aggregate processing, we are constantly using water to create materials. One of the most important ways we recycle this water is with a filter press at our largest plant. This allows us to filter out the silt and other unwanted materials from the aggregate cleaning and processing operation and then reuse that water again. In aggregate operations where we do not yet have water recycling equipment, we create ponds that allow the used processing water to recharge the aquifer by percolating back into the water table.

An important part of Holliday Rock's history up to current operations, has been constructing water recharge basins for water utilities. Much of the aggregate we are currently mining and processing is part of an agreement to help local water utilities

remove the material from the San Antonio Spreading Grounds. This allows the water from the San Gabriel mountains to have more opportunity to percolate back into the aquifer at the base of the mountains.

Another important aspect of water management is storm water. Holliday Rock manages storm water by retaining the storm water on site at each facility. All Holliday Rock facilities are graded so that storm water will flow into retention basins. Collecting this storm water instead of allowing it to discharge off site achieves two goals:

- Protects the environment by preventing any potentially polluted runoff from entering the drainage system.
- Allows the water to either be reused or recharge into the aquifer.



What Next?

We plan to bring the filter press technology to another rock processing plant located at our Campus property in Upland.

VI GREENHOUSE GAS EMISSIONS

In 2023, Holliday Rock generated over 45,000 metric tons of emissions from both Scope 1 and Scope 2 sources. We also recognize the significant emissions related to Scope 3, particularly from the embodied carbon in the cement we purchase. This report and our broader sustainability initiatives are centered around reducing these emissions across all scopes.

Key opportunities for reduction include minimizing diesel use in our trucks, improving operational efficiency, decarbonizing material transportation, and sourcing less carbon-intensive materials.



MANAGING SCOPE 1 EMISSIONS

Given that the nature of our industry involves substantial heavy trucking, managing fuel consumption remains one of our most critical levers to curb emissions. With a fleet of over 500 vehicles, we have undertaken several steps to improve our fuel efficiency as part of our broader decarbonization strategy.



We have begun a policy of no longer purchasing diesel vehicles when there is another viable option.



Holliday Rock has begun purchasing Renewable Diesel whenever it is available. The majority of current fuel purchases are now Renewable Diesel.

VI GREENHOUSE GAS EMISSIONS

SCOPE 1 EMISSIONS

Our 2023 Scope 1 emissions were 40,906 MT of CO₂e. The majority is from diesel used to transport construction materials. This is our biggest opportunity to reduce emissions. To that end, we have made several advances in reducing the GHG footprint of our transportation. We have purchased 5 electric vehicles with plans for further electrification in 2025 and we have built charging capacity

at several of our locations. Furthermore, our participation in SCE's Charge Ready Transport is an important milestone towards developing the electric vehicle charging infrastructure needed for heavy duty vehicles. Through this program we plan to install DC fast charging capacity necessary for vehicles of the future.

- ✓ Started using electric vehicles and installing charging equipment.
- ✓ Built a renewable CNG station and purchased CNG concrete mixers.
- ✓ Initiated the use of Renewable Diesel (R99) in most locations.



VI GREENHOUSE GAS EMISSIONS

SCOPE 2 EMISSIONS

Our 2023 Scope 2 emissions were 4,209 MT of CO₂e. This is mostly comprised of electricity used to handle and process aggregates for use in concrete and asphalt. However, other important electric loads include concrete batch plants, hot mix asphalt plants, and offices. Accordingly, we have embarked on several energy efficiency and renewable energy projects.

HOW ARE WE REDUCING OUR SCOPE 2 EMISSIONS?

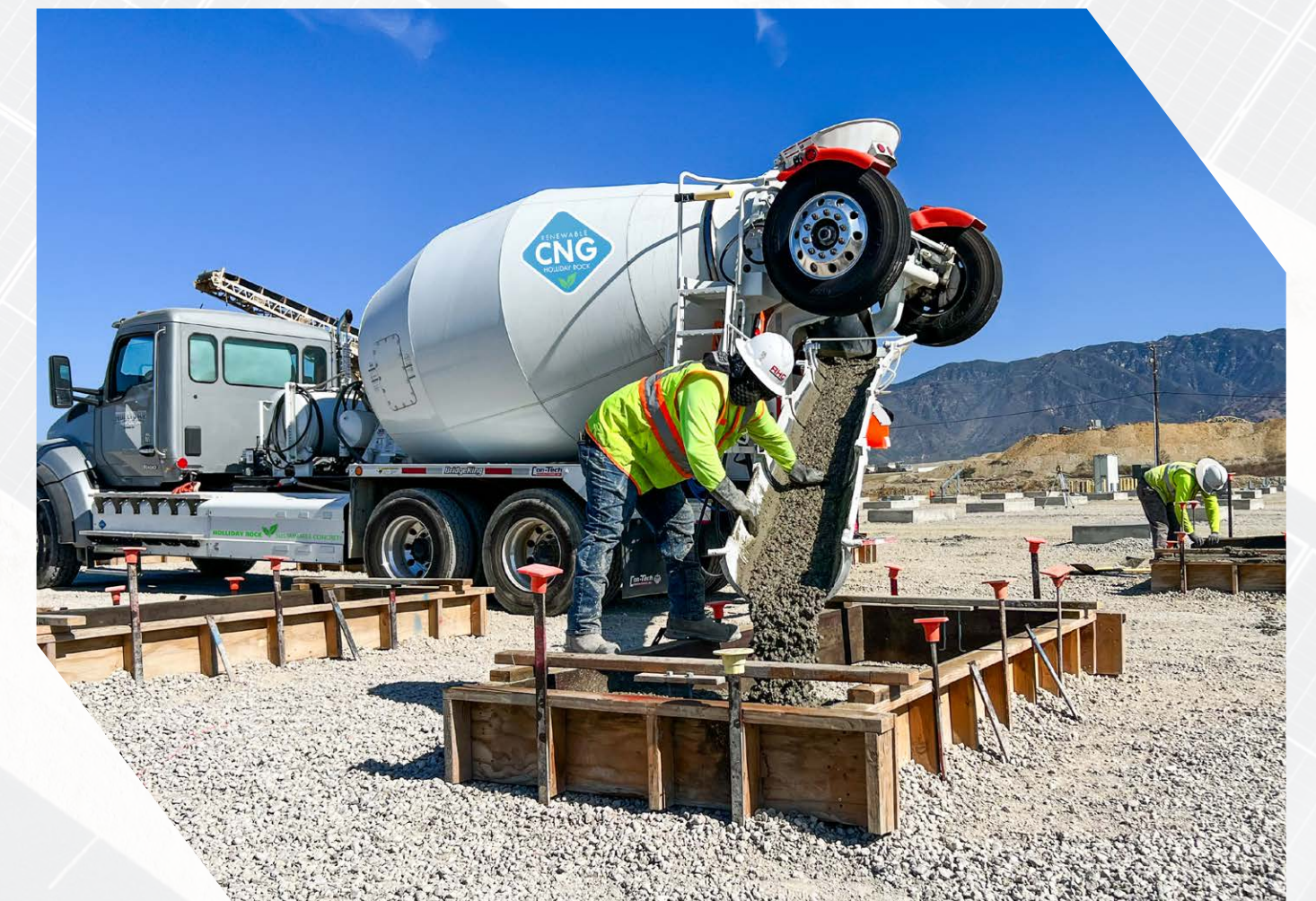
We have built 507 kilowatts of solar generating capacity. Additionally, SCE has approved plans for another solar array which would bring the total over 1 MW.

We have begun a program to replace all

lighting to LED. This has included lighting projects in Upland, Sun Valley, and Palmdale. In addition, we have occupancy sensors and other HVAC and lighting controls to prevent unnecessary energy use.

All facilities that are eligible for energy star benchmarking have been benchmarked for energy efficiency, and we are working with US EPA on developing an energy score for concrete batch plants.

Our goal is to generate 5% of our electricity from onsite renewables by 2030.



VII MATERIALS

AGGREGATES

Aggregates are the backbone of Holliday Rock. We take pride in being a California company that sources and produces locally, supplying construction projects throughout the region. 100% of our rock and sand is produced in Central and Southern California.

We extract millions of tons of aggregates per year from natural sand and gravel deposits. These alluvial deposits are processed into high quality construction aggregates that are used to produce ready mixed concrete and asphalt.

All of the mining equipment producing the aggregates either runs on low carbon electricity or renewable diesel.

Holliday Rock has invested in the long term

sustainability of our aggregate production with several notable projects. At our largest aggregate plant, Mt. View, conveyor belts were installed that replaced diesel powered heavy equipment for aggregate stockpiling. Aggregate processing equipment was replaced with more efficient technology that reduces the water and energy required per ton of aggregate produced. We are now planning to apply these upgrades to our Campus Plant.

100% of our rock and sand is produced in Central and Southern California.



VII MATERIALS

RECYCLING CONCRETE



In addition to our natural aggregate sources, Holliday Rock recycles almost 1 million tons per year of concrete and asphalt that is reused in the production of new construction materials, including road base, ready mixed concrete, asphalt, and structural fill materials.

Concrete which has been removed from previous construction is often brought to our sites. While this could be considered a waste product, we recycle this material into road base, the material roads are built on. We were able to process and sell 400,000 tons in 2023.

Furthermore, we are also recycling this discarded material to reuse the aggregates into new concrete. We were able to utilize approximately 50,000 tons in 2023 that

may otherwise have been destined for landfill.

Our goal is to process 1M tons of used concrete per year and include recycled aggregate in 5% of our concrete by 2030.



VII MATERIALS

ASPHALT

Asphalt is a significant product for Holliday Rock. One of the ways we make asphalt more sustainable is by incorporating Reclaimed Asphalt Pavement (RAP). Its use has continued to be a critical part of the hot mix asphalt production with RAP content often as high as 25%. Generally, all asphalt can be entirely recycled. By integrating RAP into our production, we were able to use over 200,000 tons of recycled material in 2023, avoiding the need to mine new aggregate or source new oil.

Efforts are ongoing to further optimize the gradation of the RAP materials to maximize its benefit to use even less new aggregate and oil content. We continue to push the boundaries of recycling asphalt whenever possible.

We have participated in and supported the development of energy benchmarking and Energy Star certification for Asphalt plants through the EPA Energy Star program. As part of that process we submitted our energy data to the EPA and benchmarked our 3 asphalt plants in the EPI tool. With an average score above the Energy Star benchmark, we plan to receive an Energy Star certification for our Upland asphalt plants as soon as the certification is available.

One of the ways we make asphalt more sustainable is by incorporating Reclaimed Asphalt Pavement (RAP).



VII MATERIALS

CEMENT



Cement is the binding ingredient that holds the aggregate in concrete together. Holliday Rock is not a cement producer, but we recognize this key ingredient to concrete is a large source of Scope 3 emissions and we are focused on managing its use.

Holliday Rock proudly uses California cement, which is held to the highest environmental and quality standards available. However, as we strive to produce readymix concrete with the lowest embodied carbon content, we go further by reducing the cement content whenever possible. This requires replacing cement with Supplementary Cementitious Materials (SCM). Holliday Rock uses a combination of fly ash, blast furnace slag, (byproducts otherwise destined for landfill)


as SCMs to supplement the use of cement.

We were able to avoid 4,743 MT of embodied carbon by replacing cement with SCMs.

Our goal is to replace 20% of the cement in our concrete with more sustainable SCMs by 2030.

The Portland Cement Association (PCA) has produced a Roadmap to Carbon Neutrality to help guide their cement producers. The Executive Summary can be found here: www.cement.org/wp-content/uploads/2024/05/Executive_Summary_Jan2024.pdf

VIII ENVIRONMENTAL PRODUCT DECLARATIONS (EPDs)



ENVIRONMENTAL PRODUCT DECLARATION (EPD)

General Information

EPD Holder
Holliday Rock
1401 N. Benson Ave.
Upland, CA 91786 USA

Date of Issue – August 16, 2024

Period of Validity – 10/27/2027

Program Operator
National Ready Mix Concrete Association
66 Canal Center Plaza, Suite 250,
Alexandria, VA 22314

NRMCA EPD #20068

LCA and EPD Developer
WAP Sustainability Consulting
1701 Market Street
Chattanooga, TN 37408
www.wapsustainability.com

Core PCR - ISO 21930:2017 Sustainability in Building Construction - Environmental Declaration of Building Products

Sub-category PCR - NSF International
Product Category Rule (PCR) for Concrete Version 2.2
(December 2022), Reviewed by Thomas P. Gloria, Bill Stough, and Michael Overcash.

Independent LCA Reviewer and EPD Verifier - Independent verification of the declaration and data, according to ISO 21930:2017 and ISO 14025:2006 Internal External: Joseph Geibig EcoForm

The declared product meets the following product specifications:
• ACI 211: Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete. • ACI 318: Building Code Requirements for Structural Concrete. • ASTM C94 Standard Specification for Ready-Mixed Concrete. • CSA A23.1/A23.2: Concrete Materials and Methods of Concrete Construction • CSI Masterformat Division 03-30-00: Cast-in-Place Concrete. • UNSPC Code 30111500: Ready Mix

Disclaimer: EPDs are comparable only if they comply with this document, use the same sub-category PCR where applicable, include all relevant information modules, use the same functional unit and are based on equivalent scenarios with respect to the context of construction works. This EPD is intended for business-to-business communications. This EPD was calculated using manufacturer specific cement data that represents 100% of the total cement used in this mix.

Environmental Impacts

Declared Product: 3C40K800




Description: 4000psi 1"

Compressive Strength: 4000 psi @ 28 days

Declared Unit: 1 m³ (yd³) of ready mix concrete per m³ per yd³

| | | |
|--|----------|----------|
| Global Warming Potential (kg CO2e) | 313.80 | 239.92 |
| Ozone Depletion (kg CFC11e) | 2.65E-06 | 2.03E-06 |
| Acidification (kg SO2e) | 0.57 | 0.44 |
| Eutrophication (kg Ne) | 0.09 | 0.07 |
| SFP (Smog) (kg O3e) | 16.18 | 12.37 |
| Abiotic Depletion, fossil (MJ, NCV) | 1874.08 | 1432.83 |
| Abiotic Depletion, non-fossil (kg Sbe) | 1.55E-04 | 1.19E-04 |

Product Components:
Natural Coarse Aggregate (ASTM C33), Natural Fine Aggregate (ASTM C33), Portland Cement (ASTM C150), Natural Coarse Aggregate (ASTM C33), BatchWater (ASTM C1602), Water Reducer (ASTM C494), Carbon Dioxide (ASTM C494)

HOLLIDAY ROCK | READYMIX CONCRETE, ASPHALT, & AGGREGATE

Environmental Product Declarations (EPDs) provide transparency in sustainability and are essential for low carbon construction projects. Often referred to as an environmental “nutrition label,” they document standardized, verified information on the environmental impact of a product throughout its life cycle. They cover key metrics such as global warming potential (GWP), ozone depletion potential, acidification, eutrophication, smog formation, and the depletion of both fossil and non-fossil resources. Our EPDs, generated from any of 12 plants, are third-party verified and cover the A1 to A3 life cycle stages: raw material extraction, transportation to the facility, and manufacturing. This

transparency empowers customers to choose more sustainable products, reducing their environmental footprint.

Since 2022, we have published 379 EPDs, enabling our clients to make informed decisions based on environmental performance. This supports our customers in their sustainability goals and drives us to optimize our concrete mixes. By using EPDs, we can adjust mixes to meet specific environmental criteria, ultimately reducing the environmental impact of our concrete products. This commitment to sustainability helps us stay competitive and meet the growing demand for eco-friendly construction materials.



IX CARBONCURE

CarbonCure Technologies provides an innovative solution to reduce the carbon footprint of concrete production. The process injects liquid CO₂ into fresh concrete during mixing. This chemically converts CO₂ into a mineral within the concrete, which not only strengthens the material but also permanently removes CO₂ from the atmosphere.

Holliday Rock has saved 530 metric tons of CO₂, equivalent to 640 acres of forestland absorbing CO₂ for a year. This has not only lowered our carbon footprint but also provided us with a competitive advantage in the market by offering a more sustainable product.

Holliday Rock has saved 530 metric tons of CO₂.

This method reduces CO₂ emissions in our mixes by an average of 3% without compromising compressive strength or quality. Since adopting CarbonCure,



X HIGHLIGHTED PROJECTS - SUSTAINABLE CONCRETE

RP-5 (REGIONAL WATER RECYCLING PLANT NO. 5) EXPANSION



RP-5 is a wastewater treatment and recycling facility in the City of Chino owned by the Inland Empire Utilities Agency. The completed expansion will increase the plant's capacity from 16.3 million gallons per day to 30.0 million gallons per day. We have supplied the project with 48,000 yards of sustainable concrete.



To produce concrete with lower embodied carbon, we took two approaches:

- **Cement Replacement:** Replaced 20% of the cement content with Class F Coal Fly Ash.
- **Admixture:** By incorporating a High Range Water Reducer, we were able to maintain the same water-to-cement ratio using less total cement in the concrete mix.

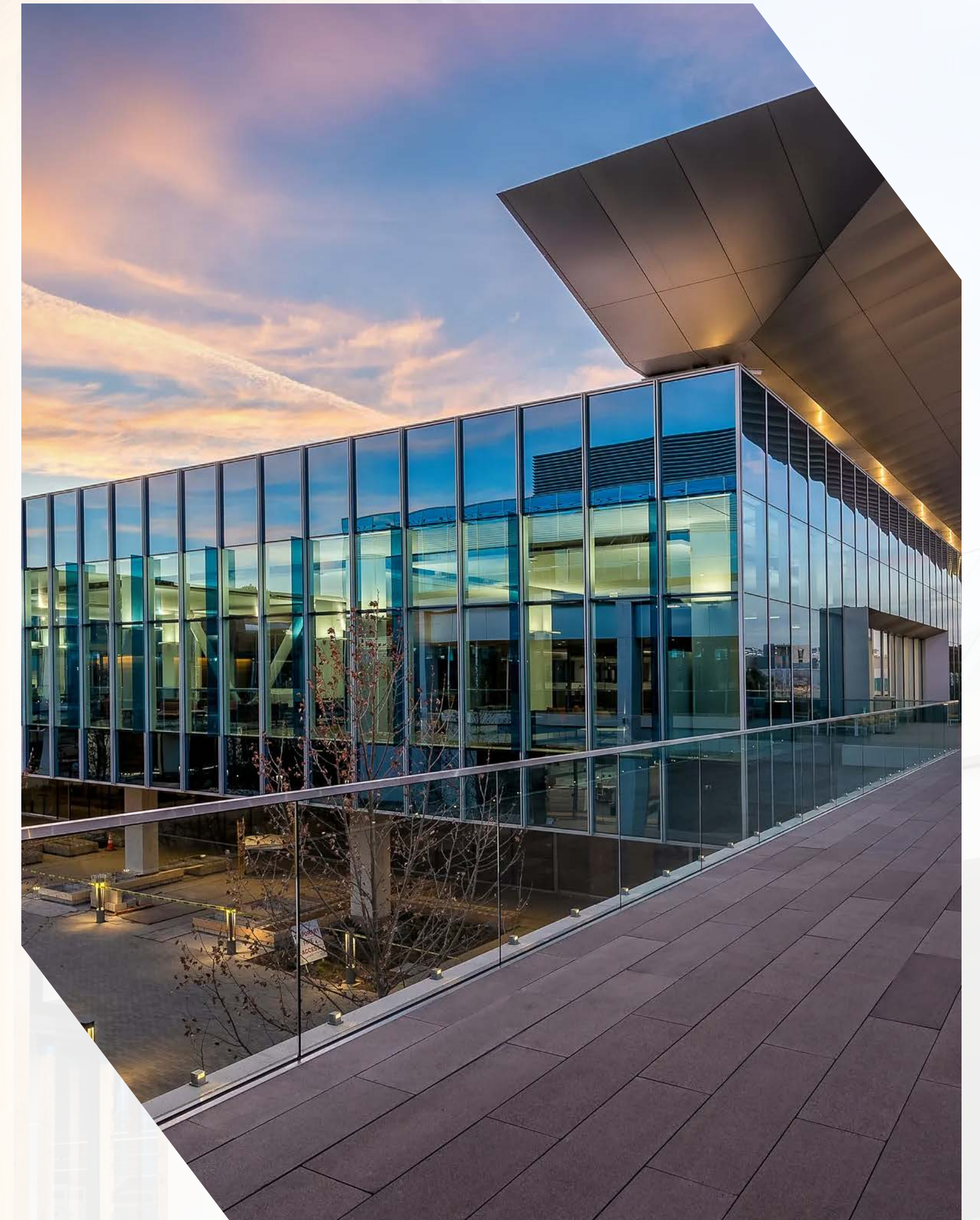
X HIGHLIGHTED PROJECTS - SUSTAINABLE CONCRETE

EDWARDS LIFESCIENCES CAMPUS EXPANSION

Edwards Lifesciences expanded its 32-acre Irvine campus onto an adjoining 10-acre parcel. The 469,000 square foot expansion includes a two-story entry pavilion, a three-story office/lab building, a dining facility, and a conference center, all of which have achieved LEED Gold certification and emphasize sustainability with energy-efficient designs.

Over 5,000 cubic yards of concrete was used in the expansion.

- **Embodied Carbon Reduction:** Achieved a 10% reduction in carbon footprint by using Type II cement.
- **LEED Gold Certification:** Concrete choice contributed to the building's LEED Gold Certification through the U.S. Green Building Council.



UC IRVINE MESA COURT RESIDENCE HALL EXPANSION



The Mesa Court Expansion at the University of California, Irvine, will create a new undergraduate residence building spanning 75,344 square feet, providing up to 400 beds in quadruple occupancy rooms. The building will feature common areas throughout, such as study spaces, communal kitchens, laundry facilities, and a vibrant dining facility. This innovative project aims to enhance the living and learning experience for students, addressing

the unique challenges of its site while promoting high-density vertical living on campus.

We supplied over 3,500 cubic yards of sustainable concrete to this project.



- **Cement Replacement:**
Replaced 20% of the cement content with Fly Ash.
- **Reduced Emissions:**
Avoided 231 metric tons of CO₂ by replacing cement.

XI FUTURE SUSTAINABILITY INITIATIVES

Holliday Rock proudly continues to push our sustainability efforts to new frontiers of the construction materials industry. We are constantly identifying and assessing new opportunities to implement more sustainable practices and equipment into our operations. This includes increasing the use of renewable fuels in our trucks, fleet electrification, more onsite renewable energy generation, and more research into SCMs. As these efforts develop, we continue to work with our customers and suppliers to create the highest quality, and most sustainable concrete and asphalt in the industry.



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