

CORRECTION(S) TO WATER WELL RECORD (WWC-5)

(to rectify lacking or incorrect information)

County: Crawford

Location listed as:

Section-Township-Range: 19-30-(35E)

Fraction ($\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$): _____

Location changed to:

19-30-25E

SW SE NE

Other changes: Initial statements: _____

Changed to: _____

Comments: _____

verification method: Site location in Pittsburg, County map

initials: DLA date: 7/30/07

submitted by: Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3726
to: Kansas Dept of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367.

MW-5

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No.

1 LOCATION OF WATER WELL: County: <u>CRAWFORD</u>	Fraction <u>SW 1/4 SE 1/4 NE 1/4</u>	Section Number <u>19</u>	Township Number T <u>30S</u>	Range Number R <u>35 EW</u>
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Distance and direction from nearest town or city street address of well if located within city?
150 FT EAST OF WALNUT 2050 SOUTH OF 18TH AVE

2 WATER WELL OWNER: METSO Minerals Industries Inc
RR#, St. Address, Box # : 240 Arch St. Po Box 17312
City, State, ZIP Code : York PA 17405-7312

Global Positioning Systems (decimal degrees, min. of 4 digits)
Latitude: _____
Longitude: _____
Elevation: _____
Datum: _____
Data Collection Method: _____

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:

N

W	-- NW --	-- NE --	E
	-- SW --	-- SE --	
	S		

4 DEPTH OF COMPLETED WELL 16 ft.

Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.
WELL'S STATIC WATER LEVEL..... 2.50 ft. below land surface measured on mo/day/yr.....
Pump test data: Well water was.....ft. after..... hours pumping..... gpm
Est. Yield.....gpm: Well water was.....ft. after..... hours pumping..... gpm
WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well
1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well

Was a chemical/bacteriological sample submitted to Department? Yes No ; If yes, mo/day/yr
Sample was submitted..... Water well disinfected? Yes No

5 TYPE OF CASING USED: 5 Wrought Iron 8 Concrete tile CASING JOINTS: Glued..... Clamped.....
1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) Welded.....
2 PVC 4 ABS 7 Fiberglass Threaded.....

Blank casing diameter 2 in. to 6 ft., Diameter..... in. to ft., Diameter in. to ft.
Casing height above land surface..... 0 in., Weight..... lbs./ft. Wall thickness or guage No. SD-40

TYPE OF SCREEN OR PERFORATION MATERIAL:
1 Steel 3 Stainless Steel 5 Fiberglass 7 PVC 9 ABS 11 Other (Specify)
2 Brass 4 Galvanized Steel 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
1 Continuous slot 3 Mill slot 5 Guazed wrapped 7 Torch cut 9 Drilled holes 11 None (open hole)
2 Louvered shutter 4 Key punched 6 Wire wrapped 8 Saw Cut 10 Other (specify)

SCREEN-PERFORATED INTERVALS: From..... 6 ft. to 16 ft., From ft. to ft.
From..... ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From..... ft. to ft., From ft. to ft.
From..... ft. to ft., From ft. to ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other

Grout Intervals: From 2 ft. to 4 ft., From ft. to ft., From ft. to ft.

What is the nearest source of possible contamination:
1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 13 Insecticide Storage 16 Other (specify
2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well below)
3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer Storage 15 Oil well/gas well

Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
		<u>SEE ATTACHED Boring log</u>			
		<u>SB-014</u>			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 6-20-07..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 753..... This Water Well Record was completed on (mo/day/year) 6-22-07..... under the business name of Environmental Works by (signature) [Signature]

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well. Visit us at <http://www.kdhe.state.ks.us/geo/waterwells>.



**RECORD OF SUBSURFACE
INVESTIGATION**

BORING IDENTIFICATION: SB-014
PAGE 1 OF 1

CLIENT: Metso Minerals
PROJECT NAME: Voluntary Cleanup Investigation
SITE LOCATION: Pittsburg, KS
DRILLING LOCATION:

PROJECT NUMBER: JG0073.323
DATE DRILLED: 1/04/2007
ELEVATION:
DRILLING METHOD: Geoprobe

GEOLOGIC DESCRIPTION	FT	No	REC%	TPV (ppm)	COMMENTS			
Concrete 6 inches	1	0-2	70		AME S-053 @ 1'			
Light brown clay	2							
Black red clay	3	2-4						
Tan orangeish clay well sorted	4							
	5	4-6	80		AME S-054 @ 5'			
Tan orangeish clay	6							
	7	6-8						
	8							
Orangeish tan and brown clay	9	8-10				60		AME S-055 @ 10'
Brick/red sandstone	10							
Tan orangeish clay, moist and soft	11	10-12						
	12							
	13	12-14	Hit groundwater @ 12' AME GW-013 collected using 0.45 micron filter					
Black coal dry and hard	14							
	15	14-16						
	16							
	17	16-18						
	18							

- * = Sample Submitted for Analysis
- No = Sample Number
- FT = Stratum Depth in Feet Below Grade
- ppm = Parts Per Million
- REC = Percent of Total Sample Recovered
- TPV = Total Photoionizable Vapors

ST#	SOIL BORING LOG		BORING NUMBER 1-8
R#	OVERSEEING GEOLOGIST	DRILLER XDS / Environmental work	
SITE NAME Former Grandby Mining	DRILLING METHOD Geoprobe	SAMPLING METHOD Geoprobe macrocore	
SITE ADDRESS 1308 N. Walnut Pittsburg KS	BOREHOLE DIAMETER 8.25"	SAMPLING INTERVAL Continuous	
DATE OF BORING 6-18-07 - 6-21-07	TOTAL BORING DEPTH 16'	STATIC WATER LEVEL, Approx 7'	

Boring Construction Details	Approx. Depth in Feet	Lithographic Description and Remarks	PID Reading (ppm)	Sample Identification
	0 5 10 15 20 25 30 35 40 45 50	Riser KS Drilling License # 753		

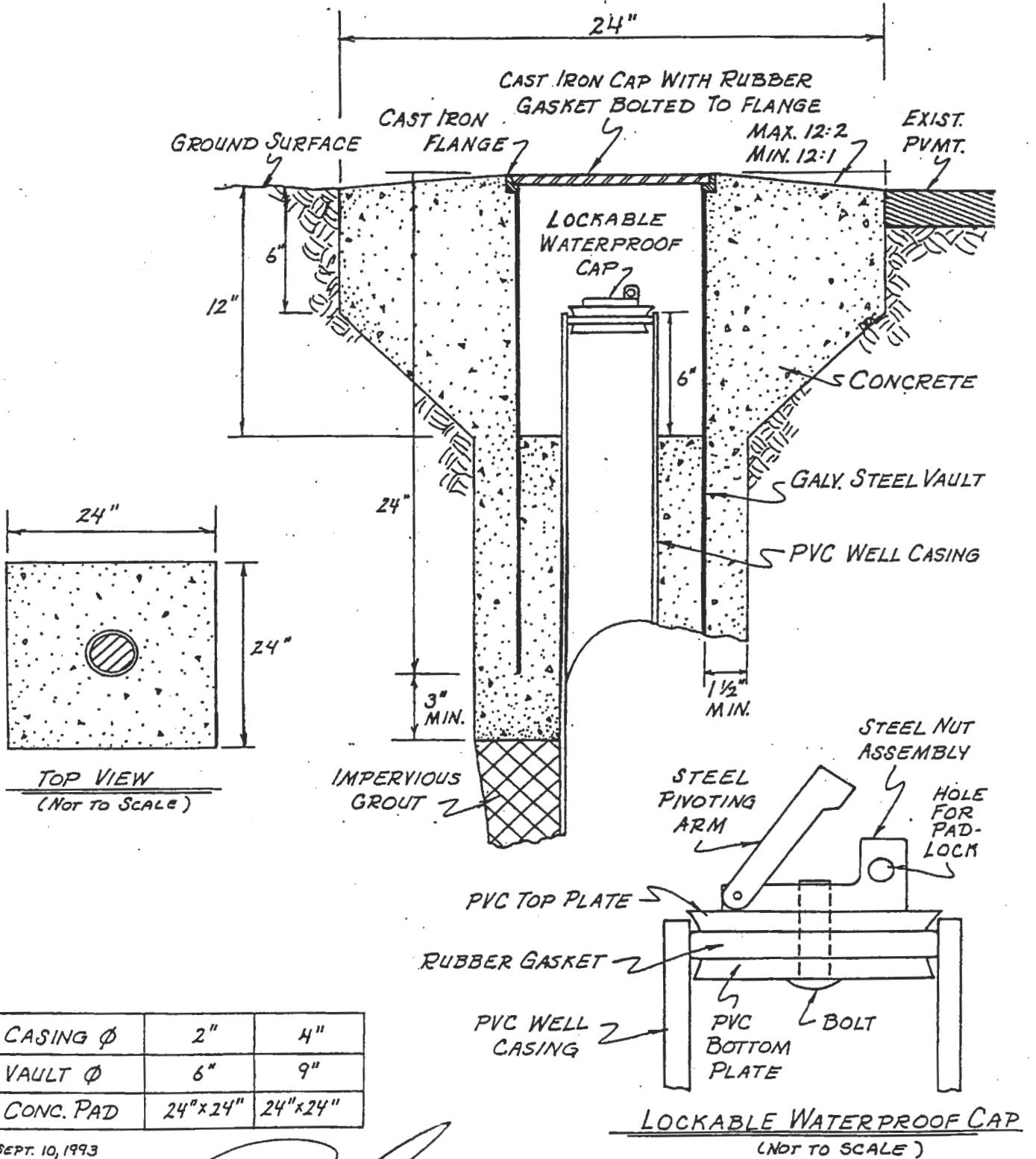
COMMENTS:

[Signature]

- Limestone
- Silt
- Sand
- Sandstone
- Clay
- Soil
- Chert
- Sand
- Gravel

FLUSH-MOUNT WELL CONSTRUCTION DETAIL

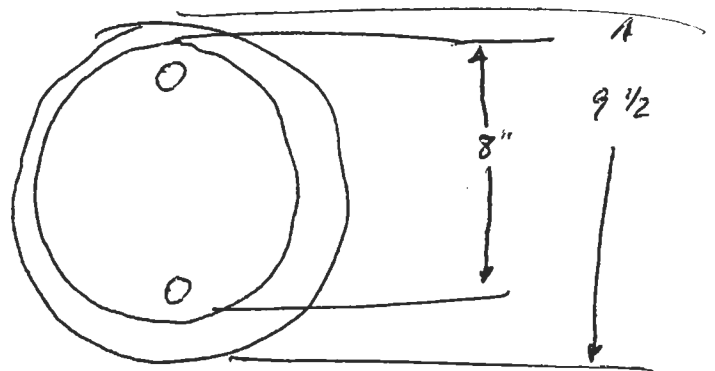
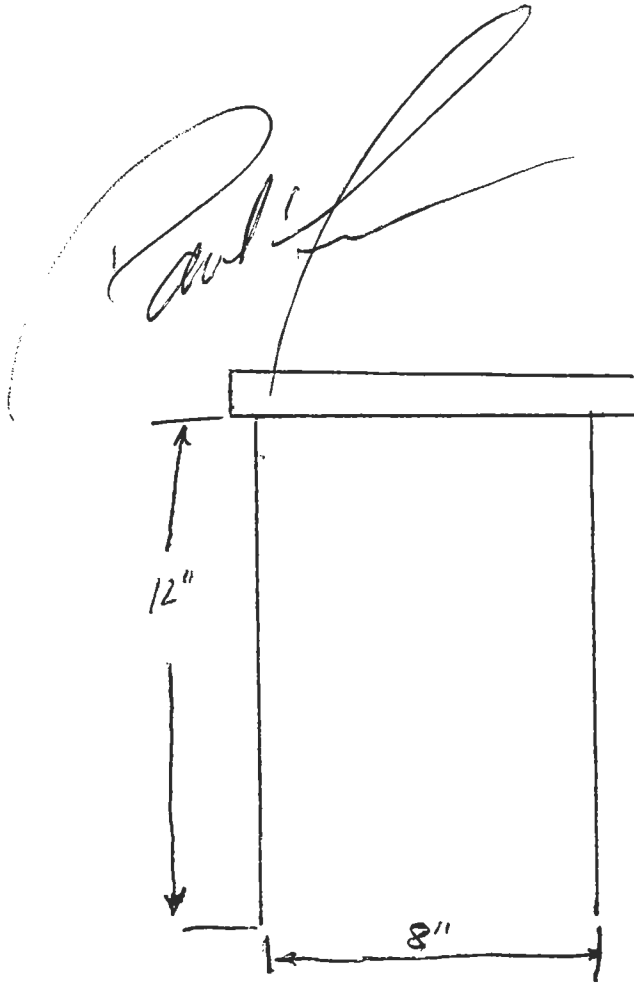
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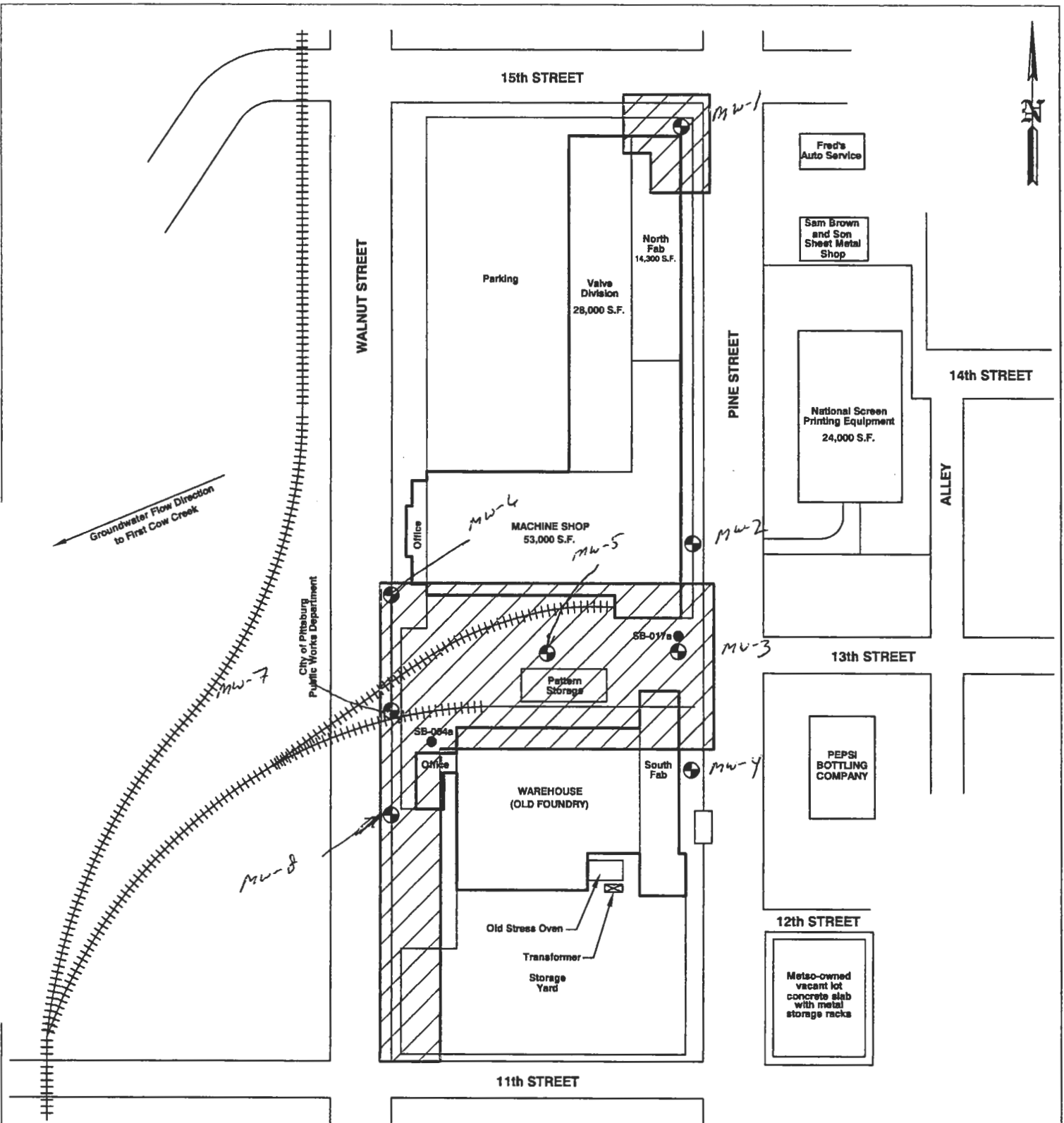


SEPT. 10, 1993

Randy

8' x 12" Manhole with watertight gasket.
EMi (manufacturer)





Groundwater Flow Direction
to First Cow Creek

City of Pittsburg
Public Works Department

LEGEND

- PROPOSED EXTENT OF NO FURTHER ACTION DETERMINATION
- SOIL BORING LOCATIONS
- PROPOSED GROUNDWATER MONITORING WELL LOCATIONS



841 WHEATLAND AVE, SUITE 202
LANCASTER, PA 17603

(717) 399-9587
(717) 399-6493 FAX

August Mack
ENVIRONMENTAL

METSO MINERALS INDUSTRIES, INC.
1308 N. WALNUT STREET
PITTSBURG, KANSAS

SITE PLAN 2

PROJECT No.: JG0020.333	FILENAME: X:\AMEPS\PG0048.333\Site Plan2	DATE: 05/15/2007
DRAWN BY: ZWG	SCALE: AS SHOWN	FIGURE: 2