

OFFICE OF THE
ARIZONA STATE MINE INSPECTOR

JOE HART



ONE-HUNDRED and THIRD
ANNUAL REPORT
for the
CALENDAR YEAR 2014

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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 720 Health & Safety Mines and Contractors during 2014; 660 of the mining operations and 60 of the contractors were inspected which resulted in a 100% 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, 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 2013 National NFDL rate was 1.7 per 200,000 hours of work. The Inspections department issued 585 notices of violations; no cessation orders were required during 2014. ASMI Inspector's investigated 11 employee and citizen complaints, issued 39 mine elevator operating permits and 71 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 2014, 2,628 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 6785 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.

Arizona State Mine Inspector

Date

MINE SAFETY ENFORCEMENT

During the calendar year of 2014, the inspection team performed 720 health and safety inspections, which identified 585 violations of the mining code for corrective actions by the mine operators. No Cessation Orders were issued to mine operators in 2014.

Types of Operations	No. of Inspections	No. of Violations	Average No. of Employees	No. of Mines & (Listed Contractors)
Surface Metal Mines, Mills, SX-EW Plants, Smelters, and Refineries	128	236	10,296	58
Rock Products, Sand & Gravel, Pits, Quarries, Batch and Hot Plants	514	302	2116	573
Underground Mines	18	21	97	14
Contractor Totals	60	26	N / A	388
Mine Totals	660			645
TOTALS	720	585	12,509	1033

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 39
- Underground Diesel Equipment with Permits Issued 71
- Citizen Complaints Investigated 4
- Employee Complaints Investigated 5
- Interagency Complaints from referrals 2
- Electrical Equipment Installations 8
- Non Inspection Visits 22
- Cessation Orders Issued 0

Combined efforts of mine operators with the agency's mine safety enforcement and 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.

LTIR / NFDL	2010	2011	2012	2013	2014
National Accident Incidence Rate	1.9	1.8	1.8	1.7	1.8 Information released April 16, 2015 from U.S. DOL
Arizona Accident Incidence Rate	1.9	1.8	1.4	1.7	1.3

Lost Time Accidents in 2014

Type	Company	Mine	LT Accidents
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Overexertion

	Asarco, Inc.	Ray	2
	Drake Cement	Drake	1
	Freeport McMoran	Miami	1
	Freeport McMoran	Morenci	2
	Freeport McMoran	Sierrita	1
	Mercator Mineral Park	Mineral Park	1
	Pinto Valley Mining	Pinto Valley Mine	1
	Yuma County	Roll Pit	1

Struck By or Against

	Asarco, Inc.	Mission	1
	Asarco, Inc.	Ray	2
	Fann Contracting	Hot Plant	1
	Desert Construction	Hualapai	1
	Freeport McMoran	Miami	1
	Freeport McMoran	Morenci	4
	Freeport McMoran	Sierrita	1
	Freeport McMoran	Safford	1

Contact With or By

Asarco, Inc.	Mission	1
Calportland	Rillito	2
Cementation U.S.A.	Superior Magma	1
Drake Cement	Drake	1
Freeport McMoran	Miami	6
Freeport McMoran	Morenci	1
Freeport McMoran	Sierrita	2
Mercator Mineral Park	Mineral Park	1
Mojave Desert Minerals	Gold Road	1
Pinto Valley Mining	Pinto Valley Mine	3

Caught On or In or Between

Cementation U.S.A.	Superior Magma	1
Energy Fuels	Pinenut	1
Freeport McMoran	Morenci	5
Sun Land	Laveen	1

Fall from the Same Level or Below

Asarco, Inc.	Ray	3
Desert Construction	Hualapai	1
Fann Contracting	Hot Plant	1
Freeport McMoran	Bagdad	1
Freeport McMoran	Morenci	5
Freeport McMoran	Sierrita	1

Exposure or Occupational Illness

None Reported

Fatal Accidents

No fatal accidents were reported in 2014

2014 Operating Mines in Arizona by County

The following pages contain operating mines, plants, and smelters considered active in 2014. These figures represent some 645 operating units with over 12,509 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
Clariant Corporation	Cheto Mine 1	Surface	Clay
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
C & C Cinders	C & C Cinders	Screen	Cinders
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
	Cantera Materials	Kino Batch Plant	Batch Plant	Concrete
	Cantera Materials	Kino Pit	Aggregate Plant	Sand & Gravel
	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	Chiricahua Building Supply	Surface	Concrete
	Combs Materials,LLC.	Sierra / Vista Pit	Aggregate Plant	Aggregate
	Copreco LLC.	Copreco LLC.	Bio Sulfide Plant	Copper
	Cross Spear Limestone LLC.	Cross Spear Marble	Quarry	Marble
	Empire Homes, Inc.	Maya Pit	Surface	Sand & Gravel
	Freeport McMoran Copper & Gold Bisbee	Copper Queen	Reclamation	Copper
	Golder Fame (USA) Inc.	Gold Ridge (Gold Prince)	Exploration	Gold
	Granite Construction Company	Babocomari Pit	Aggregate Plant	Sand & Gravel
	Granite Construction Company	Babocamari Asphalt Plant	Asphalt Plant	Asphalt
	KE&G Construction Inc.	KE&G	Hot Plant	Asphalt
	Klump Ranches LLC	Luzena Quarry	Aggregate Plant	
	Lhoist North America	Douglas Plant	Quarry	Lime
	Maddux & Sons, Inc.	Leslie Canyon Plant	Aggregate Plant	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
Samohit Rock & Sand, LLC	Samohit Rock & Sand	Aggregate Plant	Aggregates
St. Cloud Zeolite	Grace and Cholla Zeolite Mine	Surface	Zeolite- chabazite
Strong Hold Redi-Mix	Grim	Wash Plant	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	Outerspace Pit	Aggregate Plant	Sand & Gravel

Coconino	Company	Mine / Plant Name	Type	Product
	A-Rock	Grey Mountain Pit	Aggregate Plant	Sand & Gravel
	Alberto Ayala Company	Ayala Blue Bird	Quarry	Flagstone
	Allen Grantham	Grantham Pit	Cinders	Cinders
	Arizona Tufflite, Inc.	White Vulcan & More Sand Mines	Open Pit Mine	Pumice
	Canipe Trucking	Santa Cruz	Quarry	Flagstone
	Cemex USA	Sheep Hill	Open Pit Mine	Cinders
	Cemex USA	Plant # 337 / Gray Mountain	Aggregate Plant	Aggregates
	Cemex USA	UM Plant # 336 Sunset Crater	Aggregate Plant	Sand & Gravel
	Cemex USA	Plant # 337 / Gray Mountain	Batch Plant	Concrete
	Coconino Cinders Sales	Wildcat Hill Pit	Open Pit Mine	Cinders
	Coconino County Public Works	Sheep Hill	Open Pit Mine	Cinders
	Cornerstone Materials LLC	Golden Buckskin-Drake	Quarry	Flagstone
	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
	Dunbar Stone	Straight Arrow	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
	Howard Gray Stone	Million \$ Buff / Rosa	Quarry	Flagstone
	LP's Excavating formerly Olson Brothers	LP's Cinders	Quarry	Cinders

Miller Mining	Miller Pit	Open Pit Mine	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 Mine	Cinders
Star Stone Quarries aka American Stone	Crookton / Stone Mountain	Quarry	Flagstone
Stoneworld	Lizard Group	Quarry	Flagstone
Superlite Block	Darling/Winona	Open Pit Mine	Cinders

Gila	Company	Mine / Plant Name	Type	Product
	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
	Cemex	Globe Hot Plant 601	Hot Plant	Asphalt
	Freeport McMoran Copper & Gold Miami	Rod Plant	Rod Plant	Copper
	Freeport McMoran Copper & Gold Miami	Smelter	Smelter	Copper
	Freeport McMoran Miami, Inc.	Mine, SX/Tankhouse	SX-EW Plant	Copper
	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

Graham	Company	Mine / Plant Name	Type	Product
	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 Inc.	Daley Pit	Aggregate	Sand & Gravel
Korwin Inc.	One Track	Open Pit	Sand & Gravel
Roadrunner Ready Mix, Inc.	Concrete & Gravel	Aggregates	Concrete
		Aggregate	
Tri County Materials	Morris Pit # 1	Plant	Aggregates
Tri County Materials	Morris Pit #1 Safford	Hot Plant	Asphalt
	Safford		
Tri County Materials	Batch Plant	Batch Plant	Concrete

Greenlee

Company	Mine / Plant Name	Type	Product
Freeport McMoran Morenci	Morenci Mine	Open Pit	Copper
Greenlee County	Viriden Pit	Aggregate	Sand & Gravel
		Plant	
Oakcreek Sand & Gravel	Old Viriden Highway Pit	Aggregate	Aggregates
		Plant	
TDAM LLC	Broken Back Mine	Surface	Gold

La Paz

Company	Mine / Plant Name	Type	Product
Bonanza Explorations Inc.	Copperstone Mine	Underground	Gold
Golconda Mine, LLC	Golconda Mine	Underground	Gold
James Dunn	Red Cloud	Underground	Wulfenite
La Paz County Public Works	Vicksburg Pit	Aggregate	Aggregates
		Plant	
La Paz County Public Works	Cibola Pit	Aggregate	Aggregates
		Plant	
Mineral Aggregate Recycling Service	Ehrenberg Wash Pit	Aggregate	Aggregates
		Plant	
Murphy Landscaping dba Rio Del Monte	Rio Del Monte Mine	Aggregate	Decorative Stone
		Plant	
Pioneer Landscaping Materials	Quartzsite Pit	Aggregate	Decorative Stone
		Plant	
Q Mountain Rock & Sand	Q-Mountain	Aggregate	Sand & Gravel
		Plant	
Sunset Marble Company, LLC.	Copper Chief Mine	Aggregate	Decorative Stone
		Plant	

Maricopa

Company	Mine / Plant Name	Type	Product
ABC Sand & Rock	Camelback Road Pit	Aggregate	Sand & Gravel
		Plant	
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	Decorative Stone
		Plant	
Arizona Materials LLC.	Plant #4 - Buckeye Plant	Surface	Sand & Gravel
Arizona Materials LLC.	Plant #4 - Buckeye Batch Plant	Batch Plant	Concrete
		Plant	

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
Calportland	43rd Ave / Batch Plant	Batch Plant	Concrete
CalPortland	Beardsley Batch Plant	Batch Plant	Concrete
Calportland Company	Sun City	Batch Plant	Concrete
CalPortland Company	Val Vista Ready Mix Plant #151	Batch Plant	Concrete
Calportland Company	Tolleson Batch Plant	Batch Plant	Concrete
Calportland Company	Deer Valley Batch Plant	Batch Plant	Concrete
CalPortland Company	Bullard Mine	Aggregate Plant	Sand & Gravel
CalPortland Company	Bullard Batch Plant	Batch Plant	Concrete
Cemex	Glendale Plant	Aggregate Plant	Aggregates
Cemex	Glendale Plant	Batch Plant	Concrete
Cemex	Plant 111 / 19th Ave. & Gomez Batch Plant	Hot Plant	Asphalt
Cemex	Plant 111 / 19th Ave & Gomez Pit	Batch Plant	Concrete
Cemex	Plant 111 / 19th Ave & Gomez Pit	Aggregate Plant	Aggregates
Cemex	Plant 111 / 19th Ave. & Gomez Hot Plant	Hot Plant	Asphalt
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	Buckeye Plant	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	Decorative Stone	Decorative Stone
Cemex	Bard Ranch Batch Plant #1995	Batch Plant	Concrete
Cemex Construction Materials	Sun City Plant, #4118	Aggregate Plant	Sand & Gravel
Cemex Construction Materials	Sun City Batch Plant	Batch Plant	Concrete
Cemex Construction Materials	Glendale Pit #112	Aggregate Plant	Sand & Gravel

Cemex Construction Materials	Buckeye Batch Plant # 4101	Batch Plant	Concrete
Cemex USA	West Plant # 40311	Aggregate Plant	Sand & Gravel
Cemex USA	Jomax Plant	Aggregate Plant	Aggregates
Cemex USA	West Plant # 4108 Batch Plant	Batch Plant	Concrete
Cemex USA	Lehi Plant # 76	Aggregate Plant	Sand & Gravel
Cemex USA	El Mirage	Aggregate Plant	Aggregates
Circle H Sand and Rock	Circle H Sand and Rock	Aggregate Plant	Sand & Gravel
Custom Landscape Materials LLC	Bighorn Pit	Aggregate Plant	Decorative Stone
Custom Landscape Materials LLC	Belmont Pit	Aggregate Plant	Decorative Stone
Custom Landscape Materials LLC.	Miller North	Open Pit Mine	Construction
Damavand Trading LLC.	51st Avenue	Aggregate Plant	Aggregates
Diamondback Materials, LLC	Diamondback Materials	Ready Mix Batch Plant	Ready Mix Concrete
Drake Materials	Avondale Batch Plant	Wash Plant	Sand & Gravel
Drake Materials	Gila Bend Wash Plant	Batch Plant	Concrete
Drake Materials	Gila Bend Wash Plant	Aggregate Plant	Sand & Gravel
Drake Materials	Higley	Aggregate Plant	Sand & Gravel
Drake Materials	Glendale Wash Plant	Aggregate Plant	Sand & Gravel
Drake Materials	Sun City Plant # 1	Batch Plant	Concrete
Fisher Sand & Gravel Co.	28th Street Plant	Aggregate Plant	Aggregates
Fisher Sand & Gravel, Inc	15th Ave Pit	Surface	Sand & Gravel
Fort McDowell Yavapai Materials	FMYM Plant #70	Batch Plant	Concrete
Fort McDowell Yavapai Materials	FMYM Plant #50	Batch Plant	Concrete
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 LLC	67th Ave Plant	Surface	Concrete
Hanson Aggregates of Arizona	San Domingo Pit / Wickenburg	Aggregate Plant	Aggregates

Hanson Aggregates of Arizona	San Domingo Batch Plant / Wickenburg	Batch Plant	Concrete
Hanson Aggregates	Sun City Batch Plant #33	Batch Plant	Concrete
Icon Concrete Arizona LLC	Sun City	Batch Plant	Concrete
Jakes Granite Supplies, 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, INC.	Picacho Mine	Aggregate Plant	Granite/Decorative Stone
Kilauea Crushers, Inc.	Buckeye Hills Plant	Surface	Aggregates
Lafarge N. America	Sun City #1	Surface	Sand & Gravel
Lafarge N. America	Cave Creek	Surface	Aggregates
Lafarge North America, Inc.	Jack Rabbit	Surface	Sand & Gravel
Lafarge North America, Inc.	Jack Rabbit	Hot Plant	Asphalt
M.R. Tanner Mining, Inc.	West Side Pit Mine	Crush & Screen	Aggregates
Madison Granite Supply	Madison Granite Pit	Aggregate Plant	Granite/Decorative Stone
Mesa Material	Sun Materials Plant # 2	Hot Plant	Asphalt
Mesa Materials	Sun Plant # 2	Aggregate Plant	Aggregates
Mesa Materials, Inc.	Mesa Plant	Aggregate Plant	Aggregates
Mobile Mix Inc.	Granite Reef Dam	Surface	Sand & Gravel
Morton Salt, K+S	Glendale	In-Situ	Salt
Paloma Ready Mix and Materials LLC.	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
Phoenix San Man	Buckeye Plant #24	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
Rinker Materials Western Inc. (CEMEX)	Hassayampa	Aggregate Plant	Sand & Gravel
Rinker Materials, Inc.	UM Plant 108 / 115th & Beardsley	Batch Plant	Concrete
RMI Ready Mix	Sun City Plant	Batch Plant	Concrete
Rock Production Technologies LLC	Rock Production Technologies LLC.	Surface	Silica Smelter Flux
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 Group	Buckeye Plant	Aggregate Plant	Sand & Gravel
Salt River Materials Group	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 LLC.	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, 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
Wesco Minerals LLC.	Rainbow Valley	Open Pit Mine	Feldspathic Sand
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

Mohave	Company	Mine / Plant Name	Type	Product
	2 Arrows Construction LLC	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
Cemex USA	Cemex Bullhead Hot Plant	Hot Plant	Asphalt
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	Colorado City	Screen Plant	Sand & Gravel
D & R Excavating	D & R Ecavating Materials Pit	Aggregate Plant	Aggregates
D. L. Campbell Company, Inc.	Sand Pit Road	Aggregate Plant	Aggregates
D. L. Campbell Company, Inc.	Sand Pit Hot Plant	Hot Plant	Asphalt
D. L. Campbell Redi-Mix	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, Inc.	Hualapai Pit - Rosslynn Rd. Pit	Aggregate Plant	Aggregates
Desert Construction, Inc.	Hualapai Hot Plant	Hot Plant	Asphalt
Desert Construction, Inc.	Wash & Screen Plant	Aggregate Plant	Aggregates
Desert Construction, Inc.	Batch Plant	Batch Plant	Concrete
Dunbar Stone	Hualapai Chocolate	Quarry	Flagstone
Energy Fuels Resources (USA) Inc.	Pinenut	Underground Mine	Uranium
Energy Fuels Resources (USA) Inc.	Arizona # 1	Underground Mine	Uranium
Eureka Mining	Havasu Rose	Aggregate Plant	Decorative Stone
Freiday Construction, Inc.	Rattlesnake Wash Pit	Aggregate Plant	Aggregates
Georgia Pacific Gypsum LLC.	Black Rock Quarry	Quarry	Gypsum
Golden Valley Rock & Materials LLC	Golden Valley Rock & Materials LLC	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 LLC., aka Thunderbird Materials JDM Sand & Rock	DW Ranch Road Pit Little Cedar	Aggregate Plant Aggregate Plant	Sand & Gravel Sand & Gravel
JP Project LLC fka GY Minerals Kalamazoo Materials, Inc. aka Able Earth Kalamazoo Materials, Inc. aka Able Earth Kalamazoo Materials, Inc. aka Able Earth	GY Mine/Pinkham Chloride Pit White Hills Mine New Valentine Pit	Surface Aggregate Plant Aggregate Plant Aggregate Plant	Gold Decorative Stone Decorative Stone Decorative Stone
Kingman Turquoise Mining Co. Lhoist North America dba Chemical Lime Company McCall Construction	Kingman Turquoise Mineral Park Nelson Plant McCall Pit	Crush & Screen Quarry Aggregate Plant	Turquoise Lime Aggregates
McCormick Construction McCormick Construction McCormick Construction McCormick Construction	McCormick Pit / Rio Lomas III Lake Havasu Pit Mc Connico Pit / Drake Pit Mc Connico Hot Plant	Aggregate Plant Aggregate Plant Aggregate Plant Aggregate Plant	Sand & Gravel Aggregates Aggregates Aggregates
Mercator Mineral Park Inc. Mojave Desert Minerals, LLC fka Addwest OZ Rock	Mineral Park Gold Road Mine OZ Rock	Open Pit Mine Underground Mine Aggregate Plant	Copper Gold Aggregates
Precision Aggregate Products LLC Reserve Bank	Portable Reserve Bank Mine	Sand & Gravel Underground Mine	Aggregates Copper Jewelry
Resources Mining, Inc. S & S Concrete and Materials LLC. S & S Concrete Materials LLC.	Double "E" Mining Operation Pass Canyon Batch Plant Pass Canyon	Surface Batch Plant Aggregate Plant	Gold Concrete Sand & Gravel
Sierra Resource Group Inc. Silmar of Arizona LLC. Statewide Excavation, Inc.	Emerald Isle Mine Excelisor London Bridge Road Pit	Open Pit Mine Mill Screening Plant	Copper Gold & Silver Aggregates
SunCon fka Sunshine Concrete & Materials, Inc SunRoc Materials	Airport Pit Beaver Dam	Aggregate Plant Aggregate Plant	Aggregates Sand & Gravel
Sunshine Concrete & Materials, Inc Sunshine Concrete & Materials, Inc The Silver Queen Mine LLC	Mc Connico Pit / Kingman Plant Kingman Batch Plant Silver Queen	Aggregate Plant Batch Plant Underground Mine	Aggregates Concrete Silver

Thunderbird Materials aka JDI Enterprises LLC.	Sawmill Wash Pit	Aggregate Plant	Aggregates
Western Mining and Minerals Inc.	Black Rock	Quarry	Gypsum
White Water Mining LLC	Gold Remedy Plant 1	Surface Aggregate Plant	Gold Aggregates
Westrock LLC			

Navajo	Company	Mine / Plant Name	Type	Product
	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	Linden Wash Plant	Aggregate Plant	Sand & Gravel
	Perkins Cinders	Linden Batch Plant	Batch Plant	Concrete
	Perkins Cinders	Linden Hot Plant	Hot Plant	Asphalt
	Perkins Cinders	Taylor Pit	Surface	Cinders

Quality Ready Mix aka Cemex	Brimhall Cottonwood Operation	Batch Plant	Concrete
Reidhead Sand & Rock, Inc.	Reidhead Sand & Rock	Aggregate Plant	Aggregates
Reidhead Sand & Rock, Inc.	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, LLC	Western Materials Site #1	Surface	Cinders
Winslow Ready Mix Inc.	Minnetonka	Batch Plant	Concrete

Pima

Company	Mine / Plant Name	Type	Product
Asarco Silver Bell Mining LLC.	Silver Bell Mine	Open Pit Mine	Copper
ASARCO, Inc.	Mission Unit	Open Pit Mine	Copper
Bray Construction, Inc.	Plant # 2	Surface	Aggregates
Bray Construction, Inc.	Hayhook Ranch Pit	Surface	Aggregates
Cal Portland dba Twin Peaks Rock & Stone	Twin Peaks Rock & Stone	Aggregate Plant	Sand & Gravel
California Portland Cement	Granite/Tangerine Plant	Batch Plant	Concrete
California Portland Cement	Orange Grove Plant	Aggregate Plant	Sand & Gravel
California Portland Cement	Orange Grove Plant	Batch Plant	Concrete
California Portland Cement	Orange Grove Plant	Hot Plant	Asphalt
California Portland Cement	Swan Batch Plant	Batch Plant	Concrete
CalPortland Company formerly Arizona Portland Cement	Rillito Mill	Cement Plant	Cement/Lime
CalPortland Company formerly Arizona Portland Cement	Rillito Quarry	Quarry	Limestone
Cemex	Plant 1457/223 Cortaro Plant	Aggregate Plant	Aggregates
Cemex	Cortaro Batch Plant I	Batch Plant	Concrete
Cemex	Cortaro Hot Plant	Hot Plant	Asphalt
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 / Aggregate Materials	River Road	Aggregate Plant	Sand & Gravel
Clay Mine Adobe Inc.	Avra Road Plant	Surface	Adobe
Clay Mine Adobe, Inc.	Clay Mine Adobe	Open Pit Mine	Clay
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
Huachuca Concrete, Inc. dba AzConAgg	Wilmot Plant	Aggregate Plant	Sand & Gravel
Imerys Marble	Santa Rita Mine	Quarry	Limestone
Jim Bush Sand & Gravel	Jim Bush	Aggregate Plant	Aggregates
Kalamazoo Materials, Inc. aka Able Earth	Silverbell	Aggregate Plant	Decorative Stone
Lamb Rock (Lamb Excavation Inc. DBA)	Lamb Rock- Wentworth	Reclamation	Rip/Rap
Minerals Research & Recovery, Inc.	Ajo Plant	Aggregate Plant	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, Inc. dba Pioneer Sand	Waterman Pit	Aggregate Plant	Decorative Stone
Rosemont Copper Company	Rosemont Copper Project	Surface	Copper
Sahuarita Mining 1986, Ltd.	Blue Jay	Underground Mine	Gold
Sandstorm Materials	Sandstorm Materials	Surface	Sand & Gravel
Sierra Mining & Crushing LLC.	Hughes Sand & Gravel Pit	Aggregate Plant	Sand & Gravel
SKM Mining & Materials, Inc. aka MEMCO reclamation	Pantano Plant	Open Pit Mine	Aggregates
Southwest Mining & Development Inc.	Linda Vista 1	Screening Plant	Aggregates
Staker Parson Companies	INA Pit	Surface	Sand & Gravel
Staker Parson Companies	Poor Man Rd. Batch Plant	Batch Plant	Concrete
Staker Parson Companies	Green Valley Batch Plant	Batch Plant	Concrete
Staker Parson Companies	INA Batch Plant	Batch Plant	Concrete
Staker Parson Companies	Green Valley Aggregate Plant	Batch Plant	Concrete
University of Arizona	San Xavier Mining Laboratory	Miner Training Lab	Training
Valley Rock & Sand Company	McCann Pit	Aggregate Plant	Aggregates
Vulcan Materials	Black Angus	Hot Plant	Asphalt
Vulcan Materials	Black Angus Pit	Aggregate Plant	Aggregates
Vulcan Materials	Marana	Aggregate Plant	Aggregates
Vulcan Materials	Marana	Hot Plant	Asphalt

Pinal

Company	Mine / Plant Name	Type	Product
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	Copper
		Mine	
CalPortland Company	Coolidge Batch Plant	Batch Plant	Concrete
CalPortland Company	Coolidge Az.	Surface	Sand & Gravel
Cemex USA	UM Plant 449 Casa Grande	Batch Plant	Concrete
Cemex USA	UM Plant 449 Casa Grande	Aggregate	Aggregates
		Plant	
Cemex USA	UM Plant 449 Casa Grande	Hot Plant	Asphalt
Cemex USA	Plant # 142, Queen Creek	Aggregate	Aggregates
		Plant	
Cemex USA	Queen Creek Plant 406	Aggregate	Sand & Gravel
		Plant	
Cemex USA	Queen Creek Plant 65	Batch Plant	Concrete
Cemex USA	Coolidge Plant	Aggregate	Sand & Gravel
		Plant	
Cemex USA	Plant # 142, Queen Creek	Batch Plant	Concrete
Cemex USA	Coolidge Plant	Batch Plant	Concrete
Decorative Rock Sales	Little Hill Mine	Decorative	Decorative Stone
		Stone	
Diablo Sand & Gravel	Diablo	Aggregate	Sand & Gravel
		Plant	
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
Fort McDowell Yavapai	Plant Sixty	Batch Plant	Concrete
Materials			
Gila Rock Products, LLC	Reymert - Superior	Aggregate	Decorative Stone
		Plant	
Granite Express	Big Nob Pit 3	Aggregate	Decorative Stone
		Plant	
Granite Express LLC	Pit 1	Surface	
Hanson Aggregates	Queen Creek Plant 42	Aggregate	Sand & Gravel
		Plant	
Hanson Aggregates	Queen Creek Batch Plant	Batch Plant	Concrete
	42		
Hanson Aggregates of Arizona, Inc.	Coolidge Plant # 65	Aggregate	Sand & Gravel
		Plant	
Hanson Aggregates of Arizona, Inc.	Coolidge	Batch Plant	Concrete
Imerys Perlite USA, Inc. fka Harborlite	Harborlite Mine/Mill	Open Pit	Perlite
JADAAL	Queen Creek Plant	Mine	
		Aggregate	Decorative Stone
		Plant	
Kalamazoo Materials	Durham Hills Quarry	Aggregate	Aggregates
		Plant	
Kalamazoo Materials aka Able Earth	Bonito	Aggregate	Decorative Stone
		Plant	
Kalamazoo Materials	Amber/ Desert Gold	Aggregate	Decorative Stone
		Plant	
Kalamazoo Materials	New Superior Pit	Aggregate	Aggregates
		Plant	
Kalamazoo Materials	Old Superior Pit	Aggregate	Aggregates
		Plant	

Kiewit Infrastructure West Co. Kiewit Infrastructure West Co.	Casa Grande Plant 07 Florence Plant #3	Surface Aggregate Plant	Sand & Gravel
Kiewit Infrastructure West Co. KJC Rock and Materials Inc.	Florence Plant #3 KJC Rock and Materials Inc.	Hot Plant Surface	Asphalt Decorative Stone
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. P & P Materials LLC	Old Wasp Mine Omya Az. P & P Materials	Surface Quarry Aggregate Plant	Gold & Silver Marble 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
Rinker Materials, Inc. Rinker Materials, Inc.	UM Plant 1975 UM Plant 46 17685 N. Tanner Road	Batch Plant Aggregate Plant	Concrete Sand & Gravel
Silver King Mining, LLC	Silver King Mine	Underground Mine	Silver
Smithco Enterprises, Inc.	Bobbit Pit	Open Pit Mine	Aggregates
Southwest Rock Products	Queen Creek / Plant 1 & 2	Aggregate Plant	Aggregates
Southwest Rock Products (Landscape)	Coolidge Plant	Aggregate Plant	Sand & Gravel
St. Cloud Mining Co. dba White Cliffs Mining	White Cliffs	Open Pit Mine	Diatomite
T D Martin Group LLC Tee Pee Sand & Gravel	Pit # 525 Tee Pee	Wash Plant Aggregate Plant	Sand, Industrial Sand & Gravel
The Ashton Company, Inc.	Old Montgomery Pit - Casa Grande	Surface	Aggregates
Treasure Chest Mining	Treasure Chest Pit	Aggregate Plant	Decorative Stone
Vulcan Materials Vulcan Materials	Queen Creek Queen Creek	Hot Plant Aggregate Plant	Asphalt Aggregates

**Santa
Cruz**

Company	Mine / Plant Name	Type	Product
California Portland Cement California Portland Cement	Rio Rico Batch Plant Rio Rico Plant	Batch Plant Aggregate Plant	Concrete 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	Company	Mine / Plant Name	Type	Product
	Alberto Caballero	Gold Bench	Surface	Gold
	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
	Carson Construction Inc.	10X Quarry	Aggregate Plant	Aggregates
	Cemex fka Rinker Materials	Plant 556 CampVerde	Aggregate Plant	Aggregates
	Cemex fka Rinker Materials	Plant 556 CampVerde	Batch Plant	Concrete
	Cemex fka Rinker Materials	UM Plant 556/Camp Verde	Hot Plant	Asphalt
	Cemex formerly Rinker Materials, Inc.	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 Products Inc.	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	Bagdad Mine	Open Pit Mine	Copper
	G & S Gravel Incorporated	Star Placer	Aggregate Plant	Sand & Gravel
	Gold Star Resources LLC	Bonanza	Surface	Gold

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
Cemex	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 Plant	Aggregates
	C. S. McCrossan	Portable Mining Equipment	Portable Aggregate Plant	Sand & Gravel
	C. S. McCrossan Cemex Construction Materials	Portable Hot Plant Portable Crushing & Screen	Hot Plant Crush & Screen	Asphalt Aggregates
	Coconino County Public Works	County Wide Portable Screen Plant	Open Pit Mine	Cinders

CS McCrossan	PE500	Crush & Screen	Aggregates
Dalmolin Excavating	Various Mine sites	Custom Crushing	Aggregates
Empire Excavation Environmental Response, Inc.	(CM-2248 ADOT Pit #) Portable	Surface Aggregate Plant	Aggregates 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 Granite Express, LLC	Various Statewide	Hot Plant Portable Aggregate Plant	Asphalt Aggregates
Hanson Aggregates of Arizona	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. M.R. Tanner Mining, Inc.	Various Sites / Portable Portable #1	Hot Plant Crush & Screen	Asphalt 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, Inc.	Statewide Hot Plant	Hot Plant	Asphalt
Meadow Valley Contractors, Inc.	Portable Plant	Custom Crushing	Aggregates
Mercury Constructors, Inc.	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, Inc.	Custom Crushing	Aggregates	
	FMI Morenci	Custom Crushing	Construction
Schuck Development	Various Locations	Aggregate Plant	Sand & Gravel
Smithco Enterprises, Inc.	Various Mine Sites	Custom Crushing	Silica/Slag
Southwest Rock Products	Various Mine Sites	Aggregate Plant	Sand & Gravel
Superstition Crushing	Various Locations	Aggregate Plant	Aggregates
Sundt Construction Inc.	Portable Soil Cement Plant	Batch Plant	Soil Cement
Sundt Construction Inc.	Soil Cement Plant	Aggregate Plant	Soil Cement
Superstition Crushing	all portable equipment	Aggregate Plant	Aggregates
Texas Canyon Rock & Sand	Various Location	Custom Crushing	Aggregates
Tonto Supply	Custom Crusher	Custom Crushing	Aggregates
Town of Eagar	Various Mine Sites	Aggregate Plant	Aggregates
Tri County Materials / AKA Morris Sand & Gravel	Various Mine Sites	Portable Aggregate Plant	Aggregates
TRI-R Constuction	Golden Vertex Moss Mine	Custom Crushing	Aggregates
United States Bureau of Reclamation	Portable	Crushing	Aggregates
US Forest Service	Various Pits Coconino, Kaibab NFS	Screening	Cinders
Wheeler Construction aka WCI Mining LLC.	Portable	Portable Aggregate Plant	Aggregates
White Mountain Cinders	Portable	Cinders	Cinders

Education and Training

The Education and Training Department of the Arizona State Mine Inspector's Office (ASMI) provides the mandatory federal mine safety training to the Arizona mining community. The Mine Safety and Health Administration (MSHA) guidelines require that all miners under MSHA jurisdiction have initial and annual safety training classes. This training is provided to mine employees, contractors, vendors or individuals who enter onto mine properties.

The Arizona State Mine Inspector's training staff conducted the training with funding provided by the federal MSHA State Grants Program, state appropriations and class fees. In 2009, the Arizona State Mine Inspector was given authority to charge a fee by the Forty-ninth Legislative, First Regular Session, 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 of 2010, ASMI implemented a MSHA approved "Class Fee Program". These grants, allocations and fees gave ASMI trainers 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 and 24 hour New Miner Inexperienced training sessions. The New Miner classes are conducted with "New Miners" only and specifically formatted sessions with a strong emphasis to new miner issues and content.

The ASMI trainer's issue certificates for CFR Parts 46 and 48: Annual Refresher (AR) Surface Coal, Metal or Non-Metal, AR Underground – all 8 hour class. New Miner Inexperienced (NMI) Surface Coal, Metal or Non-Metal - 24 hour class (3 days) and FA/CPR/BBP - 6 to 8 hour class.

Subject matter covered in these classes include: The Federal Mine Safety and Health Act – 1977. Code of Federal Regulation CFR Title 30: Parts - 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 – Prevent Fatalities "Rules To Live By" – 2010 and 2011 MSHA Fatal-grams Review and Discussion - 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 – The Miners Right to Know - MSDS (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 2014
Miners 770

Contractors	1,713
Others	145
Total Participants Trained	2,628

Note: Some participants received multiple certifications for CFR Part 48 & 46.

Total Certificates Issued	2,834
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In past years and into 2014, ASMI has received a great appreciation and acknowledgement from mine operators, contractors and others for the quality and consistency of training. 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. ASMI trainer's priority is to relay and remind in an honest, understanding and forceful manner to all miners of our greatest responsibility. That greatest responsibility is the goal of beginning and completing a good safe day of work, taking care of co-workers and returning home to 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 plus inventoried and 6785 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 fiscal year 2014 ASMI inventoried 1257 mines; secured 67 mine features; 19 of which were permanently backfilled and 48 were fenced and signed; 201 Notice of Violations were issued; 55 Corrective Actions submitted; the remaining 146 with no response from private land owners or mining claims.

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 2014.

Mined Land Reclamation

Hardrock Mining Industry totals for 2014

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 2014, the following sites reported an approximate 553 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 83443 acres have been disturbed through all reportable years, with an approximate estimate of 4729 acres of private mined lands having been reclaimed by the majority of these reporting mine sites.

Mining Company	Mine Site	Disturbed Acres 2014	Total Acres Reclaimed	Total Acres Disturbed
Mojave Desert Materials	Gold Road	-	-	28
ASARCO	Hayden	10	-	3754
ASARCO	Mission	65	-	8358
ASARCO	Ray	-	-	9157
ASARCO	Santa Cruz	-	-	10
Silver Bell LLC (Asarco)	Silver Bell	144	-	1720
BHP Billiton	Miami Unit	10	202	560
Pinto Valley Mining Corp	Pinto Valley	-	592	4494
BHP Billiton	San Manuel	-	3901	7532
Resolution Copper (old magma)	Superior	-	-	512
Merrill Mining (BHP Copper)	Florence	-	-	0
BHP Copper	McCabe	-	-	-
Carlota Copper Co.	Carlota	-	-	701
Mercator Mineral Park, Inc.	46	-	1467	
Nord Resources	Johnson Camp	-	-	711
Freeport-McMoRan Mining	Ajo mine	-	-	2245
Freeport-McMoRan	Bagdad	151	-	7388

Mining				
Freeport-McMoRan	Miami	3	14	4690
Mining				
Freeport-McMoRan	Morenci	116	-	15598
Mining				
Freeport-McMoRan	Sierrita	7.8	-	10075
Mining				
Freeport-McMoRan	Twin Buttes	-	-	1421
Mining				
Freeport-McMoRan	Safford	-	-	3000
Mining	Moss Mine	-	-	-
Golden Vertex		-	20	22
Rosemont Copper				
Company				
Vulture Peak Gold	Vulture Mine			
	Totals	553	4729	83443

Aggregate Mining Industry Totals for 2014

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 203 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 2013-2014), reported an approximate 132 acres of mined lands were reclaimed for 2014, and 333 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 2014 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 46,133 acres of private land have been approved for the potential of aggregate industry utilization, and is estimated for future land disturbance. Currently, 19,126 acres have been reportedly disturbed through all reportable years, with an approximate estimate of 1,783 acres of private mined lands having been reclaimed.