

OFFICE OF THE  
ARIZONA STATE MINE INSPECTOR

JOE HART



ONE-HUNDRED and FOURTH  
ANNUAL REPORT  
for the  
CALENDAR YEAR 2015

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ANNUAL MESSAGE FROM  
JOE HART  
ARIZONA STATE MINE INSPECTOR



The Mission of this agency is to ensure the health and safety of people working at mines, coordinate the closure of abandoned mines on state and private land posing a threat to public health and safety, and to ensure that lands used for mining are properly reclaimed for public use once mining is completed.

The State Mine Inspector is a statewide elected constitutional officer and the director of the Office of the State Mine Inspector. The Office of the State Mine Inspector was established by the Constitution of the State of Arizona, Article XIX. This agency enforces statutes, rules, and regulations applicable to mine safety, health, and land reclamation under ARS Title 27 Minerals, Oil and Gas and Arizona Administrative Code Title 11 - Mining.

The agency helps ensure miner safety by inspecting work conditions and practices at active mining operations; investigating mine accidents, employee and public complaints about mine safety; and by conducting federally certified miner and instructor safety training. To protect the public against the dangers of abandoned mines, the agency investigates and inventories abandoned mine sites, evaluates their threat to public health and safety, coordinates securing or closure of those that are found to be dangerous, and promotes public safety regarding abandoned mines by "Stay Out Stay Alive" promotions,

presentations and publications; complaint investigations and mine owner ARS 27-318 compliance notifications. Finally, the agency administers reclamation plans and assurances by enforcing the Mined Land Reclamation laws, rules and regulations for the restoration of disturbed lands to a safe and stable environmental condition.

## **Program Summary**

The Arizona State Mine Inspector's (ASMI) Mine Safety Enforcement Program regulated a total of 615 Health & Safety Mines and Contractors during 2015; 611 of the mining operations and 59 of the contractors were inspected which resulted in a 99% inspection rate on the mine sites. The Arizona Revised Statutes 27-124 requires all active mines be inspected annually. The agencies goal is to have Zero Fatalities and Zero Accidents at Arizona Mines. In 2014 and 2015, No fatal accidents at an active mine were reported or investigated by the Arizona State Mine Inspector's Office. The Arizona NFDL (non-fatal days lost time) rate was 1.3 per 200,000 hours of work and the 2015 National NFDL rate was 1.6 per 200,000 hours of work. The Inspections department issued 643 notices of violations; no cessation orders were required during 2015. ASMI Inspector's investigated 11 employee and citizen complaints, issued 38 mine elevator operating permits and 43 underground diesel equipment operating permits. Mine operations under ASMI's jurisdiction include asphalt hot plants and concrete batch plants on mine properties, aggregate and decorative rock operations, quarries and processing plants; underground and open pit mines, mills, solvent extraction-electro winning plants, smelters, refineries, and rod plants. ASMI also inspects contractor's working at mine sites.

The Education and Training Program certifies MSHA instructors, develops lesson plans, conducts classes, and organizes safety conferences for mine safety education and training. The emphasis is placed on miner's rights and current health and safety regulations in compliance with the Federal Mine Safety and Health Act of 1977, Title 30 CFR, Part 46, 47, 48, 49, 56, 57, 58 and 62.

In addition, mine company employees, contractors, vendors and others who are regularly exposed to mine hazards at mine properties are required to have various levels of training provided by the Education and Training division. During 2015, 2851 certificates were issued to mine workers and contractors for completion of safety courses.

The Abandoned Mines Safety Program efforts fall into two categories; the inventory of abandoned mine sites and the administration of the securing, remediation, and closure of abandoned mines. Field surveys locate mines within the 72,931,840 acres that comprise the State of Arizona. This survey records the exact location of abandoned mines using a global positioning satellite system. The inventory's objective is to produce an accurate count of abandoned mines, and describe the significant safety hazards and potential environmental hazards occurring with them. About 10,000 abandoned mines have been inventoried since the program was initiated in the early 1990's and over 7535 of these have been evaluated and assessed for the risks they may pose. The database of surveyed abandoned mines is used to provide for the prioritization of significant public and environmental hazards for remediation and reclamation planning. The inventory also

allows the agency to accurately investigate public concerns and complaints, about abandoned mines in a timely manner. An abandoned mine might be a risk to public health and safety, but also may be used for criminal activities. The program assists law enforcement investigations of any known or suspected criminal activity. The administration of securing abandoned mines first prioritizes sites listed in the inventory based on the severity of the threat posed to public and environmental safety. Through this prioritization, structures are designed as necessary for abandoned mine closures on state lands. The cost of field construction work to secure these mines is provided by the Abandoned Mine Safety Fund through mining industry donations, private citizen donations, and a matching appropriation from the legislature. The program performs regular monitoring to assure mine closures remain in good condition. The program coordinates identifying and securing abandoned mines with local, state, and federal agencies as well as other states, entities and volunteer groups. Groups include the Yuma County Sheriff's Search and Rescue Group, the Maricopa County Sheriff's Office Mountain Search and Rescue Group, Arizona Geological Survey, Maricopa County Parks, Arizona State Land Department, Arizona Game and Fish, Arizona State Historic Preservation Office, Arizona Department of Environmental Quality, Department of Labor Mine Safety and Health Administration, Bureau of Land Management, U.S. Forest Service, Environmental Protection Agency, Western Governors Association, Bat Conservation International and the National Association of Abandoned Mined Land Programs, which is comprised of 27 states and three Indian Tribes.

The Mined Land Reclamation Program approves or rejects mine reclamation plans and financial assurance mechanisms submitted by all metalliferous mining units, aggregate mine operations, and exploration operations with surface disturbances greater than five acres. Beginning January 2007, aggregate mining operators were required to submit reclamation plans for the first time, increasing the workload in this area by over 250 plans. Annual report submittals and reviews along with on-site inspections of the regulated mines are a part of the continual monitoring process to establish compliance to the Mined Land Reclamation laws, rules and regulations. These inspections will be coordinated with health and safety inspections to ensure an efficient and effective inspection program, working in cooperation with mining companies, consultants, and other state and federal governmental agencies,

Our team of experienced mine safety professionals strive to continually improve programs and services of the Agency so Arizona will be not only a leader in mining production, but in SAFE PRODUCTION as well.

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Arizona State Mine Inspector

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Date

## MINE SAFETY ENFORCEMENT

During the calendar year of 2015, the inspection team performed 670 health and safety inspections, which identified 618 violations of the mining code for corrective actions by the mine operators. No Cessation Orders were issued to mine operators in 2015.

<b>Types of Operations</b>	<b>No. of Inspections</b>	<b>No. of Violations</b>	<b>Average No. of Employees</b>	<b>No. of Mines &amp; (Listed Contractors)</b>
Surface Metal Mines, Mills, SX-EW Plants, Smelters, and Refineries	73	180	8345	51
Rock Products, Sand & Gravel, Pits, Quarries, Batch and Hot Plants	514	379	2460	550
Underground Mines	24	15	133	14
<b>Contractor Totals</b>	59	44	N / A	420
<b>Mine Totals</b>	611			615
<b>TOTALS</b>	<b>670</b>	<b>618</b>	<b>10,938</b>	<b>1035</b>

In addition to mine safety and health inspections, ASMI investigated complaints related to safety and health issues in mines and performed inspections of underground diesel equipment, elevators, and new electrical equipment installed in mines where permits are required.

- Annual Elevator Inspections with Permits Issued 38
- Underground Diesel Equipment with Permits Issued 43
- Citizen Complaints Investigated 9
- Employee Complaints Investigated 1
- Interagency Complaints from referrals 1
- Electrical Equipment Installations 9
- Non Inspection Visits 30
- Cessation Orders Issued 0

Combined efforts of mine operators with the agency’s mine safety enforcement, education and training programs provide significant tools to reduce and control the accident frequency for Arizona’s mining industry. Incident rates from U.S. Department of Labor reports for NFDL (non-fatal days lost time) accidents for metal, non-metal, sand and gravel mines, and mills are shown in the table below. Incident rate is the number of NFDL accidents per 200,000 employee-hours worked.

<b>LTIR / NFDL</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
National Accident Incidence Rate	1.8	1.8	1.7	1.8	1.6
Arizona Accident Incidence Rate	1.8	1.4	1.7	1.3	1.3

**LOST TIME ACCIDENTS IN 2015**

<b>Type</b>	<b>Company</b>	<b>Mine</b>	<b>LT Accidents</b>
<b>Overexertion</b>			
	Asarco, Inc.	Ray	1
	Asarco, Inc.	SilverBell	1
	Freeport McMoran	Bagdad	8
	Freeport McMoran	Morenci	1
	Freeport McMoran	Miami	1
	Freeport McMoran	Safford	2
	Freeport McMoran	Sierrita	2
	Origin Mineral Park	Mineral Park	1
<b>Struck By or Against</b>			
	Asarco, Inc.	Ray	3
	Freeport McMoran	Morenci	1
	Freeport McMoran	Sierrita	1
	Pinto Valley Mining	Pinto Valley Mine	3
	Yuma County	Yuma Portable	1
<b>Contact With or By</b>			

Asarco, Inc.	Ray	1
Asarco, Inc.	SilverBell	1
Far West aka Thorpe	Phoenix Cement	1
Freeport McMoran	Bagdad	1
Freeport McMoran	Miami	1
Freeport McMoran	Morenci	2
Freeport McMoran	Sierrita	1
Pinto Valley Mining	Pinto Valley Mine	1

**Caught On or In or Between**

Drake Cement LLC.	Drake Cement Plant	1
Freeport McMoran	Bagdad	1
Freeport McMoran	Morenci	1
TDAM LLC.	Broken Back	1

**Fall from the Same Level or Below**

Drake Materials	Queen Creek	1
Freeport McMoran	Bagdad	3
Freeport McMoran	Morenci	5
Freeport McMoran	Sierrita	5
Pinto Valley Mining	Pinto Valley Mine	2
Tacna Sand & Gravel	Roll Plant	1

**Exposure or Occupational Illness**

Freeport McMoran	Morenci	2
Freeport McMoran	Sierrita	1
Freeport McMoran	Miami	1

**FATAL ACCIDENTS**

No fatal accidents were reported in 2014 and 2015. This is the first time in Arizona history that we have accomplished two years without a fatality.

The last fatal accident at an Arizona mine site occurred on April 4, 2013.

From 1912 to 2015, Arizona Mines claimed 1,556 lives. 1918 alone cost 93 lives.

1994, 2003, 2014 and 2015 are the only years when Arizona had no fatalities.

## 2015 Operating Mines in Arizona by County

The following pages contain operating mines, plants and smelters considered active in 2015. These figures represent some 615 operating units with over 10,938 workers.

### Registered Mining Companies by County and Type

Apache	Company	Mine / Plant Name	Type	Product
	Alpine Excavation & Construction	Alpine Dump	Aggregate Plant	Aggregates
	Apache County Engineering	Concho Gravel Pit	Aggregate Plant	Aggregates
	Apache County Engineering	Davis Pit / limestone Pit	Open Pit Mine	Aggregates
	Apache County Engineering	Stanford Pit	Screen	Cinders
	C&C Cinders	C&C Cinder Pit	Screen	Cinders
	White Mountain Rock Products	Barth Pit	Aggregate Plant	Aggregates
	White Mountain Rock Products	Richville Pit	Aggregate Plant	Aggregates
	Town of Eager	Eager Cinder Pit	Screen	Cinders
	Hall n Aggregate Trucking & Materials	Hall Pit	Aggregate Plant	Sand & Gravel
	Sug Rogers Construction LLC	Dump Pit #2	Aggregate Plant	Aggregates
	Rusty Wright Enterprises	Alpine Dump Pit	Aggregate Plant	Aggregates
	Spring Mountain Materials	Spring Mountain	Screen	Cinders
Cochise	Company	Mine / Plant Name	Type	Product
	American Rock Products LLC	Johnson Camp	Open Pit Mine	Rip/Rap
	Cemex USA	Plant 229 Sierra Vista	Batch Plant	Concrete
	Cemex USA	Plant 229 Sierra Vista	Aggregate Plant	Aggregates
	Chiricahua Building Supply	Chiricahua Building Supply	Surface	Aggregates

Chiricahua Building Supply Combs Materials,LLC.	Chiricahua Building Supply	Surface	Concrete
Cross Spear Limestone LLC.	Sierra / Vista Pit	Aggregate Plant	Aggregate
Empire Homes, Inc.	Cross Spear Marble	Quarry	Marble
Freeport McMoran Copper & Gold Bisbee	Maya Pit	Surface	Sand & Gravel
Golder Fame (USA) Inc.	Copper Queen	Reclamation	Copper
Granite Construction Company	Gold Ridge (Gold Prince)	Exploration	Gold
Granite Construction Company KE&G	Babocomari Pit	Aggregate Plant	Sand & Gravel
Construction Inc. Klump Ranches LLC	Babocamari Asphalt Plant	Asphalt Plant	Asphalt
Lhoist North America	KE&G Luzena Quarry	Hot Plant	Asphalt
Maddux & Sons, Inc.	Douglas Plant	Aggregate Plant	Lime
Maddux & Sons, Inc.	Leslie Canyon Plant	Quarry	Aggregates
Maddux & Sons, Inc.	Snure Pit	Aggregate Plant	Aggregates
Maddux & Sons, Inc.	Leslie Canyon Batch Plant	Aggregate Plant	Aggregates
Maddux & Sons, Inc.	Bingham Pit	Aggregate Plant	Aggregates
Nord Resources Corp.	Johnson Camp	SX-EW Plant	Copper
Oremus Materials Inc.	Oremus Huachuca	Batch Plant	Concrete
Pearce Precions Minerals	Prospector 3	Surface	Gold & Silver
Samoht Rock & Sand, LLC	Samoht Rock & Sand	Aggregate Plant	Aggregates
St. Cloud Zeolite Strong Hold Redi-Mix	Grace and Cholla Zeolite Mine Grim	Surface Wash Plant	Zeolite- chabazite Sand & Gravel
Strong Hold Redi-Mix	Grim	Batch Plant	Concrete
Texas Canyon Rock & Sand	Texas Canyon	Aggregate Plant	Aggregates
Tombstone Gold and Silver	Emerald Pit	Aggregate Plant	Aggregates
UOP Molecular Sieve	Bowie Operation - EZ &Hat	Open Pit Mine	Chabazite Clay
Willcox Rock & Sand	Riggs Pit	Aggregate Plant	Sand & Gravel

Willcox Rock & Sand	Riggs Pit	Batch Plant	Concrete
Willcox Rock & Sand	Outerspace Pit	Aggregate Plant	Sand & Gravel

<b>Coconino</b>	<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
	A-Rock	Grey Mountain Pit	Aggregate Plant	Sand & Gravel
	Alberto Ayala Company	Ayala Blue Bird	Quarry	Flagstone
	Allen Grantham Arizona Tufflite, Inc.	Grantham Pit	Cinders	Cinders
	Arizona Tufflite, Inc.	White Vulcan & More Sand Mines	Open Pit Mine	Pumice
	Canipe Trucking Cemex USA	Santa Cruz Sheep Hill	Quarry	Flagstone
	Cemex USA	Plant # 337 / Gray Mountain	Open Pit Mine	Cinders
	Cemex USA	UM Plant # 336 Sunset Crater	Aggregate Plant	Aggregates
	Cemex USA	Plant # 337 / Gray Mountain	Aggregate Plant	Sand & Gravel
	Coconino	Wildcat Hill Pit	Batch Plant	Concrete
	Cinders Sales Coconino	Sheep Hill	Open Pit Mine	Cinders
	Coconino County Public Works		Open Pit Mine	Cinders
	Drake Stone	Diamond 7 Red	Quarry	Flagstone
	Drake Stone	Diamond 7 Oak	Quarry	Flagstone
	Dunbar Stone	Roeder Quarry / Redbird Quarry	Quarry	Flagstone
	Dunbar Stone	Armstrong Rose	Quarry	Flagstone
	Dunbar Stone	Yellow Buck Quarry-Ash Fork	Quarry	Flagstone
	Dunbar Stone	Blue Moon/Mattahorn	Quarry	Flagstone
	Dunbar Stone	Corva Canyon	Quarry	Flagstone
	Energy Fuels Resources (USA) Inc.	Canyon Mine	Underground	Uranium
	Espee Cinder Pit	Perrin Pit	Quarry	Cinders
	Fann dba Q-Max Co.	Red Lake Quarry	Aggregate Plant	Sand & Gravel
	Flagstaff Concrete Products, LLC.	Fisher Pit 1A & A1	Open Pit Mine	Sand & Gravel
	Hammond Wholesale Flagstone	Perez	Quarry	Flagstone
	Hammond Wholesale Flagstone	Hammond Stone Mountain Quarry	Quarry	Flagstone
	Harley Gray Stone	Appletree Quarries-Drake	Quarry	Flagstone
	Harley Gray Stone	Oak Quarry	Quarry	Flagstone
	Harley Gray Stone	Mills Quarry	Quarry	Flagstone

Howard Gray Stone	Million \$ Buff / Rosa	Quarry	Flagstone
LP's Excavating	LP's Cinders	Quarry	Cinders
Miller Mining	Miller Pit	Open Pit	Cinders
Northern Arizona Materials	Brothers Mine	Open Pit	Cinders
Pryor Clinger Properties, LLC	Kincanon One Pit	Open Pit Mine	Sand & Gravel
Recyclable Resources Inc.	Monterola Quarry	Surface	Aggregates
Red Pit Inc.	Red Pit	Open Pit	Cinders
Star Stone Quarries aka American Stone	Crookton / Stone Mountain	Quarry	Flagstone
Superlite Block	Darling/Winona	Open Pit Mine	Cinders
Vulcan Materials	Gray Mountain Plant	Hot Plant	Asphalt

<b>Gila</b>	<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
	ASARCO, Inc	ASARCO Mine Hayden	Surface	Copper
	ASARCO, Inc.	Hayden Concentrator	Mill	Copper
	ASARCO, Inc.	Hayden Smelter	Smelter	Copper
	BHP Copper, Inc.	Miami Operations	SX-EW Plant	Copper
	Carlota Copper Company.	Carlota Copper Company	Surface	Copper
	Cemex	Globe Plant 601	Aggregate Plant	Aggregates
	Cemex	Globe Plant # 601 / Nugget Pit	Aggregate Plant	Sand & Gravel
	Cemex	Globe Batch Plant 601	Batch Plant	Concrete
	Freeport	Rod Plant	Rod Plant	Copper
	McMoran			
	Copper & Gold			
	Miami			
	Freeport	Smelter	Smelter	Copper
	McMoran			
	Copper & Gold			
	Miami			
	Freeport	Mine, SX/Tankhouse	SX-EW Plant	Copper
	McMoran Miami, Inc.			
	Gila Concrete LLC.	Slate Creek Pit	Aggregate Plant	Decorative Stone
	Goat Creek Mining	Goat Creek Star Valley	Aggregate Plant	Decorative Stone
	Hunt Materials	Hunt Pit	Aggregate Plant	Aggregates
	Hunt Materials	Young Batch Plant	Batch Plant	Concrete
	Kessen & Kessen Inc.	Lime Quarry	Crushing & Screening	Rip/Rap
	Payson Concrete & Materials	Red Select Quarry	Aggregate Plant	Aggregates

Payson Concrete & Materials	Payson Plant	Aggregate Plant	Aggregates
Payson Concrete & Materials	Tonto Basin Pit	Aggregate Plant	Aggregates
Payson Concrete & Materials	Tonto Basin Batch Plant	Batch Plant	Concrete
Payson Concrete & Materials	Payson Batch Plant	Batch Plant	Concrete
Payson Concrete & Materials	Payson Hot Plant	Hot Plant	Asphalt
R & H Boulders	R & H Mine	Screening Plant	Decorative Stone
Star Valley Granite	Star Valley Granite	Aggregate Plant	Decorative Stone

<b>Graham</b>	<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
	Brimhall Sand Rock & Building Materials	Bryce Rocky Field	Aggregate Plant	Aggregates
	CKC Construction	Airport Pit	Aggregate Plant	Sand & Gravel
	CKC Construction	Airport Batch Plant	Batch Plant	Concrete
	CKC Construction	Airport Hot Plant	Hot Plant	Asphalt
	Freeport McMoran Copper & Gold Safford	FMI Safford Operations	Open Pit	Copper
	J. T. S. Construction I	Daley Pit	Aggregate	Sand & Gravel
	Korwin Inc.	One Track	Open Pit	Sand & Gravel
	Tri County Materials	Morris Pit # 1	Aggregate Plant	Aggregates
	Tri County Materials	Morris Pit #1 Safford	Hot Plant	Asphalt
	Tri County Materials	Safford Batch Plant	Batch Plant	Concrete

<b>Greenlee</b>	<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
	Freeport McMoran	Morenci Mine	Open Pit	Copper
	Morenci Greenlee County	Viriden Pit	Aggregate Plant	Sand & Gravel
	Oakcreek Sand & Gravel	Old Viriden Highway Pit	Aggregate Plant	Aggregates

	TDAM LLC	Broken Back Mine	Surface	Gold
<b>La Paz</b>	<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
	Bonanza Explorations Inc.	Copperstone Mine	Underground	Gold
	Golconda Mine, LLC	Golconda Mine	Underground	Gold
	James Dunn La Paz County Public Works	Red Cloud Vicksburg Pit	Underground Aggregate Plant	Wulfenite Aggregates
	La Paz County Public Works	Cibola Pit	Aggregate Plant	Aggregates
	Mineral Aggregate Recycling Service	Ehrenberg Wash Pit	Aggregate Plant	Aggregates
	Murphy Landscaping dba Rio Del Monte	Rio Del Monte Mine	Aggregate Plant	Decorative Stone
	Pioneer Landscaping Materials	Quartzsite Pit	Aggregate Plant	Decorative Stone
<b>Maricopa</b>	<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
	ABC Sand & Rock	Camelback Road Pit	Aggregate Plant	Sand & Gravel
	ABC Sand & Rock Co., Inc.	ABC Plant #2	Surface	Sand & Gravel
	American Materials Group LLC	Glendale Plant	Batch Plant	Concrete
	American Sand & Rock	Cat Claw Mine	Aggregate Plant	Decorative Stone
	Arizona Materials LLC.	Plant #4 - Buckeye Plant	Surface	Sand & Gravel
	Arizona Materials LLC.	Plant #4 - Buckeye Batch Plant	Batch Plant	Concrete
	Arizona Materials LLC.	Plant # 7 Glendale	Cement Plant	Concrete
	Arizona Materials LLC.	Plant #6 Hatfield	Batch Plant	Concrete
	Arizona Materials, LLC.	Batch plant # 1 - 43rd Ave. & Lower Buckeye	Batch Plant	Concrete
	Arizona Materials, LLC.	Plant # 1 - 43rd Ave. & Lower Buckeye	Aggregate Plant	Aggregates
	Arizona Metro Mix	Plant 2- Glendale	Batch Plant	Concrete
	Arizona Metro Mix	Tolleson	Batch Plant	Concrete
	Aztec Mining	Anchor Bay Pit	Aggregate Plant	Aggregates

Cal Mat Co dba Vulcan Materials	Plant 5225 Vulcan Materials	Hot Plant	Asphalt
Cal Mat Co dba Vulcan Materials	Gomez	Hot Plant	Asphalt
Cal Mat Co dba Vulcan Materials	Val Vista- Citrus Grove	Aggregate Plant	Aggregates
Cal Mat Co dba Vulcan Materials	Avondale Plant	Aggregate Plant	Aggregates
Cal Mat Co dba Vulcan Materials	West Plant	Aggregate Plant	Aggregates
Cal Mat Co dba Vulcan Materials	West Plant	Hot Plant	Asphalt
Cal Mat Co dba Vulcan Materials	West Broadway	Aggregate Plant	Aggregates
Cal Mat Co dba Vulcan Materials	West Broadway	Hot Plant	Asphalt
Cal Mat Co dba Vulcan Materials	Sun City	Aggregate Plant	Aggregates
Calportland	43rd Ave / Batch Plant	Batch Plant	Concrete
CalPortland	Beardsley Batch Plant	Batch Plant	Concrete
Calportland	Sun City	Batch Plant	Concrete
CalPortland	Val Vista Ready Mix	Batch Plant	Concrete
Calportland	Higley	Batch Plant	Concrete
CalPortland	Glendale	Batch Plant	Concrete
CalPortland	Sun City	Batch Plant	Concrete
Calportland	Deer Valley Batch Plant	Batch Plant	Concrete
CalPortland	Bullard Mine	Aggregate Plant	Aggregates
CalPortland	Bullard Batch Plant	Batch Plant	Concrete
Cemex	Glendale Plant	Aggregate Plant	Aggregates
Cemex	Glendale Plant	Batch Plant	Concrete
Cemex	19th Ave. & Gomez Batch Plant	Batch Plant	Concrete
Cemex	19th Ave & Gomez Pit	Aggregate Plant	Aggregates
Cemex	West Valley Plant #1371	Aggregate Plant	Sand & Gravel
Cemex	Bard Ranch Batch Plant #4107	Batch Plant	Concrete
Cemex	El Mirage Plant	Batch Plant	Concrete
Cemex	59th Avenue	Aggregate Plant	Sand & Gravel
Cemex	107th Ave. Plant 146	Aggregate Plant	Sand & Gravel
Cemex	El Mirage Plant	Aggregate Plant	Aggregates
Cemex	107th Ave. Asphalt Plant	Hot Plant	Asphalt
Cemex	Bard Ranch	Aggregate Plant	Sand & Gravel
Cemex	Table Mesa Plant	Aggregate Plant	Decorative Stone
Cemex	Bard Ranch Batch Plant #1995	Batch Plant	Concrete
Cemex	Sun City Plant, #4118	Aggregate Plant	Sand & Gravel
Cemex	Sun City Batch Plant	Batch Plant	Concrete
Cemex	Glendale Pit #112	Aggregate Plant	Sand & Gravel

Cemex	West Plant # 40311	Aggregate Plant	Sand & Gravel
Cemex	Jomax Plant	Aggregate Plant	Aggregates
Cemex	Lehi Plant # 76	Aggregate Plant	Sand & Gravel
Cemex	El Mirage	Aggregate Plant	Aggregates
Circle H Sand and Rock	Circle H Sand and Rock	Aggregate Plant	Sand & Gravel
Custom Landscape Materials	Bighorn Pit	Aggregate Plant	Decorative Stone
Custom Landscape Materials	Belmont Pit	Aggregate Plant	Decorative Stone
Custom Landscape Materials	Miller North	Open Pit Mine	Aggregates
Damavand Trading LLC.	51st Avenue	Aggregate Plant	Aggregates
Diamondback Materials	Diamondback Materials	Ready Mix	Concrete
Drake Materials	Avondale Batch Plant	Batch Plant	Concrete
Drake Materials	Gila Bend	Wash Plant	Sand & Gravel
Drake Materials	Gila Bend	Batch Plant	Concrete
Drake Materials	Higley	Aggregate Plant	Sand & Gravel
Drake Materials	Glendale Wash Plant	Aggregate Plant	Sand & Gravel
Drake Materials	Sun City Plant	Batch Plant	Concrete
Fisher Sand & Gravel Co.	28th Street Plant	Aggregate Plant	Aggregates
Fisher Sand & Gravel, Inc	15th Ave Pit	Surface	Sand & Gravel
Granite Express	Berkley Pit/Pit #2	Aggregate Plant	Decorative Stone
Hanson Aggregates	51 st Ave Pit / Plant #35	Aggregate Plant	Aggregates
Hanson Aggregates	Agua Fria Plant / River Ranch, #40	Aggregate Plant	Sand & Gravel
Hanson Aggregates	Plant # 46 Hasayampa	Aggregate Plant	Aggregates
Hanson Aggregates	51 st Ave Pit / Batch Plant #35	Batch Plant	Concrete
Hanson Aggregates	Agua Fria Plant / River Ranch, #40	Batch Plant	Concrete
Hanson Aggregates	51 st Ave Pit / Hot Plant #35	Hot Plant	Asphalt
Hanson Aggregates	67th Ave Plant	Surface	Concrete
Hanson Aggregates	San Domingo Pit / Wickenburg	Aggregate Plant	Aggregates
Hanson Aggregates	San Domingo Batch Plant / Wickenburg	Batch Plant	Concrete

Hanson Aggregates	Sun City Batch Plant #33	Batch Plant	Concrete
Jakes Granite Supllies, LLC.	New River	Decorative Stone	Decorative Stone
Jay's Mining	Jay's Mining	Surface	Sand & Gravel
Kiewit Infrastructure West Co.	Gillespie Hot Plant	Hot Plant	Asphalt
Kiewit Infrastructure West Co.	Gillespie #02	Aggregate Plant	Sand & Gravel
Kiewit Infrastructure West Co.	Sun City Plant # 01	Aggregate Plant	Sand & Gravel
Kilauea Crushers Inc.	Estrella North & South	Aggregate Plant	Aggregates
Kilauea Crushers	Picacho Mine	Aggregate Plant	Granite/Decorative Stone
Kilauea Crushers, Inc.	Buckeye Hills Plant	Surface	Aggregates
Lafarge N. America	Sun City	Surface	Sand & Gravel
M.R. Tanner Mining, Inc.	West Side Pit Mine	Crush & Screen	Aggregates
Madison Granite	Madison Granite Pit	Aggregate Plant	Granite/Decorative Stone
Mobile Mix	Granite Reef Dam	Surface	Sand & Gravel
Morton Salt, K+S	Glendale	In-Situ	Salt
Paloma Ready Mix and Materials	Old 80 Main Plant	Surface	Sand & Gravel
Phoenix San Man	Sun City Plant # 12 & 15	Aggregate Plant	Aggregates
Phoenix San Man	Phoenix San Man Plant # 10	Aggregate Plant	Sand & Gravel
Pioneer Landscaping Materials	ABC Pit	Aggregate Plant	Sand & Gravel
Pioneer Sand Company	Pioneer Hassayampa	Aggregate Plant	Sand & Gravel
Red Mountain Mining	Red Mountain Quarry	Aggregate Plant	Decorative Stone
Reserve Bank Rinker Materials Western Inc. (CEMEX)	Reserve Bank Hassayampa	Underground Aggregate Plant	Copper Sand & Gravel
Rinker Materials, Inc.	UM Plant 108 / 115th & Beardsley	Batch Plant	Concrete
Rock Solid, Inc	Peoria Plant	Batch Plant	Concrete
Rock Solid, Inc	LaFarge Sun City Plant	Batch Plant	Concrete
Rock Solid, Inc.	Plant 6	Batch Plant	Concrete
Rowley Mine	Graham	Underground	Wulfenite Crystals
Salt River Material	Buckeye Plant	Aggregate Plant	Sand & Gravel
Salt River Materials	67th Ave Plant	Surface	Sand & Gravel

Salt River Materials Group	Olive Ave	Aggregate Plant	Sand & Gravel
Salt River Materials Group	Glendale Plant	Aggregate Plant	Sand & Gravel
South West Sand & Gravel, Inc.	South West Sand & Gravel Pit	Aggregate Plant	Aggregates
Southland Well Drilling	Desert Crystal	Screening Plant	Aggregates
Sun Land Materials	Laveen	Aggregate Plant	Sand & Gravel
Superstition Crushing	Deer Valley Plant	Aggregate Plant	Aggregates
Trio Aggregate Haulers LLC.	Western Aggregates	Surface	Aggregates
Vulcan Materials	Val Vista- Citrus Grove	Aggregate Plant	Aggregates
Vulcan Materials	Peoria	Aggregate Plant	Aggregates
Vulcan Materials	Avondale Plant	Aggregate Plant	Aggregates
Vulcan Materials	Avondale Hot Plant	Hot Plant	Asphalt
Vulcan Materials	Peoria	Hot Plant	Asphalt
Vulcan Materials	Plant 24-- Litchfield Batch Plant	Batch Plant	Concrete
Vulcan Materials	Plant 24-- Aggregate	Aggregate Plant	Sand & Gravel
Vulcan Materials	West Plant	Aggregate Plant	Sand & Gravel
Vulcan Materials	West Plant / Hot Plant	Hot Plant	Asphalt
Vulcan Materials	Val Vista / Citrus	Hot Plant	Asphalt
Vulcan Materials	Glendale Plant	Hot Plant	Asphalt
Vulcan Materials, dba Calmat Co.	Plant 12 - Sun City	Aggregate Plant	Aggregates
Vulcan Materials, dba Calmat Co.	Plant 12 - Sun City	Hot Plant	Asphalt
Vulcan Materials	Sun Plant 2	Aggregate Plant	Aggregate
Vulture Mining Company	New Vulture	Placer	Gold
Vulture Peak Gold Inc.	Vulture Mine	Exploration	Gold
West Coast Aggregate	West Coast Aggregate	Aggregate Plant	Sand & Gravel
Western Aggregates LLC.	Plant 41	Aggregate Plant	Sand & Gravel
Wickenburg Holding Group Corp.	Red Sand Silica	Surface	Sand & Gravel

<b>Mohave</b>	<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
	2 Arrows Construction	Mountain Vista Aggregate	Surface	Aggregates

C.S. McCrossan	Lake Havasu Pit	Aggregate Plant	Aggregates
C.S. McCrossan dba Mineral Park Materials	Cedar Hills	Aggregate Plant	Decorative Stone
C.S. McCrossan dba Mineral Park Materials	Canyon	Aggregate Plant	Decorative Stone
Cemex USA	Bullhead City Pit, #1473	Aggregate Plant	Aggregates
Cemex USA	Bullhead City Batch Plant, 1981	Batch Plant	Concrete
Chase Crushing aka Vista	White Hills	Aggregate Plant	Decorative Stone
Chase Crushing aka Vista	Regal Mist	Aggregate Plant	Decorative Stone
City of Bullhead	Portable Powerscreen	Aggregate Plant	Aggregates
Continental Golf & Construction	Beaver Dam Plant	Aggregate Plant	Sand & Gravel
Colorado City D & R	Colorado City D & R Ecavating Materials Pit	Screen Plant	Sand & Gravel
Excavating D. L. Campbell	Sand Pit Road	Aggregate Plant	Aggregates
D. L. Campbell	Sand Pit Hot Plant	Hot Plant	Asphalt
D. L. Campbell	Airport Pit	Aggregate Plant	Sand & Gravel
D.L. Campbell Company	Hackberry	Aggregate Plant	Sand & Gravel
Daryll Lynnes	Rising Fawn	Surface	Gold & Silver
Dayton Lundy Rock	Dayton Lundy Rock Pit # 1	Aggregate Plant	Decorative Stone
Dayton Lundy Rock	Dayton Lundy Rock Pit # 2	Aggregate Plant	Decorative Stone
Desert Construction	Hualapai Pit - Roslynn Rd. Pit	Aggregate Plant	Aggregates
Desert Construction	Hualapai Hot Plant	Hot Plant	Asphalt
Desert Construction	Wash & Screen Plant	Aggregate Plant	Aggregates
Desert Construction	Batch Plant	Batch Plant	Concrete
Dunbar Stone Energy Fuels Resources (USA) Inc.	Hualapai Chocolate Pinenut	Quarry Underground Mine	Flagstone Uranium
Energy Fuels Resources (USA) Inc.	Arizona # 1	Underground Mine	Uranium
Eureka Mining	Havasu Rose	Aggregate Plant	Decorative Stone
Freiday Construction	Rattlesnake Wash Pit	Aggregate Plant	Aggregates
Golden Valley Rock & Materials LLC	Golden Valley	Aggregate Plant	Aggregates

Golden Vertex Corporation	Moss Mine	Exploration	Gold
Grand Wash Excavating, Inc.	Meadview Portable # 1	Aggregate Plant	Sand & Gravel
Hondo Minerals Inc.	Tennessee Mine	Placer	Gold & Silver
JDI Enterprises	DW Ranch Road Pit	Aggregate Plant	Sand & Gravel
JDM Sand & Rock	Little Cedar	Aggregate Plant	Sand & Gravel
JP Project LLC fka GY Minerals	GY Mine/Pinkham	Surface	Gold
Kalamazoo Materials	Chloride Pit	Aggregate Plant	Decorative Stone
Kalamazoo Materials	White Hills Mine	Aggregate Plant	Decorative Stone
Kalamazoo Materials	New Valentine Pit	Aggregate Plant	Decorative Stone
Kingman Turquoise	Mineral Park	Crush & Screen	Turquoise
Lhoist North America dba Chemical Lime	Nelson Plant	Quarry	Lime
McCall Construction	McCall Pit	Aggregate Plant	Aggregates
McCormick Construction	McCormick Pit / Rio Lomas III	Aggregate Plant	Sand & Gravel
McCormick Construction	Mc Connico Pit / Drake Pit	Aggregate Plant	Aggregates
McCormick Construction	Mc Connico Hot Plant	Aggregate Plant	Aggregates
Origin Mining Company	Mineral Park	Open Pit Mine	Copper
OZ Rock	OZ Rock	Aggregate Plant	Aggregates
Precision Aggregate Products LLC	Portable	Sand & Gravel	Aggregates
Resources Mining, Inc.	Double "E" Mining Operation	Surface	Gold
S & S Concrete and Materials	Pass Canyon Batch Plant	Batch Plant	Concrete
S & S Concrete Materials	Pass Canyon	Aggregate Plant	Sand & Gravel
Sierra Resource Group Inc.	Emerald Isle Mine	Open Pit Mine	Copper
Silmar of Arizona LLC.	Excelisor	Mill	Gold & Silver
Statewide Excavation	London Bridge Road Pit	Screening Plant	Aggregates
Sunshine Concrete & Materials, Inc	Mc Connico Pit / Kingman Plant	Aggregate Plant	Aggregates
The Silver Queen Mine LLC	Silver Queen	Underground Mine	Silver

	Western Mining and Minerals Inc.	Black Rock	Quarry	Gypsum
	White Water Mining LLC	Gold Remedy	Surface	Gold
<b>Navajo</b>	<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
	Arrowzona Stone Works & Mining	NIZ Quarry	Surface	Sandstone
	Brimhall Sand Rock & Building Materials	Winslow Pit	Aggregate Plant	Aggregates
	Brimhall Sand, Rock & Building Materials	Geronimo Sand Pit	Surface	Sand, Industrial
	Brimhall Sand, Rock & Building Materials	Hardluck	Aggregate Plant	Aggregates
	Brimhall Sand, Rock & Building Materials	Joe's Pit	Surface	Aggregates
	Brimhall Sand, Rock & Building Materials	Cooley Knoll Cinder Pit	Surface	Cinders
	Brimhall Sand, Rock & Building Materials	Cottonwood Wash / Rim Rock	Aggregate Plant	Sand & Gravel
	Brimhall Sand, Rock & Building Materials	Decker Plant	Aggregate Plant	Sand & Gravel
	Brimhall Sand, Rock & Building Materials	Decker Hot Plant	Hot Plant	Asphalt
	Cholla Ready Mix	Perkins Valley Pit	Aggregate Plant	Aggregates
	Cholla Ready Mix, Inc.	Woodruff Butte	Aggregate Plant	Aggregates
	Hatch Construction & Paving Inc	Flake Pit	Open Pit Mine	Aggregates
	Hatch Construction & Paving, Inc.	Four Mile Pit	Aggregate Plant	Aggregates
	Hatch Construction & Paving, Inc.	Four Mile Batch Plant	Batch Plant	Concrete
	Hatch Construction & Paving, Inc.	Four Mile Hot Plant	Hot Plant	Asphalt
	McCauley's Dyna Rock & Sand	Minnetonka	Aggregate Plant	Aggregates

McCauley's Dyna Rock & Sand	Chevelon	Aggregate Plant	Aggregates
Navajo County Perkins Cinder Company	First Knoll Cinder Pit Owens Pit	Cinders Open Pit Mine	Cinders Cinders
Perkins Cinder Company	Turly Pit	Open Pit Mine	Aggregates
Perkins Cinders Quality Ready Mix aka Cemex	Taylor Pit Brimhall Cottonwood Operation	Surface Batch Plant	Cinders Concrete
Reidhead Sand & Rock	Reidhead Sand & Rock	Aggregate Plant	Aggregates
Reidhead Sand & Rock	Batch Plant	Batch Plant	Concrete
Southwestern Stone Company	Gold Quarry	Quarry	Flagstone
Surface Contracting, Inc.	Brimhall Hardluck Operation	Hot Plant	Asphalt
Thirsty Stone Resources	HTH1 Quarry	Quarry	Sandstone
Western Materials	Western Materials Site #1	Surface	Cinders
Winslow Ready Mix	Minnetonka	Batch Plant	Concrete

<b>Pima</b>	<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
	Asarco Silver Bell Mining ASARCO, Inc.	Silver Bell Mine Mission Unit	Open Pit Mine Open Pit Mine	Copper Copper
	Bray Construction	Hayhook Ranch Pit	Surface	Aggregates
	Cal Portland dba Twin Peaks Rock & Stone California	Twin Peaks Rock & Stone Granite/Tangerine Plant	Aggregate Plant Batch Plant	Sand & Gravel Concrete
	Portland Cement California	Orange Grove Plant	Aggregate Plant	Sand & Gravel
	Portland Cement California	Orange Grove Plant	Batch Plant	Concrete
	Portland Cement California	Orange Grove Plant	Hot Plant	Asphalt
	Portland Cement California	Swan Batch Plant	Batch Plant	Concrete
	CalPortland Company fka Arizona Portland Cement	Rillito Mill	Cement Plant	Cement/Lime
	CalPortland Company fka Arizona Portland Cement	Rillito Quarry	Quarry	Limestone

Cemex USA	Apex Plant # 22	Aggregate Plant	Sand & Gravel
Cemex USA	Pima Plant # 17	Aggregate Plant	Sand & Gravel
Cemex USA	Pima Mine Plant # 121	Batch Plant	Concrete
Cemex USA	Apex Plant # 12	Batch Plant	Concrete
Churchman Sand & Gravel	River Road	Aggregate Plant	Sand & Gravel
Clay Mine Adobe Inc.	Avra Road Plant	Surface	Clay Adobe
Downey, LA & Sons	Downey Sand & Gravel Pit	Aggregate Plant	Sand & Gravel
Freeport McMoran Copper & Gold Ajo	New Cornelia Branch	Open Pit Mine	Copper
Freeport McMoran Copper & Gold Sierrita	Sierrita Open Pit	Open Pit Mine	Copper
Granite Construction Company	Swan Road Pit	Aggregate Plant	Aggregates
Granite Construction Company	Tangerine Pit	Aggregate Plant	Aggregates
Granite Construction Company	Swan Road Pit	Hot Plant	Asphalt
Granite Construction Company	Tangerine Pit	Hot Plant	Asphalt
Imerys Marble Jim Bush Sand & Gravel	Santa Rita Mine Jim Bush	Quarry Aggregate Plant	Limestone Aggregates
Kalamazoo Materials, Inc. aka Able Earth	Silverbell	Aggregate Plant	Decorative Stone
Lamb Rock Minerals Research & Recovery, Inc.	Lamb Rock- Wentworth Ajo Plant	Reclamation Aggregate Plant	Rip/Rap Slag
Oracle Ridge Mining LLC	Oracle Ridge Mine	Underground Mine	Copper
Oremus Material Inc.	Avra Valley	Batch Plant	Concrete
Phoenix Brick Yard	Pantano, North & South Clay Pits	Open Pit Mine	Clay
Pioneer Landscaping Materials	Waterman Pit	Aggregate Plant	Decorative Stone
Rosemont Copper Company	Rosemont Copper Project	Surface	Copper

Sandstorm Materials	Sandstorm Materials	Surface	Sand & Gravel
Sierra Mining & Crushing	Hughes Sand & Gravel Pit	Aggregate Plant	Sand & Gravel
SKM Mining & Materials, Inc.	Pantano Plant	Open Pit Mine	Aggregates
Southwest Mining & Development	Linda Vista 1	Screening Plant	Aggregates
University of Arizona	San Xavier Mining Laboratory	Miner Training Lab	Training
Vulcan Materials	Black Angus	Hot Plant	Asphalt
Vulcan Materials	Poorman Road	Batch Plant	Concrete
Vulcan Materials	Green Valley	Aggregate Plant	Aggregates
Vulcan Materials	Green Valley	Batch Plant	Concret
Vulcan Materials	Ina Pit	Aggregate Plant	Aggregates
Vulcan Materials	Ina Batch	Batch Plant	Concrete
Vulcan Materials	Marana	Hot Plant	Asphalt

<b>Pinal</b>	<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
	79 Minerals LLC	79 Mine	Underground Mine	Gemstones
	Albo Guzman Trucking	Albo Guzman Sand & Gravel	Aggregate Plant	Sand & Gravel
	Arizona Materials	Plant #2 Queen Creek	Batch Plant	Concrete
	Arizona Materials	Plant #8 Florence	Batch Plant	Concrete
	Arizona Metro Mix	Arizona Metro Mix # 1	Batch Plant	Concrete
	ASARCO, Inc.	Ray Operations	Open Pit Mine	Copper
	CalPortland dba Vulcan Materials	Coolidge Hot Plant	Hot Plant	Asphalt
	CalPortland Company	Coolidge Batch Plant	Batch Plant	Concrete
	CalPortland Company	Coolidge .	Aggregate Plant	Sand & Gravel
	CalPortland Company	Diablo	Aggregate Plant	Sand & Gravel
	CalPortland Company	Queen Creek	Batch Plant	Concrete
	Cemex USA	UM Plant 449 Casa Grande	Batch Plant	Concrete
	Cemex USA	UM Plant 449 Casa Grande	Aggregate Plant	Aggregates
	Cemex USA	UM Plant 449 Casa Grande	Hot Plant	Asphalt
	Cemex USA	Plant # 142, Queen Creek	Aggregate Plant	Aggregates
	Cemex USA	Queen Creek Plant 406	Aggregate Plant	Sand & Gravel
	Cemex USA	Queen Creek Plant 65	Batch Plant	Concrete

Cemex USA	Coolidge Plant	Aggregate Plant	Sand & Gravel
Cemex USA	Plant # 142, Queen Creek	Batch Plant	Concrete
Cemex USA	Coolidge Plant	Batch Plant	Concrete
Core Ready Mix	Queen Creek	Batch Plant	Concrete
Decorative Rock Sales	Little Hill Mine	Decorative Stone	Decorative Stone
Drake	Queen Creek Plant	Batch Plant	Concrete
Fisher Sand & Gravel, Inc.	Florence Pit	Surface	Sand & Gravel
Fisher Sand & Gravel, Inc.	Florence Pit	Hot Plant	Asphalt
Gila Rock Products, LLC	Reymert - Superior	Aggregate Plant	Decorative Stone
Granite Express	Big Nob Pit 3	Aggregate Plant	Decorative Stone
Granite Express LLC	Pit 1	Surface	
Hanson Aggregates	Queen Creek Plant 42	Aggregate Plant	Sand & Gravel
Hanson Aggregates	Queen Creek Batch Plant 42	Batch Plant	Concrete
Hanson Aggregates	Coolidge Plant # 65	Aggregate Plant	Sand & Gravel
Hanson Aggregates	Coolidge	Batch Plant	Concrete
Imerys Perlite USA, Inc	Harborlite Mine/Mill	Open Pit Mine	Perlite
Kalamazoo Materials	Durham Hills Quarry	Aggregate Plant	Aggregates
Kalamazoo Materials	Bonito	Aggregate Plant	Decorative Stone
Kalamazoo Materials	New Superior Pit	Aggregate Plant	Aggregates
Kalamazoo Materials	Old Superior Pit	Aggregate Plant	Aggregates
Kiewit Infrastructure West Co.	Casa Grande Plant 07	Surface	Sand & Gravel
Kiewit Infrastructure West Co.	Florence Plant #3	Aggregate Plant	
Kiewit Infrastructure West Co.	Florence Plant #3	Hot Plant	Asphalt
M.R. Tanner Mining Inc.	Queen Creek Pit Mine	Aggregate Plant	
M.R. Tanner Mining, Inc.	Rankin Pit Mine	Crush & Screen	Aggregates
National Gypsum	Feldman	Open Pit Mine	Gypsum
Old Wasp Mine OMYA CA, Inc.	Old Wasp Mine Omya Az.	Surface Quarry	Gold & Silver Marble
P & P Materials LLC	P & P Materials	Aggregate Plant	Aggregates

Pinal Gypsum	White Cross Mine	Open Pit Mine	Gypsum
Pioneer Sand	San Tan Pit	Aggregate Plant	Aggregates
PR Gypsum, LLC	Winkleman / Superior Plant 546	Surface	Aggregates
Red Hills Mining LLC	Red Hills Quarry	Aggregate Plant	Decorative Stone
Resolution Copper Mining, LLC	Superior Magma Mine	Underground Mine	Copper
Ringo Canyon Granite	Ringo Canyon	Aggregate Plant	Aggregates
Rinker Materials, Inc.	UM Plant 1975	Batch Plant	Concrete
Rinker Materials, Inc.	UM Plant 46 17685 N. Tanner Road	Aggregate Plant	Sand & Gravel
Silver King Mining, LLC	Silver King Mine	Underground Mine	Silver
Smithco Enterprises	Bobbit Pit	Open Pit Mine	Aggregates
Southwest Rock Products	Queen Creek / Plant 1 & 2	Aggregate Plant	Aggregates
Southwest Rock Products	Coolidge Plant 1 & 2	Aggregate Plant	Sand & Gravel
St. Cloud Mining Co. dba White Cliffs Mining	White Cliffs	Open Pit Mine	Diatomite
T D Martin Group LLC	Pit # 525	Wash Plant	Sand, Industrial
Tee Pee Sand & Gravel	Tee Pee	Aggregate Plant	Sand & Gravel
The Ashton Company	Old Montgomery Pit - Casa Grande	Surface	Aggregates
Treasure Chest Mining	Treasure Chest Pit	Aggregate Plant	Decorative Stone
Vulcan Materials	Queen Creek	Hot Plant	Asphalt
Vulcan Materials	Queen Creek	Aggregate Plant	Aggregates

**Santa Cruz**

<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
California Portland Cement	Rio Rico Batch Plant	Batch Plant	Concrete
California Portland Cement	Rio Rico Plant	Aggregate Plant	Aggregates
Collins Excavating dba Rio Rico Rock & Sand	Rio Rico Plant	Aggregate Plant	Aggregates
GRG Construction Inc.	GRG Santa Cruz # 1	Aggregate Plant	Aggregates

**Yavapai**

<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
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APS Asphalt Paving and Supply	Prescott Valley Pit	Aggregate Plant	Aggregates
APS Asphalt Paving and Supply	Prescott Valley Batch Plant	Batch Plant	Concrete
APS Asphalt Paving and Supply	Prescott Valley Hot Plant	Hot Plant	Asphalt
Arrowhead Mining & Materials	Chino Valley Pit	Aggregate Plant	Sand & Gravel
Bedrock Landscape Materials	Bedrock Portable Plant #1	Aggregate Plant	Aggregates
Black Canyon Minerals, LLC	Black Canyon Minerals	Exploration	Gold
Cemex fka Rinker Materials	Plant 556 CampVerde	Aggregate Plant	Aggregates
Cemex fka Rinker Materials	Plant 556 CampVerde	Batch Plant	Concrete
Vulcan Materials fka Cemex	UM Plant 556/Camp Verde	Hot Plant	Asphalt
Vulcan Materials fka Cemex	Prescott Valley	Hot Plant	Asphalt
Cemex formerly Rinker Materials, Inc.	Prescott Valley	Aggregate Plant	Aggregates
Cemex formerly Rinker Materials, Inc.	Chino Valley	Batch Plant	Concrete
Cemex formerly Rinker Materials, Inc.	Prescott Valley	Batch Plant	Concrete
Charter Materials, LLC.	Plant 100	Aggregate Plant	Aggregates
Chino Valley Materials	Schiabie / Granite Creek Pit	Aggregate Plant	Aggregates
Clarkdale Metals Corp	Clarkdale Slag Project	Surface	Gold & Copper
Dick Merritt	Last Chance Mine	Surface	Gold
Drake Cement, LLC.	Drake Cement Plant	Cement Plant	Cement/Lime
Drake Materials	Drake Iron Ore	Open Pit Mine	Iron Ore
Drake Stone	M.C. Canyon Quarries	Quarry	Flagstone
Drake Stone	Rock House Quarries	Quarry	Flagstone
Drake Stone	Far North Oak	Surface	Flagstone
Equinox Exploration Corp.	Copper Queen & Binghampton	Exploration	Copper
Flintstone Industries Inc.	Dewey Pit	Surface	Decorative Stone

Freeport McMoran Copper & Gold Bagdad G & S Gravel Incorporated Granite Mountain Materials Hanson Aggregates Hanson Aggregates Hanson Aggregates Hanson Aggregates Harley Gray Stone Jakes Granite Supplies, LLC. Just Stone Material Delivery Inc. Mendoza Quarry Metallicus Mike Mulcair Excavating Mineral Consultant & Development Inc (MCDI) Mineraltek Paterno Stone Co. Paterno Stone Co. Pine Creek Mining, Inc Reay Brothers Excavation Red Mountain Minerals LLC. Rock Cabin Mining Rock Production Technologies Rock Ridge Quarries Inc. Salt River Materials Salt River Materials Stoneworld	Bagdad Mine  Star Placer  Dosie Pit  Yavapai Airport Pit  Clarkdale Hot Plant  Yavapai Airport Batch Plant  Clarkdale Plant  Clarkdale Batch Plant  Partridge & Red Quarries  Date Creek Quarry  Vortex Quarry Dewey Pit  Mendoza Quarry Weaver Creek Midpoint  Alvarado Mine  Bender Millsite Copper Qween Co. Bluebell Quarry  Gold Basin  Reay Rich Hill Claim Group  Rock Cabin Gold  Rock Production Technologies  Rock Ridge Quarries  Phoenix Cement Gypsum Mine  Phoenix Cement Plant  Onyx Quarry	Open Pit Mine  Aggregate Plant  Aggregate Plant  Aggregate Plant Hot Plant  Batch Plant  Aggregate Plant Batch Plant  Quarry  Decorative Stone Quarry Aggregate Plant Surface Surface Aggregate Plant Surface  Mill Quarry  Quarry  Placer  Aggregate Plant Screening Plant Placer  Aggregate Plant Quarry  Open Pit Mine Cement Plant Quarry	Copper  Sand & Gravel  Decorative Stone  Sand & Gravel  Asphalt  Concrete  Aggregates Concrete  Flagstone  Aggregates  Building Stone Decorative Stone  Flagstone Gold Sand & Gravel  Gold  Gold Decorative Stone  Flagstone  Gold  Sand & Gravel  Gold Decorative Stone  Flagstone  Gold  Silica Sand  Flagstone  Gypsum  Cement/Lime  Stone, Dimension
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Superstition Crushing LLC	Black Canyon City	Sand & Gravel	Rip/Rap
Swallow Mining LLC	Swallow Mine	Exploration	Copper
TBM Global LLC. aka Brinkley Mining Inc.	Brinkley Mine / Hackberry Claim	Surface	Gold
Timberline Concrete	Henrickson Mine	Screen Plant	Sand & Gravel
United Verde Materials	United Verde Pit	Aggregate Plant	Aggregates
Vanderbilt Minerals Corp.	Lyle Mine	Open Pit Mine	Clay
Yavapai County Public Works Dept.	Yavapai County	Aggregate Plant	Sand & Gravel

<b>Yuma</b>	<b>Company</b>	<b>Mine / Plant Name</b>	<b>Type</b>	<b>Product</b>
	Aztec Excavating & Materials LLC	Dateland Pit	Surface	Sand & Gravel
	BLT Companies, LLC	BLT Materials Pit	Aggregate Plant	Sand & Gravel
	BLT Companies, LLC	BLT Batch Plant	Batch Plant	Concrete
	BLT Companies, LLC	BLT Hot Plant	Hot Plant	Asphalt
	Cemex	County 19	Aggregate Plant	Aggregates
	Cemex	Hwy - 95 Plant	Aggregate Plant	Sand & Gravel
	Cal Mat dba Vulcan	Hwy - 95 Plant	Hot Plant	Asphalt
	DPE Materials	Blaisedale Pit Yuma Pit	Aggregate Plant	Sand & Gravel
	DPE Materials, Inc	County 19 Hot Plant	Hot Plant	Asphalt
	DPE Materials, Inc	County 19 Plant	Aggregate Plant	Sand & Gravel
	H & S Developers, Inc.	Fortuna Pit 1	Aggregate Plant	Sand & Gravel
	Luxcor Gold L.P. Mohawk Rock, LLC	Francher Project Mohawk Rock, LLC	Underground Decorative Stone	Gold Rip/Rap
	Saguaro Concrete	Rock in Roll	Aggregate Plant	Sand & Gravel
	Tacna Sand & Gravel, LLC.	Roll Plant	Aggregate Plant	Sand & Gravel
	Yuma County Department of Public Works	Yuma Portable	Aggregate Plant	Sand & Gravel

Portable	Company	Mine / Plant Name	Type	Product
	Arizona General Engineering / A.G.E. Contracting Inc.	CPC Rio Rico	Contractor	Aggregates
	Ashton Company	Various Mine Sites	Portable Aggregate Plant	Sand & Gravel
	Ashton Company	Various Mine Sites	Aggregate Plant	Sand & Gravel
	Ashton Company	Various Locations	Asphalt Plant	Asphalt
	AZ BEST	Walker Butte Granite Pit	Portable Screen Plant	Construction
	Baldwin Construction	Rock X	Aggregate Plant	Decorative
	Bray Construction	PC # 1 / # 2	Aggregate Plant	Sand & Gravel
	C S & W Contractors	Various Mine Sites	Custom Crushing	Aggregates
	C. S. McCrossan	Portable Mining Equipment	Portable Aggregate Plant	Sand & Gravel
	C. S. McCrossan	Portable Hot Plant	Hot Plant	Asphalt
	Cemex Construction Materials	Portable Crushing & Screen	Crush & Screen	Aggregates
	Coconino County Public Works	County Wide Portable Screen Plant	Open Pit Mine	Cinders
	Drake Materials	Various Mine Sites	Crush & Screen	Aggregates
	Dalmolin Excavating	Various Mine sites	Custom Crushing	Aggregates
	Empire Excavation	(CM-2248 ADOT Pit #)	Surface	Aggregates
	Environmental Response	Portable	Aggregate Plant	Aggregates
	Fann Contracting	Various Mine Sites	Custom Crushing	Construction
	Fann Contracting	Hot Plant 1 & 2	Hot Plant	Construction
	Fisher Industries, Southwest Industries	Various Mine Sites	Custom Crushing	Aggregates
	Fisher Industries, Southwest Industries	Various Mine Sites	Hot Plant	Asphalt
	Fisher Sand & Gravel dba Arizona Drilling & Blasting	Various Mine Sites	Custom Crushing	Blasting

FNF Construction	20-00254 for all Portable Crushing Statewide	Aggregate Plant	Aggregates
FNF Construction Inc.	20-02238 H for all Asphalt Plants	Hot Plant	Asphalt
Fort McDowell Yavapai Materials	Various Mine Site	Aggregate Plant	Decorative Stone
Granite Construction Company	Various Mine Sites	Custom Crushing	Rip/Rap
Granite Construction Company	Various	Hot Plant	Asphalt
Granite Express, LLC	Statewide	Portable Aggregate Plant	Aggregates
Hanson Aggregates	Portable PC 54	Aggregate Plant	Aggregates
Hatch Construction & Paving Inc.	Various Mine Sites	Aggregate Plant	Aggregates
Interstate Rock Products, Inc	Indigo Ridge Project	Custom Crushing	Aggregates
Jack Daniel's Construction	Portable Screen	Screening Plant	Sand & Gravel
Kessen & Kessen, Inc.	Copper Hills Mine	Custom Crushing	Revert Crushing
Kiewit Western Co.	Various Sites / Portable	Aggregate Plant	Aggregates
Kiewit Western Co.	Various Sites / Portable	Hot Plant	Asphalt
M.R. Tanner Mining, Inc.	Portable #1	Crush & Screen	Aggregates
Material's Delivery Inc. (M.D.I.)	Various	Custom Crushing	Sand & Gravel
McCormick Construction	McCormick Portable Hot Plant	Hot Plant	Asphalt
Meadow Valley Contractors	Statewide Hot Plant	Hot Plant	Asphalt
Meadow Valley Contractors	Portable Plant	Custom Crushing	Aggregates
Mercury Constructors	Various Mine Sites	Surface	Aggregates
Mohave County Road Department	Kolman Portable	Open Pit Mine	Aggregates
Payson Concrete & Materials	Portable Plant	Portable Aggregate Plant	Aggregates
Perkins Cinders Inc.	Hall Pit	Custom Crushing	Sand & Gravel
Phoenix San Man	PC Plant 15 / Various Mine Sites	Aggregate Plant	Aggregates

Robson Ranch Construction Co. Land Development S & M Construction	Custom Crushing	Aggregates	
Schuck Development Smithco Enterprises Southwest Rock Products Superstition Crushing Sundt Construction Inc. Sundt Construction Inc. Superstition Crushing Texas Canyon Rock & Sand Tonto Supply	FMI Morenci Various Locations Various Mine Sites Various Mine Sites Various Locations Portable Soil Cement Plant Soil Cement Plant	Custom Crushing Aggregate Plant Custom Crushing Aggregate Plant Aggregate Plant Batch Plant Aggregate Plant	Construction Sand & Gravel Silica/Slag Sand & Gravel Aggregates Soil Cement Soil Cement
Superstition Crushing	all portable equipment	Aggregate Plant	Aggregates
Town of Eagar	Various Location	Custom Crushing	Aggregates
Tri County Materials	Custom Crusher	Custom Crushing	Aggregates
TRI-R Constuction United States Bureau of Reclamation US Forest Service Wheeler Construction aka WCI Mining LLC. White Mountain Cinders	Various Mine Sites Various Mine Sites Golden Vertex Moss Mine Portable Various Pits Coconino, Kaibab NFS Portable Portable	Aggregate Plant Aggregate Plant Custom Crushing Custom Crushing Aggregate Plant Portable Aggregate Plant Cinders	Aggregates Aggregates Aggregates Aggregates Aggregates Cinders Aggregates Cinders

## Education and Training

The Federal Mine Safety and Health Administration (MSHA) requires all miners in the United States and under MSHA jurisdiction have initial and yearly safety training. The Arizona State Mine Inspector's (ASMI) Education and Training department provides the mandatory federal mine safety training to the Arizona mining community including mine operators, employees, contractors, vendors or any other individuals who enter mine properties.

In 2009 ASMI was given authority to charge training fees by the Forty-ninth Legislative, First Regular Session, and Chapter 63 Senate bill 1256.

Title 27, Chapter 1, Article 2, Arizona Revised Statutes is amended by adding section 27-123, to read:

A. The State Mine Inspector may adopt and collect education and training fees for the purpose of training miners in the state.

B. The State Mine Inspector shall credit monies received for education and training purposes to the federal education and training fund, designated as the Arizona State Mine Inspector's account, to be used according to the Federal state grant rules, as appropriated.

In January 2010 ASMI implemented MSHA approved class fees, along with the state grant funding and state appropriations ASMI trainers had the ability to staff and to travel throughout Arizona with updated materials and equipment to provide quality training.

With a revised and approved Part 48 Training Plan ASMI conducts separate 8 hour Annual Refresher training sessions and 24 hour New Miner Inexperienced training sessions. The New Miner classes are conducted with new miners only and are specifically formatted sessions with a strong emphasis to new miner issues and content.

ASMI trainers issued MSHA 5000-23 certificates of training under CFR Part 48 for classes including Annual Refresher (AR) Surface Coal, Metal or Non-Metal, AR Underground – all 8 hour class. New Miner Inexperienced (NMI) Surface Coal, Metal/Non-Metal – (24 hour 3 day class) and First Aid/CPR/BBP certificates. Trainers also issue ASMI certificates (documents of training) under Part 46.

Subject matter covered in these classes include: The Federal Mine Safety and Health Act of 1969 & 1977. Code of Federal Regulation CFR Title 30: Parts – 45, 46, 47, 48, 50, 56, 57, 62 and 70. The Mining Code of the State of Arizona which contains the Arizona Revised Statutes, Rules & Regulations. Other topics covered include: Mandatory Health & Safety Standards – MSHA's 2010 Initiative - Prevent Fatalities "Rules to Live By" and updates. Review and discussion of U.S. fatalities, accident and injury reports and fatalgrams - Statutory Rights and Responsibilities of Miners – "Miners Voice In the Workplace" - Authority & Responsibility of Supervisors & Miners Representatives - Drug & Alcohol Free Workplace Issues & Programs - Transportation and Communication Controls - Noise and Respiratory Health Standards - Mine Hazard Recognition - Prevention of Accidents - Ground Control Issues – Fall of Ground – Explosives - Electrical Hazards – Lock Out Tag Out - Hazard Communication Standards / Global Harmonization Updates – The Miners Right to Know – SDS Safety Data Sheets (Chemical Hazards) - Emergency and Escape Procedures – Fire Prevention - Underground Hazards and Issues – Mine Gases – Surface Coal Mine Issues – U.S. and Arizona Mining History - Basic First Aid, CPR, BBP, AED, Shock, Control of Bleeding, & Body Injuries - Abandoned Mines Safety Awareness – "Stay Out Stay Alive".

Students completing safety training in 2015	
Miners	749
Contractors	1,598
Others	174

Total Participants Trained **2,521**

Of total participants trained - 77 received First Aid/CPR/BBP certifications.

Others trained include participants from agencies such as:

Arizona Department of Environmental Quality

Bureau of Land Management

Bureau of Reclamation

Arizona Game & Fish Department. S. Forest Service

A total of 330 participants received multiple certifications for CFR Parts 48 & 46 so the Total Certificates issued in 2015 = **2,851**.

The ASMI training staff has consistently received appreciation and acknowledgement from mine operators, contractors and others for the quality and consistency of training provided. Providing this service allows some miners the needed training to continue working and others a step into the door of a potential mining job. The Arizona State Mine Inspector's Education and Training staff is dedicated to quality and professional training. The ASMI trainers greatest responsibility is to instruct miners to begin and complete a safe day at work, not only taking care of themselves, but thier co-workers, and returning home to their family and friends.

## **Abandoned Mines Inventory and Remediation**

The abandoned mine program responsibilities are to inventory abandoned mine sites throughout the 72, 931,840 acres that comprise the state of Arizona and to coordinate the closure of these mines. There have been 10,000+ inventoried and 7535 evaluated to date. This inventory and evaluation is critical, since abandoned mines may pose a serious threat to public's health and safety. While many sites are shallow prospects, others have dangerous shafts and tunnels. During calendar year 2015 ASMI inventoried 258 mines; secured 24 mine features; 2 of which were permanently backfilled and 22 were fenced and signed; 285 Notice of Violations were issued; 80 Corrective Actions were submitted; the remaining 205 with no response from private land owners or mining claimants.

Complaints are investigated as soon as possible following their receipt. If the mine is in an area previously inventoried the file is consulted to determine the conditions. A field crew is then detached to investigate the site, making a photographic record of the site and detailing the conditions found. The State Land Department, Bureau of Land Management

and County Assessor’s Office is contacted for determination of the owner or claimant. A Notice of Violation is issued informing the owner of his legal responsibilities under the law. The owner must respond with corrective actions or plans within 60 days of notification. In the rare case of the owner not responding, the matter may be turned over to the county prosecutor for further follow-up. Ownership or responsibility for abandoned mines is difficult or impossible to determine in some instances. When no responsible party can be found, the state must take responsibility for the mine closure.

## **Abandoned Mine Accidents**

No serious accidents or fatalities were reported in calendar year 2015.

## **MINED LAND RECLAMATION**

### **Hardrock Mining Industry**

Since April 1997, the Arizona’s Mined Land Reclamation Act (A.R.S. § 27-901 et. seq.) and the rules per Arizona Administrative Code (A.A.C. R11-2-101 et. seq.), requires all metalliferous mines with surface disturbances on private land to submit reclamation plans and financial assurance mechanisms to the State Mine Inspector for review and approval. The mine owners/operators with approved plans are required, by rule, to submit annual status report updates. In 2015, the following sites reported an approximate 1,612 acres of new disturbances during this reporting period. According to the reportable mine sites for the metalliferous (hard rock) mining industry, the State Mine Inspector estimates approximately 75,649 acres have been disturbed through 2015, with an approximate estimate of 795 acres of private mined lands having been reclaimed by the majority of these reporting mine sites.

<b>Mining Company</b>	<b>Mine Site</b>	<b>Disturbed Acres 2015</b>	<b>Total Acres Reclaimed</b>	<b>Total Acres Disturbed</b>
Mojave Desert Materials	Gold Road	-	-	28
ASARCO	Hayden	38.8	-	3754
ASARCO	Mission	96	-	8358
ASARCO	Ray	29.5	-	9157
ASARCO	Santa Cruz	-	-	10
Silver Bell LLC (Asarco)	Silver Bell	68	-	1788
BHP Billiton	Miami Unit	-	-	560
Pinto Valley Mining Corp	Pinto Valley	-	592	4494
BHP Billiton	San Manuel	-	-	0
Resolution Copper (old magma)	Superior	-	-	103
Merrill Mining (BHP	Florence	-	-	0

Copper)				
BHP Copper	McCabe	-	-	-
Carlota Copper Co.	Carlota	904	203	701
Origin Mining Company	Mineral Park	2.5	-	1225.5
Nord Resources	Johnson Camp	-	-	711
Freeport-McMoRan Mining	Ajo mine	-	-	2245
Freeport-McMoRan Mining	Bagdad	152.7	-	7388
Freeport-McMoRan Mining	Miami	-	-	4690
Freeport-McMoRan Mining	Morenci	319.9	0	15917
Freeport-McMoRan Mining	Sierrita	.5	-	10076
Freeport-McMoRan Mining	Twin Buttes	-	-	1421
Freeport-McMoRan Mining	Safford	-	-	3000
Golden Vertex	Moss Mine	-	-	-
Rosemont Copper Company		-	-	22
Vulture Peak Gold	Vulture Mine	-	-	-
<b>Totals</b>		<b>1,612</b>	<b>795</b>	<b>75,649</b>

### Aggregate Mining Industry

Since January 2007, the Arizona's Mined Land Reclamation Act, Arizona Revised Statutes (A.R.S.) § 27-1201 et. seq. required all aggregate mines (sand & gravel), with five or more acres of disturbance on private land, to submit reclamation plans and financial assurance mechanisms to the State Mine Inspector for review and approval. Currently 207 aggregate mining sites have an approved reclamation plan through the Reclamation Division, of the State Mine Inspector Agency.

In accordance with A.R.S. § 27-1277, (enacted in 2010), the Aggregate Mine owner/operators with approved plans are required to submit annual status report updates. The annual status updates (received in 2014-2015), reported an approximate 37 acres of mined lands were reclaimed for 2015, and 525 acres of new disturbance were reported during this yearly reporting period. According to the mine sites in the Aggregate (sand & gravel) mining industry, during the 2015 reporting period, the aggregate industry continues to struggle with a continued slowdown of the industry along with Arizona's downsize of the construction industry activity.

The Arizona State Mine Inspector estimates the following reported totals with approximately 47,609 acres of private land have been approved for the potential of aggregate industry utilization, and is estimated for future land disturbance. Currently, 19,780 acres have been reportedly disturbed through all reportable years, with an approximate estimate of 1,923 acres of private mined lands having been reclaimed.