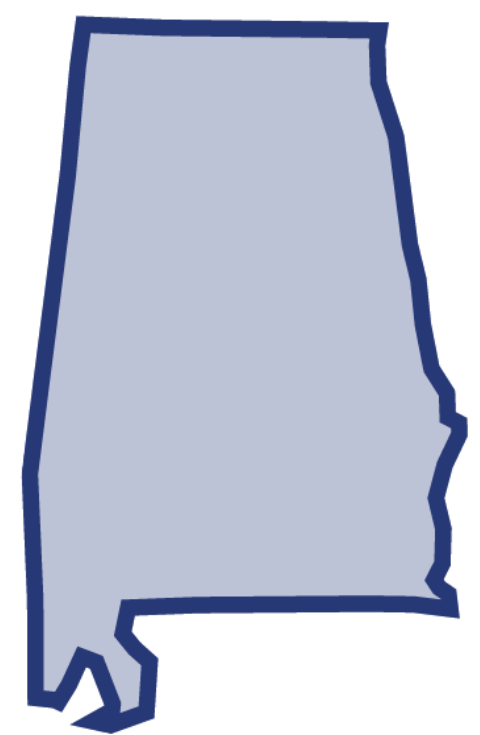


# ABOUT VULCAN MATERIALS COMPANY

## Vulcan by the Numbers



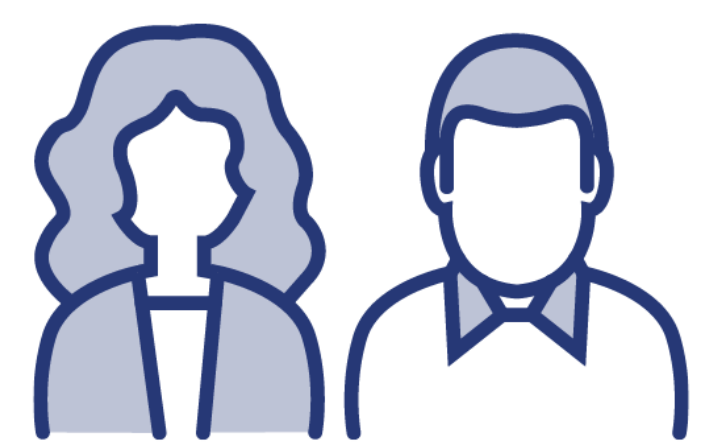
Founded in  
**1957**



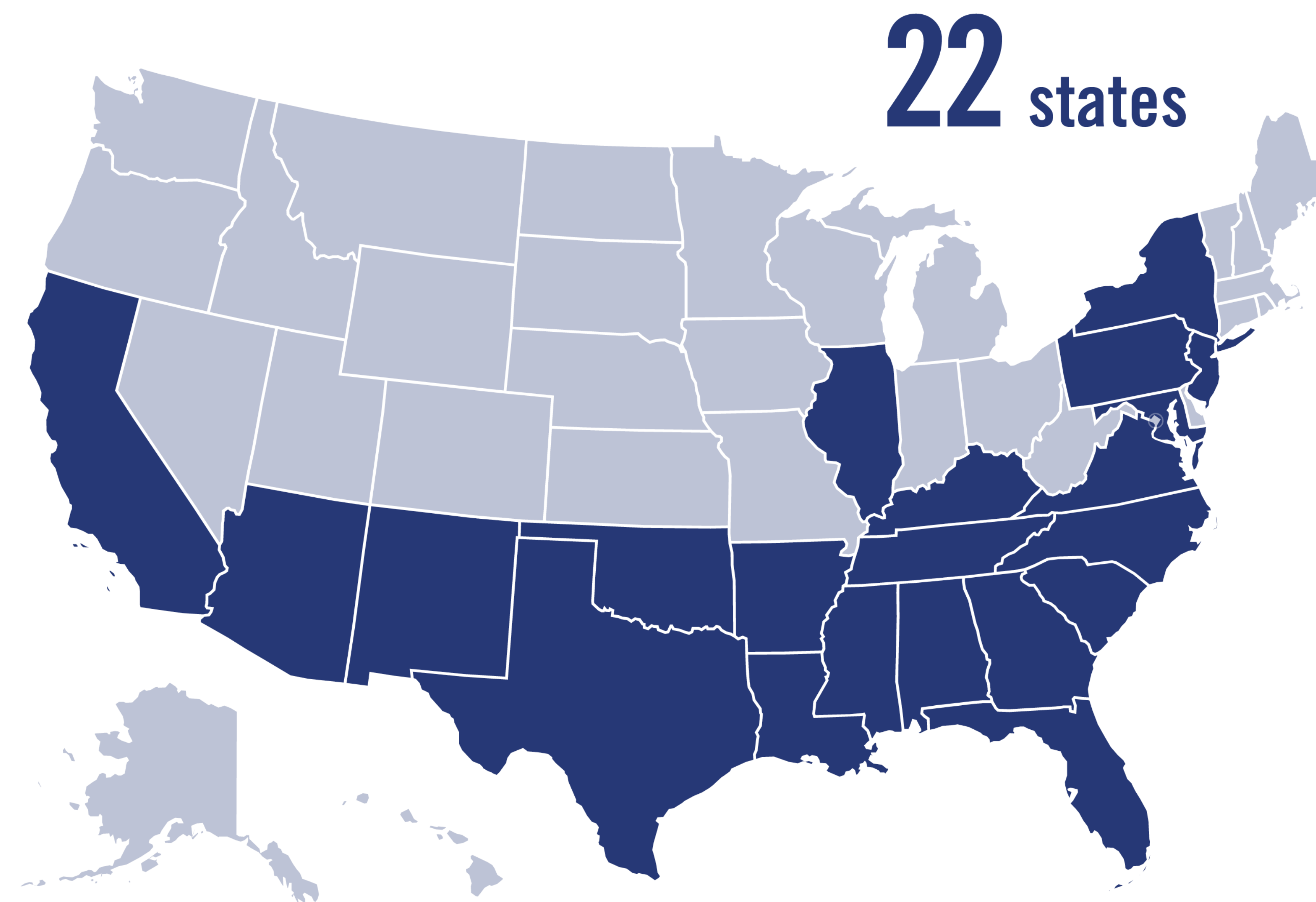
Headquartered in  
**BIRMINGHAM,**  
Alabama



**65 YEARS**  
as a publicly traded  
company



**12,000**  
employees



**22** states

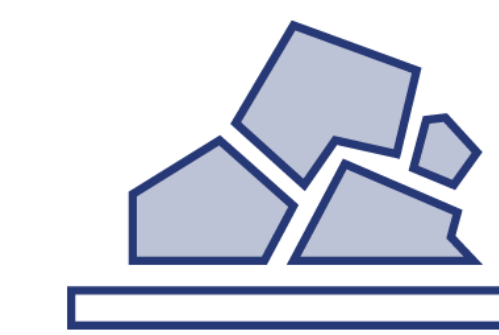
**4** countries

USA

BAHAMAS

CANADA

MEXICO



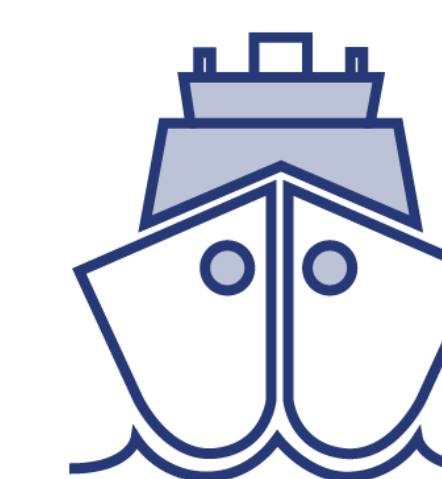
**404** aggregates  
facilities



**240** concrete  
facilities

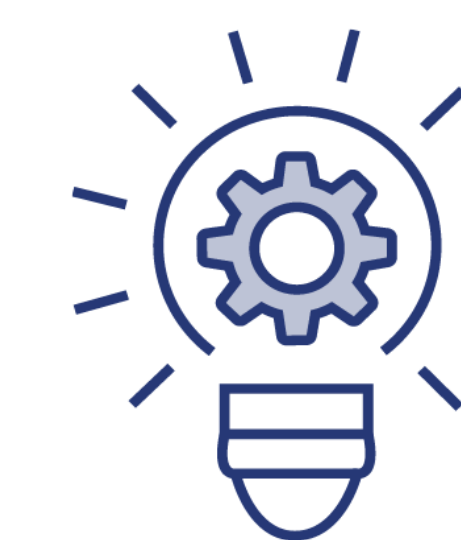


**70** asphalt  
facilities



**2** marine  
terminals

British Columbia, Canada and  
the Quintana Roo, Mexico



**1** innovation  
laboratory

WELCOME

**Vulcan**  
Materials Company

Green Valley Site

# ABOUT VULCAN in ARIZONA

## State-Wide

329 employees

14 Aggregate production facilities

16 Asphalt plants



## Green Valley Site

Mining began prior to 1996

Vulcan purchased in 2015

Approximately 130 acres

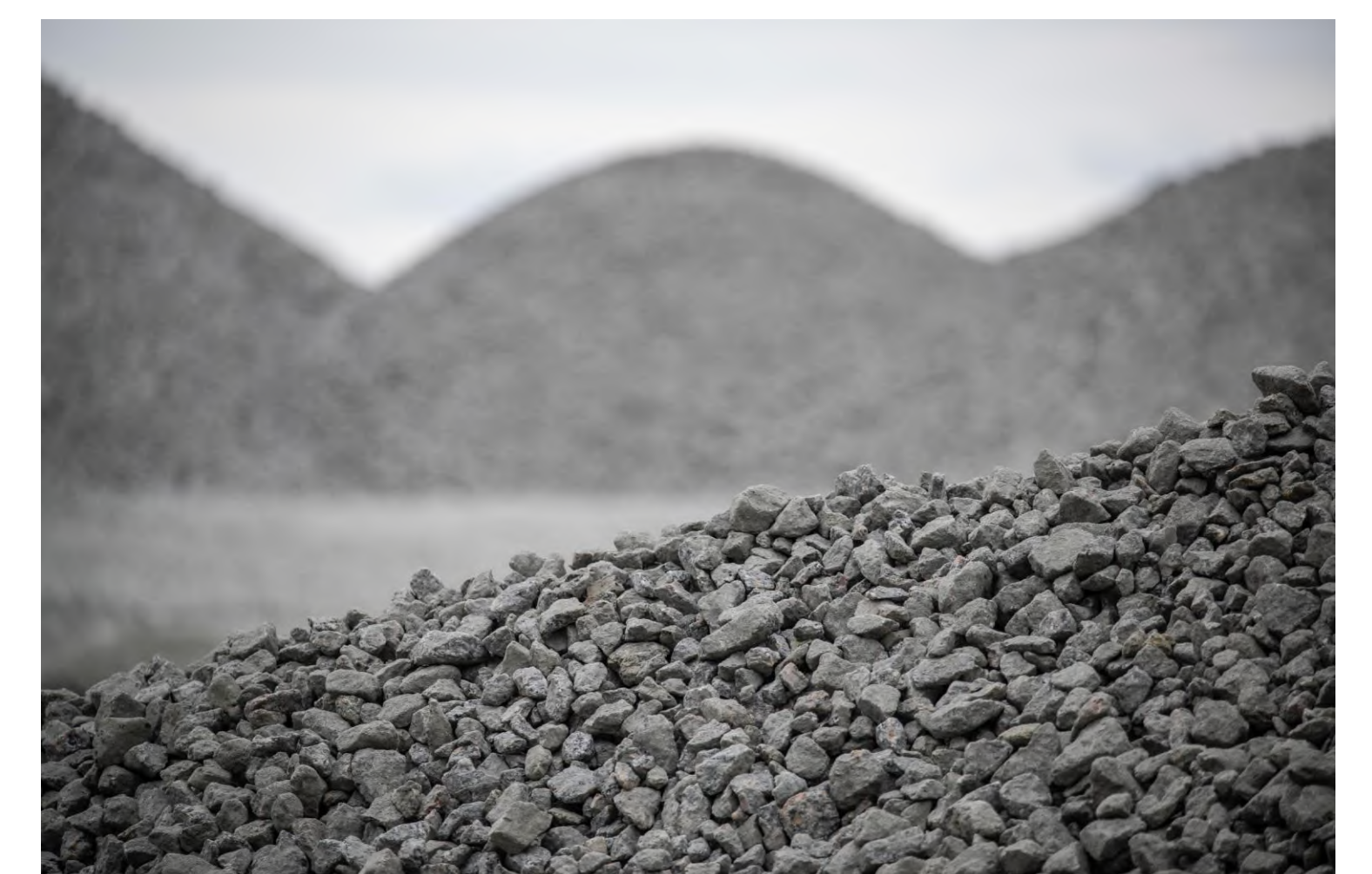
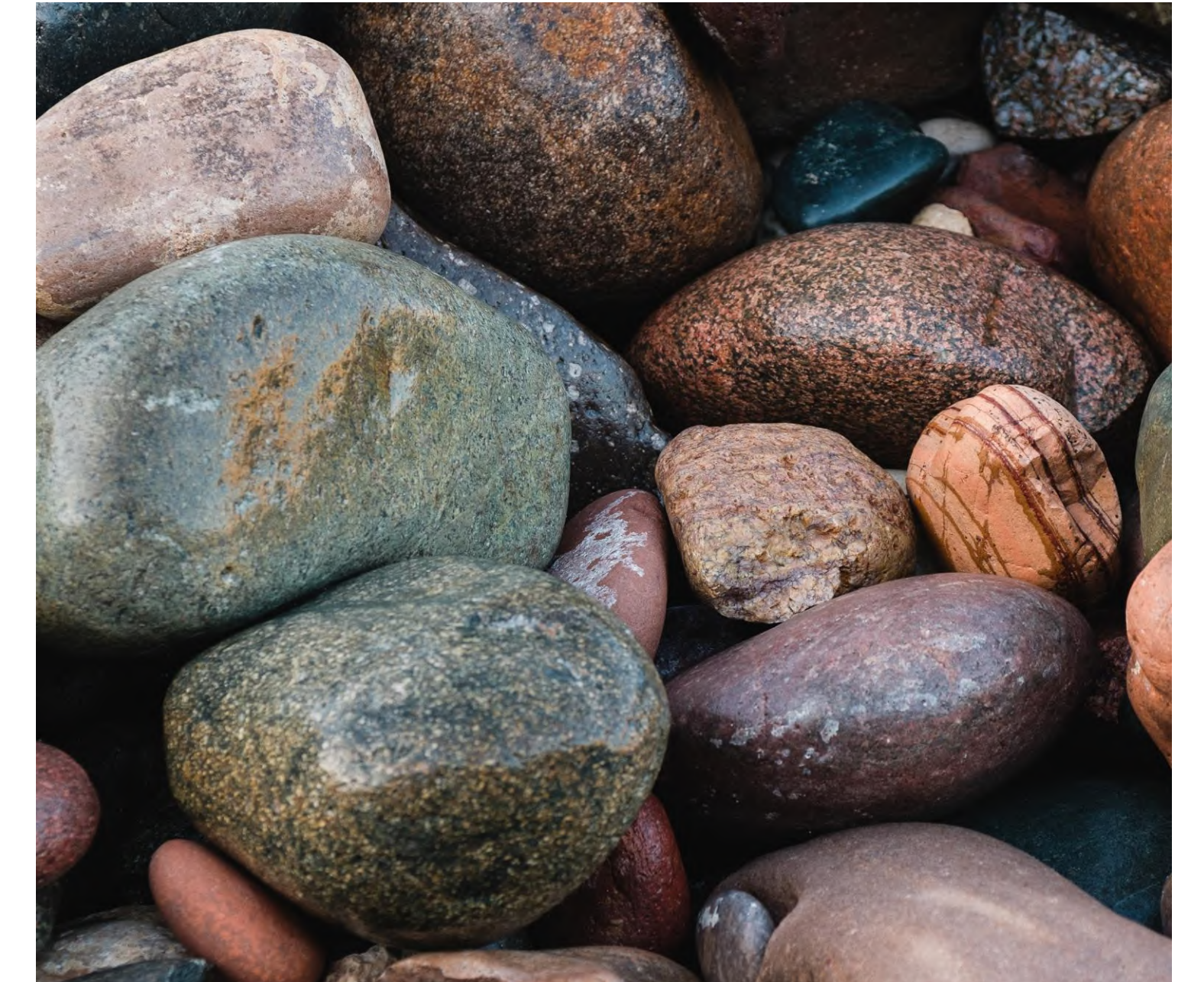
20-25 Jobs



WELCOME

# CONSTRUCTION AGGREGATES

Drive our economy.



**How much  
do we need?**

**38,000 tons**  
builds one lane-mile of a  
four-lane interstate highway

**400 tons**  
builds the  
average home

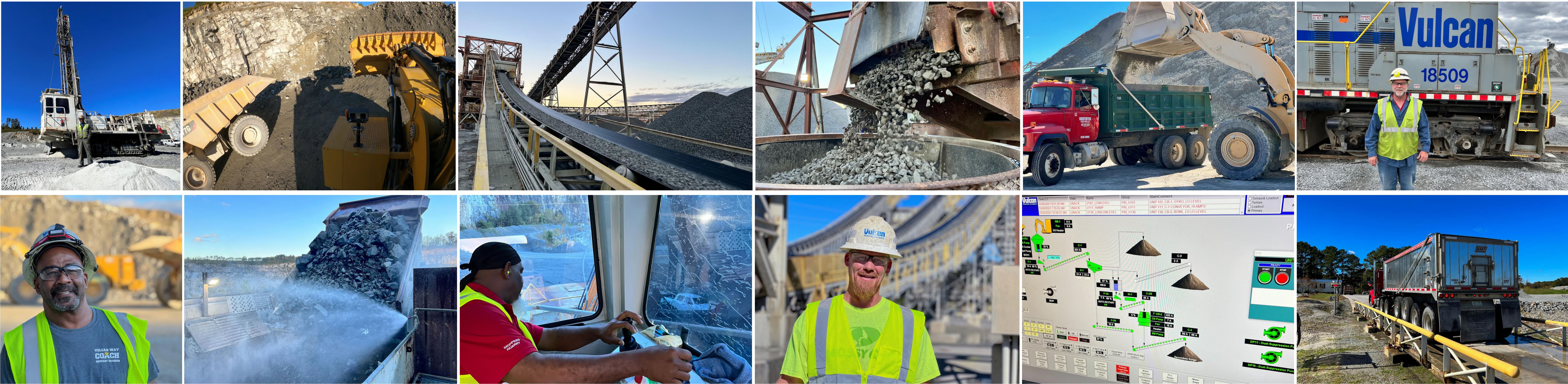
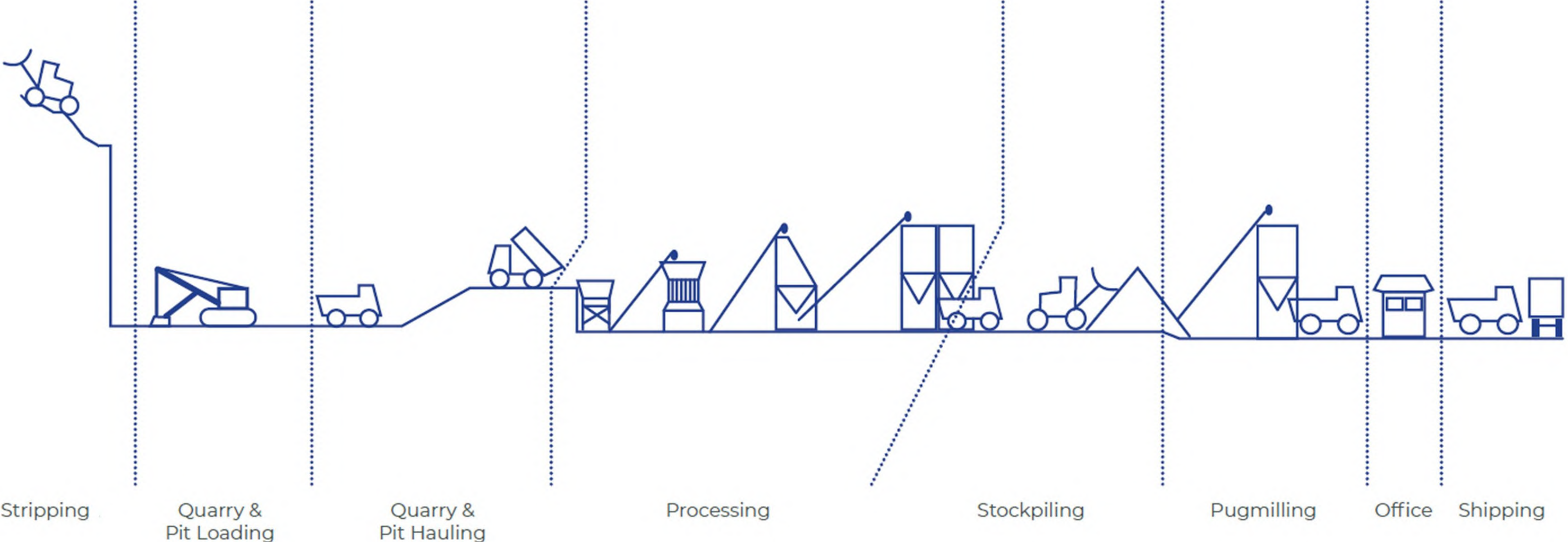
**80%**  
amount of aggregate  
in concrete

**94%**  
amount of aggregate  
in asphalt pavement

PRODUCTS

**Vulcan**  
Materials Company  
Green Valley Site

# WE MAKE BIG ROCKS INTO SMALL ROCKS



OPERATIONS

# HOW IT WORKS

## Hot Mix Asphalt (HMA) Plant

### Baghouse (Secondary Collector)

The baghouse removes fine particulate matter from the dryer exhaust gases before they are released into the atmosphere.

### Asphalt Cement Storage Tanks

Asphalt cement is stored in tanks while awaiting delivery to the drum. Asphalt cement in the tanks is heated between 300°F and 350°F depending on the grade and type of asphalt. Asphalt is delivered from the tanks to the drum for mixing with the aggregate.

### Drum

The rotating drum first heats the aggregate then mixes the hot aggregate with asphalt cement. The aggregate enters the drum at the opposite end from the burner and travels counter to the hot air stream. Asphalt is added to, and mixed with the hot aggregate in the drum.

### Additive Silo

Stores lime that can be added to the mix.

### Storage Silos

After the aggregate and asphalt cement are mixed in the drum, the resulting hot mix is discharged to the storage silos. Generally there are two types of silos: surge and storage. Surge silos are usually insulated but unheated and are designed to hold hot mix for short periods of time (several hours) between truck arrivals. Storage silos are well insulated, heated, near air-tight and are designed to hold hot mix for long periods of time (up to a week).

### Truck Loading Area

Trucks are loaded from the storage silos. A weigh scale is typically located here to ensure trucks are loaded with the correct amount of mix.

### Control Center

The control center manages operations from a central location. Most modern asphalt plants are sophisticated facilities and are computer controlled.

### Primary Collector

The primary collector, located between the dryer and secondary collector, removes large dust particles from the exhaust gases before entering the more efficient secondary collector (baghouse).

### Cold Feed for Reclaimed Asphalt Pavement (RAP)

RAP can be used in hot mix at ratios up to about 50 percent. RAP is generally loaded into its own cold feed bin then moved by conveyor belt to be discharged directly into the drum where it is heated by the already-hot aggregate.

### Cold Feed Bins

Stockpiled aggregates are loaded into the cold feed bins for delivery into the aggregate dryer. Each bin holds a separate aggregate size or gradation. They have an adjustable gate that meters the aggregate onto the moving conveyor belt. The gate openings and the conveyor belt speed control the amount of aggregate introduced into the plant, and that controls the mix gradation.

Source: National Asphalt Pavement Association (NAPA)

# HOW IT WORKS

## Ready-Mix Concrete (RMC) Plant

### Concrete Ingredients



Coarse Aggregates



Fine Aggregates



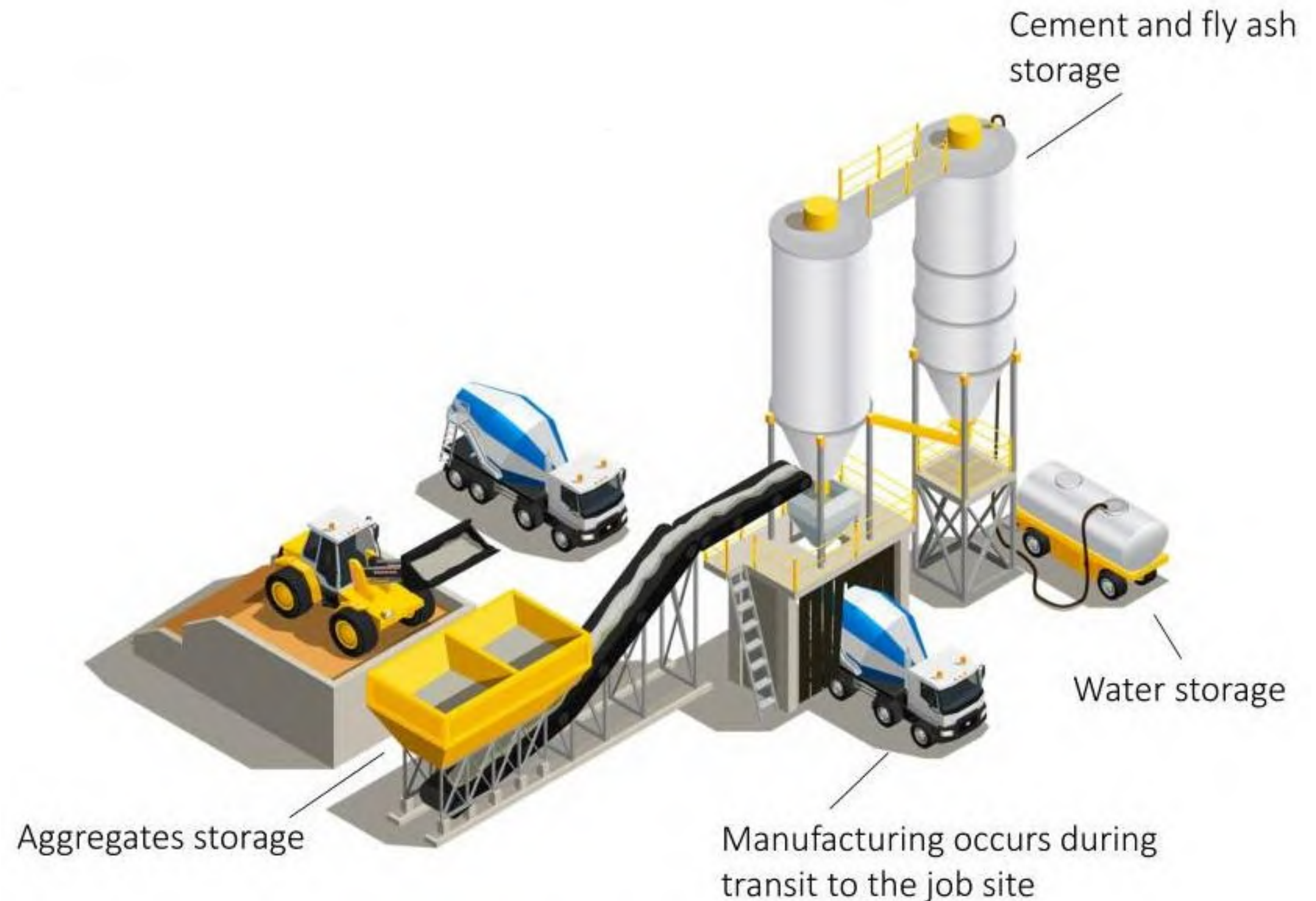
Cement



Water



Admixtures



# GENERAL OPERATIONS

## Mitigation Measures & On-Site Infrastructure

### Mitigation Measures

- All traffic will enter/exit from the main access road off South Old Nogales Highway
- On-site mobile equipment equipped with alternative back-up alarms to reduce audible impacts
- Customer truck roads will be paved and include rumble gates to prevent track out onto local roads
- Water truck used to water on-site roads and stockpiles
- On-site paved roads and entrance/exit points swept with a street sweeper
- Conveyors, crushers, and fixed plant equipment will be equipped with mounted spray bars
- Hot-mix asphalt plant will be equipped with a baghouse to collect dust during operation
- Site will meet or exceed all necessary standards to mitigate for air, noise, water, ground, and light pollution

### On-Site Infrastructure

- The site has all water, electric, roadway, and other public infrastructure required to operate the current and proposed plants



# EXISTING SITE FEATURES

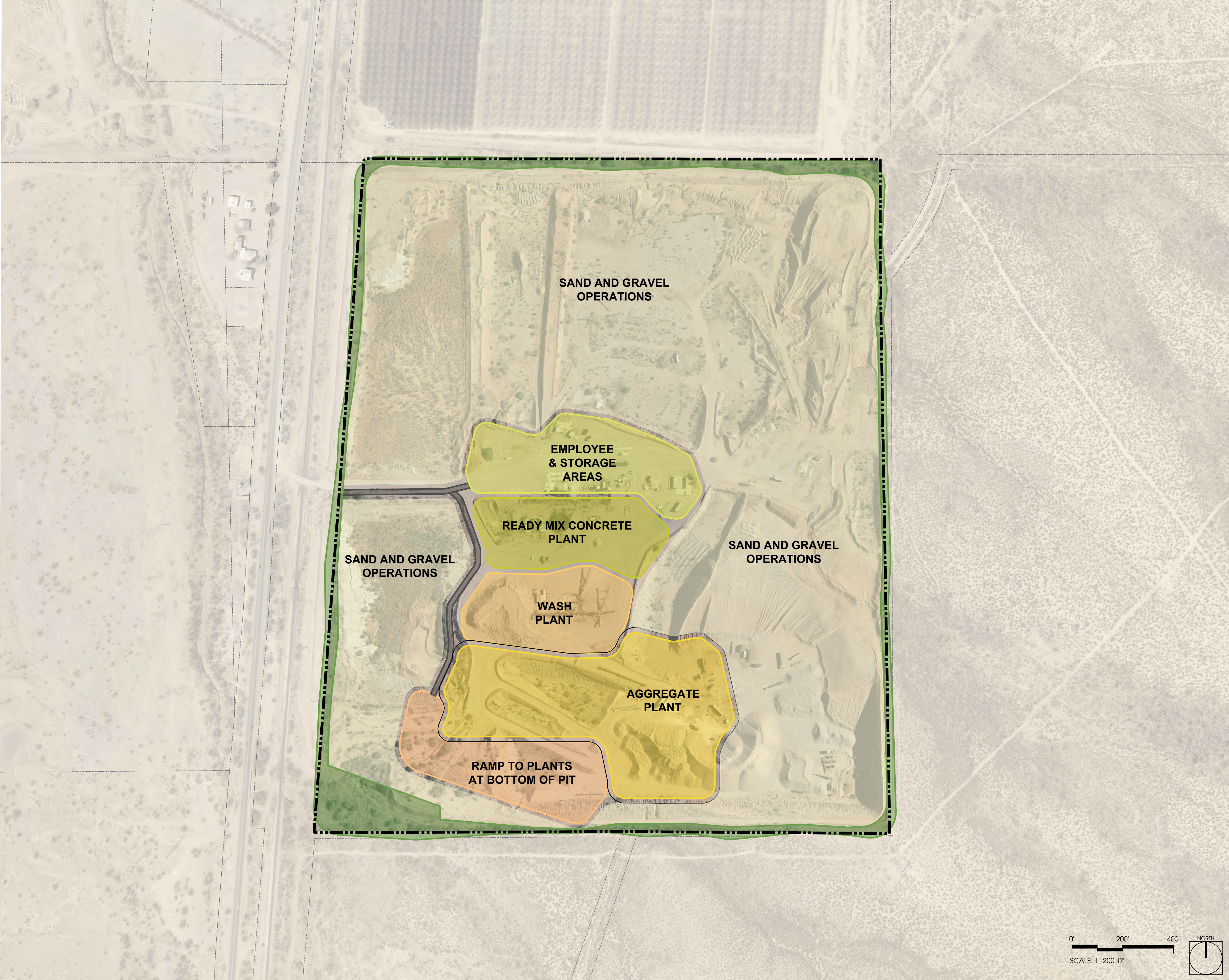
**GENERAL NOTES**  
JURISDICTION: TOWN OF SAHUARITA  
PARCEL APN: 30367002H  
GENERAL PLAN LAND USE: RESOURCE INDUSTRIAL  
EXISTING ZONE: RH  
PARCEL SIZE: 129.58 AC

- PROJECT DESCRIPTION**
- **EXISTING CONDITIONS:** THE PROJECT SITE FEATURES AN OPEN PIT MINE FOR SAND AND GRAVEL EXTRACTION. THE SITE IS SURROUNDED ON ALL SIDES BY AN EARTHEN SCREEN BERM. ALL AREAS HAVE BEEN DISTURBED. VEHICULAR ROUTES ARE UNPAVED.
  - **VIEWS:** VIEW FROM OFF PROPERTY SEE VERY LITTLE OF THE SITE, DUE TO THE PERIMETER EARTHEN BERM.
  - **WASHES / DRAINAGE / RIPARIAN HABITAT:** THE PROPERTY IS SURROUNDED BY WASHES, WHICH ARE DIVERTED ALONG THE PERIMETER BERM AND DO NOT FLOW THROUGH THE SITE. PIMA COUNTY XERORIPARIAN HABITAT (CLASSIFICATION IRA B AND B) IS MAPPED ON THE SITE. FULL RIPARIAN HABITAT EXTENTS TO BE DETERMINED THROUGH FIELD VERIFICATION.
  - **ACCESS:** SITE INGRESS/EGRESS OCCURS AT THE MIDPOINT OF THE PROJECT SITE ALONG OLD NOGALES HIGHWAY. THIS VEHICULAR ACCESS POINT CROSSES THE UNION PACIFIC RAIL LINE.
  - **OPERATIONS:** THIS PROPERTY FUNCTIONS AS A SAND AND GRAVEL OPERATION (INCLUDING ASPHALT PLANT). MOST EQUIPMENT AND STRUCTURES ASSOCIATED WITH THESE OPERATIONS ARE FLEXIBLE AND WILL RELOCATE THROUGHOUT THE SITE AS CONDITIONS CHANGE.
  - **GRADING:** THE ENTIRETY OF THE SITE HAS BEEN GRADED FOR EXTRACTION PURPOSES. DEFUNCT PONDS ARE LOCATED ALONG THE WESTERN BOUNDARY OF THE SITE. PERIMETER BERM EXTENDS ALONG ALL BOUNDARIES. MOST OF THE SITE COMPRISES EXTRACTION PITS. CURRENTLY THE DEEPEST PIT IS APPROXIMATELY 67' BEFLOW THE TOP OF THE ADJACENT PERIMETER SCREEN BERM.
  - **PERMANENT STRUCTURES INCLUDE:** NONE. ALL STRUCTURES (I.E. EMPLOYEE LAB, RMC PLANT, ETC.) ARE PORTABLE AND MAY MOVE WITHIN THE SUBJECT PROPERTY ACCORDING TO MINING AND ASPHALT ACTIVITIES.

**STRUCTURES (PORTABLE EQUIPMENT)**  
AGGREGATE (AGG) PLANT  
WASH PLANT  
READY MIX CONCRETE (RMC) PLANT  
EMPLOYEE LAB STORAGE  
WATER STORAGE

- SIGNIFICANT FEATURES**
- PERIMETER SCREEN BERM ON ALL PROPERTY BOUNDARIES
  - DEFUNCT PONDS (ALONG WESTERN BOUNDARY)
  - SAND AND GRAVEL PIT THROUGHOUT (APPROX 67' DEPTH AT DEEPEST POINT, PRESENTLY)
  - HISTORICAL OLD NOGALES HIGHWAY ONCE RAN THROUGH THE SUBJECT PROPERTY, BUT NOW RUNS ALONG THE WEST SIDE OF THE PROPERTY. BOUNDARIES OF THE OLD NOGALES HIGHWAY DELINEATE WHERE IT ONCE RESIDED.

- LEGEND**
- READY MIX CONCRETE (RMC) PLANT
  - WASH PLANT
  - AGGREGATE (AGG) PLANT
  - RAMP TO PLANTS AT BOTTOM OF PIT
  - EMPLOYEE / STORAGE
  - LANDSCAPE BUFFER
  - SAND & GRAVEL OPERATIONS



# EXISTING SITE FEATURES

# PROPOSED SITE FEATURES

**GENERAL NOTES**  
JURISDICTION: TOWN OF SAHUARITA  
PARCEL APN: 30367002H  
GENERAL PLAN LAND USE: RESOURCE INDUSTRIAL  
EXISTING ZONE: RH  
PARCEL SIZE: 129.58 AC

- PROJECT DESCRIPTION**
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  - **ACCESS:** SITE INGRESS/EGRESS OCCURS AT THE MIDPOINT OF THE PROJECT SITE ALONG OLD NOGALES HIGHWAY. THIS VEHICULAR ACCESS POINT CROSSES THE UNION PACIFIC RAIL LINE.
  - **OPERATIONS:** THIS PROPERTY FUNCTIONS AS A SAND AND GRAVEL OPERATION (INCLUDING ASPHALT PLANT). MOST EQUIPMENT AND STRUCTURES ASSOCIATED WITH THESE OPERATIONS ARE FLEXIBLE AND WILL RELOCATE THROUGHOUT THE SITE AS CONDITIONS CHANGE.
  - **GRADING:** MOST OF THE SITE COMPRISES EXTRACTION PITS.
  - **PERMANENT STRUCTURES INCLUDE:** NONE.

**STRUCTURES (PORTABLE EQUIPMENT)**  
AGGREGATE (AGG) PLANT  
WASH PLANT  
READY MIX CONCRETE (RMC) PLANT  
HOT MIX ASPHALT (HMA) PLANT  
EMPLOYEE LAB STORAGE  
WATER STORAGE

**PARKING**  
TOTAL PROVIDED PARKING: 17 SPACES

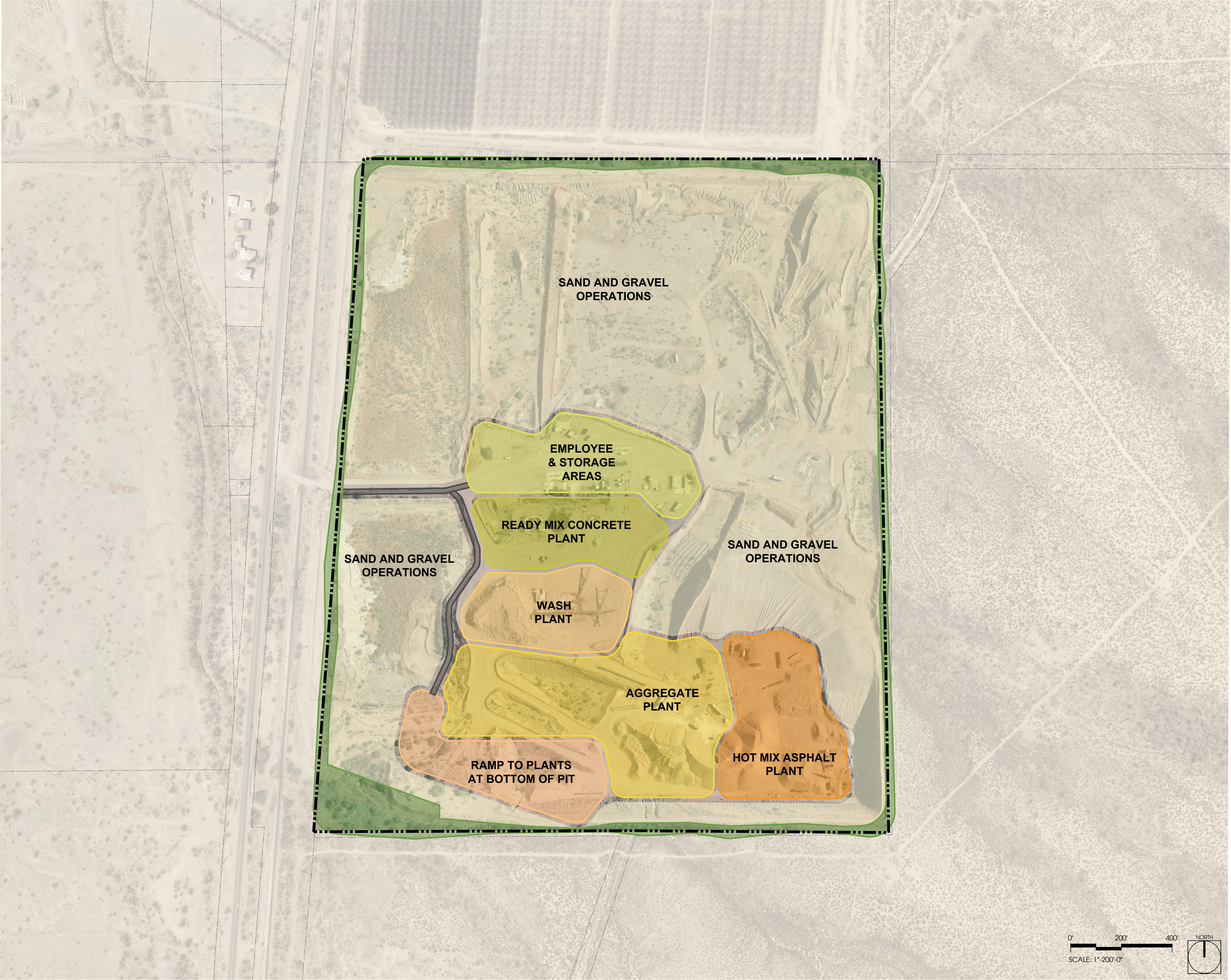
- SIGNIFICANT FEATURES**
- PERIMETER SCREEN BERM ON ALL PROPERTY BOUNDARIES
  - DEFUNCT PONDS (ALONG WESTERN BOUNDARY)
  - SAND AND GRAVEL PIT THROUGHOUT (APPROX 67" DEPTH AT DEEPEST POINT, PRESENTLY)
  - HISTORICAL OLD NOGALES HIGHWAY ONCE RAN THROUGH THE SUBJECT PROPERTY, BUT NOW RUNS ALONG THE WEST SIDE OF THE PROPERTY.

**RECREATION AREA NOTES**  
THIS PROJECT DOES NOT REQUIRE RECREATION AREA

**LANDSCAPE BUFFERYARD NOTES**  
REQUIRED BUFFERYARD AND SCREEN (OLD NOGALES HWY): 10' MIN. BUFFERYARD AND PARKING SCREEN.  
REQUIRED BUFFERYARD AND SCREEN (NORTHERN BOUNDARY): NONE.  
REQUIRED BUFFERYARD (EASTERN BOUNDARY): NONE.  
REQUIRED BUFFERYARD (SOUTHERN BOUNDARY): NONE.

PROVIDED BUFFERYARD AND SCREEN (OLD NOGALES HWY): 10' MIN BUFFERYARD AND EXISTING BERM.  
PROVIDED BUFFERYARD AND SCREEN (NORTHERN BOUNDARY): EXISTING BERM.  
PROVIDED BUFFERYARD (EASTERN BOUNDARY): EXISTING BERM.  
PROVIDED BUFFERYARD (SOUTHERN BOUNDARY): EXISTING BERM.

- LEGEND**
- READY MIX CONCRETE (RMC) PLANT
  - WASH PLANT
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  - HOT MIX ASPHALT (HMA) PLANT
  - RAMP TO PLANTS AT BOTTOM OF PIT
  - EMPLOYEE / STORAGE
  - LANDSCAPE BUFFER
  - SAND & GRAVEL OPERATIONS



# PROPOSED SITE FEATURES

# PROTECTING OUR PEOPLE & COMMUNITY

Safety guides us in everything we do.

## Our commitments

- Prioritizing a safe work culture by recruiting and hiring people who are as committed to safety as we are
- In 2021, we achieved an MSHA/OSHA safety record of 1.01
- More than 94% of our facilities had no lost-time injuries or fatalities in 2021
- MSHA Citation Rate: consistently lower than the Industry



Safety is a core tenet of Vulcan's culture.

We strive to ensure a safe and healthy workplace that also promotes the well-being of our employees, contractors and communities. Our entire organization is committed to ensuring that our people return home as healthy and safe as when they left for work.

Our safety goal is zero accidents and injuries.

# SERVING THE ENVIRONMENT RESPONSIBLY

Stewards of water, land and wildlife.

## Our commitments

- Meets or exceeds local, state and federal requirements
- Preserving and protecting local water resources by recycling water, managing stormwater and utilizing effective dust-control measures
- Vegetated berms and buffer areas surround the site
- Partnering with organizations that share our environmental commitment including Friends of Madera Canyon



We believe responsible, sustainable operations benefit our communities and drive long-term results.

As an industry leader, we meet and strive to exceed environmental regulations. Sustainability for us means going beyond compliance: streamlining operations, improving efficiencies, deploying new technologies and exploring alternative energy sources.

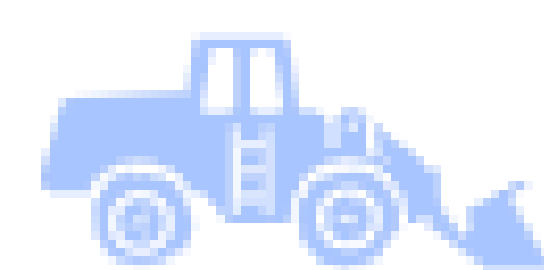
We continue to make progress on reducing our carbon footprint, increasing our energy efficiency, measuring water use, reducing waste and managing our land with biodiversity in mind.

It's the right thing to do for society, for our business and our stakeholders.



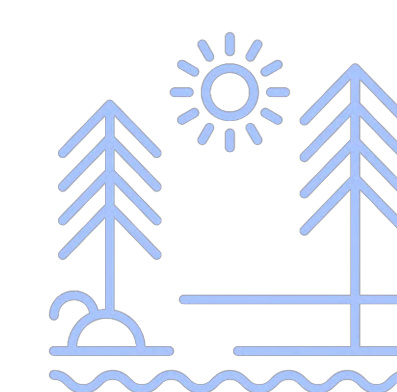
**70%**

Mining Sites That Recycle Water (estimated) 2020



**-90%**

Mobile Equipment Emissions Reduction - Tier 4 vs. Tier 0 Engine



**~6,300+**

Acres in Mitigation Banks & Conservation Easements 2020

ENVIRONMENT

**Vulcan**  
Materials Company  
Green Valley Site

# STRENGTHENING OUR COMMUNITY

## Good neighbors in Pima County.

Throughout our history as a public company, we have been guided by a fundamental belief that we will do well as a company by doing good – for our own people and for the communities where we operate.

This philosophy has been instrumental in our continuing growth and prosperity across our operations.

Our stewardship begins with people, continues with our land and extends outward. We believe that it is essential that we always serve as good citizens who are engaged with our neighbors and the communities in which we operate.



Partnered with Friends of Madera Canyon and other local organizations to restore an eroded slope.



We support the Sahuarita Police Department and the Sahuarita Unified School District by helping to fund the SPD Comfort Dog, Smiley.

### Our commitments

- Supporting local community and civic groups including Desert Club Kiwanis and Friends of Madera Canyon
- Maintaining education partnerships to foster student learning including Sahuarita and Vail Unified School Districts
- Supporting first responders including Sahuarita Police Department
- Partnering with organizations that assist members of the community that are hungry including Greater Vail Community ReSources