

MINE NAME:

MINERALS PROGRAM INSPECTION REPORT PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE/PROSPECTING ID#:

Portland Limestone Quarry	M-1977-344	Limestone (general) Fremont
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATES: INSP. TIMES:
Monitoring	Timothy Cazier, P.E.	July 19, 2022 09:30
-		November 15, 2022 12:50
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:
Holcim (US) Inc.	Oscar Mancera, Mike Toelle	112c - Construction Regular Operation
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:
Normal I&E Program	None	\$5,268,550.00
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA	None	None
WEATHER:	INSPECTOR'S SIGNATURE:	SIGNATURE DATE:
Clear	Thing (15	August 1, 2023

MINERAL:

COUNTY:

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS <u>Y</u>	(FN) FINANCIAL WARRANTY <u>N</u>	(RD) ROADS <u>Y</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADING <u>Y</u>	(EX) EXPLOSIVES <u>Y</u>
(PW) PROCESSING WASTE/TAILING Y	(SF) PROCESSING FACILITIES \underline{Y}	(TS) TOPSOIL \underline{Y}
(MP) GENL MINE PLAN COMPLIANCE- Y	(FW) FISH & WILDLIFE \underline{Y}	(RV) REVEGETATION <u>Y</u>
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN N	(RS) RECL PLAN/COMP <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE <u>Y</u>	(SC) EROSION/SEDIMENTATION <u>N</u>	(ST) STIPULATIONS \underline{Y}
(AT) ACID OR TOXIC MATERIALS N	(OD) OFF-SITE DAMAGE <u>Y</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

Two inspections were conducted as part of the DRMS regular monitoring program. The first inspection was performed on July 19, 2022, focusing on the quarry area north of the Arkansas River. Insufficient time was available to perform an inspection of the plant area, south of the Arkansas River. A follow-up inspection was performed on November 15, 2022, focusing on the plant area. The Permittee (Holcim) was represented by Mr. Oscar Mancera during the quarry inspection. Both Mr. Mancera and Mike Toelle were present during the plant inspection. The primary purpose of the plant inspection was to inventory all the plant facilities for the purpose of developing a thorough demolition cost estimate as the plant is part of the mine reclamation permit. Holcim provided the DRMS via email a facilities map and a spreadsheet outlining quantities and construction materials for over 60 structures on November 16, 2022, and a revised version on March 29, 2023. The DRMS has been reviewing and cataloging these structures for the purpose of developing a facilities demolition cost estimate. Attached to this inspection report is an 86-page Facility Catalog of plant facilities to be included in the demolition cost estimate. The catalog points out discrepancies in quantities (e.g., 1,110,998 ft² for the footprint of the ~90-ft diameter clinker silos) and missing structures (e.g., conveyors). Each page of the catalog includes a photo of the structure if the DRMS was able to obtain one from either a site visit or Google Maps Street View (from Hwy 120). Images for the conveyors were obtained from Google Earth Pro.

The Portland Limestone Quarry is accessed from State Hwy 120 approximately 5 miles east of Florence. This is a 112c limestone mine. It was operating at the time of the inspection.

<u>Availability of Records:</u> Annual reports are current, having been filed through October 2022, stating the last mining activity was the day the report was filed with the DRMS. The inspection before the July 19th quarry inspection was on July 16, 2020. The approved post-mine land use is rangeland. There were no open infractions prior to the inspection. Both the surface and minerals are privately owned.

Acid And Toxic Materials:

<u>Quarry</u> - Above ground fuel/oil storage tanks were observed and had adequate secondary containment. Radioactive materials are used in material analyzers and contained within the instrument housing.

<u>Plant</u> - The only observed storage tank containing toxic material was the ammonium hydroxide tank (see **Photo 1**) on the east end of the plant area. It appeared to have adequate secondary containment.

Backfilling and Grading:

<u>Quarry</u> - Sufficient material (overburden) appeared to be available for backfill. A large area of the southeast portion of the quarry has been backfilled (see **Photo 2**).

<u>Plant</u> – Backfilling and grading at the plant will only take place after facility demolition.

<u>Excess Spoil and Dev. Waste:</u> Overburden is stripped (see **Photo 3**) via blasting and grading, then moved directly to backfill the south side of the active quarry as the mine progresses north.

<u>Explosives:</u> The mine blasts three to four times per week using a contracted blaster (Buckley Powder at the time of the inspection). Mr. Mancera stated the mine monitors the blasts at four points along the natural gas pipeline on the north side of the active pit. The four seismographs are offset 100 feet from the gas line. He also stated blasting records are kept on file in the site office.

<u>Financial Warranty:</u> The \$5,268,550 bond held by the DRMS was last updated with amendment 1 (AM-1) and is most likely too low. The current combined effort between the DRMS and Holcim to catalog all the plant structures for demolition will need to be completed before an appropriate bond can be determined. Site representatives have indicated the pending amendment (AM-2) will be submitted in mid-August. <u>The attached Facility Catalog will need to be corrected and updated as part of the AM-2 Exhibit L</u>.

Fish and Wildlife: No impact to wildlife was observed at either the guarry or the plant.

Hydrologic Balance:

<u>Quarry</u> – Groundwater was observed in the quarry (see **Photo 4**). Holcim has a substitute water supply plan. A decree was also issued in 2019 by the Colorado District Court, Water Division 2 related to the "Quarry Ponds".

<u>Plant</u> – No standing water was observed in the plant area and no exposed groundwater was observed.

Gen. Compliance with Mine Plan: The operation appeared to be in compliance with the approved mine plan.

Quarry — Based on Holcim's AM-1 second adequacy response, the permit boundary and the affected area boundary are coincident except for "those areas indicated [AM-1 Figures C-2, C-3, C-5, and F-1] as having been previously released for reclamation." The maximum allowed disturbed area is 1,036 acres (based on Table E-1, March 31, 2003 preliminary adequacy response [PAR]). Google Earth was used to measure the disturbed quarry area, which was approximately 760 acres, based on older 2021 imagery. Highwalls were benched based on the stratigraphic thickness of the particular mineral product (or overburden) being mined. The maximum height of any bench was about 35 feet. The benches were roughly 150 feet in width (see Photo 3).

<u>Plant</u> – The plant area consists of 63 acres and is almost completely disturbed area. It is unclear if the plant area disturbance is being included in the reported site disturbance of 784 acres. Holcim should be aware that plant area disturbance should be included in the annual report disturbance.

Off-site Damage: The operation appeared to be confined to the permit boundary, based on Google Earth review and site observations.

Processing Waste: No processing waste was observed.

<u>Roads:</u> Haul roads are watered for dust control and haul trucks stay on the mine site, thereby preventing sediment from being traced offsite.

<u>Right of Entry:</u> The site is owned by the Operator.

<u>Reclamation Success</u>: Reclamation has been proceeding from the southeast corner of the quarry towards the north as the active mine area progresses. Given the vastness of the reclamation area and that there is not a sufficient high point from which to view the reclamation, it is difficult to determine from the ground level if reclamation grading is consistent with the approved Exhibit F grading plan. This was discussed with Mr. Toelle during the June 9th virtual meeting. **Photo 5** depicts the area where backfill depth appears to exceed that in Exhibit F.

<u>Revegetation:</u> Mr. Macera stated the most southeasterly area of the reclaimed area had been seeded. No noxious weeds were observed. As part of the 3/31/2003 PAR response (*Item #22*), the site has an approved weed control plan.

PERMIT #: M-1977-344 INSPECTOR'S INITIALS: TC1 INSPECTION DATES: July 19, 2022 November 15, 2022

<u>Sediment Control:</u> No erosion problems were observed and no BMPs were needed at the time of either inspection.

Support Facilities On-site: See attached catalog for a list of plant facilities.

<u>Signs and Markers:</u> The permit sign was properly posted (see **Photo 6**).

Permit Stipulations: Annual groundwater monitoring reports are required to be submitted to the DRMS.

Topsoil:

<u>Quarry</u> – Mr. Mancera explained stripped topsoil from the advancing mine area is hauled to the reclamation area as it is stripped. In addition, the northwest area, west of Bear Creek, has a large hummocky area of stockpiled material (see **Photo 7**). Some of this material is stockpiled topsoil.

<u>Plant</u> – The approved reclamation plan requires two feet of topsoil be spread over the plant area after the structures have been demolished. This depth avoids the need to remove concrete slabs on grade, concrete footings and caissons below grade and the large amount of rail lines on site. The source of this amount of topsoil (~210,000 CY - assuming 2 feet of topsoil over approximately 65 acres in the plant area) was discussed with Mr. Toelle by phone on June 9, 2023. Holcim was informed that the source of the plant area topsoil would need to be identified in the forthcoming amendment and that if it needs to be imported from offsite, there could be significant bond impacts.

Structures: No new structures were observed within 200 feet of the affected area.

Please contact Tim Cazier (303)328-5229 or email at tim.cazier@state.co.us if you have any questions regarding this report.

PHOTOGRAPHS



Photo 1. Ammonium Hydroxide tank in Ammonia Storage Bldg. (looking south).



Photo 2. Backfilled SE portion of active quarry (looking SE).

PHOTOGRAPHS (cont.)



Photo 3. Stripped overburden on north edge of quarry (circled) (looking NE; Note wide benches).



Photo 4. Exposed groundwater in active quarry (looking east).

PHOTOGRAPHS (cont.)

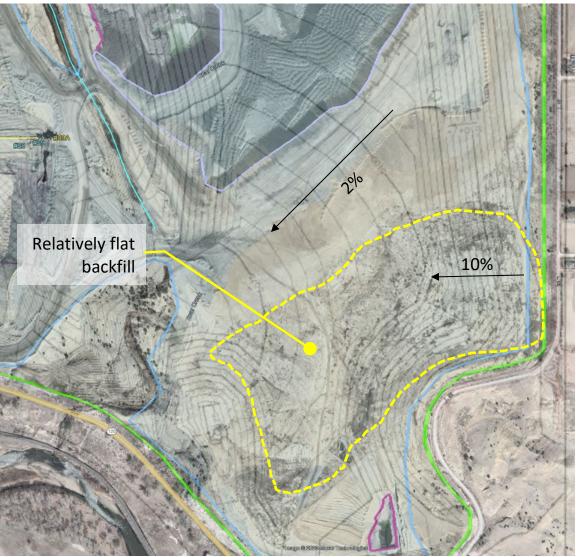


Photo 5. SE Quarry with Exhibit F overlay showing approved reclamation contours (Google Earth image).

PHOTOGRAPHS (cont.)



Photo 6. Permit sign at quarry entrance.



Photo 7. Stockpiled topsoil and overburden (NE portion of quarry permit, west of Bear Creek).

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Inspection Contact Address

Oscar Mancera Holcim (US) Inc. 3500 Highway 120 Florence, CO 81226

Enclosure: Facility Catalog for Demolition Estimate

ec: DRMS file

Mike Toelle, Holcim



FACILITY CATALOG

M-1977-344 / PORTLAND PLANT BUILDING SUMMARY FOR DEMOLITION COSTS

The following pages provide a "snapshot" of each building at the Portland Limestone Quarry Plant that will be demolished for final reclamation. Building photographs were taken during the November 15, 2022; July 19, 2022; and April 26, 2017 inspections. Building ID numbers and names are based on information provided by Holcim. Building ID numbers 19E, 23, 27, 38, 40, 43, 50, and 52 were missing information or could not be located on the facility map provided by Holcim. Some buildings (e.g., #33 – Packhouse & #45 – Air/Oil House) were split into separate structures as demolition would be different for different parts of the buildings (e.g., silos vs. multistory concrete building vs. single story cinder block building). The DRMS added these structures as #33.A, #33.B, etc.

Structure building materials (e.g., metal, concrete) and dimensions were provided by Holcim personnel. Where there were obvious errors in the data provided by Holcim, the data is marked with a "*" and DRMS assumptions are provided in the "Notes" portion of the summary. Wall lengths (e.g., stem walls) were estimated using the Holcim provided square footage of the building, taking the square root and multiplying by 4. Caissons, footers, and other subgrade structural supports were assumed to be flush with the surface and abandoned in place. No demolition costs were estimated for subgrade support structure(s) or slabs on which buildings are set as the approved reclamation plan calls for a minimum of two feet of soil cover over the Plant Area (~70 acres, not including the conveyor belt corridor between the Plant Area and the South Quarry Garage; ref. AM-1 Exhibit F, Reclamation Map, received 10/17, 2003). This is because the majority of the area between structures is paved with concrete or asphalt, as well as railroad spurs. Concrete stem walls were assumed to be above grade, requiring removal; and included in reclamation costs. Footers and slabs were assumed to be left in place.

Silo demolition was assumed to be accomplished using explosives. The material in the silos (both clinkers and cement) was assumed to be saleable and therefore not requiring a bond for reclamation/disposal.

Conventional building demolition was estimated using demolition and disposal (D&D) unit costs. Stem wall demolition unit costs include onsite disposal with a maximum 10,000-foot haul

All demolished concrete and cinder block structures were assumed to be hauled to the proposed C&D onsite pit/landfill, west of Bear Creek and north of the Arkansas River (ref. AM-1 Exhibit F, Reclamation Map, received 10/17/2003). Using existing haul routes, the distance from the center of the Plant Area to the center of the proposed C&D onsite landfill is approximately one mile. The approved reclamation plan allows for salvage of all demolished steel/metal structures. However, if the State must complete the reclamation, salvage is not considered. As such, disposal costs for all demolished steel includes hauling to the nearest landfill for disposal. Twin Enviro Services, 2500 Fremont County Road 67, Penrose, CO 81240 was selected and is a 12 mile drive from the Portland Plant. No effort was made to determine if this landfill could accept C & D materials, nor if it has/will have the capacity to accept the large volume of material, as the situation may change prior to an uncertain/future date when demolition becomes necessary.

Demolition of maintenance shops and fuel storage buildings included a task for sampling and disposal of an estimated quantity of liquid petroleum product. Electrical buildings includes sampling/disposal of PCBs.

Please contact Tim Cazier (303)328-5229 or email at tim.cazier@state.co.us if you have any questions regarding this approach.

Building Structure 1: Plant Warehouse & Maintenance

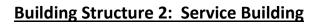


Looking at NW corner.



Looking at SW corner.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 3	1970	16,000	19	Metal Siding Bldg	Caisson 16ea at 2'-6" dia. X 10' 14ea at 4' dia. X 10' A 7' tall x 10" width stem wall that sits on the caissons.	3
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)	
304,000		N/A		506	3,542	7-ft stem wall
Demo Tasks:Bldg [D&D]: sirConc. wall dem			c. wall dem umed small	no/on-site disposal in e l amount (25 gallons) c	offsite disp. in apprv'd LF – 15 milexisting pit, 10 in. thick - 10,000 ft of petroleum products (e.g., used	. haul [3,542 SF]





Looking at north side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
	Duiit	(lootpillit)	(11)		(11)	THICKHESS (IL)
Plant 3	1970	4,160	38	Concrete Twin	2'-6"x 2' Footer along	6" floor mat
				Tee Wall	perimeter of bldg. <u>A stem</u>	
					wall 7" wide x 1'-6" tall	
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)	
0		158,080		258	387	
∻Do	emo Tasks:	• Bld	g [D&D]: n	nulti-story concrete l	bldg.; <u>onsite</u> disp. in C&D LF – 1	.0,000-ft haul.
	Conc. wall de		mo/on-site disposal	in existing pit, 8 in. thick - 10,0	00 ft. haul [387	
SF]				•	-	
		• Ass	umed no l	nazardous contents f	or sampling/disposal	

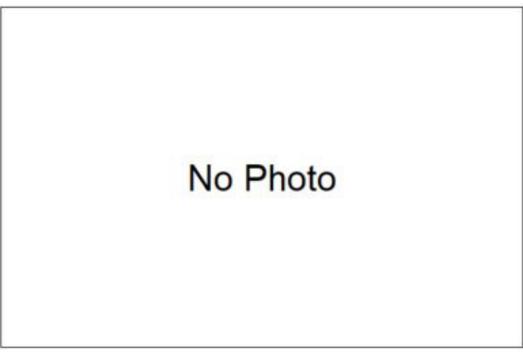
Building Structure 3: 1974 Mill Complex, Air Separator



Looking at NW corner.

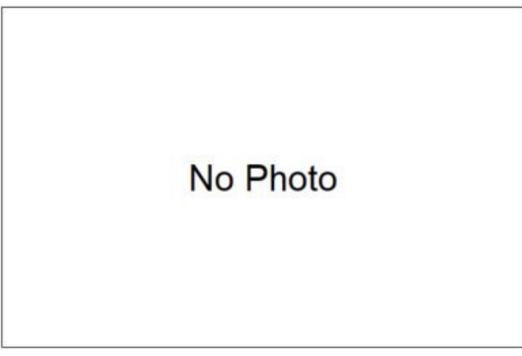
Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 3	1974	4,445	131	Concrete Twin Tee Wall	Caisson 45 ea at 2'-6" dia. X 20', 3ea at 4' dia. X 10', 63 ea at 3' dia. X 16'. With a 10" wide x 2'-6" tall stem wall on top of caissons on outside perimeter.	6
Metal B (Ft ³)	ldg. Vol.	Concrete B (Ft ³)	ldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0		582,295		267	667	
• Conc. wall de [667 SF]			nc. wall de 7 SF]	mo/on-site disposal	.; onsite disposal – 10,000 ft ha in existing pit, 10 in. thick - 10, for sampling/disposal	

Building Structure 4: 1974 Mill Complex, Finish Mill Area



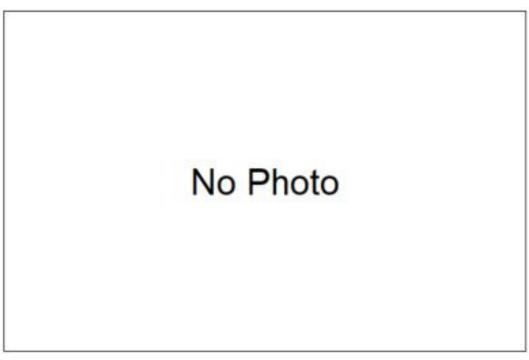
Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 3	1974	9,779	131	Concrete Twin Tee Wall	Included in Structure 3.	6
Metal B (Ft ³)	ldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft²)	Notes
0		1,281,049		0	0	
∻D(❖Demo Tasks: ◆ Plant/Mill, 3+ 		story concrete bldg.	; onsite disposal – 10,000 ft ha	ul.	
		• Ass	umed no h	nazardous contents f	or sampling/disposal	

Building Structure 5: 1974 Mill Complex, Old Compressor Room & Control Room



Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab
	Built	(footprint)	(ft)		(ft)	Thickness (ft)
Plant 3	1974	10,744	90	Concrete Twin	Caissons Type A's 10 ea at	3
				Tee Wall	2'-6" dia x 20' Type E's 7 ea	
					at 3' dia x 20'	
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)	
0		966,960		0	0	
∻Do				story concrete bldg.	; onsite disposal – 10,000 ft ha	ul.
No stem wall.			stem wall.			
		• Ass	umed no ł	nazardous contents f	or sampling/disposal	

Building Structure 6: 1974 Mill Complex, Cooler, New Office Area Added



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 3	1974	22,179	90	Concrete Twin Tee Wall	Caissons Type A's 25 ea 2'- 6" dia x 20' Type B's 13 ea at 3' dia. X 20'	3
Metal B (Ft³)	ldg. Vol.	Concrete B (Ft ³)	ldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0		1,996,110		0	0	
No stem wall.			stem wall.		; onsite disposal – 10,000 ft ha	ul.

Building Structure 8: So. Quarry Garage



Photo from "zoomed" Google Maps street view.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Quarry	1954	5,457	64* {30?}	Concrete Twin Tee Wall	Caissons 14 ea at 2'-6" dia x 2', has a 2'-6" x 3' footer along perimeter	8" concrete floor
Metal B (Ft³)	Metal Bldg. Vol. (Ft ³)		Bldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	* 64 ft provided by Holcim - seems high
0		349,248*		0	0	_
∻D(Demo Tasks:Bldg [D&D]: siNo stem wall,		footer assumed bel Ill amount (50 gallon	bldg.; onsite disposal – 10,000 ow grade. s) of petroleum products (e.g.,		

Building Structure 9: No. Quarry Garage



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Quarry	1974	5,664	38	Concrete Twin Tee Wall	Assumed by Holcim as: Caissons 14 ea at 2'-6" dia x 2', has a 2'-6" x 3' footer along perimeter	Assumed by Holcim as: 8" concrete floor
Metal B (Ft ³)	ldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0		215,232		301	0	
No stem wall,			stem wall, umed sma	footer assumed bel Ill amount (50 gallon	bldg.; onsite disposal – 10,000 ow grade. s) of petroleum products (e.g.,	

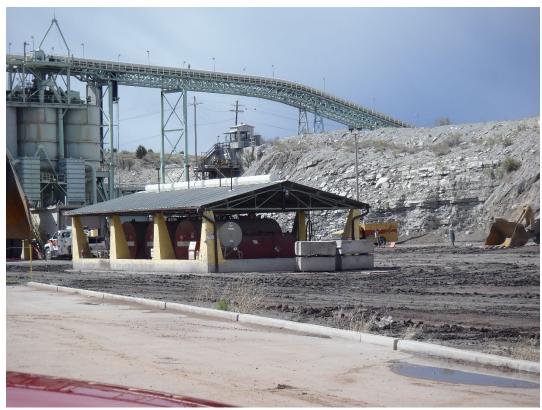
Building Structure 9A: Lubrication Oil Shed



Looking at SW corner from across the river.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Quarry	1974	800	38	Concrete Wall	Footer 1' x 2' x 2' with a 10" x 3' stem wall with 8" x 8" runners connecting the footer	2
Metal B (Ft³)	ldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft²)	Notes
0		30,400		113	339	
⊹D(Demo Tasks:Bldg [D&D]: sWall, concretft. haul [339 S		e, demolition only, a SF] Ill amount (75 gallon	bldg.; onsite disposal – 10,000 verage reinforcing - 10 in. thick s) of petroleum products (e.g.,	c - Max. 10,000	

Building Structure 9B: Fuel Shelter



Looking at SE corner (photo from 4/26/2017 inspection).

Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab
	Built	(footprint)	(ft)		(ft)	Thickness (ft)
Quarry	1997	1,232	10	Concrete Pillars	open w/ stem walls (2' high)	Concrete pad
						9" thick
Metal B	ldg. Vol.	Concrete B	ldg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes
(Ft³)		(Ft ³)		Wall Length (Ft)	(Ft ²)	
0		12,320		140	281	DRMS estimate
						for stem wall
						based on
						photo; Disposal
						of 3 ~4,200 gal.
						tanks, 1 ~1,500
						gal tank, and 1
						~300 gal. tank
∻De	emo Tasks:	• Bld	g [D&D]: s	ingle-story concrete	bldg.; onsite disposal – 10,000	ft haul.
		• Wa	II, concret	e, demolition only, a	verage reinforcing - 24 in. thick	c - Max. 10,000
		ft. ł	naul [281 S	SF]		
		• Ass	umed larg	e amount (14.400 ga	allons) of petroleum products (e.g., diesel.
			_	sampling/disposal.	, , , , , , , , , , , , , , , , , , , ,	5,,
		_	•		ump - 3,000 to 5,000 gal. tank	
		- 1100	ai J turiks t	o certifica sarvage a	amp 3,000 to 3,000 gai. tank	

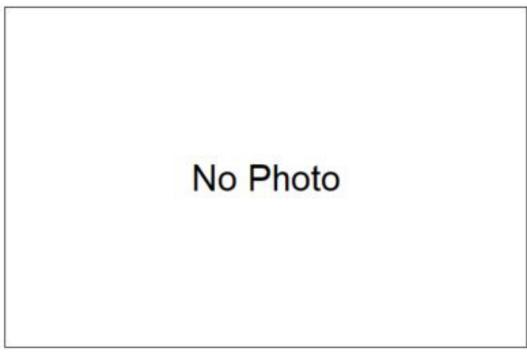
Building Structure 9C: Truck Wash



Looking at south side (photo from 4/26/2017 inspection).

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
Quarry	2004	300	10	Metal siding bldg	Stem Wall 3'-6" x 9" thick with a 2' wide x 9" thick footer	N/A		
Metal Bldg. Vol. (Ft ³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes		
3,000		0		69	242			
		• Wa	Wall, concrete, demolition only, average reinforcing - 10 in. thick - Max. 10,000 ft. haul [242 SF]					

Building Structure 10: Quarry Area Electric Substation



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
Quarry	1974	672	32	Concrete Twin Tee Wall	Block walls 12" in thickness	Concrete slab 6" thick		
Metal B (Ft ³)	ldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes		
0		21,504		n/a	n/a			
				ngle-story concrete bldg.; onsite disposal – 10,000 ft haul.				
		• Ass						

Building Structure 11: Service Building & Warehouse



Looking at SE side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)	
_	+				, ,	` ,	
Misc.	1994	15,312	22	Concrete Wall	Spread Footer every 22' 8' x	2	
					4'-6" 33 total with a <u>2'-6" x</u>		
					10" stem wall		
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes	
(Ft ³)		(Ft³)		Wall Length (Ft)	(Ft ²)		
0		336,864		495	1,237		
⊹D	emo Tasks:	• Bld	g [D&D]: s	ingle-story concrete bldg.; onsite disposal – 10,000 ft haul.			
	• Wall, cond			te, demolition only, average reinforcing - 10 in. thick [1,237 SF]			
	 Assumed small amount (50 gallons) of petroleum products (e.g., used oil) for 					used oil) for	
	sampling/disposal.						

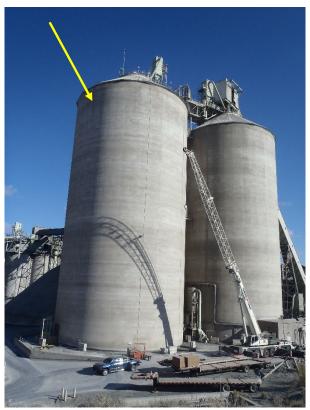
Building Structure 13: Administration Office



Photo from "zoomed" Google Maps street view.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)			
Misc.	1994	5,856	90*	Center Block Wall	10" tall x 16" wide footer	6" concrete			
			Use 15	(cinder?)	with a 8" wide x 26" tall	pad			
					stem wall along perimeter				
					of bldg				
Metal E	Bldg. Vol.	Concrete B	ldg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes			
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)				
0		87,840 *		306	663	* 90 provided			
						by Holcim,			
						assume 15			
						based on site			
						observations			
⊹D	emo Tasks:	• Bld	g [D&D]: s	ingle-story concrete	bldg.; onsite disp. in C&D LF –	10,000 ft. haul.			
		• Wa	Wall Demo. & on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul						
		[66	[663 SF].						
		• Ass	umed no h	nazardous contents f	or sampling/disposal				

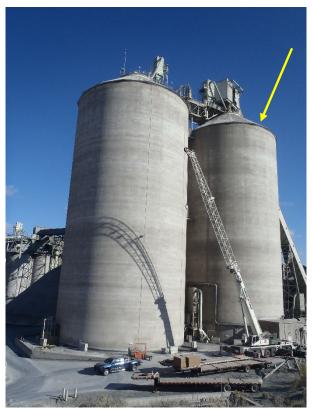
Building Structure 14A: North Clinker Silo



View from NW.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
Plant	2001	1,110,998*	96	Concrete Wall	Caissons 130 ea at 1.524m	1.1m thick		
4		Use 6,362			dia x 7.1m	concrete pad		
						on top of		
						caissons		
Metal E	Bldg. Vol.	Concrete Blo	dg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes		
(Ft ³)		(Ft³)		Wall Length (Ft)	(Ft ²)			
0		610,752*		0	0	* 1,110,998		
						provided by		
						Holcim,		
						assume 90'		
						Dia. based on		
						Google Earth		
						measurement		
۰D	emo Tasks:	• Explo	osive dem	o, large projects – co	oncrete structures			
		• Explo	osive dem	o, Disposal of structi	ural material minimum [6,134	CY – based on		
		<u>1.1-r</u>	1.1-m wall thickness, 90-ft dia., 96-ft height x 1.695 swell factor {similar to					
		brok	en limesto	ne}]	-			

Building Structure 14B: South Clinker Silo



View from NW.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
Plant	2001	1,110,998*	96	Concrete Wall	Caissons 130 ea at 1.524m	1.1m thick		
4		Use 6,362			dia x 7.1m	concrete pad		
						on top of		
						caissons		
Metal E	Bldg. Vol.	Concrete Blo	dg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes		
(Ft ³)		(Ft³)		Wall Length (Ft)	(Ft ²)			
0		610,752*		0	0	* 1,110,998		
						provided by		
						Holcim,		
						assume 90'		
						Dia. based on		
						Google Earth		
						measurement		
۰D	emo Tasks:	• Explo	osive dem	o, large projects – co	oncrete structures			
		• Explo	osive dem	o, Disposal of structi	ural material minimum [6,134	CY – based on		
		<u>1.1-r</u>	1.1-m wall thickness, 90-ft dia., 96-ft height x 1.695 swell factor {similar to					
		brok	en limesto	ne}]	-			

Building Structure 14C: Reject Clinker Silo



View from north side of clinker dome.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
Plant	2001	92,833*	51	Concrete Wall	Caissons 130 ea at 1.524m	1.1m thick		
4		Use 1,257			dia x 7.1m	concrete pad		
						on top of		
						caissons		
Metal E	3ldg. Vol.	Concrete Bl	dg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes		
(Ft³)		(Ft ³)		Wall Length (Ft)	(Ft ²)			
0		64,088*		0	0	* 92,833		
						provided by		
						Holcim, assume		
						40' Dia. based		
						on Google Earth measurement		
*D	emo Tasks:	• Explo <u>1.1-1</u> brok • Assu	 Explosive demo, large projects – concrete structures Explosive demo, Disposal of structural material minimum [1,448 CY – based on 1.1-m wall thickness, 40-ft dia., 51-ft height x 1.695 swell factor {similar to broken limestone}] Assumed hazardous disposal of 75% capacity (~48,066 cf) of reject clinker (eye, skin & lung irritant). 					

Building Structure 15: Clinker Dome



Looking SW.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 4	1974	34,636	96*	Concrete Wall	Footer 1'-6" x 9' along	3
			Use 51	and Metal siding	diameter perimeter of bldg.	
Metal B (Ft³)	ldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
484,904	(based on	0 (see Stem Wall)		660	5,938 (based on 9-ft height	* 96 provided
cone sh	ape of 42-				& circular perimeter	by Holcim,
ft Ht {51	1 - 9 = 42				calculated from 34,636 ft ²	assume 51
					area)	based on
						observed
						similar height
						of adjacent
						reject silo
⊹Do	emo Tasks:	• Bld	g [D&D]: s	ingle story metal bld	g.; offsite disp. in apprv'd LF –	15 mile haul
			ll Demo. 8 938 SF]	on-site disposal in e	existing pit, 18 in. thick - Max. 1	.0,000 ft. haul

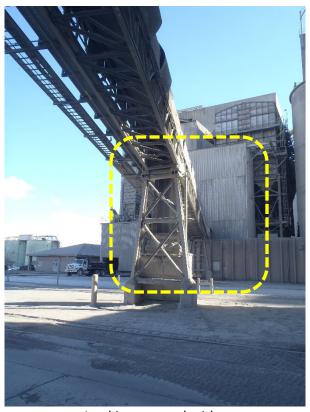
Building Structure 16: Cement Grinding Enclosure



Looking at east side.

Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab	
	Built	(footprint)	(ft)		(ft)	Thickness (ft)	
Plant 4	2001	14,505	131	Metal siding bldg	Caissons 57 ea at .914m dia	1m (3.28 feet)	
					x 7m and 39 ea at 1.22m x	thick concrete	
					7m	pad	
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes	
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)		
1,900,15	55 (MILL)	0		0	0	Use Mill	
						Demo type	
∻D(D], 3+ story metal bldg.; offsite disposal in apprv'd LF – 15 mile			
	haul.						
		Assumed no hazardous contents for sampling/disposal					

Building Structure 17: XFOBS 16 Raw Material Silo



Looking at north side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
Plant 3	1974	235,000*	90	Concrete Wall	Caissons 30 ea at 1.52m dia.	6		
		Use			X 11m with a 2m thick pile			
		2,625			cap on top of caissons			
Metal B	ldg. Vol.	Concrete B	ldg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes		
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)			
0		236,250		0	0	* 235,000		
						provided by		
						Holcim,		
						assume		
						35'x75' based		
						on Google		
						Earth		
						measurement		
∻Do	emo Tasks:	• Bld	g [D&D]: n	nulti-story concrete	oldg.; onsite disp. in C&D LF – 1	.0,000 ft. haul.		
		• Ass						
		75%	6 capacity	[~177,187 CF] rocky,	/earthen material			

Building Structure 18: New Cement Silo



Looking at east side.

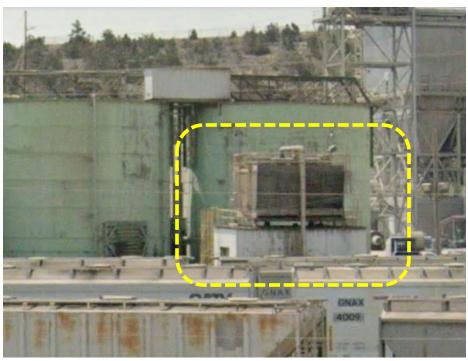
Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab			
	Built	(footprint)	(ft)		(ft)	Thickness (ft)			
Plant 4	2001	235,000*	182	Concrete Wall	Caissons 30 ea at 1.52m dia.	6			
		Use			X 11m with a 2m thick pile				
		3,631			cap on top of caissons				
Metal B	ldg. Vol.	Concrete B	ldg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes			
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)				
0		660,966		0	0	* 235,000			
						provided by			
						Holcim,			
						assume 68'			
						Dia. based on			
						Google Earth			
						measurement			
∻De	emo Tasks:	 Exp 	losive den	no, large projects – c	oncrete structures				
		 Exp 							
		wal	wall thickness, 68-ft dia., 182-ft height x 1.695 swell factor {similar to broken						
		lime	estone}]	_					

Building Structure 19: Cement Silo Electric



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 4	2001	814	19	Cinder Block Wall	Footers (assumed below grade)	1
Metal Bldg. Vol. (Ft ³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0				0	0	Photo would be helpful
∻D	 Demo Tasks: Bldg [D&D]: single-story concrete bldg.; onsite disp. in C&D LF – 10,000 ft. haul. Assumed NON-PCB Transformer Removal/disposal (estimate 4 transformers) 					

Building Structure 19E: Name not provided





Photos from "zoomed" Google Maps street views.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)	
?	?	~30′ x 20′ 600	~20	Steel?	unknown	unknown	
Metal Bldg. Vol. (Ft ³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes	
unknow	/ n	unknown		unknown	unknown	No Description (shown on Map: north of water tanks next to #45 Air/oil House Bldg & east of the Admin. Office/#13; but not listed in the list on the Map nor on the spreadsheet)	
‡D	 ‡Demo Tasks:						

Building Structure 20: Group 3 Plat Building



Looking at east side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Logistics	1974	1,496,256* Use 6,270	96	Concrete Wall	Footers (assumed below grade)	3
Metal Bldg. Vol. (Ft³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0		601,920*		0	0	* 1,496,256 provided by Holcim, assume 6,270 ft ² based on Google Earth measurement
 Demo Tasks: Explosive demo, large projects – concrete structures Explosive demo, Disposal of material minimum [silo circumference x height wall thickness → 3,029 CY – based on 12-inch wall thickness, four 40-ft diameter silos x 96-ft height x 1.695 swell factor {similar to broken limestone} 						our 40-ft

Building Structure 21: Group 2 1965 Silos



Looking at SE corner.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Logistics	1965	718,908*	182	Concrete Wall	Footers (assumed below	8
		Use 9,780			grade)	
Metal Bldg. Vol. (Ft ³)		Concrete Bldg. Vol. (Ft³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0		1,779,960*		0	0	* 718,908 provided by Holcim, assume 9,780 ft ² based on Google Earth measurement
∻Der	mo Tasks:	 Explosive demo, large projects – concrete structures Explosive demo, Disposal of material minimum [silo circumference x height x wall thickness → 10,661 CY – based on 12-inch wall thickness, nine 33-ft diameter silos x 182-ft height x 1.695 swell factor {similar to broken limestone}] 				

Building Structure 22: Packhouse Silos



Looking at south side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)	
Logistics	1925	896,601*	160	Concrete Wall	4 feet in thickness	slab 2'-9"	
		Use				thick	
		11,555					
Metal Bldg. Vol.		Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes	
(Ft³)		(Ft³)		Wall Length (Ft)	(Ft ²)		
0		1,848,800*		0	0	* 896,601	
						provided by	
						Holcim,	
						assume	
						11,555 ft ²	
						based on	
						Google Earth	
						measurement	
				o, large projects – co	oncrete structures		
		Explosive demo, Disposal of material minimum [silo circumference x height x					
		wall thickness \rightarrow 10,098 CY – based on 4-ft wall thickness, ten 32-ft diameter					
		silos x 160-ft height x 1.695 swell factor {similar to broken limestone}]					

Building Structure 22A: Packhouse



Looking at SE corner.

Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab	
	Built	(footprint)	(ft)		(ft)	Thickness (ft)	
?	?	6,335?	50?	Concrete Wall	Not provided	Not provided	
Metal Bldg. Vol. (Ft³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes	
0		316,750?		Not provided	Not provided	Information	
						not provided	
‡Demo Tasks: • Bldg			g [D&D]: multi-story concrete bldg.; onsite disp. in C&D LF – 10,000 ft. haul.				
		• Ass					

Building Structure 22B: Packhouse "Annex" (Warehouse?)



Photo from Google Maps street view.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
?	?	10,000	16	Cinder Block	Not provided	Not provided		
Metal B (Ft ³)	Metal Bldg. Vol. (Ft ³)		lldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft²)	Notes		
		5,926		Not provided	Not provided			
‡D	‡Demo Tasks:		Standard single story cinder block bldg.					
		 Assumed no hazardous contents for sampling/disposal 						

Building Structure 23: Raw Water Pump House



Photo not available/location unknown.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 3	1965	80	10	Center Block Wall	Stem Wall 3'-6" x 9" thick with a 2' wide x 9" thick footer	2
Metal Bldg. Vol. (Ft ³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0		800		26	125	Contained in list on Map & on spreadsheet, but location not shown on map
D	emo Tasks:	• Wa [12	ll Demo. 8 5 SF].	ι on-site disposal in ε	bldg.; onsite disp. in C&D LF — existing pit, 8 in. thick - Max. 10 for sampling/disposal	

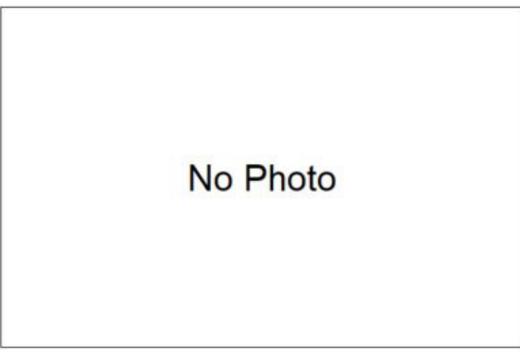
Building Structure 24: Coal Handling Control Room



Photo from "zoomed" Google Maps street view.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 2	1974	720	16	Concrete Twin Tee Wall ‡ appears to be missing the steel superstructure on the adjacent south side.	Block wall - 10" in thickness - 16 feet high*	0.5
Metal B (Ft³)	ldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft²)	Notes
0		11,520		107	1,712	* Foundation wall information appears redundant with the twin tee wall building material information.
			ic. wall de	ingle-story concrete bldg.; onsite disp. in C&D LF – 10,000-ft haul. mo/on-site disposal in existing pit, 10 in. thick - 10,000 ft. haul		
				nazardous contents f	or sampling/disposal	

Building Structure 25: RR Maintenance Building



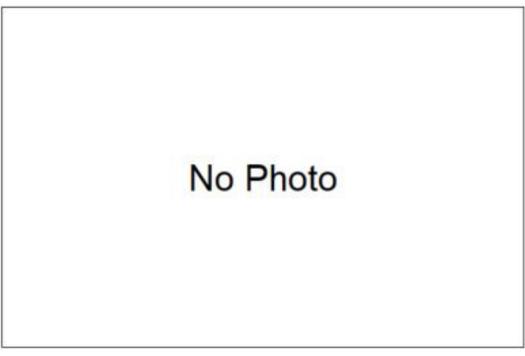
Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab	
	Built	(footprint)	(ft)		(ft)	Thickness (ft)	
Plant 2	1974	1,980	22	Concrete Twin Tee Wall	Block wall - 10" in thickness - 22 feet high*	3	
Metal B	ldg. Vol.	Concrete B	ldg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes	
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)		
0		43,560		178	3,916	* Foundation wall information appears redundant with the twin tee wall building material information.	
D	emo Tasks:	,		-	bldg.; onsite disp. in C&D LF –	·	
		 Conc. wall demo/on-site disposal in existing pit, 10 in. thick - 10,000 ft. haul [3,916 SF] Assumed no hazardous contents for sampling/disposal 					

Building Structure 26: Coal Unloading Control Room



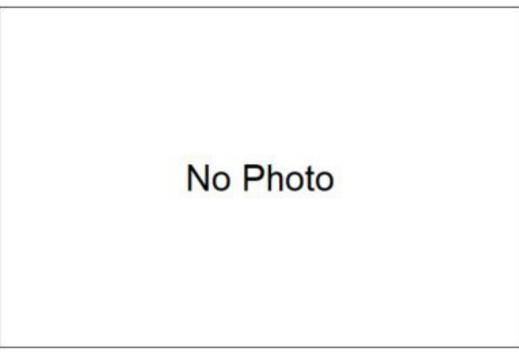
Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 2	1974	144	38	Concrete Twin Tee Wall ‡ appears to be missing the steel superstructure on the adjacent north side.	Block wall - 10" in thickness - 38 feet high*	0.5
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes
(Ft ³)		(Ft³)		Wall Length (Ft)	(Ft ²)	
0		5,472		48	1,056	* Foundation wall information appears redundant with the twin tee wall building material information.
De	emo Tasks:	• Bld	g [D&D]: s	ingle-story concrete	bldg.; onsite disp. in C&D LF –	10,000-ft haul.
 Conc. wall demo/on-site disposal in existing pit, 10 in. thick - 10,000 ft. haul [1,056 SF] Assumed no hazardous contents for sampling/disposal 						000 ft. haul

Building Structure 27: Quonset Hut Misc. Storage



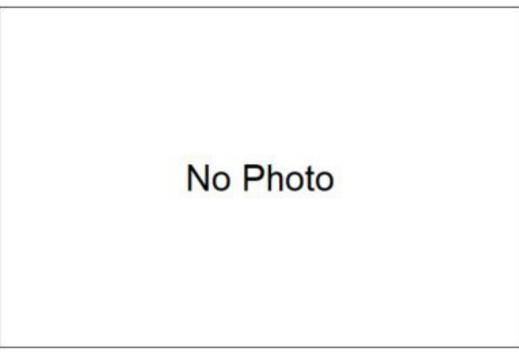
Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)	
Misc.	2001	1,225	15	Metal siding / Wood Frame	No vertical walls - metal half circle	0.75	
Metal Bldg. Vol. (Ft ³)		Concrete E (Ft ³)	Bldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft²)	Notes	
14,431 (40.83' x half circle area with a 15' radius)		0	O O Contain list on N on spreads but local not sho map				
	Demo Tasks:	 Bldg [D&D]: single story metal bldg.; offsite disp. in apprv'd LF – 15 mile haul Assumed small amount (50 gallons) of petroleum products (e.g., used oil) for sampling/disposal. 					

Building Structure 28: Crusher Electric



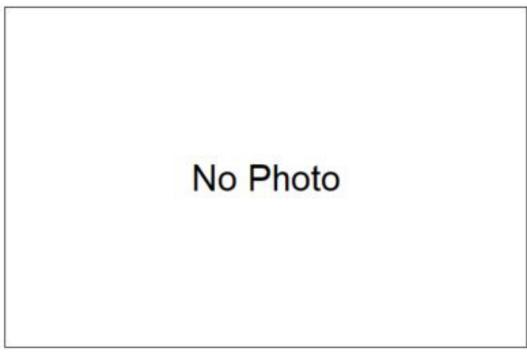
Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab	
	Built	(footprint)	(ft)		(ft)	Thickness (ft)	
Quarry	2001	1,496	26	Cinder Block Wall	26 feet high 8" in thickness	Electrical room	
						Concrete slab	
						1.3m (4.27 ft)	
						thick with .3m of	
						lean concrete	
						below,	
						transformer bldg	
						1m (4.27 ft) thick	
						concrete pad	
Metal B	ldg. Vol.	Concrete B	ldg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes	
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)		
0	0 38,896			0	0		
Demo Tasks:		• Bldg [D&D]: single-story concrete bldg.; onsite disp. in C&D LF – 10,000 ft. haul.					
		• Ass	 Assumed NON-PCB Transformer Removal/disposal (estimate 4 transformers) 				

Building Structure 29: Crusher Compressor



Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab	
	Built	(footprint)	(ft)		(ft)	Thickness (ft)	
Quarry	2001	291	26	Cinder Block Wall	26 feet high 8" in thickness	No drawing	
						found, assume	
						1m (3.28 feet)	
						thick concrete	
						pad	
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes	
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)		
0		7,566		0	0		
Demo Tasks: B		• Bld	g [D&D]: single-story concrete bldg.; onsite disp. in C&D LF – 10,000 ft. haul.				
		• Ass	 Assumed no hazardous contents for sampling/disposal 				

Building Structure 29A: Crusher/Feeder Hopper {38°23'40.21"N, 105° 0'32.95"W}



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
Quarry	TBD	4,120?	30?	Steel	8 ft by 18-inch Concrete Stem Walls (<i>truck</i> "guides"); two: 32 ft long each	TBD		
Metal Bldg. Vol. (Ft ³)		Concrete B (Ft ³)	Bldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft²)	Notes		
123,600)	0		Two at 32 ft ea.	512	Measurements pulled from Google Earth		
			nc. wall de 2 SF]	emo./off-site disposal in approved landfill - Max. 15 mile haul l. emo/on-site disposal in existing pit, 18 in. thick - 10 ,000 ft. haul				
		 Assumed no hazardous contents for sampling/disposal 						

Building Structure 30: Preblend Shelter



Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab	
	Built	(footprint)	(ft)		(ft)	Thickness (ft)	
Quarry	2001	177,783	61	Metal Sided Bldg	4 Rows of Footer/stem wall, outside footers .9mx3.5m w/ .5mx.85m stemwall, inside footer .4m x 7m footer w/.5m x .8m stem wall, other inside footer .4m x 2.6m w/ 1m x .5m stem wall ARE ROWS OF STEM WALLS ALONG THE LENGTH OR WIDTH OF THE BLDG?	0.42?	
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes	
(Ft³)		(Ft³)		Wall Length (Ft)	(Ft ²)		
10,844,7	763	0		TBD	TBD	Need total	
						length and	
						height of	
						stemwalls to	
						estimate area	
De	emo Tasks:	• Bld	g. (SN) der	no./off-site disposal	in approved landfill - Max. 15 r	mile haul	
Conc. wall der			ic. wall de	mo/on-site disposal in existing pit, 18? in. thick - 10,000 ft. haul			
	[TBD SF]						
		• Ass	umed no h	nazardous contents f	or sampling/disposal		

Building Structure 31: Raw Material Analyzer & Electric



Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab	
	Built	(footprint)	(ft)		(ft)	Thickness (ft)	
Quarry	2001	1,568	26	Cinder Block and	2' thick x 2'-6" wide along	0.33?	
				metal siding	perimeter and thru center		
					below that is a little bit of		
					lean concrete		
Metal B	ldg. Vol.	Concrete B	ldg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes	
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)		
40,768		0		158	396	Assume metal	
						sided bldg. for	
						volume	
						demo;	
						stemwall for	
						cinder block	
						wall demo.	
De	emo Tasks:	• Bld	g. (SN) der	no./off-site disposal	in approved landfill - Max. 15 i	mile haul	
		• Cor	nc. (cinder	block) wall demo/or	i-site disposal in existing pit, <mark>24</mark>	🔐 in. thick -	
		10,0	000 ft. haເ	ıl [396 SF] .			
		• Ass	umed NOI	N-PCB Transformer R	Removal/disposal (estimate 4 tr	ransformers)	
		Assumed small radioactive waste (estimate 20 lbs) disposal from material					
analyzer [Hazardous waste removal - Bulk solids, small quantities (up to 1.5							
		ton	-		, , , , , , , , , , , , , , , , , , , ,	` '	

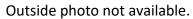
Building Structure 32: Raw Mill Electric, Compressor Electric



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Quarry	2001	1,536	22	Cinder block wall	Block wall - 12" thick	Transformer bldg .4m concrete pad w/ .8m thick on two of the outer edges, Electric/compressor .4m (1.31 ft) pad w/ 1m thick on two of the outer edges
Metal B (Ft ³)	ldg. Vol.	Concrete E (Ft ³)	Bldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0		33,792		0	0	Wall assumed to be part of bldg.
De	 Demo Tasks: Bldg [D&D]: single-story concrete bldg.; onsite disp. in C&D LF – 10,000 ft. hau Assumed NON-PCB Transformer Removal/disposal (estimate 6 transformers) 					

Building Structure 33: Raw Mill Feed / Blended Material Analyzer

No Photo





Gamma-Metrics Analyzer (indoors, radioactive material).

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Quarry	2001	462	19	Metal Siding Bldg	Block wall - 12" thick	Concrete pad 1.2m (4 feet) thick
Metal Bldg. Vol. (Ft ³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft²)	Notes
8,778		0		0	0	Circle sign states: "CAUTION Radioactive Material"
Assumed sma				II radioactive waste	in approved landfill - Max (estimate 20 lbs) disposal al - Bulk solids, small quar	from material

Building Structure 34: Main Electrical Control



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
Plant 4	2001	8,937	38	Cinder Block Wall	Caissons 16 ea at .914m x	STORAGE		
		,			6.5m and 8 ea at 1.22m x	WARETRUC		
					6.5m with footer / stem			
					wall running between			
					caissons, footer .4m x .6m			
					and wall .8m x 1.2m			
					NEED LENGTH OF STEM WALLS			
					BETWEEN CAISSONS			
	ldg. Vol.	Concrete B	ildg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes		
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)			
0		339,606		TBD	Assume stemwall is 4 ft [1.2	Need total		
					m] high	length of		
						stemwalls to		
						estimate area		
De	emo Tasks:	• Bld	g [D&D]: s	ingle-story concrete	bldg.; onsite disp. in C&D LF —:	10,000 ft. haul.		
		• Conc. wall demo/on-site disposal in existing pit, 30? in. thick - 10,000 ft. haul						
		[TB	[TBD SF].					
		• Ass	umed NOI	N-PCB Transformer R	temoval/disposal (estimate 8 tr	ransformers)		

Building Structure 35: Baghouse Bypass Control



Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab
	Built	(footprint)	(ft)		(ft)	Thickness (ft)
Plant 4	2001	2,132	90	Cinder Block Wall	Caissons 2 ea at 1.22m dia.	3 (ft or
		(~4,000)			X 6m and 14 ea at .914m x	inches)
					6m with 1.2m thick pile cap	
					on top of caissons	
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes
(Ft ³)		(Ft³)		Wall Length (Ft)	(Ft ²)	
0		191,880 (or		0	0	Footprint area
		~360,000)				appears small
						based on
						Google Earth
De	emo Tasks:	 Exp 	losive den	no, large projects – c	oncrete structures	
	 Explosive demo, Disposal of structural material minimum [2,840 CY – based 					CY – based on
		2,132 ft ² footprint, 90- ft height x 1.695 swell factor {similar to broken				
		lim	estone}]			

Building Structure 36: Preheater Electrical Control Room



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 4	2001	3,825	51	Concrete & steel	Caissons 34 ea at 1.2m dia. x 8m, 5 ea at 1.2m dia x 9m, 2 ea at .9m dia x 8m, 3 ea at .9m dia x 9m with 2.2m thick pile cap on top of caissons.	6 (ft or inches)
Metal B (Ft³)	ldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
195,075				0	0	Assume mostly steel structure
15 mile haul.				5 ()	./off-site disposal in approved	

Building Structure 37: Kiln Gear Electrical & Transformer Room



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
	-		· · ·		` '	` '		
Plant 4	2001	2,059	45	Concrete	Caissons @ Pier 1 2 ea at	6 (ft or		
		(~10,500)			1.52m dia x 8.5m 9 ea at	inches)		
					1.22m dia. x 7.5m Pier 2 9			
					ea at 1.22m x 7.5m Pier 3			
					10 ea at 1.22m dia x 7.5m			
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes		
(Ft ³)		(Ft³)		Wall Length (Ft)	(Ft ²)			
0		92,655 (or		0	0	Footprint area		
		~472,500)				appears small		
		, ,				based on		
						Google Earth		
Demo Tasks: • Bldg [D&D]: si				ingle-story concrete	bldg.; onsite disp. in C&D LF – :	10,000 ft. haul.		
		• Ass	Assumed NON-PCB Transformer Removal/disposal (estimate 6 transformers)					

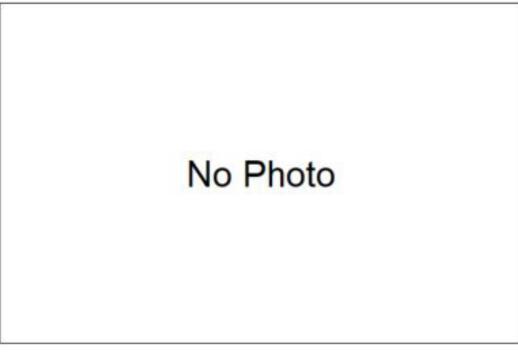
Building Structure 38: Cooler Pump Shed

{Included in clinker cooler bldg see item #49}

No Photo

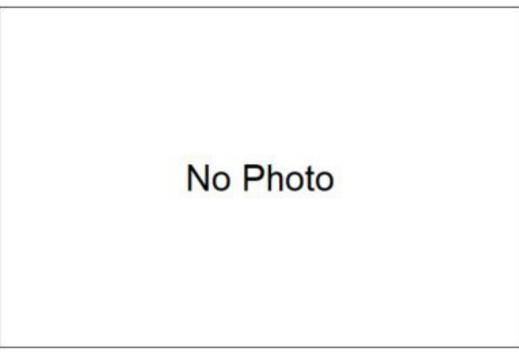
Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 4	2001	575	9	Concrete		2 (ft ?)
Metal Bldg. Vol. (Ft ³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
N/A		N/A		N/A	N/A	Covered under Bldg ID #49
Do	emo Tasks:	• Nor	ne			

Building Structure 39: Clinker Cooler Baghouse Electrical Room



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 4	2001	2,698	16	Cinder block wall & steel	Caissons 10 ea at .91m dia x 7.5m, 2 ea at 1.22m dia. X 7.5m with 1.2m thick pilecap on top of caissons.	4 (ft ?)
Metal B (Ft ³)	ldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0		43,168		0	0	Assume mostly cinder block
De	 Demo Tasks: Bldg [D&D]: single-story concrete bldg.; onsite disp. in C&D LF – 10,000 ft. hau Assumed NON-PCB Transformer Removal/disposal (estimate 2 transformers) 					

Building Structure 40: Clinker Silo Electrical & Transformer Room



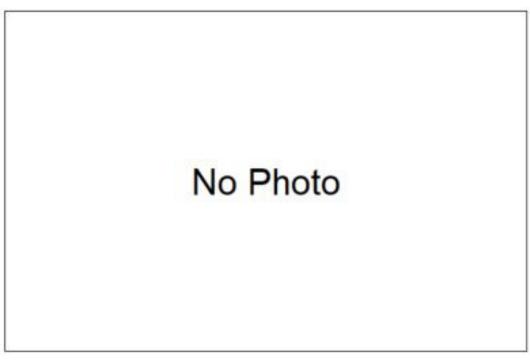
Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab		
	Built	(footprint)	(ft)		(ft)	Thickness (ft)		
Plant 4	2001	532	19	Cinder block wall	Caissons 130 ea at 1.524m	3		
					dia x 7.1m			
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes		
(Ft ³)		(Ft³)		Wall Length (Ft)	(Ft ²)			
0		10,108		0	0			
Demo Tasks: • Bldg [D&D]: si			g [D&D]: s	ingle-story concrete bldg.; onsite disp. in C&D LF – 10,000 ft. haul.				
		Ass						

Building Structure 41: Coal Mill Hydraulic Shelter



Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab
	Built	(footprint)	(ft)		(ft)	Thickness (ft)
Plant 4	2001	240	19	Concrete, steel	Caissons 17 ea at 1.22m dia	4.5m thick
				and cinder block	x 6m	pile cap on
						top of
						caissons
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)	
Can the	steel be	Can the concrete				Includes
split out	from the	be split out from				larger
concrete	e volume?	the steel volume?				footprint Bldg
						#42
De	emo Tasks:	• "No	n-Concret	e" Bldg. (MN) demo	./off-site disposal in approved	landfill - Max.
15 mile haul.			mile haul.			
		 Assumed NON-PCB Transformer Removal/disposal in Bldg #42(estimate 2 				stimate 2
		trai	nsformers)		· ·	

Building Structure 42: Coal Mill Electric



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 4	2001	741?*	19	??	??	, ,
Metal Bldg. Vol. (Ft ³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
	??	??		??	??	Covered under Bldg ID #41 – * but the 741 ft² footprint is larger than the 240 ft² footprint
De	emo Tasks:	• ??	·			

Building Structure 43: Water Filtration Plant



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Misc.	1994	1,360	12	Concrete Twin Tee Wall	Footer - 9" thick x 2' wide along perimeter of bldg. Stem wall 9" wide x 3'-6" tall along perimeter of bldg.	0.75
Metal B (Ft ³)	Metal Bldg. Vol.		Bldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0		16,320		148	516	Location not shown on 7/1/2021 Facility Map
 Demo Tasks: Bldg [D&D]: single-story concrete bldg.; onsite disp. in C&D LF – 10,000-ft hau Conc. wall demo/on-site disposal in existing pit, 10 in. thick - 10,000 ft. haul [516 SF] Assumed no hazardous contents for sampling/disposal 						

Building Structure 44: Raw Mill Feed Bins



Looking west at east side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
Quarry	2001	1,650	86	Steel	Caissons 10 ea at 1.2m dia no depth given assume rest on bed rock, 1.2m thick by .8m wide concrete pad going around perimeter and across from each caisson	3?		
Metal B (Ft ³)	ldg. Vol.	Concrete E (Ft ³)	Bldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes		
141,900		0		0	0			
De	Demo Tasks:		Plant (1S) demo./off-site disposal in approved landfill – Max. 15 mile haul.					
	 Assumed no hazardous conte 			nazardous contents f	or sampling/disposal			
		• No	concrete c	demo necessary				

Building Structure 45: Air / Oil House Building



Looking at SE corner.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 3	2007	6,000	32??	Cinder Block Wall	1' x 3' wide footer around perimeter of bldg as well as thru the center with a 8" x 3'-5" tall stem wall	0.5?
Metal B (Ft ³)	ldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0	0 192,000 ??		310	1,084		
				ngle-story concrete bldg.; onsite disp. in C&D LF – 10,000 ft. haul. azardous contents for sampling/disposal		

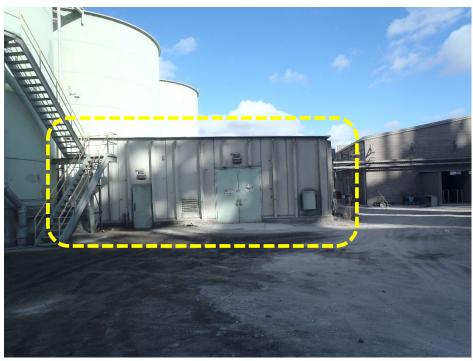
Building Structure 45A: Air / Oil House Tanks



Looking at NE end from SE.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)		
??	??	3 X 50′	~48	Steel?	??	??		
		dia.						
Metal	Bldg. Vol.	Concrete B	Bldg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes		
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)			
282,74	3	0		??	??	Diameter		
						from Google		
						Earth		
						measurement		
	emo Tasks:	• Pla	nt (1S) der	no./off-site disposal	in approved landfill – Max. 15	mile haul.		
		Assumed no hazardous contents for sampling/disposal						
		Concrete demo necessary? Stemwall?						

Building Structure 45B: Air / Oil House "Shop"



Looking at west side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)	
??	??	~4,300	~12	Concrete Twin Tee Wall?	??	??	
Metal Bldg. Vol. (Ft ³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes	
0		51,600		??	??	Footprint	
						from Google	
						Earth	
						measurement	
D	Demo Tasks: • Bldg [D&D]: si			ngle-story concrete bldg.; onsite disp. in C&D LF – 10,000 ft. haul.			
		• Ass	umed no l	nazardous contents f	or sampling/disposal		

Building Structure 46: Scrubber



Photo may not show the Scrubber.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)	
Plant 4	2001	970	189	Fiberglass	Caissons 16 ea at .9m dia x 7.5m and 3 ea at .9m dia x 8m	4.3 (1.3m concrete pad on top of caissons)	
Metal B (Ft ³)	Metal Bldg. Vol. (Ft ³)		ldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes	
0		0		0	0	Volume is 183,330 Ft ³	
• Pla			erglass construction nt (1S) demo./off-site disposal in approved landfill – Max. 15 mile haul. sumed no hazardous contents for sampling/disposal				

Building Structure 47: Raw Meal Silo



Looking at NE side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 4	2001	1,220	173	Concrete wall	Caissons 32 ea at 1.22m x 6m with a 1.8m x 6m pile cap on top of caissons along perimeter wall	??
Metal B (Ft ³)	ldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0		211,060		0	0	
Explosive dem			losive den <u>nown wal</u>	<u>l thickness</u> , 124-ft die	concrete structures tural material minimum [TBD C a., 173-ft height x 1.695 swell f	

Building Structure 48: Raw Mill



Looking at north side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)	
Plant 4	2001	7,190	128	Steel and metal siding	Caissons 21 ea at .9m dia x 6.5m and 2 ea at 1.22m dia x 6.7m	24.6 (~2m of lean concrete & on top of that 5.5m of concrete)	
Metal B (Ft ³)	Metal Bldg. Vol. (Ft ³)		lldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes	
920,320		0		0	0		
D	emo Tasks:		than (es) action, on the disposal in approved in the main				

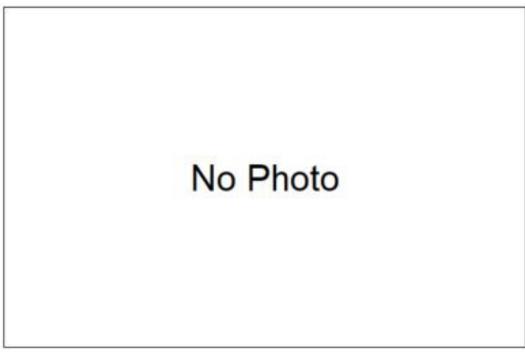
Building Structure 49: Clinker cooler Building



Looking at NWcorner.

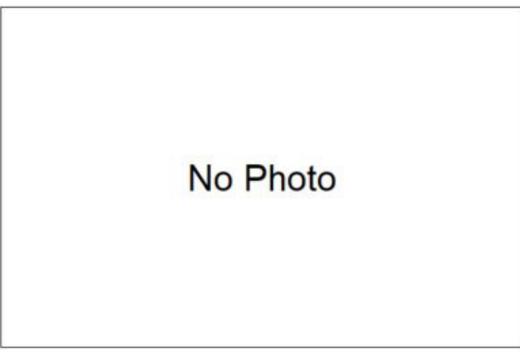
Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab	
	Built	(footprint)	(ft)		(ft)	Thickness (ft)	
Plant 4	2001	7,360	48	Concrete & Steel	Caissons 14 ea at 1.22m dia	3	
					x 8.5m and 29 ea at .9m dia		
					x 8.5m with 1.2m thick pile		
					cap on top of caissons		
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes	
(Ft ³)		(Ft³)		Wall Length (Ft)	(Ft ²)		
0		353,380		0	0		
D	Demo Tasks: •		Plant (3S) demo./off-site disposal in approved landfill – Max. 15 mile haul.				
		• Ass					

Building Structure 50: Old Primary Crusher



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Quarry	1973	4,386?	80?	Steel	8 misc piers 4 ea at 3'-3" x 6'-3", 2 ea at 3'-8" x 20'-9", 2 ea at 9" x 19"	5
Metal B (Ft ³)	Metal Bldg. Vol. (Ft ³)		lldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft²)	Notes
350,880?		0		0	0	No photo, but footprint and height appear too much
 Plant (3S) demo./off-site disposal in approved landfill - Max. 15 mile haul. Assumed no hazardous contents for sampling/disposal 						nile haul.

Building Structure 51: Old Secondary Crusher



Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab		
	Built	(footprint)	(ft)		(ft)	Thickness (ft)		
Quarry	1973	2,805	48	Steel	Piers, 1 ea at 3'-10" x 10'-2"	3		
					and 2 ea at 2'-8" x 10'-6"			
Metal B	Metal Bldg. Vol.		ldg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes		
(Ft ³)		(Ft³)		Wall Length (Ft)	(Ft ²)			
134,640		0		0	0	No photo, but		
						<mark>footprint and</mark>		
						<mark>height appear</mark>		
						<mark>too much</mark>		
Demo Tasks: • Plant (3S) den			nt (3S) den	no./off-site disposal in approved landfill - Max. 15 mile haul.				
		• Ass						

Building Structure 52: Coal Silo



Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)	
Plant 3	1973	1,075	58	Concrete wall	Caissons 10 ea at 2'-6" dia x 20' with a 2'-6" x 3'-6" caisson cap	3	
Metal B (Ft ³)	Metal Bldg. Vol. (Ft ³)		lldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft²)	Notes	
0		62,350		0	0		
D	emo Tasks:	 Explosive demo, large projects – concrete structures Explosive demo, Disposal of structural material minimum [1,524 CY – based on 1.1-m wall thickness, 37-ft dia., 58-ft height x 1.695 swell factor {similar to broken limestone}] 					

Building Structure 54: Plant 2 Mill Building



Looking at east side.



Looking at north end (Google Maps image).

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 2	1947	36,860	141	Metal siding wall	Footers 59ea varying sizes from 2'x1-6" to 12'x19' with 1' to 2'-9" thick, stem wall is 2'x3' with height varying from 5' to 7'.	6-8" concrete slab
Metal Bldg. Vol. (Ft ³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
5,197,2	50	0		1,090	6,540	
• Co			Bldg. (SN) demo./off-site disposal in approved landfill - Max. 15 mile haul conc. wall demo/on-site disposal in existing pit, 10 in. thick - 10,000 ft. haul 6,540 SF] Assumed no hazardous contents for sampling/disposal			

Building Structure 55: Truck Weigh Scale



Looking at south end.

Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab	
	Built	(footprint)	(ft)		(ft)	Thickness (ft)	
Plant 2	1996	1,000	2	Concrete and	No walls – open	10'x100'x9"	
				steel		concrete slab	
				(Wood Frame			
				Control Shed)			
Metal B	ldg. Vol.	Concrete Bldg. Vol.		Concrete Stem	Concrete Stem Wall Area	Notes	
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)		
83		0		0	0	Assume 1"	
						steel plate	
D	Demo Tasks: ● 10′ x 100′ s			eel plate, off-site disposal in approved landfill - Max. 15 mile haul.			
	 Wood shed: 8'x8'x8' = 512 ft³ off-site disposal in approved landfill - Max. 15 					ill - Max. 15	
		mile haul.					

Building Structure 56: Raw Water Tank



Looking at SE side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant 2	1996	1,963 (~72-ft dia. => 4,191 ft ²)	38 (32?)	Metal Bolted Tank	8' tall stem wall all around perimeter of tank.	1
Metal B (Ft ³)	Metal Bldg. Vol. (Ft ³)		Bldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
134,112*		0		230 (based on 72- ft tank dia.)	1,840*	*Quantities in red based on 72' dia. And 32 ft height
D	emo Tasks:	• Cor	nc. wall de 340 SF]	mo/on-site disposal	in approved landfill – Max. 15 in existing pit, 10 in. thick - 10, for sampling/disposal	

Building Structure 57: Old Old Primary Crusher



Looking at SE corner.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Quarry	1947	525	45	Concrete (& Steel??*)	Walls are 12 inches thick - no roof	3
Metal B (Ft ³)	Metal Bldg. Vol. (Ft ³)		Bldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
??*		23,625		0	0	*Photo suggests structure includes steel structure in addition to concrete
D	emo Tasks:	• Pla	nt (3S) der	no./off-site disposal	in approved landfill - Max. 15 ı	mile haul.
		• Ass	umed no l	nazardous contents f	or sampling/disposal	

Building Structure 58: Truck Washing Station



Looking at SW corner

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant	2016	400	10	Wood frame shed (appears to be cinder block)	No walls -open (appears to have 4 walls)	2
Metal B (Ft ³)	Bldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
0		4,000		0	0	Provide information on the below grade structure on either side of the cinder block building & the steel structure on the right side of the photo.
D	emo Tasks:	• Bld	g [D&D]: s	ingle-story concrete	bldg.; onsite disp. in C&D LF –	10,000 ft. haul.
		• Ass	umed no h	nazardous contents f	or sampling/disposal	

Building Structure 59: Ammonia Storage Building



Looking at north side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)
Plant	2016	2,924	26	Metal siding	1/2 walls 4 feet high	3
Metal Bldg. Vol. (Ft ³)		Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes
76,024		0		216	865	
D	emo Tasks:	• Cor [86 • Ass san	nc. wall de 5 SF] umed larg npling/disp	mo/on-site disposal e amount (18,800 ga oosal.	in approved landfill - Max. 15 in existing pit, 10 in. thick - 10, allons max.) of ammonia hydroump - 9,000 to 12,000 gal. tank	000 ft. haul xide for

Building Structure 60: Tirefuel Bins

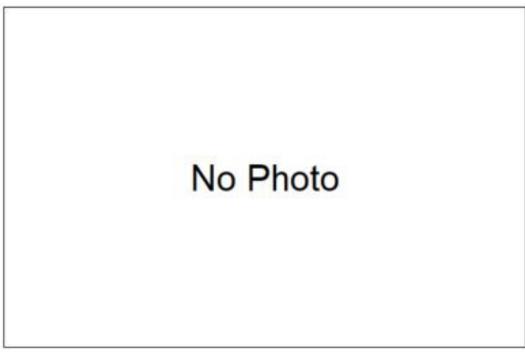


Photo not available.

Area	Year	Square Ft	Eave Ht	Building Material	Foundation Wall Type & Ht	Slab			
	Built	(footprint)	(ft)		(ft)	Thickness (ft)			
Plant	2012	1,750	10	No roof	12" concrete	2			
				(concrete)					
Metal B	Metal Bldg. Vol.		ldg. Vol.	Concrete Stem	Concrete Stem Wall Area	Notes			
(Ft ³)		(Ft ³)		Wall Length (Ft)	(Ft ²)				
0		0		150	1,500				
D	emo Tasks:	• Cor	nc. wall de	mo/on-site disposal	in existing pit, 12 in. thick - 10,	000 ft. haul			
		[1,500 SF]							
		• Ass							

Building Structure 61: Storage Warehouse



Looking at SW side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)	
Plant	2012	8,750	16	Metal siding / frame	Walls are 16 feet high - metal sheeting	2	
Metal B (Ft³)	Metal Bldg. Vol. (Ft ³)		ldg. Vol.	Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft²)	Notes	
140,000)	0		0	0		
D	Demo Tasks: • Bldg. (SN) d		g. (SN) der	mo./off-site disposal in approved landfill - Max. 15 mile haul.			
		 Assumed no hazardous contents for sampling/disposal 					

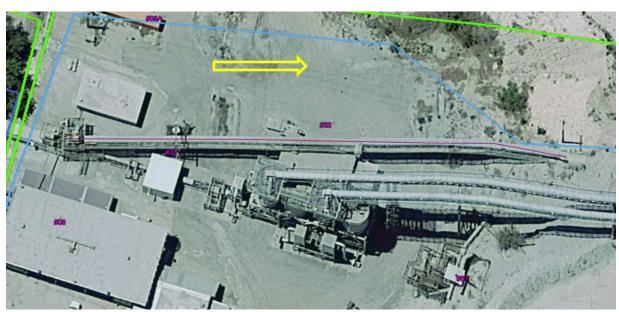
Building Structure 62: Plant 2 Area Concrete Silo



Looking from east side.

Area	Year Built	Square Ft (footprint)	Eave Ht (ft)	Building Material	Foundation Wall Type & Ht (ft)	Slab Thickness (ft)	
Plant 2	TBD	1,385 (based on 42-ft dia. in Google Earth)	TBD	Concrete	Not Provided	Not Provided	
Metal B (Ft³)	ldg. Vol.	Concrete Bldg. Vol. (Ft ³)		Concrete Stem Wall Length (Ft)	Concrete Stem Wall Area (Ft ²)	Notes	
0		Not Provid	ed	Not Provided	Not Provided	Not shown or labeled on Facility Map	
D	emo Tasks:	 Explosive demo, large projects – concrete structures Explosive demo, Disposal of structural material minimum [TBD CY – based on TBD wall thickness, 42-ft dia., TBD -ft height x 1.695 swell factor {similar to broken limestone}] 					

Conveyor A: Between Raw Mill Feed/Blended Material Analyzer (#33) & Raw Mill Feed Bins (#44)



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year Built	Length (ft)	X-Sect Area (ft ²)	Building Material	Foundation Type	Footer X-Sect Area (ft²)
		330	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6
Convey	or Vol.	Concrete Footer		Est. No. Footers	Concrete Footer Quantity.	Notes
(Ft³)		Length (Ft)		(~20′ O.C.)	(LF)	
21,120		8		17	136	Assume
						footers are 20
						ft on center
De	emo Tasks:	 Steel Conveyor, demolition, offsite disposal in approved landfill, 15 mile haul Footer (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft. haul Assumed no hazardous contents for sampling/disposal 				

Conveyor B: Between Raw Mill Feed Compressor (#32) & Preblend Shelter (#30)

{Adjacent and parallel to Conveyor C on west side}



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year Built	Length (ft)	X-Sect Area (ft²)	Building Material	Foundation Type	Footer X-Sect Area (ft²)	
		1,165	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6	
Conveyor Vol. (Ft ³)		Concrete Footer Length (Ft)		Est. No. Footers (~20' O.C.)	Concrete Footer Quantity. (LF)	Notes	
74,560		8		59	472	Assume footers are 20 ft on center	
Demo Tasks:		• F	 Steel Conveyor, demolition, offsite disposal in approved landfill, 15 mile haul Footer (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft. haul 				

Conveyor C: Between Raw Mill Feed Compressor (#32) & Preblend Shelter (#30)

{Adjacent and parallel to Conveyor B on east side}

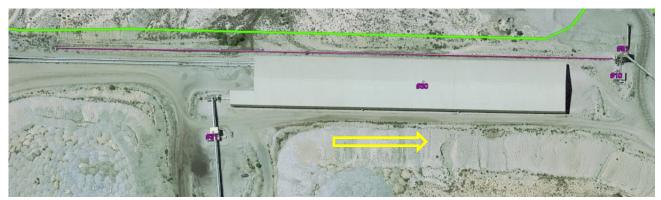


Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year	Length	X-Sect	Building Material	Foundation Type	Footer X-Sect		
	Built	(ft)	Area (ft²)			Area (ft²)		
		1,128	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6		
Convey	or Vol.	Concret	e Footer	Est. No. Footers	Concrete Footer Quantity.	Notes		
(Ft ³)		Length (Ft)		(~20′ O.C.)	(LF)			
72,192		8		57	456	Assume		
						footers are 20		
						ft on center		
D	emo Tasks:	• 9	Steel Conveyor, demolition, offsite disposal in approved landfill, 15 mile haul					
		• F	ooter (2 ft. x	3 ft.) Demo. & on-si	te disposal in existing pit, - Ma	x. 10,000 ft.		
		haul						
		• 4	Assumed no h	nazardous contents f	or sampling/disposal			

Conveyor D: Between Raw Mill Compressor (#32) & Old Secondary Crusher (#51)

{north of underground segment}



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year	Length	X-Sect	Building Material	Foundation Type	Footer X-Sect
	Built	(ft)	Area (ft²)			Area (ft²)
		1,883	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6
Convey	or Vol.	Concrete Footer		Est. No. Footers	Concrete Footer Quantity.	Notes
(Ft³)		Length (Ft)		(~20′ O.C.)	(LF)	
120,512		8		95	760	Assume
						footers are 20
						ft on center
D	emo Tasks:	• 9	Steel Convey	or, demolition, offsit	e disposal in approved landfill,	15 mile haul
• Footer (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 haul					x. 10,000 ft.	
Assumed no h			Assumed no h	nazardous contents f	or sampling/disposal	

Conveyor E: Between Old Secondary Crusher (#51) & Old Primary Crusher (#50)



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year Built	Length (ft)	X-Sect Area (ft ²)	Building Material	Foundation Type	Footer X-Sect Area (ft²)	
		1,195	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6	
Conveyor Vol.		Concrete Footer		Est. No. Footers	Concrete Footer Quantity.	Notes	
(Ft ³)		Length ((Ft)	(~20′ O.C.)	(LF)		
76,480		8		60	480	Assume	
						footers are 20	
						ft on center	
De	emo Tasks:	Steel Conveyor, demolition, offsite disposal in approved landfill, 15 mile haul					
	Footer (2 ft. x)		3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft.				
haul			naul				
		• 4	Assumed no h	nazardous contents f	or sampling/disposal		

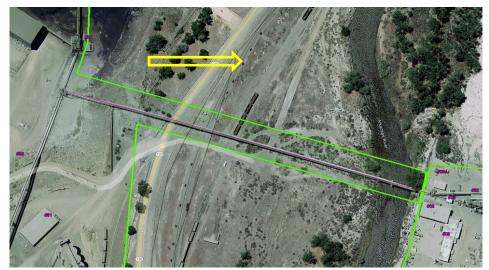
Conveyor F: Between Electric Crusher (#28) & Preblend Shelter (#30)



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year Built	Length (ft)	X-Sect Area (ft²)	Building Material	Foundation Type	Footer X-Sect Area (ft ²)	
		2,580	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6	
Conveyor Vol. (Ft ³)		Concrete Footer Length (Ft)		Est. No. Footers (~20' O.C.)	Concrete Footer Quantity. (LF)	Notes	
165,120		8		129	1,032	Assume footers are 20 ft on center	
Demo Tasks:		• I	Footer (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft. haul				

Conveyor G: Across Arkansas River from Quarry to Plant



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year Built	Length (ft)	X-Sect Area (ft²)	Building Material	Foundation Type	Footer X-Sect Area (ft ²)	
		1,360	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6	
Conveyor Vol. (Ft ³)		Concrete Footer Length (Ft)		Est. No. Footers (~20' O.C.)	Concrete Footer Quantity. (LF)	Notes	
87,040		8		68	544	Assume footers are 20 ft on center	
Demo Tasks:		• [Steel Conveyor, demolition, offsite disposal in approved landfill, 15 mile haul Footer (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft. haul 				

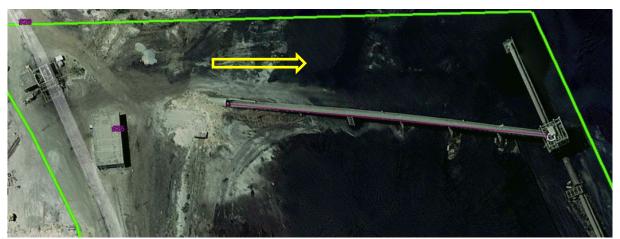
Conveyor H: East-West Segment North of Plant 2 Mill Bldg. (#54)



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year Built	Length (ft)	X-Sect Area (ft ²)	Building Material	Foundation Type	Footer X-Sect Area (ft²)
		490	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6
Conveyor Vol. (Ft ³)		Concrete Footer Length (Ft)		Est. No. Footers (~20' O.C.)	Concrete Footer Quantity. (LF)	Notes
31,360		8		25	200	Assume footers are 20 ft on center
D	emo Tasks:	 Steel Conveyor, demolition, offsite disposal in approved landfill, 15 mile haul Footer (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft. haul Assumed no hazardous contents for sampling/disposal 				

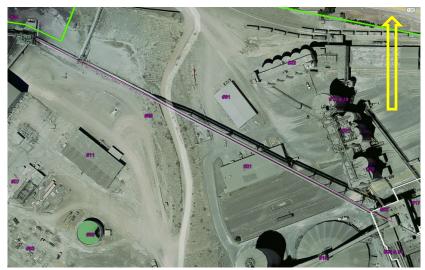
Conveyor I: North-South Segment West of Plant 2 Mill Bldg. (#54)



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year Built	Length (ft)	X-Sect Area (ft²)	Building Material	Foundation Type	Footer X-Sect Area (ft ²)	
		400	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6	
Convey (Ft ³)	Conveyor Vol. (Ft³)		e Footer (Ft)	Est. No. Footers (~20' O.C.)	Concrete Footer Quantity. (LF)	Notes	
25,600		8		20	160	Assume footers are 20 ft on center	
Demo Tasks:		• F	 Steel Conveyor, demolition, offsite disposal in approved landfill, 15 mile haul Footer (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft. haul 				

Conveyor J: Between Coal Hankling Control Rm (#24) & Service Bldg. (#02)



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year Built	Length (ft)	X-Sect Area (ft²)	Building Material	Foundation Type	Footer X-Sect Area (ft ²)	
		1,235	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6	
Conveyor Vol. (Ft ³)		Concrete Footer Length (Ft)		Est. No. Footers (~20' O.C.)	Concrete Footer Quantity. (LF)	Notes	
79,040		8		62	496	Assume footers are 20 ft on center	
Demo Tasks:		• F	• Footer (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft. haul				

Conveyor K: Between Service Bldg. (#02) & Raw Mill (#48)



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year	Length	X-Sect	Building Material	Foundation Type	Footer X-Sect	
	Built	(ft)	Area (ft²)			Area (ft²)	
		536	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6	
Convey	or Vol.	Concrete Footer		Est. No. Footers	Concrete Footer Quantity.	Notes	
(Ft³)		Length ((Ft)	(~20′ O.C.)	(LF)		
34,304	34,304			27	216	Assume	
						footers are 20	
						ft on center	
De	emo Tasks:	Steel Conveyor, demolition, offsite disposal in approved landfill, 15 mile haul					
	• Footer (2 ft.)		ooter (2 ft. x	3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft.			
haul							
		• /	Assumed no h	nazardous contents f	or sampling/disposal		

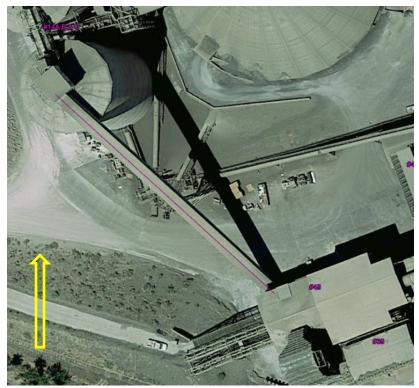
Conveyor L: Between Service Bldg. (#02) & Clinker Silos (#14A, B & C)



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Year Built	Length (ft)	X-Sect Area (ft²)	Building Material	Foundation Type	Footer X-Sect Area (ft²)	
	450	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6	
r Vol.			Est. No. Footers	Concrete Footer Quantity.	Notes	
	Length ((Ft)	(~20' O.C.)	(LF)		
	8		23	184	Assume	
					footers are 20	
					ft on center	
Demo Tasks:		 Steel Conveyor, demolition, offsite disposal in approved landfill, 15 mile haul Footer (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft. haul 				
	Built or Vol.	Built (ft) 450 Tr Vol. Concret Length (8	Built (ft) Area (ft²) 450 8′ x 8′ = 64 Tr Vol. Concrete Footer Length (Ft) 8 The mo Tasks: • Steel Conveyor • Footer (2 ft. x haul	Built (ft) Area (ft²) 450 8′ x 8′ = 64 Steel Tr Vol. Concrete Footer Est. No. Footers Length (Ft) (~20′ O.C.) 8 23 The mo Tasks: • Steel Conveyor, demolition, offsite • Footer (2 ft. x 3 ft.) Demo. & on-si haul	Built (ft) Area (ft²) 450 8′ x 8′ = 64 Steel Concrete footer Concrete Footer Length (Ft) (~20′ O.C.) 8 23 184 Steel Conveyor, demolition, offsite disposal in approved landfill, Footer (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Mahaul	

Conveyor M: Between South Clinker Silo (#14B) & Clinker Cooler Bldg. (#49)



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year Built	Length (ft)	X-Sect Area (ft²)	Building Material	Foundation Type	Footer X-Sect Area (ft²)
		295	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6
Conveyor Vol. (Ft ³)		Concrete Footer Length (Ft)		Est. No. Footers (~20' O.C.)	Concrete Footer Quantity. (LF)	Notes
18,880		8		15	120	Assume footers are 20 ft on center
Demo Tasks:		 Steel Conveyor, demolition, offsite disposal in approved landfill, 15 mile haul Footer (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft. haul Assumed no hazardous contents for sampling/disposal 				

Conveyor N: East-West Segment West of Mill Complex & South of Clinker Dome (#15)



Google Earth Image (6/1/2018. Arrow indicates approximate North).

Area	Year Built	Length (ft)	X-Sect Area (ft ²)	Building Material	Foundation Type	Footer X-Sect Area (ft²)
		320	8' x 8' = 64	Steel	Concrete footer	2' x 3' = 6
Conveyor Vol. (Ft ³)		Concrete Footer Length (Ft)		Est. No. Footers (~20' O.C.)	Concrete Footer Quantity. (LF)	Notes
20,480		8		16	128	Assume footers are 20 ft on center
• Fo			ooter (2 ft. x	eel Conveyor, demolition, offsite disposal in approved landfill, 15 mile haul ooter (2 ft. x 3 ft.) Demo. & on-site disposal in existing pit, - Max. 10,000 ft.		

ID Building/Description (Discrepancy)

19E No Description (shown on Map: north of water tanks next to #45 Air/oil House Bldg and east of the Administrative Office/#13; but not listed in the list on the Map nor on the spreadsheet)

- 23 Raw Water Pump House (Contained in list on Map & on spreadsheet, but location not shown on map)
- 27 Quonset Hut Misc. Storage (Contained in list on Map & on spreadsheet, but location not shown on map)
- 38 Cooler pump shed (Contained in list on Map & on spreadsheet, but location not shown on map)
- 40 Clinker Silo Electrical & Transformer Room (Contained in list on Map & on spreadsheet, but location not shown on map)
- 43 Water Filtration Plant (Contained in list on Map & on spreadsheet, but location not shown on map)
- Old Primary Crusher (There are two #50 locations shown on the map: one on the farthest north end of the map, and the other is on the south end of the #2 Service Bldg.)
- 52 Coal Silo (Contained in list on Map & on spreadsheet, but location not shown on map)
- ___ Silo described during the inspection as "Old Clinker Silo" this is west of #56 Raw Water Tank {see inspection photo below} (this silo is not on the map, map list or spreadsheet and has no ID #)