

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.

1 LOCATION OF WATER WELL: Fraction **SW 1/4 SE 1/4 NE 1/4** Section Number **19** Township Number **T 30 S** Range Number **R 35 E/W**
 County: **CRAWFORD**

Distance and direction from nearest town or city street address of well if located within city?
Southwest of Intersection of Pine St : 25th Ave 31 Feet

2 WATER WELL OWNER: **Melso Mineral Industries, Inc**
 RR#, St. Address, Box #: **200 Arch St. P.O. Box 17312** Board of Agriculture, Division of Water Resources
 City, State, ZIP Code: **York PA 17405-7312** Application Number: _____

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

4 DEPTH OF COMPLETED WELL **16** ft. ELEVATION: _____

Depth(s) Groundwater Encountered: 1 ft. 2 ft. 3 ft.

WELL'S STATIC WATER LEVEL **11.73** 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 **NO**

5 TYPE OF BLANK CASING USED: **2 PVC**

1 Steel	3 RMP (SR)	5 Wrought iron	8 Concrete tile	CASING JOINTS: Glued _____ Clamped _____
2 Brass	4 ABS	6 Asbestos-Cement	9 Other (specify below)	Welded _____
		7 Fiberglass		Threaded _____ <input checked="" type="checkbox"/>

Blank casing diameter **2** in. to **6** ft., Dia in. to ft., Dia in. to ft.

Casing height above land surface **0** in., weight lbs./ft. Wall thickness or gauge No. **SD 40**

TYPE OF SCREEN OR PERFORATION MATERIAL: **7 PVC**

1 Steel	3 Stainless Steel	5 Fiberglass	8 RMP (SR)	10 Asbestos-Cement
2 Brass	4 Galvanized Steel	6 Concrete tile	9 ABS	11 Other (Specify) _____
				12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: **3 Mill slot**

1 Continuous slot	5 Gauzed wrapped	8 Saw cut	11 None (open hole)
2 Louvered shutter	6 Wire wrapped	9 Drilled holes	
	7 Torch cut	10 Other (specify) _____	ft.

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

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

6 GROUT MATERIAL: **3 Bentonite**

1 Neat cement	2 Cement grout	3 Bentonite	4 Other _____
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Grout Intervals: From **2** ft. to **4** ft., From ft. to ft.

What is the nearest source of possible contamination: **10 Livestock pens**

1 Septic tank	4 Lateral lines	7 Pit privy	11 Fuel storage	14 Abandoned water well
2 Sewer lines	5 Cess pool	8 Sewage lagoon	12 Fertilizer storage	15 Oil well/Gas well
3 Watertight sewer lines	6 Seepage pit	9 Feedyard	13 Insecticide storage	16 Other (specify below) _____

Direction from well? _____ How many feet? _____

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
		SEE ATTACHED BOING 1094 SB-019			

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/yr) **6-19-07** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No **753** This Water Well Record was completed on (mo/day/yr) **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 to 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.



**RECORD OF SUBSURFACE
INVESTIGATION**

BORING IDENTIFICATION: SB-019
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
					AME S-072 @ 1'
Black silty clay with some sand	1	0-2			
	2				
Black silty sand	3	2-4			
Orange clay with black streaks	4				
Brown silty clay	5	4-6			AME S-073 @ 5'
Hard silty black clay	6				
Gray, tan dry clay	7	6-8			
Gray tan hard clay with orange streaks	8				
	9	8-10			AME S-074 @ 9'
	10				
	11	10-12			
	12				
Dry orange and gray silty clay	13	12-14			AME S-075 @ 14'
	14				
14' - 16' Sand stone SET well @ 16'	15	14-16			Refusal @ 14'
	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 Centimeters	
DATE OF BORING 6-18-07 - 6-21-07	TOTAL BORING DEPTH 16'	STATIC WATER LEVEL Approx 7'	

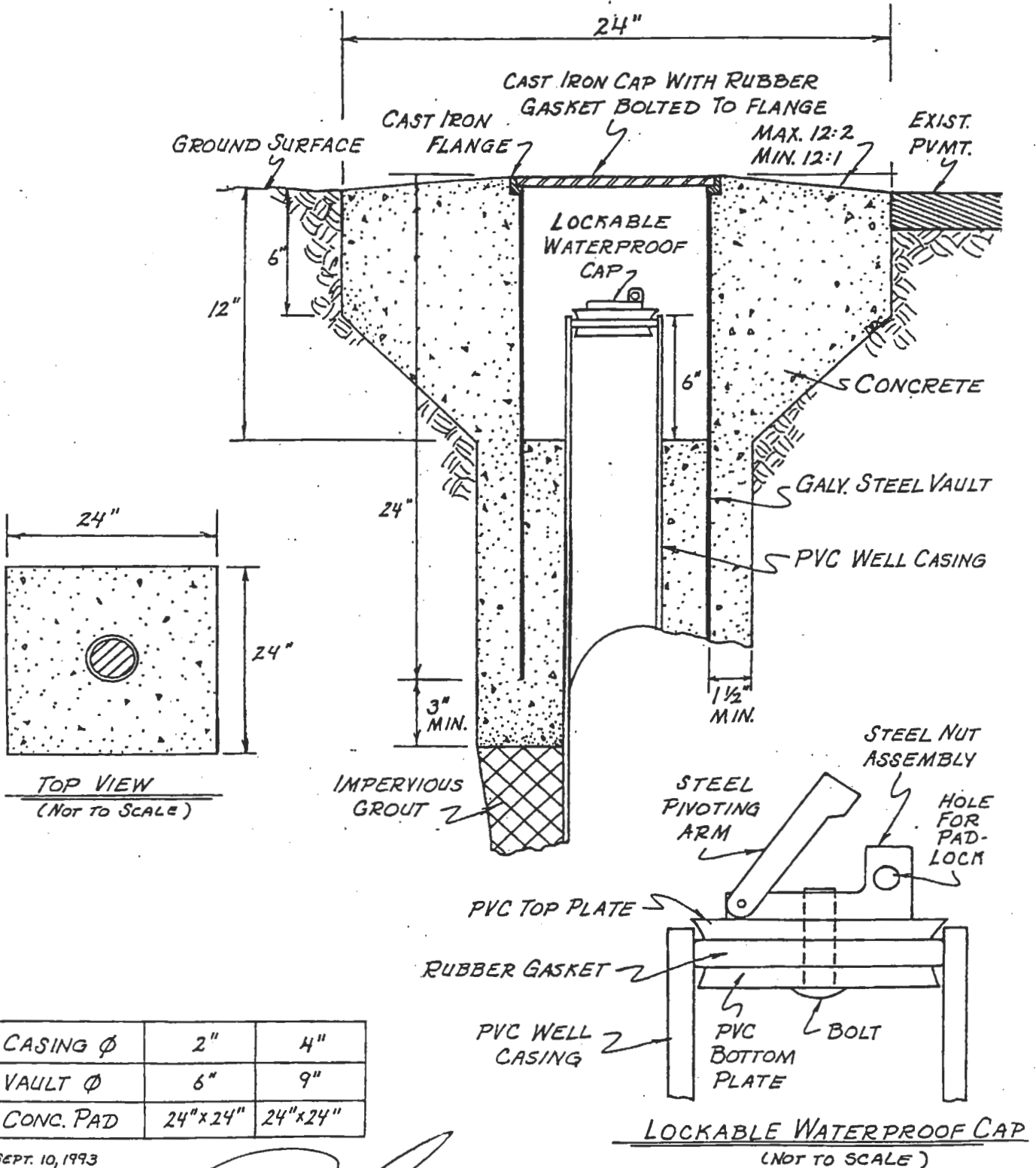
Boring Construction Details	Approx. Depth in Feet	Lithographic Description and Remarks	PID Reading (ppm)	Sample Identification
	0 5 10 15 20 25 30 35 40 45 50	RISER KS DRILLING LICENSE # 753		

COMMENTS:

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

FLUSH-MOUNT WELL CONSTRUCTION DETAIL

(NOT TO SCALE)



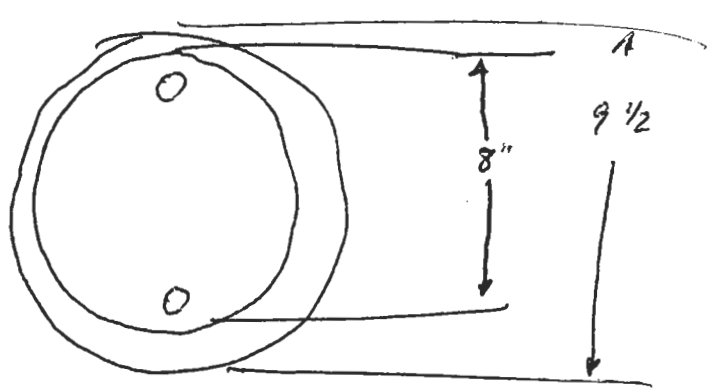
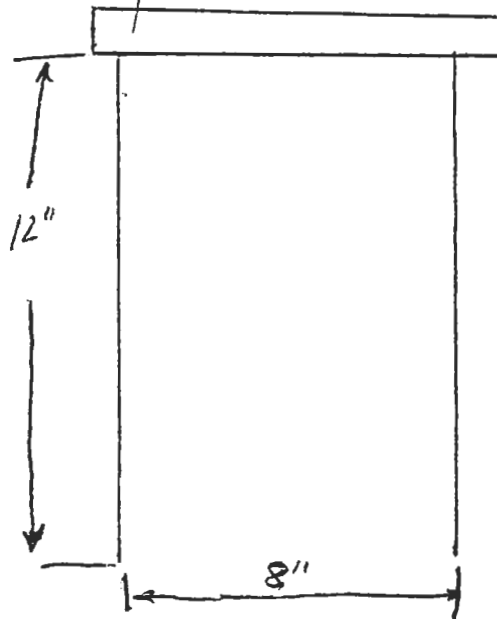
CASING Ø	2"	4"
VAULT Ø	6"	9"
CONC. PAD	24" x 24"	24" x 24"

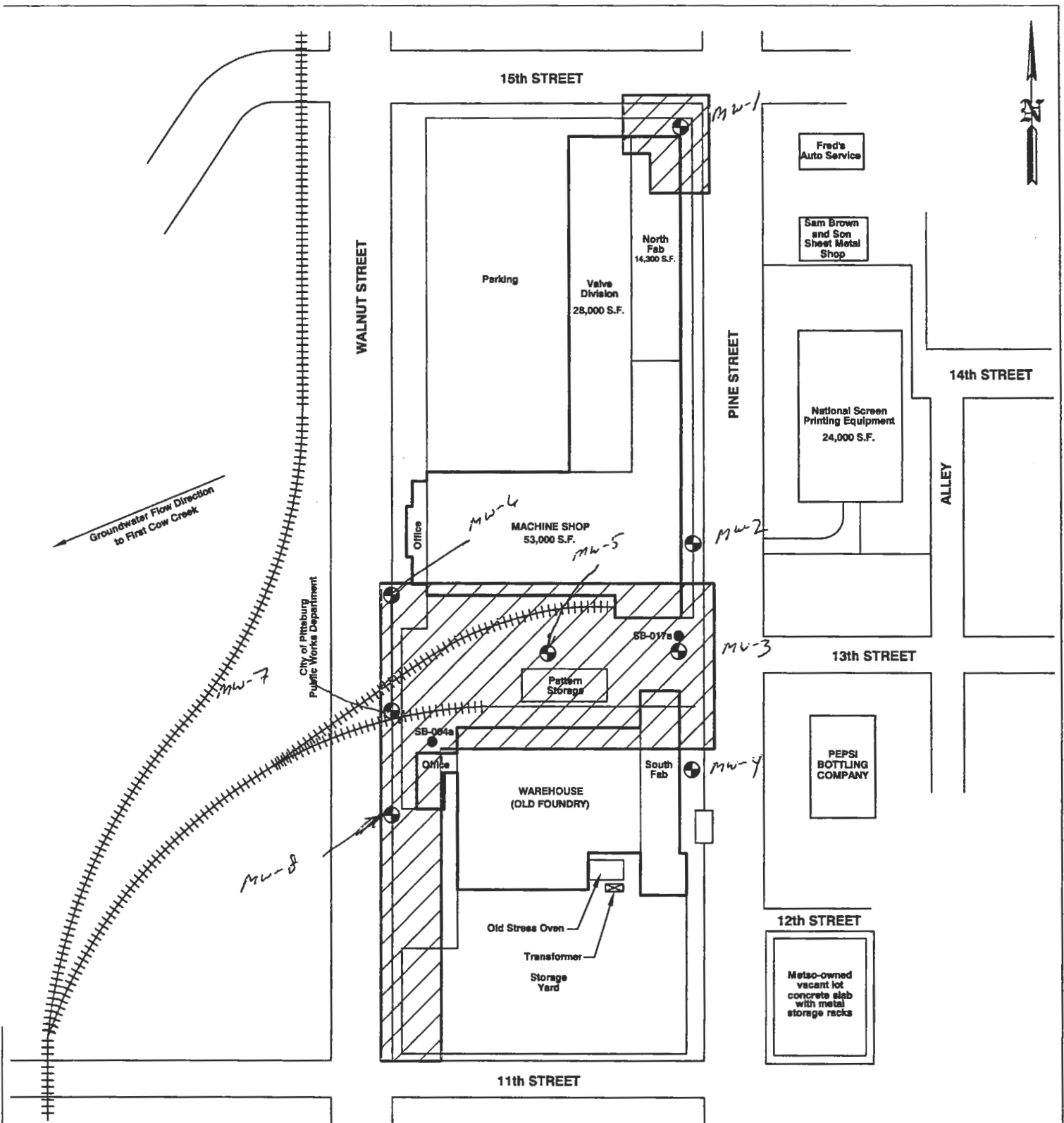
SEPT. 10, 1993

Paul

8" x 12" Manhole with watertight gasket,
EMI (manufacturer)

Paul








Groundwater Flow Direction
to First Cow Creek

City of Pittsburgh
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) 399-5483 FAX

August Mack
ENVIRONMENTAL

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

SITE PLAN 2

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