

TABLE 2-1

FILL/SOURCE MATERIALS OBSERVED IN EACH RU
 SUPPLEMENTAL FEASIBILITY STUDY REPORT
 FMC Corporation, Pocatello, Idaho
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Remediation Unit Number, Name, and Size	Predominant Surface Fill Material ¹	Predominant Subsurface Fill Materials ²	Potential Source Materials Incidental to Fill Material ³	Depth to Native Soil Based upon RI/SRI Borings ³ (Feet bgs)	Depth of Fill from Cut & Fill Isopach Model (Feet)	Fill/Source Materials Considered for HHRA Exposure Scenarios ⁷	Estimated Total Volume of Fill (yd ³)	Estimated Volume of P4 Min – Max. (tons)
RU 1: Furnace Building, Phos Dock and Secondary Condenser 4.1 acres	Slag Concrete foundations Asphalt w/ slag aggregate Silica	Slag Concrete foundations Silica	P4 Underground Piping ⁴ Precipitator solids Phosy solids	Min: 5 feet Max: 10 feet	Min: 2.7 Max: 14.5 Ave: 8.2	Slag P4 Precipitator solids Phosy Solids	56,580	580 to 5,470 An upper bound max. volume based upon 1% of lifetime production has been calculated at 52,400 tons
RU 2: Slag Pit 3.7 acres	Slag Concrete foundations	Slag Concrete foundations Reworked native soil w/ slag	P4 Precipitator Solids Underground Piping ⁴ Phosy solids	Min: No data Max: No data	Min: 1 Max: 12.3 Ave: 4.7	Slag P4 Precipitator solids Phosy solids	20,485	Included with RU 1
RU 3: Receiving, Stores, Paint Shop and P ₄ Decon 1.3 acres	Slag Concrete foundations Asphalt w/ slag aggregate Silica Reworked native soil w/ slag	Slag Concrete foundations Silica Reworked native soil w/ slag	Underground Piping ⁵	Min: 2 feet Max: 20 feet	Min: 2 Max: 20 Ave: 5.9	Slag	15,860	0 ⁵ P4 present in the capillary fringe beneath this RU, down gradient of RU1 & RU2 is included in the volume estimated for RU1.
RU 4: Office Buildings and Training Center 2.5 acres	Slag Concrete foundations Asphalt w/ slag aggregate Silica Reworked native soil w/ slag	Slag Concrete foundations Silica Reworked native soil w/ slag		Min: 1.5 feet Max: 14 feet	Min: 1.5 Max: 14 Ave: 6.9	Slag	28,830	0
RU 5: Lab and Old Drainfield 0.6 acres	Slag Concrete foundations Asphalt w/ slag aggregate Silica Reworked native soil w/ slag	Slag Concrete foundations Silica Reworked native soil w/ slag		Min: 1.5 feet Max: 12 feet	Min: 1.5 Max: 18.1 Ave: 6.8	Slag	7,140	0
RU 6: Former Long-Term Phos Storage Tanks 1.4 acres	Slag	Slag Reworked native soil w/ slag	Coke Ferrophos	Min: 5 feet Max: 15 feet	Min: 5 Max: 17.2 Ave: 12.6	Slag Coke Ferrophos	28,294	0
RU 7: Shale Unload, Crushing and Stockpile 25.0 acres	Raw ore Slag Concrete foundations Asphalt w/ slag aggregate Silica	Raw ore Slag Concrete foundations Silica Reworked native soil w/ slag	Coke	Min: 1 feet Max: 25 feet	Min: 1 Max: 29.3 Ave: 9.3	Slag Ore Coke	487,542	0 P4 present in the capillary fringe beneath this RU, down gradient of RU1 & RU2 is included in the volume estimated for RU1.

¹ “Predominant Surface Fill Material” describes primary materials as observed on the surface during the SRI.

² “Predominant Subsurface Fill Material” describes primary materials as observed during SRI trenching/boring down to native soil interface.

³ Based upon RI and SRI observations as reported on boring logs.

⁴ Underground piping formerly used for precipitator slurry or phosy water, thus presumed to contain precipitator solids, phosy solids and P4. Total P4 volume estimated collectively across the FMC OU in these underground pipes ranges from 2.8 to 28 tons.

⁵ Underground piping formerly used for stormwater, but often carried overflow phosy water from RU 1 to RU 22c, thus presumed to contain phosy solids and P4. Total P4 volume estimated collectively across the FMC OU in these underground pipes ranges from 0.13 to 0.6 tons.

⁶ Underground piping formerly used for carbon monoxide gas, thus presumed to contain P4. Total P4 volume estimated collectively across the FMC OU in these underground pipes ranges from 0.2 to 1.8 tons.

⁷ Risks associated with exposure to the contents of underground piping runs are evaluated separately from risks associated with exposure to other surface and subsurface fill/source materials identified in an RU.

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RU 8: Former Kiln Scrubber Ponds and Calciners 6.7 acres	Calcined ore Slag Concrete foundations Asphalt w/ slag aggregate Silica	Calcined ore Slag Concrete foundations Silica Reworked native soil w/ slag	Kiln pond solids Underground Piping ⁶	Min: 3 feet Max: 12.5 feet	Min: 1 Max: 17 Ave: 5.1	Slag Ore Calciner pond solids Calcined ore	41,630	0 ⁶
RU 9: Silica Stockpiles and Former Kiln Scrubber Overflow Pond 12.9 acres	Calcined ore Raw ore Slag Silica Asphalt w/ slag aggregate	Calcined ore Raw ore Slag Silica Reworked native soil w/ slag	Kiln pond solids Coke	Min: 3 feet Max: 40 feet	Min: 1 Max: 40 Ave: 9.9	Slag Ore Calciner pond solids Coke Calcined ore	206,110	0
RU 10: IWW Pond and Ditch 1.3 acres	Slag Silica Asphalt w/ slag aggregate	Slag Silica Reworked native soil w/ slag	Precipitator solids	Min: 0 feet Max: 8 feet	Min: 1 Max: 18.7 Ave: 8.9	Slag Precipitator solids	22,883	0
RU 11: Equipment Area South of Calciners 8.4 acres	Slag Concrete foundations Asphalt w/ slag aggregate	Slag Concrete foundations Reworked native soil w/ slag		Min: 3 feet Max: 30 feet	Min: 1 Max: 30.7 Ave: 12.5	Slag	169,230	0
RU 12: Former RP&S Area and Mobile Shop 11.6 acres	Slag Concrete foundations Asphalt w/ slag aggregate	Slag Concrete foundations Reworked native soil w/ slag	Ferrophos PCDT water residues Underground Piping ⁴ Precipitator solids Phossey solids P4	Min: 1 feet Max: 13.5 feet	Min: 1 Max: 16.3 Ave: 6.9	Slag P4 Precipitator solids Phossey solids Ferrophos PCDT water residue	129,165	0 ⁴ Assumes P4 in shallow soils from historical pipeline releases.
RU 13: Pond 8S Recovery Process and Metal Scrap Preparation Area 3.6 acres	Slag Concrete foundations Asphalt w/ slag aggregate	Slag Concrete foundations	P4 Precipitator solids Phossey solids Underground Piping ⁴	Min: 4 feet Max: 23 feet	Min: 1 Max: 24.5 Ave: 11.6	Slag Precipitator solids Phossey solids P4	66,630	25 to 60 Min. assumes 1000 ppm in fill. Max assumes 2500 ppm in fill.

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RU 15: Oversize Ore, Used Electrode, Baghouse Dust Area 11.7 acres	Calcined Ore Slag Bullrock	Calcined Ore Slag Bullrock	Coke Graphite/carbon Calciner pond solids	Min: 5 feet Max: 39 feet	Min: 1 Max: 45 Ave: 11.4	Slag Ore Coke Calciner pond solids Calcined Ore	212,370	0
RU 16: Calciner Solids Stockpile 15.1 acres	Calciner pond solids Slag	Calciner pond solids Slag		Min: 1.5 feet Max: 42 feet	Min: 1 Max: 42 Ave: 4	Slag Calciner pond solids	92,750	0
RU 19: Slag Pile, Bull Rock Pile 151.5 acres	Slag Bull rock	Slag Bull rock	P4 Phossey solids (presumed at depth in buried rail cars)	Min: 5 feet Max: No data	Min: 1 Max: 152.8 Ave: 62.9	Slag Ore	14,528,100	200 to 2,000 P4 is associated with sludge in buried railcars in slag pile. Min. based upon railcars being 10% full. Max. is based upon railcars being 75% full.
RU 20: Former Bannock Paving Area 61.6 acres	Slag Concrete foundations Asphalt w/ slag aggregate	Slag Concrete foundations Reworked native soil w/ slag	Coke Ferrophos PCDT water residues Fuel spill residues	Min: 1.5 feet Max: 12 feet	Min: 1.5 Max: 42.1 Ave: 7.4	Slag Coke Ferrophos PCDT water residue Fuel spill residue	735,790	0
RU 21: Other Onsite Railsurs NA	Slag	Slag		Unknown	TBD	Slag	TBD	0
RU 22b: Old Ponds 37.7 acres	Slag Reworked native soil w/ slag	Slag Reworked native soil w/ slag	P4 Phossey solids Precipitator solids Ferrophos Underground Piping ⁴	Min: 0 feet Max: 20 feet	Min: 0 Max: 43.9 Ave: 9.8	Slag Precipitator solids Phossey solids P4 Ferrophos	595,820	4,440 to 10,800 Min. is based upon plant estimate in 1991. Max. is based upon a percentage of total fill in ponds.

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RU 22c: Railroad Swale 2.4 acres	Slag Reworked native soil w/ slag	Slag	P4 Phosy solids Ore	Min: 8 feet Max: 14 feet	Min: 8 Max: 15 Ave: 12	Slag Phosy solids P4 Ore	40,607	4 to 10 Min. assumes 1000 ppm in fill. Max assumes 2500 ppm in fill
RU 23: Road Segments not within RU Boundaries 23.0 acres	Slag Reworked native soil w/ slag Asphalt w/ slag aggregate	Slag Reworked native soil w/ slag	PCDT water residues	Min: 2 feet Max: 20 feet	Min: 1 Max: 20 Ave: 1	Slag PCDT water residue	33,904	0
RU 24: Plant Areas not within RU Boundaries 52.5 acres	Slag Concrete foundations Asphalt w/ slag aggregate Silica Reworked native soil w/ slag	Slag Concrete foundations Silica Reworked native soil w/ slag	Underground Piping ⁴	Min: 1 feet Max: 13 feet	Min: 1 Max: 15 Ave: 6.7	Slag	565,430	0 ⁴

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