

- 031600AGL - H Kramer & Co

- SOURCE DATA -

AIRS: 17-031-1203	IEPA USE ONLY	SIC 1: 3341	NAICS 1: 331423
FINDS: ILD005067772	IEPA USE ONLY	SIC 2:	NAICS 2:
FEIN: 36-1340270		SIC 3:	NAICS 3:
D&B: 005067772		SIC 4:	NAICS 4:
LATITUDE: 41:51:13.0320		SIC 5:	NAICS 5:
LONGITUDE: 87:39:35.6400		SIC 6:	NAICS 6:

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

AUTHORIZED SIGNATURE _____ DATE _____

TYPED OR PRINTED NAME AND TITLE _____ TELEPHONE NUMBER _____

ANNUAL
EMISSION
REPORT
MAILING
ADDRESS

SOURCE
ADDRESS

SOURCE
IDS AND
LOCATION

DAPC - ANNUAL EMISSIONS REPORT - 2001

031600A9L - H Kramer & Co

- ANNUAL SOURCE EMISSIONS -

POLLUTANT CODE	ALLOWABLE EMISSIONS (TONS/YEAR)	EMISSIONS REPORTED FOR 2000 (TONS/YEAR)	IEPA 2001 ESTIMATED EMISSIONS (TONS/YEAR)	SOURCE REPORTED EMISSIONS FOR 2001 (TONS/YEAR)
CO	11.869800	5.176300	2.710000	
LEAD		1.997900		
NOX	14.147400	6.162300	3.230000	
PART	97.236000	36.215300	20.622430	

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- PERMIT LISTING -

PERMIT NUMBER	TYPE OF PERMIT	OPERATION NAME	STATUS	STATUS DATE	EXPIRES
72090081	LIFETIME	SMELTER AND REFINER	GRANTED	05-11-2001	
92110017	CONSTRUCTION	INCORPORATED INTO 72090081	GRANTED	12-09-1992	

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- FUEL COMBUSTION DATA -

POINT 0001 - ROTARY FURNACE #1

PERMIT: 72090081

BEGAN OPERATION: 09 / 1972

SCC: 30400217

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

BEGAN OPERATION: 09 / 1972

DEC - FEB: 23.40 % MAR - MAY: 25.30 %
JUN - AUG: 26.40 % SEP - NOV: 24.90 %

CEASED OPERATION: /

FUEL TYPE: 1 NATURAL GAS

HEAT CONTENT: 1050 Btu/ft3

INPUT (MMBTU/HR): 11.5

SULFUR CONTENT (%): 0.00

ASH CONTENT (%): 0.00

NITROGEN CONTENT (%): 0.00

UNITS: TONS OF CHARGE

UNITS: TONS OF CHARGE

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	24.0	HOURS/DAY:	24.0
DAYS/WEEK:	6.2	DAYS/WEEK:	5.8
WEEKS/YEAR:	48	WEEKS/SEASON:	13
HOURS/YEAR:	7,097	HOURS/SEASON:	1,808
		START TIME:	00:00
		END TIME:	23:59
RATE/HR:	1.5000	RATE/HR:	1.5100
CONFIDENTIAL: N		CONFIDENTIAL: N	

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- FUEL COMBUSTION DATA -

POINT 0001 - ROTARY FURNACE #1

PERMIT: 72090081

BEGAN OPERATION: 09 / 1972
CEASED OPERATION: /

SCC: 30400217

MODE 01 -

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
CO	3		.97
NOX	3		1.15
PART	3		7.45

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
NOX	3		.71
PART	3		3.61

CAPTURING CONTROLS:

CONTROL 0008 CAPTURE EFFICIENCY: 100.00 %

CAPTURING STACKS:

031600A9L - H Kramer & Co

- FUEL COMBUSTION DATA -

POINT 0006 - ROTARY FURNACE #2

PERMIT: 72090081

BEGAN OPERATION: 01 / 1993

SCC: 30400217

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

DEC - FEB: 20.40 % MAR - MAY: 26.60 %
JUN - AUG: 26.50 % SEP - NOV: 26.50 %

BEGAN OPERATION: 01 / 1993
CEASED OPERATION: /

FUEL TYPE: 1 NATURAL GAS

HEAT CONTENT: 1050 Btu/Ft3

INPUT (MMBTU/HR): 20.8

SULFUR CONTENT (%): 0.00

ASH CONTENT (%): 0.00

NITROGEN CONTENT (%): 0.00

UNITS: TONS OF CHARGE

UNITS: TONS OF CHARGE

ANNUAL OPERATION

PEAK OZONE SEASON OPERATION

HOURS/DAY: 24.0
DAYS/WEEK: 5.9
WEEKS/YEAR: 48
HOURS/YEAR: 6,799

HOURS/DAY: 24.0
DAYS/WEEK: 5.9
WEEKS/SEASON: 13
HOURS/SEASON: 1,836

START TIME: 00:00

END TIME: 23:59

RATE/HR: 2.0000

RATE/HR: 1.9300

CONFIDENTIAL: N

CONFIDENTIAL: N

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- FUEL COMBUSTION DATA -

POINT 0006 - ROTARY FURNACE #2

PERMIT: 72090081

SCC: 30400217

BEGAN OPERATION: 01 / 1993
CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
CO	3		1.74
NOX	3		2.08
PART	3		4.88

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
NOX	3		1.04

CAPTURING CONTROLS:

CONTROL 0008 CAPTURE EFFICIENCY: 100.00 %

CAPTURING STACKS:

031600AAGL - H Kramer & Co

- PROCESS DATA -

POINT 0003 - 2 CORELESS INDUCTION FURNACES

PERMIT: 720900081

SCC: 30400224

BEGAN OPERATION: 09 / 1972
CEASED OPERATION: /

MODE 01 - TWO CORELESS INDUCTION FURNACES

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

DEC - FEB: 23.40 % MAR - MAY: 27.40 %
JUN - AUG: 26.20 % SEP - NOV: 23.00 %

BEGAN OPERATION: 09 / 1972
CEASED OPERATION: /

UNITS: TONS OF CHARGE

UNITS: TONS OF CHARGE

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	24.0	HOURS/DAY:	24.0
DAYS/WEEK:	6.0	DAYS/WEEK:	6.1
WEEKS/YEAR:	52	WEEKS/SEASON:	13
HOURS/YEAR:	7,540	HOURS/SEASON:	1,917
PWR (LB/HR):	1,930.6000	START TIME:	00:00
RATE/HR:	1.0000	END TIME:	23:59
CONFIDENTIAL:	N	PWR (LB/HR):	1,990.0000
		RATE/HR:	0.9900
		CONFIDENTIAL:	N

031600AGL - H Kramer & Co

- PROCESS DATA -

POINT 0003 - 2 CORELESS INDUCTION FURNACES

PERMIT: 720900081

BEGAN OPERATION: 09 / 1972
CEASED OPERATION: /

SCC: 30400224

MODE 01 - TWO CORELESS INDUCTION FURNACES

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED

PART 3	3		2.975

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED

			1.15

CAPTURING CONTROLS:

CONTROL 0008 CAPTURE EFFICIENCY: 100.00 %

CAPTURING STACKS:

031600AGL - H Kramer & Co

PROCESS DATA

POINT 0004 - 2 CHANNEL INDUCTION FURNACES

PERMIT: 72090081

BEGAN OPERATION: 09 / 1972

SCC: 30400224

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

DEC - FEB: 26.70 % MAR - MAY: 29.10 %
JUN - AUG: 21.90 % SEP - NOV: 22.30 %

BEGAN OPERATION: 09 / 1972

CEASED OPERATION: /

UNITS: TONS OF CHARGE

UNITS: TONS OF CHARGE

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	24.0	HOURS/DAY:	24.0
DAYS/WEEK:	5.7	DAYS/WEEK:	5.8
WEEKS/YEAR:	52	WEEKS/SEASON:	13
HOURS/YEAR:	7,140	HOURS/SEASON:	1,809
PWR (LB/HR):	903.7000	START TIME:	00:00
RATE/HR:	0.5000	END TIME:	23:00
CONFIDENTIAL:	N	PWR (LB/HR):	782.0000
		RATE/HR:	0.3900
		CONFIDENTIAL:	N

031600AGL - H Kramer & Co

- PROCESS DATA -

POINT 0004 - 2 CHANNEL INDUCTION FURNACES

PERMIT: 72090081

BEGAN OPERATION: 09 / 1972
CEASED OPERATION: /

SCC: 30400224

MODE 01 -

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED

PART 3	3		1.40743

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED

CAPTURING CONTROLS:

CONTROL 0004 CAPTURE EFFICIENCY: 100.00 %

CAPTURING STACKS:

031600AGL - H Kramer & Co

- PROCESS DATA -

POINT 0011 - ONE BRICK CRUSHER

PERMIT: 72090081

BEGAN OPERATION: 03 / 2001
CEASED OPERATION: /

SCC: 30500399

MODE 01 - BRICK CRUSHING OPERATION-DID NOT OPERATE IN 2000

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

DEC - FEB: % _____ MAR - MAY: % _____
JUN - AUG: % _____ SEP - NOV: % _____

BEGAN OPERATION: 03 / 2001
CEASED OPERATION: /

UNITS: TONS PRODUCT

UNITS: TONS PRODUCT

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	_____	HOURS/DAY:	_____
DAYS/WEEK:	_____	DAYS/WEEK:	_____
WEEKS/YEAR:	_____	WEEKS/SEASON:	_____
HOURS/YEAR:	_____	HOURS/SEASON:	_____
		START TIME:	_____
PWR (LB/HR):	_____	END TIME:	_____
RATE/HR:	_____	PWR (LB/HR):	_____
CONFIDENTIAL:	_____	RATE/HR:	_____
		CONFIDENTIAL:	_____

031600AGL - H Kramer & Co

- PROCESS DATA -

POINT 0011 - ONE BRICK CRUSHER

PERMIT: 72090081

BEGAN OPERATION: 03 / 2001
CEASED OPERATION: /

SCC: 30500399

MODE 01 - BRICK CRUSHING OPERATION-DID NOT OPERATE IN 2000

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED

PART	3		.1
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POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0012 CAPTURE EFFICIENCY: 100.00 %

031600AGL - H Kramer & Co

- CONTROL DEVICE DATA

CONTROL 0004 - VENTURI SCRUBBER

PERMIT: 72090081

BEGAN OPERATION: 09 / 1972

CONTROL CODE: 053

CEASED OPERATION: /

DESCRIPTION CORRECTION:

[Empty rectangular box for description correction]

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION		METHOD		PEAK OZONE SEASON OPERATION		METHOD	
	IEPA	REPORTED	IEPA	REPORTED	IEPA	REPORTED	IEPA	REPORTED
LEAD		99.000						
PART		99.500		97.190				
PM10								

CAPTURING CONTROLS:

CONTROL 0007 CAPTURE EFFICIENCY: 100.00 %

CAPTURING STACKS:

031600AGL - H Kramer & Co

- CONTROL DEVICE DATA

CONTROL 0007 - MIST ELIMINATOR

PERMIT: 72090081

BEGAN OPERATION: /
CEASED OPERATION: /
CONTROL CODE: 014

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION		METHOD		PEAK OZONE SEASON OPERATION		METHOD	
	IEPA	REPORTED	IEPA	REPORTED	IEPA	REPORTED	IEPA	REPORTED
PART	99.000	99.000						
PM10								

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0004 CAPTURE EFFICIENCY: 100.00 %

031600AGL - H Kramer & Co

- CONTROL DEVICE DATA

CONTROL 0008 - BAG FILTER

PERMIT: 720900081

BEGAN OPERATION: /
CEASED OPERATION: /

CONTROL CODE: 018

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION		METHOD		PEAK OZONE SEASON OPERATION		METHOD	
	IEPA	REPORTED	IEPA	REPORTED	IEPA	REPORTED	IEPA	REPORTED
LEAD								
PART	99.000		3					
PM10								

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0011

CAPTURE EFFICIENCY:

100.00 %

031600AGL - H Kramer & Co

- STACK DATA -

STACK 0001 - RECEIVES DISCHARGE FROM CONTROL 0001
BEGAN OPERATION: 09 / 1972
CEASED OPERATION: 06 / 2003

DESCRIPTION CORRECTION:

DIAMETER (FT) :	10.40	REPORTED	-	55000
HEIGHT (FT) :	45	REPORTED	-	180
FLOW RATE (ACFM) :	IEPA - 590616	REPORTED	-	180
TEMPERATURE (F) :	IEPA - 180			
LATITUDE (DD:MM:SS.SSSS) :	41:51:12.0000			
LONGITUDE (DD:MM:SS.SSSS) :	87:39:32.0000			
DATUM :	NAD27			
SCALE :				
METHOD :				
ACCURACY :				
WHERE MEASURED :				

031600AGL - H Kramer & Co

- STACK DATA -

STACK 0003 - RECEIVES DISCHARGE FROM CONTROL 0003
BEGAN OPERATION: 09 / 1972
CEASED OPERATION: 06 / 2003

DESCRIPTION CORRECTION:

DIAMETER (FT) :	2.20	REPORTED	55000
HEIGHT (FT) :	44	REPORTED	180
FLOW RATE (ACFM) :	IEPA - 11195	REPORTED	
TEMPERATURE (F) :	IEPA - 130	REPORTED	
LATITUDE (DD:MM:SS.SSSS) :	41:51:12.0000		
LONGITUDE (DD:MM:SS.SSSS) :	87:39:32.0000		
DATUM :	NAD27		
SCALE :			
METHOD :			
ACCURACY :			
WHERE MEASURED :			

031600AGL - H Kramer & Co

- STACK DATA -

STACK 0004 -

BEGAN OPERATION: 09 / 1972
CEASED OPERATION: /

DESCRIPTION CORRECTION:

DIAMETER (FT) :	3.75	REPORTED	19800
HEIGHT (FT) :	50	REPORTED	100
FLOW RATE (ACFM) :	IEPA - 17856	REPORTED	100
TEMPERATURE (F) :	IEPA - 100	REPORTED	100
LATITUDE (DD:MM:SS.SSSS) :	41:51:13.0320		
LONGITUDE (DD:MM:SS.SSSS) :	87:39:35.6400		
DATUM :	NAD27		
SCALE :	12000		
METHOD :	019		
ACCURACY :	20		

WHERE MEASURED : Center Of Facility

031600AGL - H Kramer & Co

- STACK DATA -

STACK 0005 - RECEIVES DISCHARGE FROM CONTROL 0005
BEGAN OPERATION: 09 / 1972
CEASED OPERATION: 06 / 2003

DESCRIPTION CORRECTION:

DIAMETER (FT) :	4.74	REPORTED	66000
HEIGHT (FT) :	46	REPORTED	180
FLOW RATE (ACFM) :	IEPA - 590616	REPORTED	180
TEMPERATURE (F) :	IEPA - 180	REPORTED	180
LATITUDE (DD:MM:SS.SSSS) :	41:51:12.0000		
LONGITUDE (DD:MM:SS.SSSS) :	87:39:32.0000		
DATUM :	NAD27		
SCALE :			
METHOD :			
ACCURACY :			
WHERE MEASURED :			

031600AGL - H Kramer & Co

- STACK DATA -

STACK 0006 - RECEIVES DISCHARGE FROM CONTROL 0006
BEGAN OPERATION: 09 / 1972
CEASED OPERATION: 06 / 2003

DESCRIPTION CORRECTION:

DIAMETER (FT): 2.94

HEIGHT (FT): 40

FLOW RATE (ACFM): IEPA - 39000

TEMPERATURE (F): IEPA - 180

LATITUDE (DD:MM:SS.SSSS): 41:51:12.0000

LONGITUDE (DD:MM:SS.SSSS): 87:39:32.0000

DATUM: NAD27

SCALE:

METHOD:

ACCURACY:

WHERE MEASURED:

031600AGL - H Kramer & Co

- STACK DATA -

STACK 0008 - CREATED STACK- NOT USED

BEGAN OPERATION: /
CEASED OPERATION: 06 / 2003

DESCRIPTION CORRECTION:

DIAMETER (FT) :	0.33	_____	_____
HEIGHT (FT) :	33	_____	_____
FLOW RATE (ACFM) :	IEPA - 2	REPORTED -	2
TEMPERATURE (F) :	IEPA - 69	REPORTED -	69
LATITUDE (DD:MM:SS.SSSS) :	41:51:12.0000	_____	_____
LONGITUDE (DD:MM:SS.SSSS) :	87:39:32.0000	_____	_____
DATUM :	NAD27	_____	_____
SCALE :	_____	_____	_____
METHOD :	_____	_____	_____
ACCURACY :	_____	_____	_____
WHERE MEASURED :	_____	_____	_____

031600A9L - H Kramer & Co

- STACK DATA -

STACK 0009 - CREATED STACK- NOT USED

BEGAN OPERATION: /
CEASED OPERATION: 06 / 2003

DESCRIPTION CORRECTION:

DIAMETER (FT):	0.33		
HEIGHT (FT):	33		
FLOW RATE (ACFM):	TEPA - 2	REPORTED -	2
TEMPERATURE (F):	TEPA - 69	REPORTED -	69
LATITUDE (DD:MM:SS.SSSS):	41:51:12.0000		
LONGITUDE (DD:MM:SS.SSSS):	87:39:32.0000		
DATUM:	NAD27		
SCALE:			
METHOD:			
ACCURACY:			
WHERE MEASURED:			

031600AGL - H Kramer & Co

- STACK DATA -

STACK 0010 - CREATED STACK- NOT USED

BEGAN OPERATION: /
CEASED OPERATION: 06 / 2003

DESCRIPTION CORRECTION:

DIAMETER (FT) : 0.33

HEIGHT (FT) : 33

FLOW RATE (ACFM) : IEPA - 2 REPORTED - 2

TEMPERATURE (F) : IEPA - 69 REPORTED - 69

LATITUDE (DD:MM:SS.SSSS) : 41:51:12.0000

LONGITUDE (DD:MM:SS.SSSS) : 87:39:32.0000

DATUM : NAD27

SCALE :

METHOD :

ACCURACY :

WHERE MEASURED :

031600AGL - H Kramer & Co

- STACK DATA -

STACK 0011 -

BEGAN OPERATION: /
CEASED OPERATION: /

DESCRIPTION CORRECTION:

DIAMETER (FT) :	2.90	_____
HEIGHT (FT) :	43	_____
FLOW RATE (ACFM) :	IEPA - 2	REPORTED - _____
TEMPERATURE (F) :	IEPA - 69	REPORTED - _____
LATITUDE (DD:MM:SS.SSSS) :	41:51:13.0320	_____
LONGITUDE (DD:MM:SS.SSSS) :	87:39:35.6400	_____
DATUM :	NAD27	_____
SCALE :	12000	_____
METHOD :	019	_____
ACCURACY :	20	_____

WHERE MEASURED : Center Of Facility

031600AGL - H Kramer & Co

- STACK DATA -

STACK 0012 -

BEGAN OPERATION: /
CEASED OPERATION: /

DESCRIPTION CORRECTION:

DIAMETER (FT) :	2.10	_____	_____
HEIGHT (FT) :	38	_____	_____
FLOW RATE (ACFM) :	IEPA - 2	REPORTED -	_____
TEMPERATURE (F) :	IEPA - 69	REPORTED -	_____
LATITUDE (DD:MM:SS.SSSS) :	41:51:13.0320	_____	_____
LONGITUDE (DD:MM:SS.SSSS) :	87:39:35.6400	_____	_____
DATUM :	NAD27	_____	_____
SCALE :	12000	_____	_____
METHOD :	019	_____	_____
ACCURACY :	20	_____	_____

WHERE MEASURED : Center Of Facility

031600AGL - H Kramer & Co

- STACK DATA -

STACK 0013 - NOT USED

BEGAN OPERATION: /
CEASED OPERATION: 06 / 2003

DESCRIPTION CORRECTION:

DIAMETER (FT):		0.33	
HEIGHT (FT):		33	
FLOW RATE (ACFM):	IEPA -	2	REPORTED -
TEMPERATURE (F):	IEPA -	69	REPORTED -
LATITUDE (DD:MM:SS.SSSS):		41:51:12.0000	
LONGITUDE (DD:MM:SS.SSSS):		87:39:32.0000	
DATUM:		NAD27	
SCALE:			
METHOD:			
ACCURACY:			
WHERE MEASURED:			

031600AGL - H Kramer & Co

- STACK DATA -

STACK 0015 - CREATED STACK

BEGAN OPERATION: /
CEASED OPERATION: 06 / 2003

DESCRIPTION CORRECTION:

DIAMETER (FT) : 0.33

HEIGHT (FT) : 33

FLOW RATE (ACFM) : IEPA - 2 REPORTED -

TEMPERATURE (F) : IEPA - 69 REPORTED -

LATITUDE (DD:MM:SS.SSSS) : 41:51:12.0000

LONGITUDE (DD:MM:SS.SSSS) : 87:39:32.0000

DATUM : NAD27

SCALE :

METHOD :

ACCURACY :

WHERE MEASURED :