U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

17311

Lab Name: SOUTHWEST_LAB_OF_OK Contract: _____
Lab Code: SWOK Case No.: 25173 SAS No.: _____ SDG No.: 25173
Matrix (soil/water): SOIL Lab Sample ID: 2517311
Level (low/med): LOW Date Received: 04/06/96
% Solids: 91.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3530		*	P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	4.6		S	F
7440-39-3	Barium	46.0		*	P
7440-41-7	Beryllium	0.25			P
7440-43-9	Cadmium	0.19	U		P
7440-70-2	Calcium	119000			P
7440-47-3	Chromium	6.4		*	P
7440-48-4	Cobalt	5.0			P
7440-50-8	Copper	14.7		*	P
7439-89-6	Iron	10500		E*	P
7439-92-1	Lead	6.6		S	F
7439-95-4	Magnesium	29500		*	P
7439-96-5	Manganese	260		E*	P
7439-97-6	Mercury	0.04	U		AV
7440-02-0	Nickel	13.8			P
7440-09-7	Potassium	729			P
7782-49-2	Selenium	0.31	U	W	F
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	116	B		P
7440-28-0	Thallium	0.30	B	W	F
7440-62-2	Vanadium	9.4		*	P
7440-66-6	Zinc	34.0		*	P
	Cyanide	0.89			AS

Color Before: GREY Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:
CLIENT_ID = MW-31_14.0'-15.0'

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

17301

Lab Name: SOUTHWEST_LAB_OF_OK Contract: _____
Lab Code: SWOK Case No.: 25173 SAS No.: _____ SDG No.: 25173
Matrix (soil/water): SOIL Lab Sample ID: 2517301
Level (low/med): LOW Date Received: 04/06/96
% Solids: 90.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1200		*	P
7440-36-0	Antimony	3.3	B		P
7440-38-2	Arsenic	1.2			F
7440-39-3	Barium	5.3		*	P
7440-41-7	Beryllium	0.05	B		P
7440-43-9	Cadmium	0.22	B		P
7440-70-2	Calcium	169000			P
7440-47-3	Chromium	3.2		*	P
7440-48-4	Cobalt	1.5	B		P
7440-50-8	Copper	5.4		*	P
7439-89-6	Iron	3850		E*	P
7439-92-1	Lead	3.3			F
7439-95-4	Magnesium	65000		*	P
7439-96-5	Manganese	149		E*	P
7439-97-6	Mercury	0.04	U		AV
7440-02-0	Nickel	2.9	B		P
7440-09-7	Potassium	222	U		P
7782-49-2	Selenium	0.31	U		F
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	165	B		P
7440-28-0	Thallium	0.24	U	W	F
7440-62-2	Vanadium	5.7		*	P
7440-66-6	Zinc	12.8		*	P
	Cyanide	1.3			AS

Color Before: BROWN Clarity Before: _____ Texture: COARSE
Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:
CLIENT_ID = MW-32_6.0'-8.0'

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

17302

Lab Name: SOUTHWEST_LAB_OF_OK Contract: _____

Lab Code: SWOK Case No.: 25173 SAS No.: _____ SDG No.: 25173

Matrix (soil/water): SOIL Lab Sample ID: 2517302

Level (low/med): LOW Date Received: 04/06/96

% Solids: 89.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4260		*	P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	5.3			F
7440-39-3	Barium	32.9		*	P
7440-41-7	Beryllium	0.23			P
7440-43-9	Cadmium	0.19	U		P
7440-70-2	Calcium	93300			P
7440-47-3	Chromium	6.5		*	P
7440-48-4	Cobalt	4.8			P
7440-50-8	Copper	12.7		*	P
7439-89-6	Iron	11900		E*	P
7439-92-1	Lead	5.0			F
7439-95-4	Magnesium	31600		*	P
7439-96-5	Manganese	181		E*	P
7439-97-6	Mercury	0.04	U		AV
7440-02-0	Nickel	18.5			P
7440-09-7	Potassium	854			P
7782-49-2	Selenium	0.31	U	W	F
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	117	B		P
7440-28-0	Thallium	0.25	U	W	F
7440-62-2	Vanadium	10.9		*	P
7440-66-6	Zinc	31.7		*	P
	Cyanide	0.89			AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

CLIENT_ID = MW-32_8.8'-9.3'

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

17303

Lab Name: SOUTHWEST_LAB_OF_OK Contract: _____
Lab Code: SWOK Case No.: 25173 SAS No.: _____ SDG No.: 25173
Matrix (soil/water): SOIL Lab Sample ID: 2517303
Level (low/med): LOW Date Received: 04/06/96
% Solids: 86.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1610		*	P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	0.52	B	W	F
7440-39-3	Barium	7.2		*	P
7440-41-7	Beryllium	0.08	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	63700			P
7440-47-3	Chromium	3.5		*	P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	7.5		*	P
7439-89-6	Iron	3810		E*	P
7439-92-1	Lead	2.9			F
7439-95-4	Magnesium	20800		*	P
7439-96-5	Manganese	119		E*	P
7439-97-6	Mercury	0.04	U		AV
7440-02-0	Nickel	4.9			P
7440-09-7	Potassium	263	B		P
7782-49-2	Selenium	0.32	U	W	F
7440-22-4	Silver	0.34	U		P
7440-23-5	Sodium	90.8	B		P
7440-28-0	Thallium	0.25	U	W	F
7440-62-2	Vanadium	4.7		*	P
7440-66-6	Zinc	18.5		*	P
	Cyanide	0.21	B		AS

Color Before: BROWN Clarity Before: _____ Texture: COARSE
Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:
CLIENT_ID = MW-33_6.0'-7.0'

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

17304

Lab Name: SOUTHWEST_LAB_OF_OK Contract: _____
Lab Code: SWOK Case No.: 25173 SAS No.: _____ SDG No.: 25173
Matrix (soil/water): SOIL Lab Sample ID: 2517304
Level (low/med): LOW Date Received: 04/06/96
% Solids: 90.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2410		*	P
7440-36-0	Antimony	2.8	B		P
7440-38-2	Arsenic	1.3			F
7440-39-3	Barium	21.6		*	P
7440-41-7	Beryllium	0.14	B		P
7440-43-9	Cadmium	0.25	B		P
7440-70-2	Calcium	135000			P
7440-47-3	Chromium	5.0		*	P
7440-48-4	Cobalt	3.7			P
7440-50-8	Copper	8.0		*	P
7439-89-6	Iron	7790		E*	P
7439-92-1	Lead	4.8			F
7439-95-4	Magnesium	54800		*	P
7439-96-5	Manganese	191		E*	P
7439-97-6	Mercury	0.04	U		AV
7440-02-0	Nickel	5.7			P
7440-09-7	Potassium	487	B		P
7782-49-2	Selenium	0.31	U		F
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	137	B		P
7440-28-0	Thallium	0.24	U	W	F
7440-62-2	Vanadium	8.0		*	P
7440-66-6	Zinc	17.0		*	P
	Cyanide	1.5			AS

Color Before: BROWN Clarity Before: _____ Texture: COARSE
Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:
CLIENT_ID = MW-33_9.0'-9.5'

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

17305

Lab Name: SOUTHWEST_LAB_OF_OK Contract: _____
Lab Code: SWOK Case No.: 25173 SAS No.: _____ SDG No.: 25173
Matrix (soil/water): SOIL Lab Sample ID: 2517305
Level (low/med): LOW Date Received: 04/06/96
% Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1600		*	P
7440-36-0	Antimony	2.3	B		P
7440-38-2	Arsenic	2.2			F
7440-39-3	Barium	11.4		*	P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.27	B		P
7440-70-2	Calcium	174000			P
7440-47-3	Chromium	4.1		*	P
7440-48-4	Cobalt	3.0			P
7440-50-8	Copper	9.9		*	P
7439-89-6	Iron	9910		E*	P
7439-92-1	Lead	3.9			F
7439-95-4	Magnesium	33200		*	P
7439-96-5	Manganese	307		E*	P
7439-97-6	Mercury	0.04	U		AV
7440-02-0	Nickel	10.7			P
7440-09-7	Potassium	240	B		P
7782-49-2	Selenium	0.29	U		F
7440-22-4	Silver	0.30	U		P
7440-23-5	Sodium	176	B		P
7440-28-0	Thallium	0.23	U	W	F
7440-62-2	Vanadium	6.8		*	P
7440-66-6	Zinc	34.6		*	P
	Cyanide	0.64			AS

Color Before: BROWN Clarity Before: _____ Texture: COARSE
Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:
CLIENT_ID = MW-34_6.0'-8.0'

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

17306

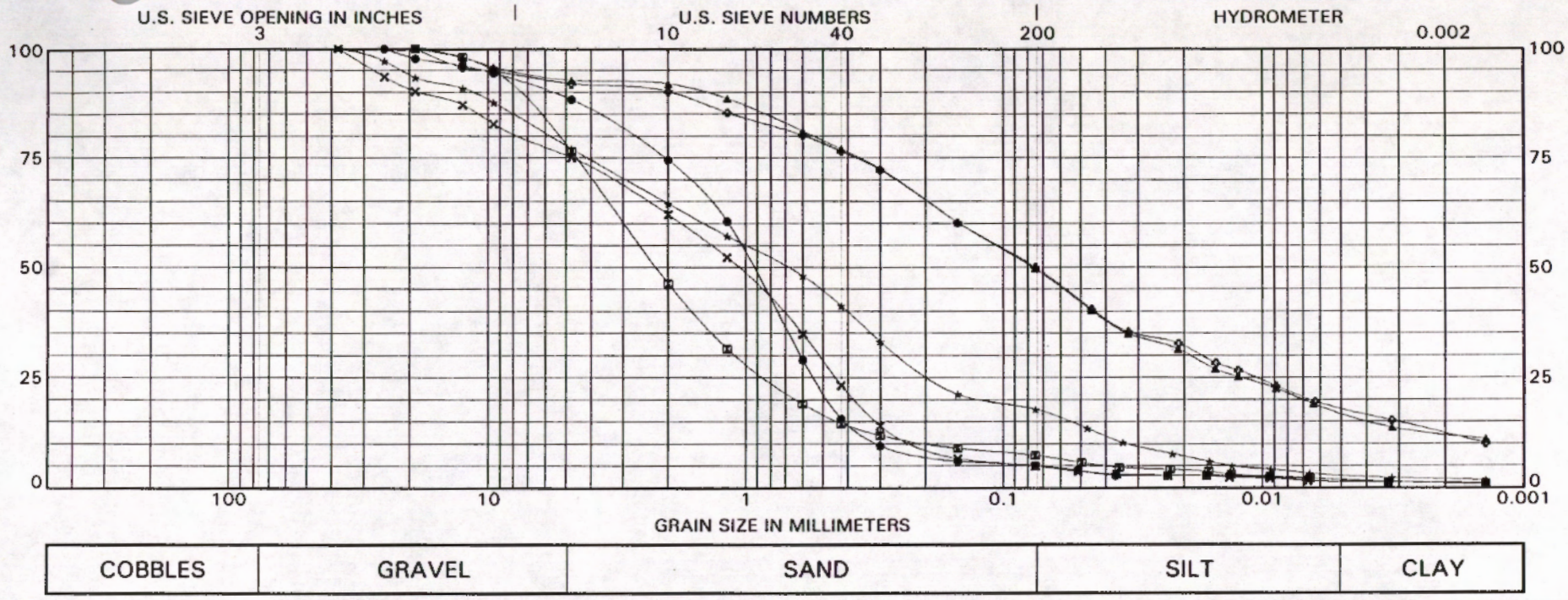
Lab Name: SOUTHWEST_LAB_OF_OK Contract: _____
Lab Code: SWOK Case No.: 25173 SAS No.: _____ SDG No.: 25173
Matrix (soil/water): SOIL Lab Sample ID: 2517306
Level (low/med): LOW Date Received: 04/06/96
% Solids: 90.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4050		*	P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.8			F
7440-39-3	Barium	46.5		*	P
7440-41-7	Beryllium	0.23			P
7440-43-9	Cadmium	0.31	B		P
7440-70-2	Calcium	85000			P
7440-47-3	Chromium	7.3		*	P
7440-48-4	Cobalt	5.0			P
7440-50-8	Copper	13.5		*	P
7439-89-6	Iron	10900		E*	P
7439-92-1	Lead	5.3			F
7439-95-4	Magnesium	28700		*	P
7439-96-5	Manganese	264		E*	P
7439-97-6	Mercury	0.04	U		AV
7440-02-0	Nickel	13.3			P
7440-09-7	Potassium	837			P
7782-49-2	Selenium	0.31	U		F
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	117	B		P
7440-28-0	Thallium	0.24	U		F
7440-62-2	Vanadium	10.5		*	P
7440-66-6	Zinc	33.5		*	P
	Cyanide	1.3			AS

Color Before: GREY Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:
CLIENT_ID = MW-34_17.0'-17.5'



	Boring No.	Sample No.	Depth, ft.	USCS Classification [1]	Atterberg Limits [2] LL	PL	PI	% Gravel	% Sand	% Silt	% Clay	% Moisture [3]	Dry Density lbs/cu ft.	Permeability [4] cm/sec	Specific Gravity [5]	pH	CEC meq/100g
●	MW-31	GRAB	8.0 - 8.5	SP-SM, Poorly Graded Sand (visual)				11.7	83.2	3.3	1.8	--					
⊠	MW-31	GRAB	11.5 - 12.0	SW-SM, Well Graded Sand (visual)				23.4	69.2	5.6	1.8	--					
▲	MW-31	S-1	13.0 - 14.0	SC-SM, Clayey Sand (visual)				7.3	43.1	32.5	17.1	10.8	131.1	$5.2X10^{-8}$			
★	MW-32	GRAB	6.0 - 8.0	SM, Silty Sand (visual)				22.9	59.3	14.9	2.9	--					
✕	MW-32	GRAB	8.0 - 8.8	SP-SM, Poorly Graded Sand (visual)				24.9	70.1	3.6	1.4	--					
◇	MW-32	S-1	10.0 - 10.5	CL-ML, Sandy Lean Clay (visual)				8.1	41.9	31.9	18.1	--					

EARTH EXPLORATION

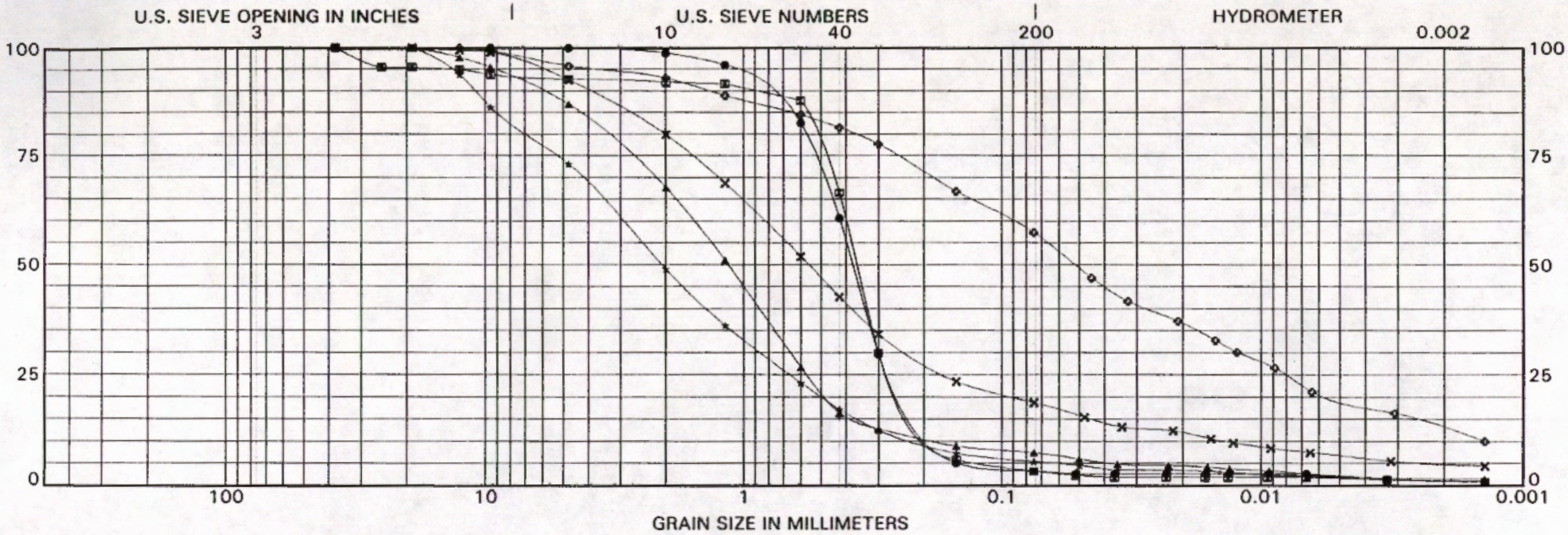
Client Project No. 07026.08
Report Date 4-29-96
EEI Project No. 3831

Project Franklin-Curtis CMS
Location Franklin, Indiana
Client Earth Tech

SUMMARY OF LABORATORY TEST RESULTS

Earth Exploration, Inc.
7770 West New York Street
Indianapolis, Indiana 46214

1 ASTM D 422 & D 2487
2 ASTM D 4318
3 ASTM D 2216
4 ASTM D 5084
5 ASTM D 854



COBBLES	GRAVEL	SAND	SILT	CLAY

	Boring No.	Sample No.	Depth, ft.	USCS Classification [1]	Atterberg Limits [2] LL	PL	PI	% Gravel	% Sand	% Silt	% Clay	% Moisture [3]	Dry Density lbs/cu ft.	Permeability [4] cm/sec	Specific Gravity [5]	pH	CEC meq/100g
●	MW-33	GRAB	8.0 - 8.5	SP, Poorly Graded Sand (visual)				0.1	96.7	1.1	2.1	--					
⊠	MW-33	GRAB	8.5 - 9.0	SP, Poorly Graded Sand (visual)				7.3	89.5	1.6	1.6	--					
▲	MW-34	GRAB	6.0 - 8.0	SW-SM, Well Graded Sand (visual)				13.1	79.5	5.2	2.2	--					
★	MW-34	GRAB	12.5 - 13.0	SW-SM, Well Graded Sand (visual)				26.9	67.7	3.7	1.7	--					
×	SB-1	GRAB	3.0 - 3.5	SM, Silty Sand (visual)				7.5	73.8	11.9	6.8	--					
✿	SB-1	S-1	5.0 - 5.5	CL-ML, Sandy Lean Clay (visual)				4.3	38.3	37.8	19.6	10.6	137.3	4.0×10^{-8}			

EARTH EXPLORATION

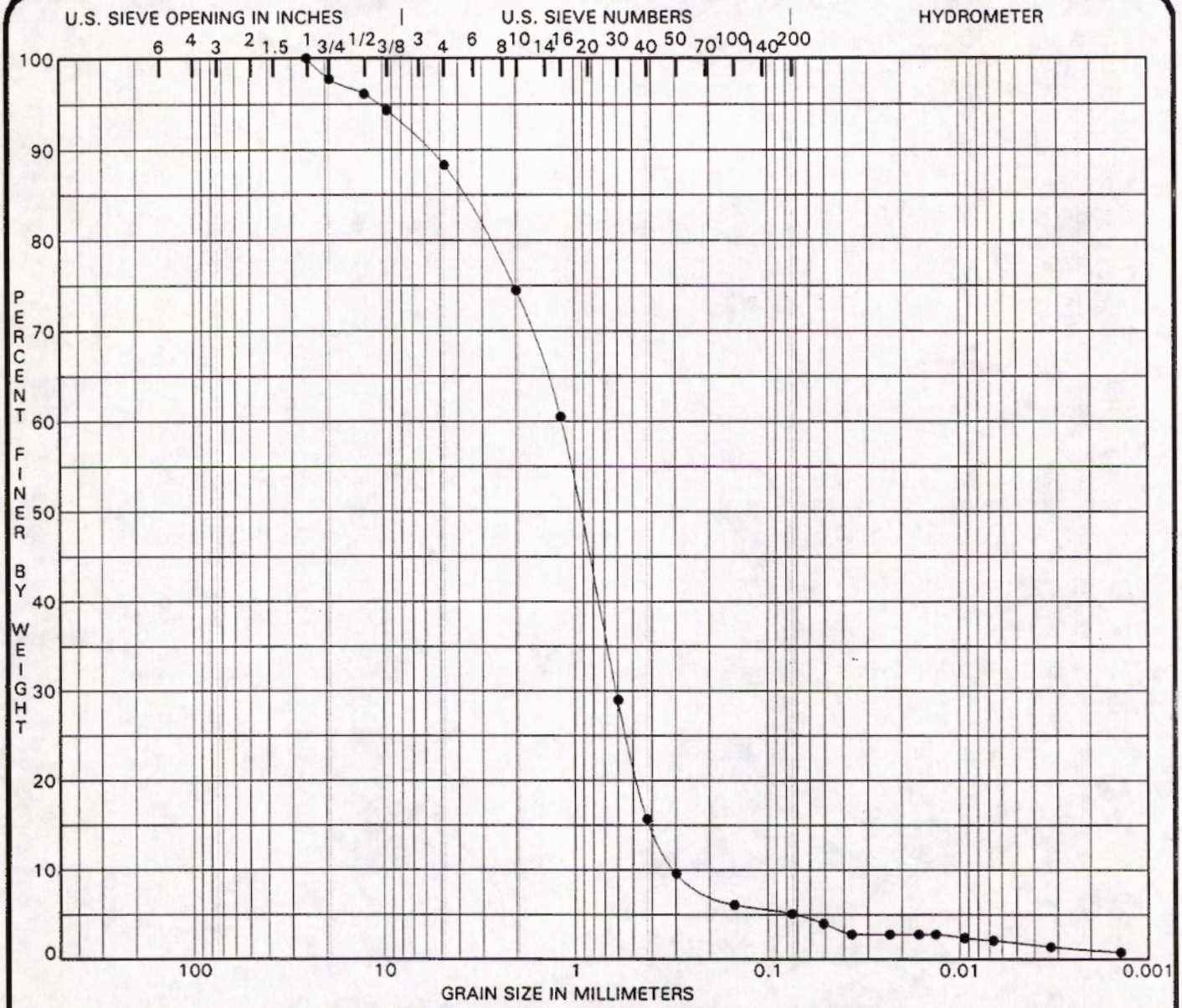
Client Project No. 07026.08
Report Date 4-29-96
EEI Project No. 3831

Project Franklin-Curtis CMS
Location Franklin, Indiana
Client Earth Tech

SUMMARY OF LABORATORY TEST RESULTS

Earth Exploration, Inc.
7770 West New York Street
Indianapolis, Indiana 46214

1 ASTM D 422 & D 2487
2 ASTM D 4318
3 ASTM D 2216
4 ASTM D 5084
5 ASTM D 854



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
● MW-31 GRAB 8'-8.5'	SP-SM, Poorly Graded Sand (visual)	--				1.05	3.8

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
11.7	83.2	3.3	1.8

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	22.0	0.016	2.8
16.0	97.0	0.25	8.7	0.008	2.3
4.0	85.6	0.125	5.8	0.005	1.8
2.0	74.5	0.075	5.1	0.002	1.0
1.0	52.8	0.050	3.9		

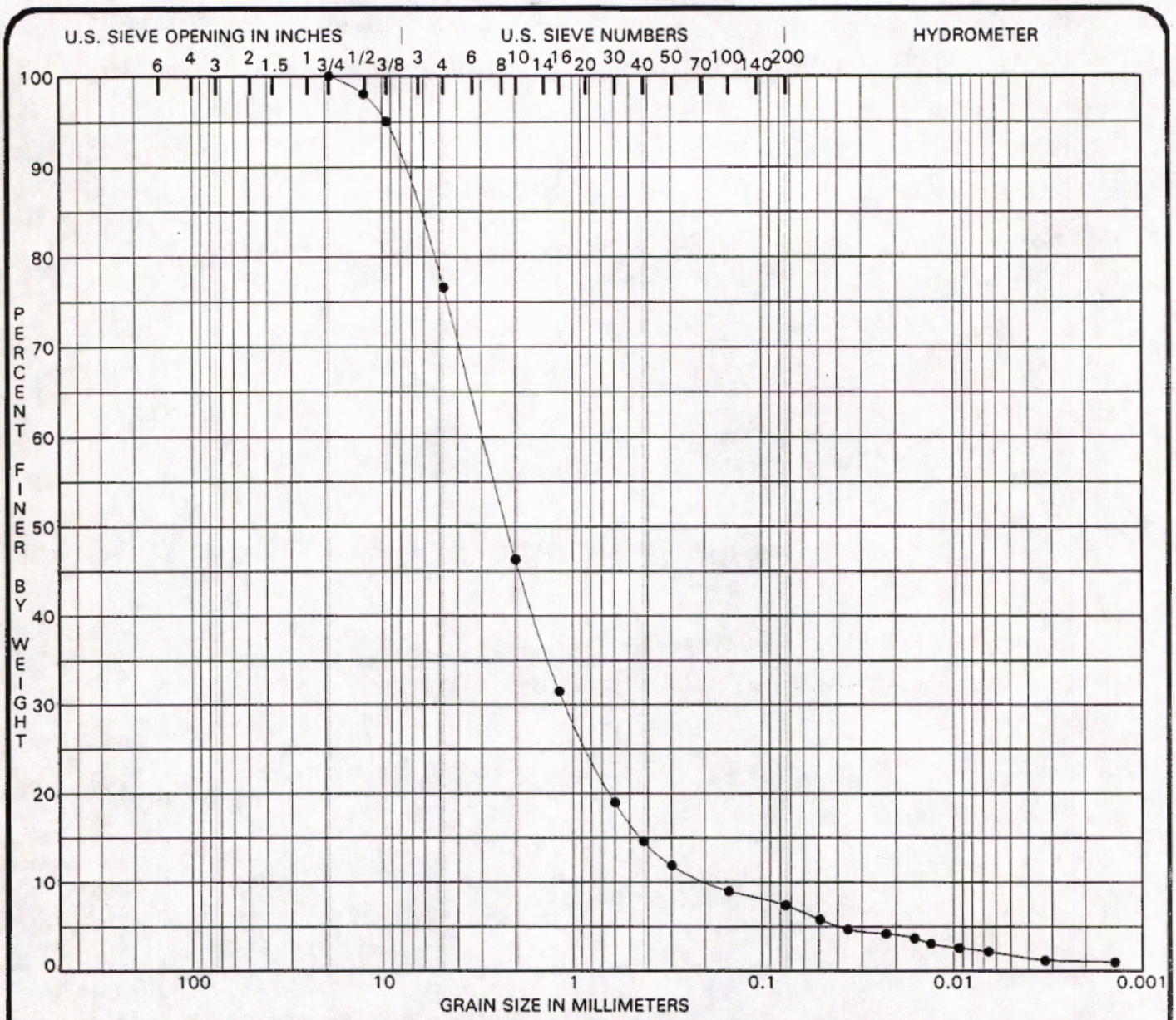
EARTH EXPLORATION

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831

CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

Earth Exploration, Inc.
7770 West New York Street Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
● MW-31 GRAB 11.5'-12'	SW-SM, Well Graded Sand (visual)	--				2.10	15.5

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
23.4	69.2	5.6	1.8

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	16.7	0.016	3.7
16.0	99.2	0.25	11.1	0.008	2.4
4.0	70.6	0.125	8.6	0.005	1.8
2.0	46.3	0.075	7.4	0.002	1.1
1.0	28.4	0.050	5.8		

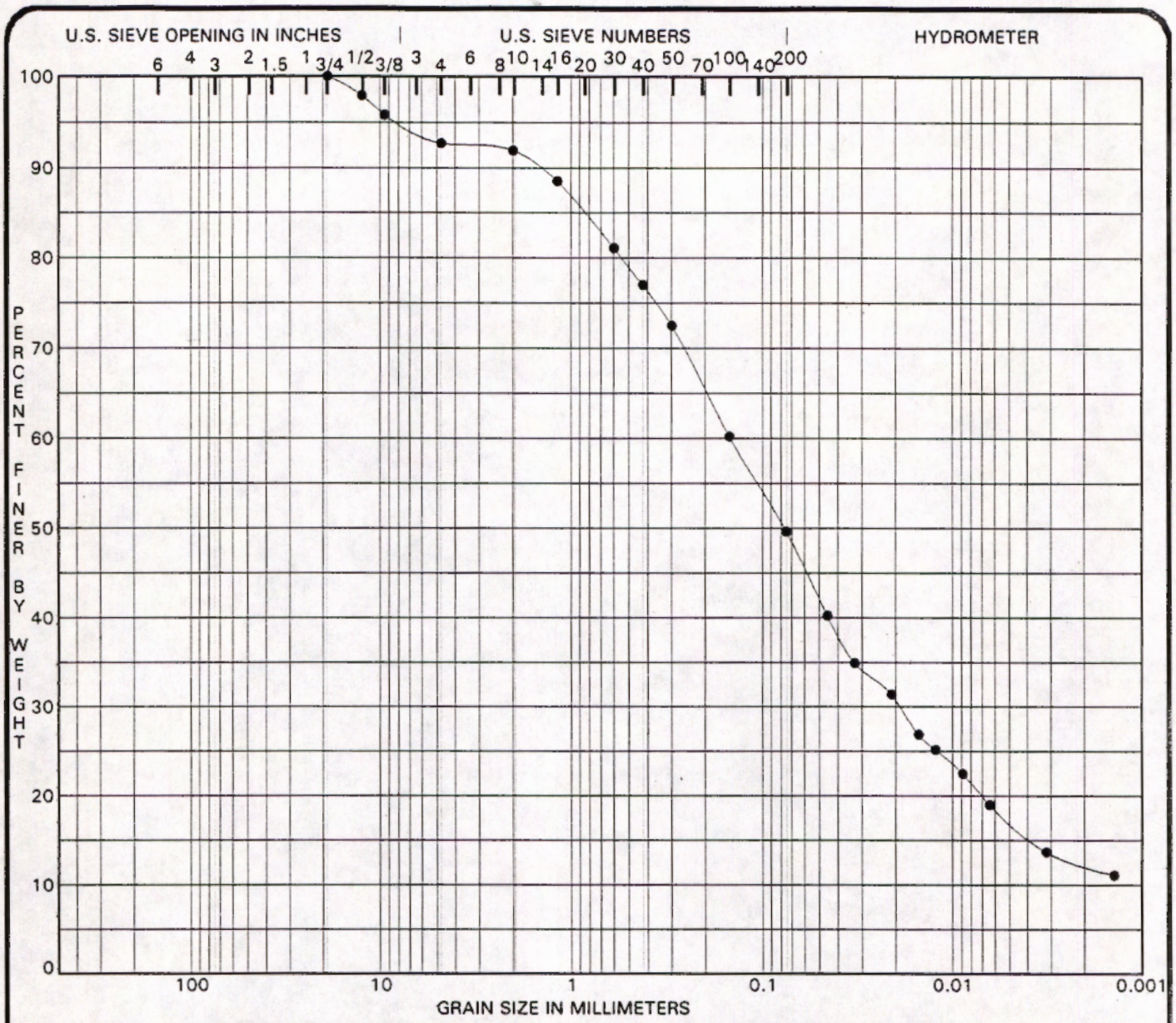
EARTH EXPLORATION

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831

CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

Earth Exploration, Inc.
7770 West New York Street Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
● MW-31 S-1 13'-14'	SC-SM, Clayey Sand (visual)	10.8					

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
7.3	43.1	32.5	17.1

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	78.9	0.016	27.6
16.0	99.1	0.25	69.3	0.008	21.4
4.0	92.5	0.125	57.4	0.005	17.1
2.0	91.9	0.075	49.6	0.002	12.2
1.0	86.7	0.050	41.9		

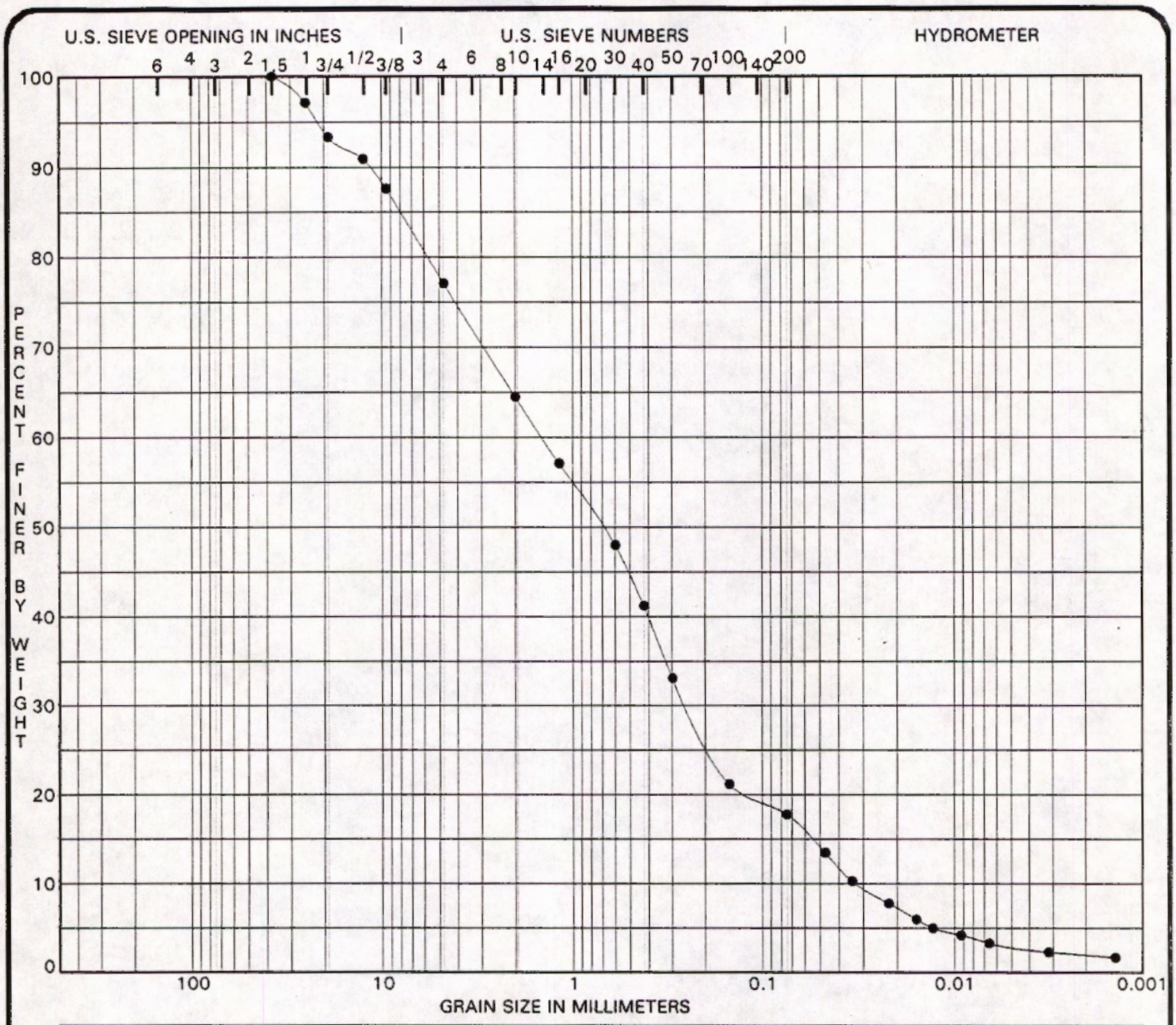
EARTH EXPLORATION

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831

CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

Earth Exploration, Inc.
7770 West New York Street Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
● MW-32 GRAB 6'-8'	SM, Silty Sand (visual)	--					

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
22.9	59.3	14.9	2.9

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	44.4	0.016	6.0
16.0	92.3	0.25	30.0	0.008	3.8
4.0	74.6	0.125	20.3	0.005	2.9
2.0	64.5	0.075	17.8	0.002	2.0
1.0	54.9	0.050	14.0		

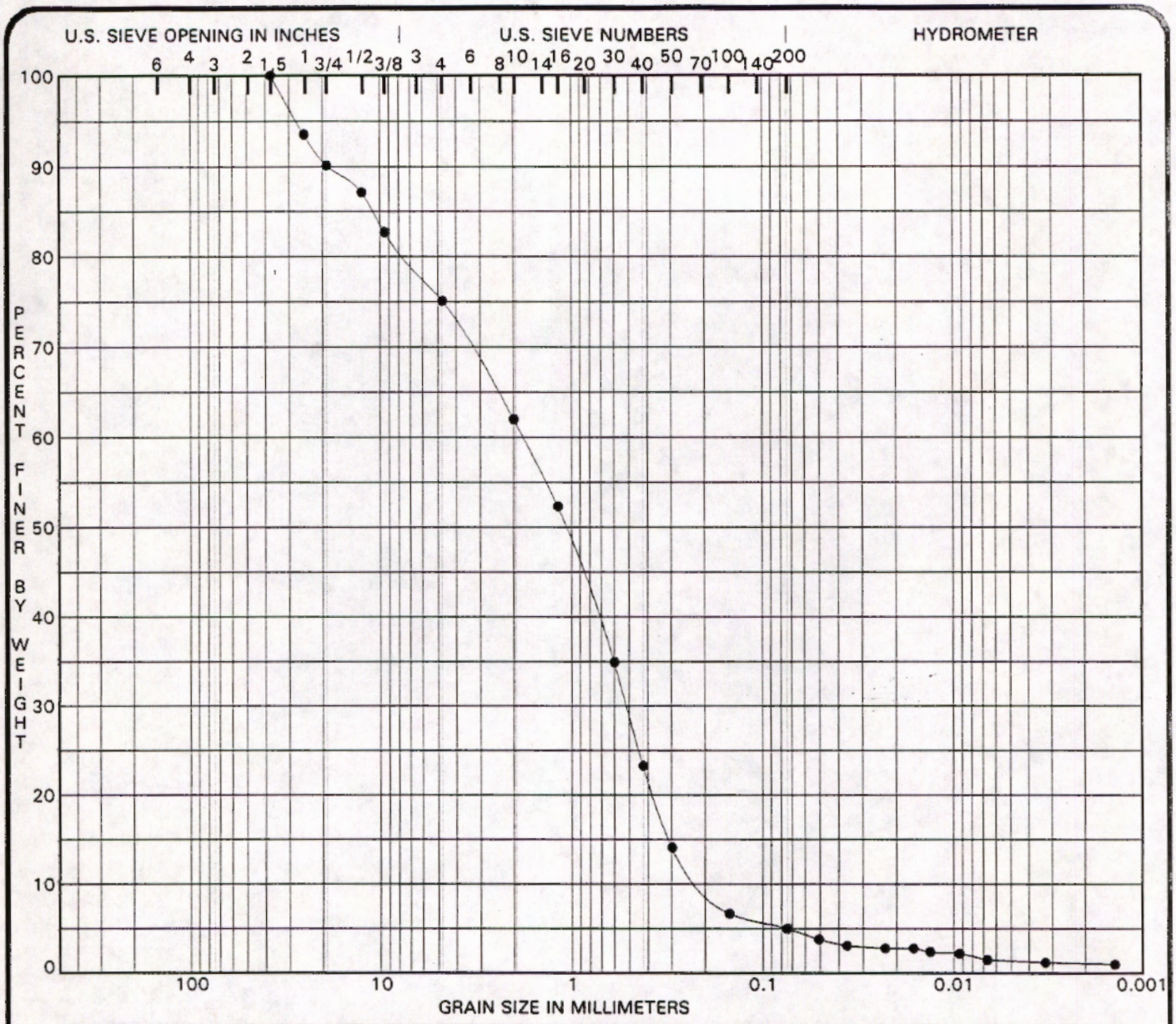
EARTH EXPLORATION

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831

CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

Earth Exploration, Inc.
7770 West New York Street Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
● MW-32 GRAB 8'-8.8'	SP-SM, Poorly Graded Sand (visual)	--				0.73	8.8

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
24.9	70.1	3.6	1.4

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	28.8	0.016	2.8
16.0	88.9	0.25	12.2	0.008	1.9
4.0	72.5	0.125	6.3	0.005	1.4
2.0	62.0	0.075	5.0	0.002	1.1
1.0	48.0	0.050	3.7		

EARTH EXPLORATION

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831
CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

Earth Exploration, Inc.
7770 West New York Street Indianapolis, Indiana 46214
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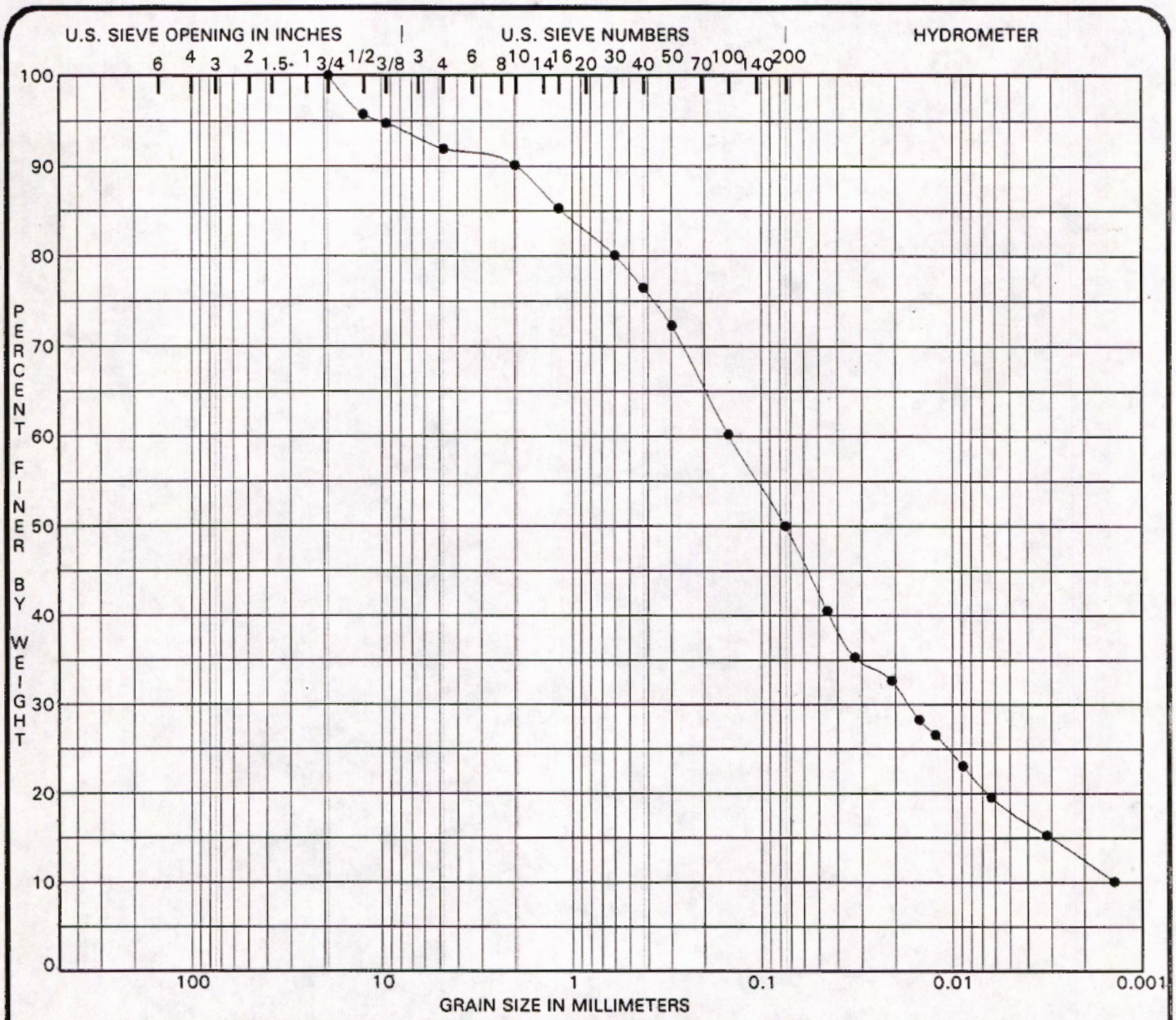


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
● MW-32 S-1 10'-10.5'	CL-ML, Sandy Lean Clay (visual)	--					

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
8.1	41.9	31.9	18.1

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	78.2	0.016	29.1
16.0	98.2	0.25	69.1	0.008	22.0
4.0	91.5	0.125	57.5	0.005	18.1
2.0	90.1	0.075	50.0	0.002	12.3
1.0	84.0	0.050	42.3		

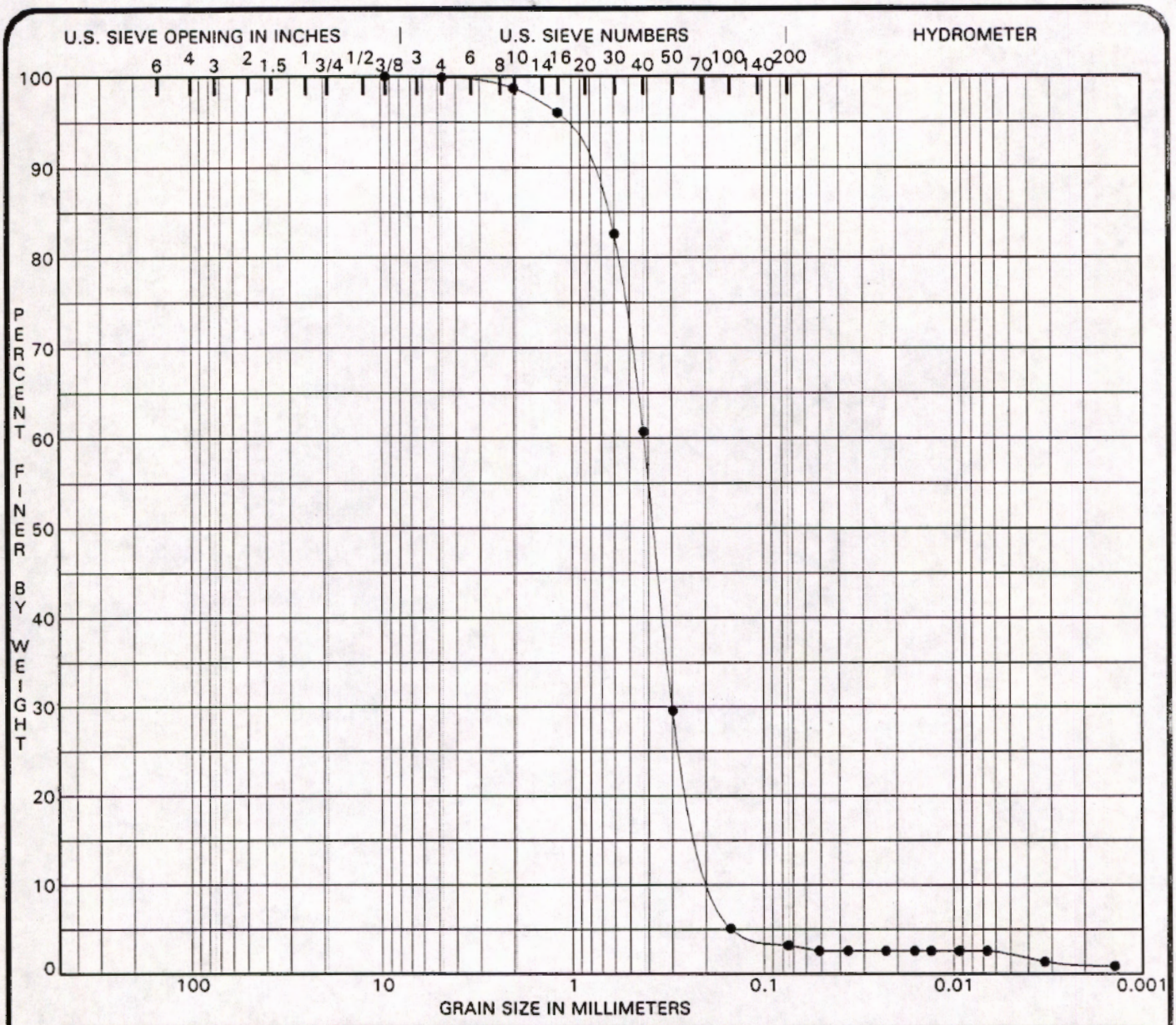
EARTH EXPLORATION

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831

CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

Earth Exploration, Inc.
7770 West New York Street Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
● MW-33 GRAB 8'-8.5'	SP, Poorly Graded Sand (visual)	--				1.25	2.4

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
0.1	96.7	1.1	2.1

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	71.0	0.016	2.6
16.0	100.0	0.25	23.2	0.008	2.6
4.0	99.7	0.125	4.6	0.005	2.1
2.0	98.7	0.075	3.2	0.002	1.1
1.0	92.7	0.050	2.6		

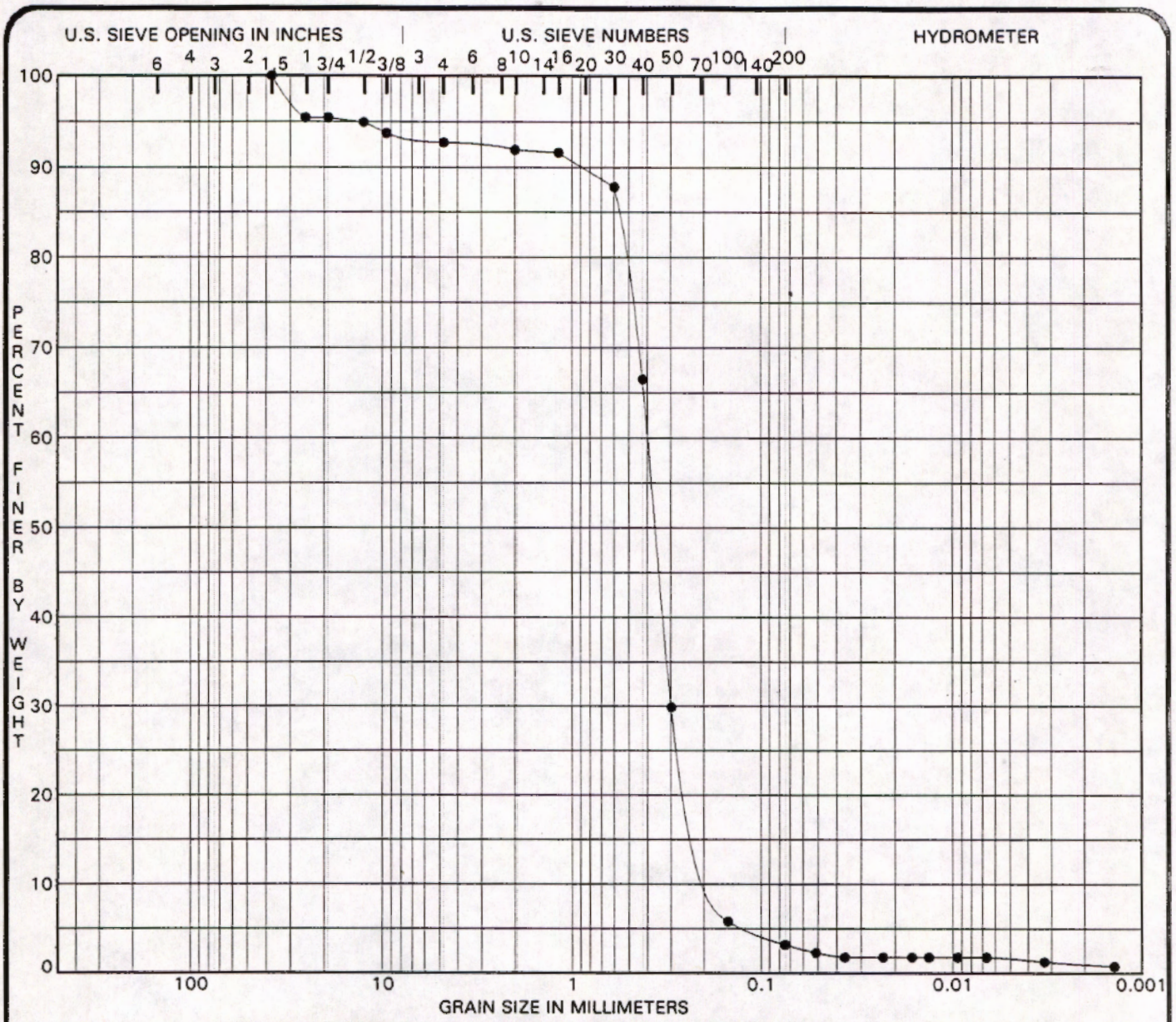
EARTH EXPLORATION INC

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831

CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

Earth Exploration, Inc.
7770 West New York Street Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
●	MW-33 GRAB 8.5'-9'	SP, Poorly Graded Sand (visual)	--				1.33	2.4

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
7.3	89.5	1.6	1.6

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	76.5	0.016	1.8
16.0	95.2	0.25	23.6	0.008	1.8
4.0	92.5	0.125	5.1	0.005	1.6
2.0	91.9	0.075	3.2	0.002	1.0
1.0	90.7	0.050	2.3		

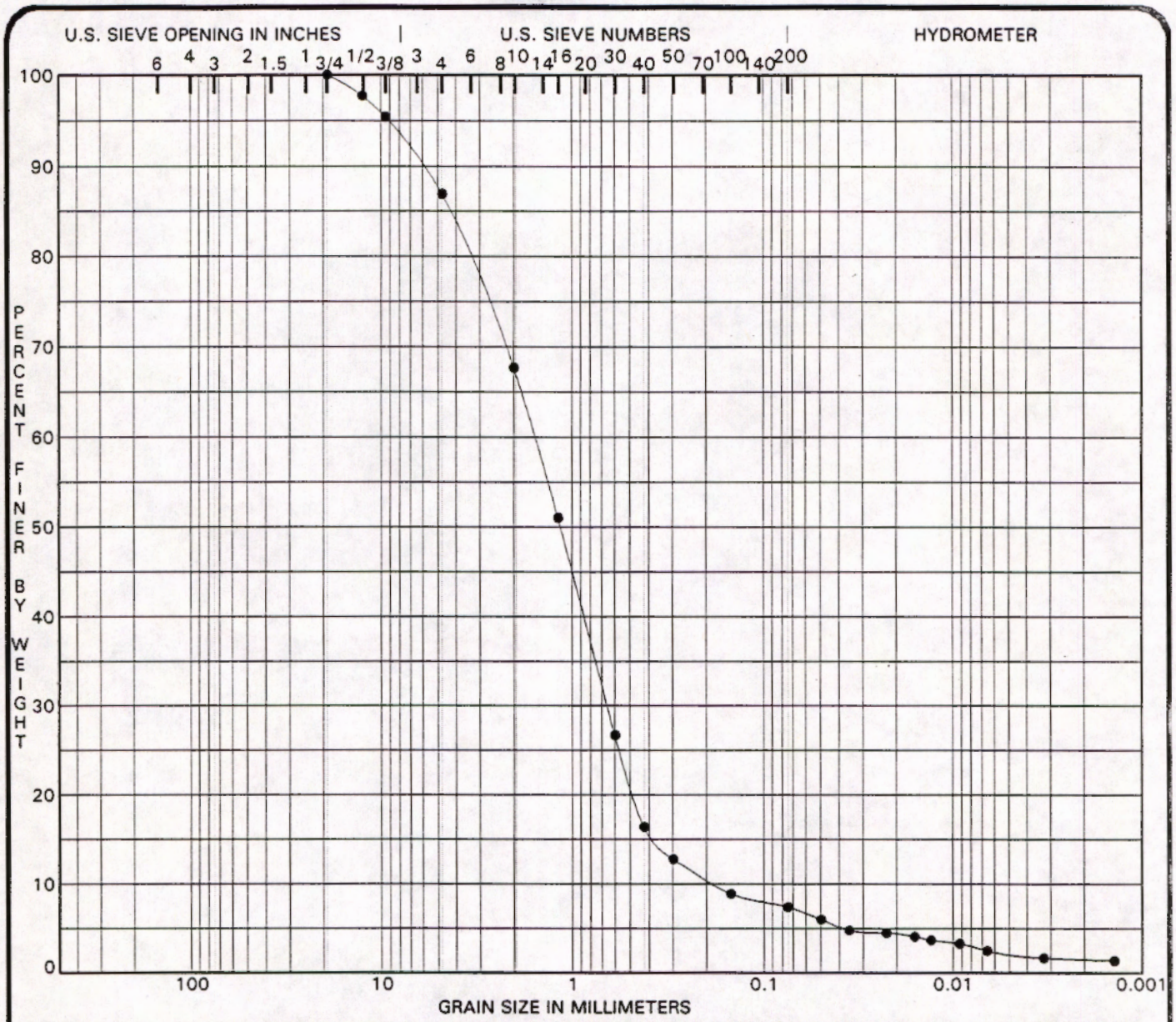
EARTH EXPLORATION

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831

CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

Earth Exploration, Inc.
7770 West New York Street Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
● MW-34 GRAB 6'-8'	SW-SM, Well Graded Sand (visual)	--				1.51	8.6

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
13.1	79.5	5.2	2.2

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	21.3	0.016	4.1
16.0	99.1	0.25	11.8	0.008	2.9
4.0	83.1	0.125	8.5	0.005	2.2
2.0	67.7	0.075	7.4	0.002	1.5
1.0	45.1	0.050	6.0		

EARTH EXPLORATION INC

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831

CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

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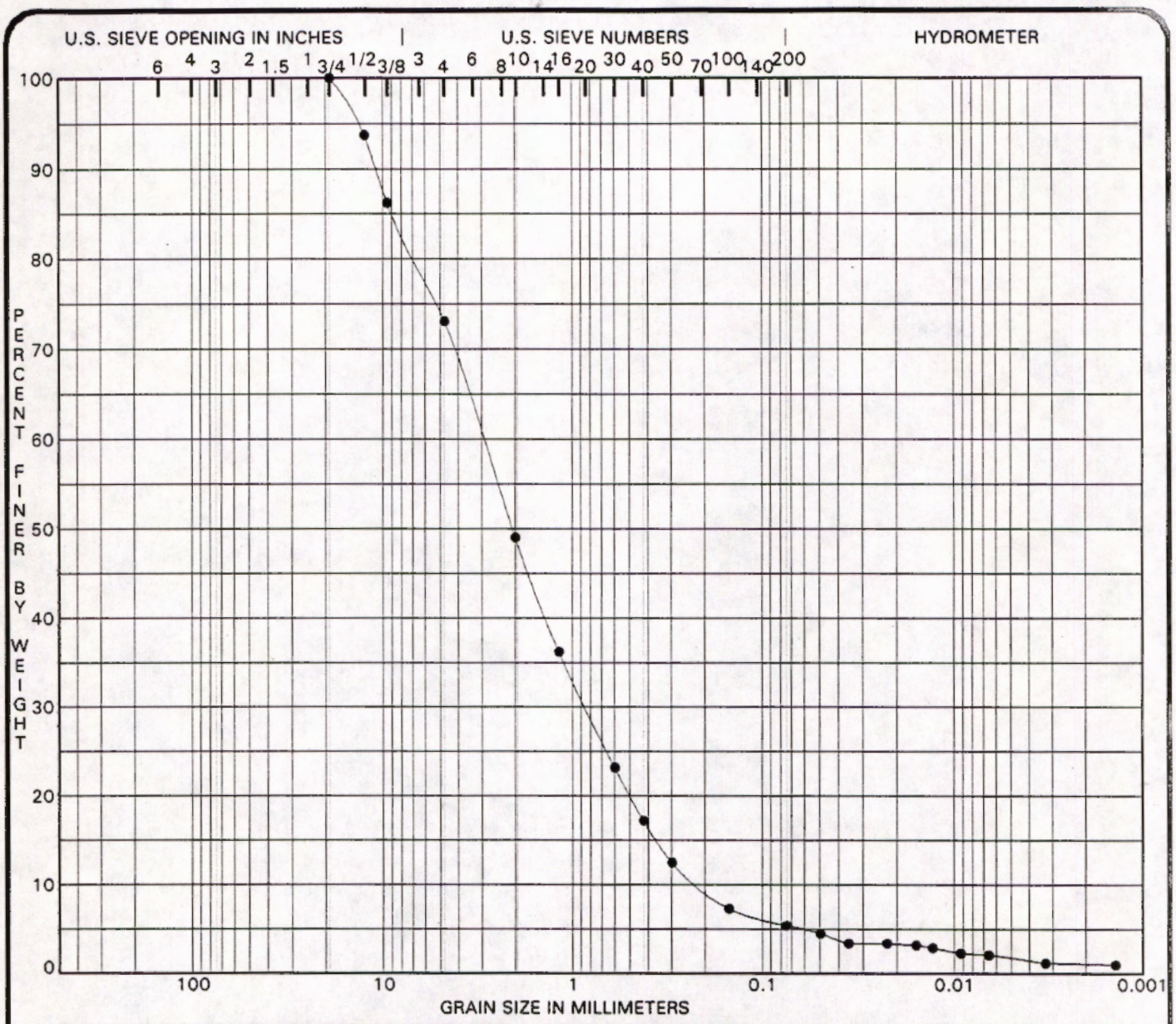
317-273-1690 / 317-273-2250 (Fax)



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
● MW-34 GRAB 12.5'-13'	SW-SM, Well Graded Sand (visual)	--				1.14	13.8

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
26.9	67.7	3.7	1.7

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	20.0	0.016	3.2
16.0	97.4	0.25	11.1	0.008	2.2
4.0	68.3	0.125	6.8	0.005	1.7
2.0	49.0	0.075	5.4	0.002	1.1
1.0	33.0	0.050	4.5		

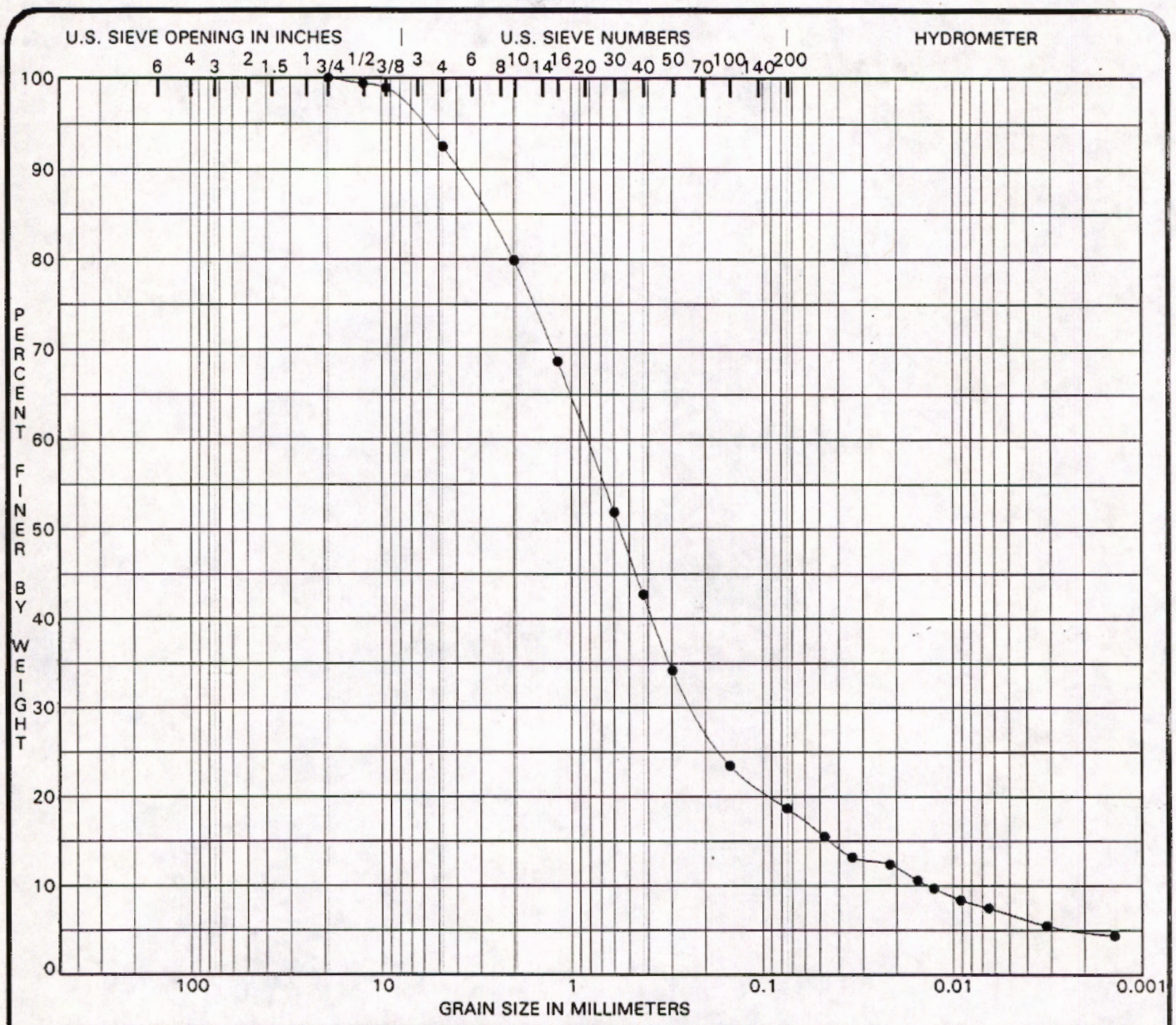
EARTH EXPLORATION

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831

CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

Earth Exploration, Inc.
7770 West New York Street Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
● SB-1 GRAB 3'-3.5'	SM, Silty Sand (visual)	--					

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
7.5	73.8	11.9	6.8

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	47.0	0.016	10.7
16.0	99.8	0.25	31.4	0.008	8.0
4.0	90.0	0.125	22.2	0.005	6.8
2.0	79.9	0.075	18.7	0.002	4.9
1.0	64.6	0.050	15.8		

EARTH EXPLORATION

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831

CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

Earth Exploration, Inc.
7770 West New York Street Indianapolis, Indiana 46214
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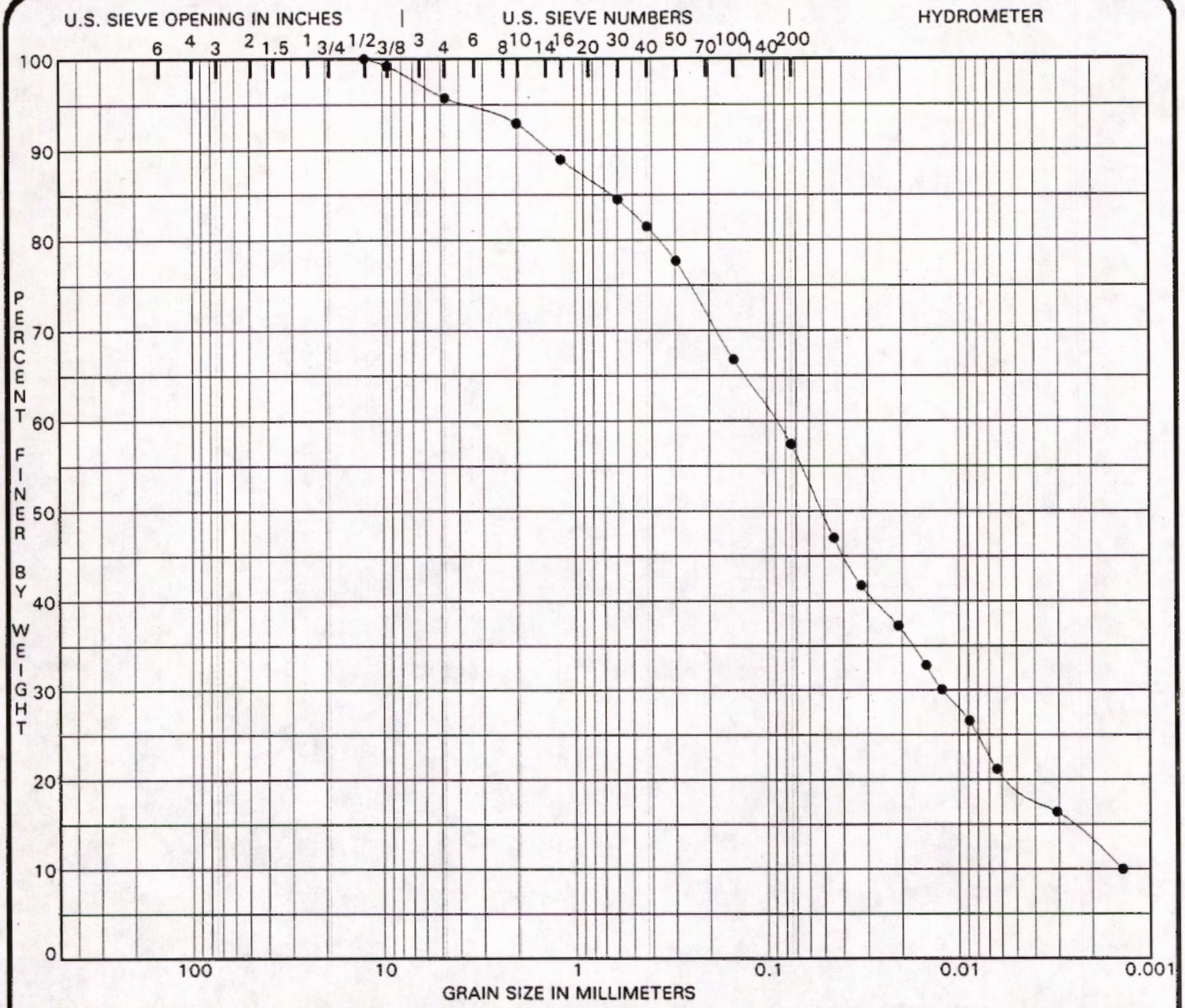

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Identification	USCS Classification	MC%	LL	PL	PI	Cc	Cu
● SB-1 S-1 5'-5.5'	CL-ML, Sandy Lean Clay (visual)	10.6					

% Gravel (>4.75mm)	% Sand (4.75 to .075mm)	% Silt (.075 to .005 mm)	% Clay (<.005mm)
4.3	38.3	37.8	19.6

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	82.9	0.016	33.7
16.0	100.0	0.25	74.8	0.008	24.9
4.0	95.1	0.125	64.3	0.005	19.6
2.0	92.9	0.075	57.4	0.002	12.9
1.0	87.8	0.050	49.2		

EARTH EXPLORATION

PROJECT Franklin-Curtis CMS
LOCATION Franklin, Indiana
CLIENT Earth Tech
EEI PROJECT NO. 3831

CLIENT ID NO. 07026.08
DATE 4-29-96

GRAIN SIZE DISTRIBUTION CURVE

Earth Exploration, Inc.
7770 West New York Street Indianapolis, Indiana 46214
317-273-1690 / 317-273-2250 (Fax)

CHAIN OF CUSTODY RECORD

Earth Tech
5010 Stone Mill Road, Bloomington, Indiana 47408
Phone (812) 336-0972 Fax (812) 336-3991

PROJECT: Amphenol - Franklin Curtis - CMS
PROJECT NO.: 07026.08
SAMPLERS: Robert W. Conway

SAMPLE I.D.	DATE	TIME	MATRIX*	COMP	GRAB	SAMPLE LOCATION	NO CONTAINERS	1 L Plastic / HNO3	1 L Plastic / NaOH	1 L Plastic / None	2 L Amber Glass / NaOH		ANALYSIS
CMS-GW-MW-34	4-9-96	16:39	WTR			MW-34	3	X	X	X			Metals (includes Ca, Mg, Mn, Fe), CN, (Hardness, Alkalinity, TDS, TSS
CMS-GW-MW-34d	4-9-96	16:39	WTR			MW-34	2	X	X				Metals (includes Ca, Mg, Mn, Fe), CN
CMS-GW-MW-32	4-9-96	12:35	WTR			MW-32	1				X		Cyanide
CMS-GW-MW-33		14:18				MW-33	1				X		
CMS-GW-MW-34		16:39				MW-34	1				X		
CMS-GW-MW-31		19:00				MW-31	1				X		

Relinquished By	Date	Time	Received By	Date	Time	Remarks
Robert W. Conway	4-11-96	16:30	Fed Ex. Shipped w/COC Seal	4-11-96	16:30	
Relinquished By	Date	Time	Received For Lab By	Date	Time	
			[illegible]	4/12/96	0930	6°C

*MATRIX WATER (WTR), WASTEWATER (WW), SOIL, SLUDGE (SLU), AIR, OIL, HAZARDOUS WASTE (HW)

CHAIN OF CUSTODY RECORD

1 : 1

Earth Tech
5010 Stone Mill Road, Bloomington, Indiana 47408
Phone (812) 336-0972 Fax (812) 336-3991

PROJECT: Amphenol - Franklin Curtis - CMS

PROJECT NO.: 07026.08

SAMPLERS: Robert W. Conway

SAMPLE I.D.	DATE	TIME	MATRIX*	COMP	GRAB	SAMPLE LOCATION	NO. CONTAINERS	1L Plastic / HNO3	1L Plastic / NaOH	1L Plastic / None			ANALYSIS
CMS-GW-MW-32	4-9-96	12:35	WTR			MW-32	3	X	X	X			Metals (includes Ca, Mg, Mn, Fe) CN, Hardness, Alkalinity, TDS, TSS
CMS-GW-MW-33	↓	14:18	↓			MW-33	3	X	X	X			
CMS-GW-MW-31	↓	19:00	↓			MW-31	3	X	X	X			
CMS-GW-EB	4-9-96	17:50	WTR			—	2	X	X				Metals (includes Ca, Mg, Mn, Fe), CN

Relinquished By	Date	Time	Received By	Date	Time	Remarks
Robert W. Conway	4-11-96	16:30	Shipped FedEx w/COC	4-11-96	16:30	
Relinquished By	Date	Time	Received For Lab By	Date	Time	
			[illegible]	4/12/96	0930	5°C

*MATRIX: WATER (WTR), WASTEWATER (WW), SOIL, SLUDGE (SLU), AIR, OIL, HAZARDOUS WASTE (HW)

CHAIN OF CUSTODY RECORD

Earth Tech
5010 Stone Mill Road, Bloomington, Indiana 47408
Phone (812) 336-0972 Fax (812) 336-3991

PROJECT: Amphenol-Franklin Curtis-CMS
PROJECT NO.: 07026.08
SAMPLERS: Robert W. Conway

SAMPLE I.D.	DATE	TIME	MATRIX*	COMP	GRAB	SAMPLE LOCATION	NO. CONTAINERS	CONTAINER TYPE/ PRESERVATIVE 40 ml VOA/HCL					ANALYSIS
CMS-GW-MW-32	4-9-96	12:35	WTR			MW-32	2	X					VOC
CMS-GW-MW-33		14:18				MW-33	2	X					
CMS-GW-MW-34		16:39				MW-34	2	X					
CMS-GW-MW-31		19:00				MW-31	2	X					
CMS-GW-MW-12		20:35				MW-12	2	X					
CMS-GW-MW-34d		16:39				MW-34 dup	2	X					
CMS-GW-MW-34 ms/msd		16:39				MW-34	2	X					
CMS-GW-MW-31 ms/msd		19:00				MW-31	2	X					
CMS-GW-EB		17:50				—	2	X					VOC

Relinquished By	Date	Time	Received By	Date	Time	Remarks
Robert W. Conway	4-11-96	16:30	Fed Ex Shipped w/COC Seal	4-11-96	16:30	
Relinquished By	Date	Time	Received For Lab By	Date	Time	
			M. McCord	4/12/96	0935	5°C

*MATRIX: WATER (WTR), WASTEWATER (WW), SOIL, SLUDGE (SLU), AIR, OIL, HAZARDOUS WASTE (HW)

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 W. ALBANY SUITE C BROKEN ARROW, OK 74012-1421 (918) 251-2858

Client Name: THE EARTH TECHNOLOGY CORPORATION
5010 STONE MILL ROAD
BLOOMINGTON, IN 47408

Client ID: CMS-GW-MW-31 Project ID: FRANKLIN SITE

SWLO ID: 25242.02 Report: 25242.02

Collected: 04/09/1996 Report Date: 05/06/1996 Page: 1
Received: 04/12/1996 Last Modified: 05/06/1996 Matrix: Water

TEST	DATE EXTRACTED	DETECTION LIMIT	UNITS	RESULTS	DATE ANALYZED	METHOD REFERENCE
		*** INORGANICS ***				
ALKALINITY		20	mg/l	285	04/22/96	SM 403/EPA 310.1
AMENABLE CN	04/23/96	10.0	ug/l	ND	04/23/96	SM 412F/SW 9010
HARDNESS		1	mg/l	380	05/01/96	SM 314B/EPA 130.2
TDS		10	mg/l	492	04/12/96	EPA 160.1
TSS		10	mg/l	11	04/12/96	EPA 160.2

ND = NOT DETECTED ABOVE QUANTITATION LIMIT
B = ANALYTE DETECTED IN BLANK AS WELL AS SAMPLE
I = UNABLE TO QUANTITATE DUE TO MATRIX INTERFERENCE
NA = NOT APPLICABLE
Methodology: SM = STANDARD METHODS, 16th EDITION, 1985
EPA = #EPA600/4-79-020, MARCH 1985

* = SURROGATE RECOVERY OUTSIDE OF QC LIMITS
D = SURROGATES DILUTED OUT
J = ESTIMATED VALUE: CONCENTRATION BELOW LIMIT OF QUANTITATION
SW = EPA METHODOLOGY, "#SW846", THIRD EDITION, NOVEMBER 1986

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 W. ALBANY SUITE C BROKEN ARROW, OK 74012-1421 (918) 251-2858

Client Name: THE EARTH TECHNOLOGY CORPORATION
5010 STONE MILL ROAD
BLOOMINGTON, IN 47408

Client ID: CMS-GW-MW-32 Project ID: FRANKLIN SITE

SWLO ID: 25242.05 Report: 25242.05

Collected: 04/09/1996 Report Date: 05/06/1996 Page: 1
Received: 04/12/1996 Last Modified: 05/06/1996 Matrix: Water

TEST	DATE EXTRACTED	DETECTION LIMIT	UNITS	RESULTS	DATE ANALYZED	METHOD REFERENCE
		*** INORGANICS ***				
ALKALINITY		20	mg/l	269	04/22/96	SM 403/EPA 310.1
AMENABLE CN	04/23/96	10.0	ug/l	ND	04/23/96	SM 412F/SW 9010
HARDNESS		1	mg/l	332	05/01/96	SM 314B/EPA 130.2
TDS		10	mg/l	395	04/12/96	EPA 160.1
TSS		10	mg/l	ND	04/12/96	EPA 160.2

ND = NOT DETECTED ABOVE QUANTITATION LIMIT
B = ANALYTE DETECTED IN BLANK AS WELL AS SAMPLE
I = UNABLE TO QUANTITATE DUE TO MATRIX INTERFERENCE
NA = NOT APPLICABLE
Methodology: SM = STANDARD METHODS, 16th EDITION, 1985
EPA = #EPA600/4-79-020, MARCH 1985

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SW = EPA METHODOLOGY, "#SW846", THIRD EDITION, NOVEMBER 1986

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 W. ALBANY SUITE C BROKEN ARROW, OK 74012-1421 (918) 251-2858

Client Name: THE EARTH TECHNOLOGY CORPORATION
5010 STONE MILL ROAD
BLOOMINGTON, IN 47408

Client ID: CMS-GW-MW-33 Project ID: FRANKLIN SITE

SWLO ID: 25242.06 Report: 25242.06

Collected: 04/09/1996 Report Date: 05/06/1996 Page: 1
Received: 04/12/1996 Last Modified: 05/06/1996 Matrix: Water

TEST	DATE EXTRACTED	DETECTION LIMIT	UNITS	RESULTS	DATE ANALYZED	METHOD REFERENCE
		*** INORGANICS ***				
ALKALINITY		20	mg/l	290	04/22/96	SM 403/EPA 310.1
AMENABLE CN	04/23/96	10.0	ug/l	ND	04/23/96	SM 412F/SW 9010
HARDNESS		1	mg/l	362	05/01/96	SM 314B/EPA 130.2
TDS		10	mg/l	428	04/12/96	EPA 160.1
TSS		10	mg/l	26	04/12/96	EPA 160.2

ND = NOT DETECTED ABOVE QUANTITATION LIMIT
B = ANALYTE DETECTED IN BLANK AS WELL AS SAMPLE
I = UNABLE TO QUANTITATE DUE TO MATRIX INTERFERENCE
NA = NOT APPLICABLE
Methodology: SM = STANDARD METHODS, 16th EDITION, 1985
EPA = #EPA600/4-79-020, MARCH 1985

* = SURROGATE RECOVERY OUTSIDE OF QC LIMITS
D = SURROGATES DILUTED OUT
J = ESTIMATED VALUE: CONCENTRATION BELOW LIMIT OF QUANTITATION
SW = EPA METHODOLOGY, "#SW846", THIRD EDITION, NOVEMBER 1986

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 W. ALBANY SUITE C BROKEN ARROW, OK 74012-1421 (918) 251-2858

Client Name: THE EARTH TECHNOLOGY CORPORATION
5010 STONE MILL ROAD
BLOOMINGTON, IN 47408

Client ID: CMS-GW-MW-34 Project ID: FRANKLIN SITE

SWLO ID: 25242.07 Report: 25242.07

Collected: 04/09/1996 Report Date: 05/06/1996 Page: 1
Received: 04/12/1996 Last Modified: 05/06/1996 Matrix: Water

TEST	DATE EXTRACTED	DETECTION LIMIT	UNITS	RESULTS	DATE ANALYZED	METHOD REFERENCE
		*** INORGANICS ***				
ALKALINITY		20	mg/l	263	04/22/96	SM 403/EPA 310.1
AMENABLE CN	04/23/96	10.0	ug/l	ND	04/23/96	SM 412F/SW 9010
HARDNESS		1	mg/l	325	05/01/96	SM 314B/EPA 130.2
TDS		10	mg/l	399	04/12/96	EPA 160.1
TSS		10	mg/l	12	04/12/96	EPA 160.2

ND = NOT DETECTED ABOVE QUANTITATION LIMIT
B = ANALYTE DETECTED IN BLANK AS WELL AS SAMPLE
I = UNABLE TO QUANTITATE DUE TO MATRIX INTERFERENCE
NA = NOT APPLICABLE
Methodology: SM = STANDARD METHODS, 16th EDITION, 1985
EPA = #EPA600/4-79-020, MARCH 1985

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J = ESTIMATED VALUE: CONCENTRATION BELOW LIMIT OF QUANTITATION
SW = EPA METHODOLOGY, "#SW846", THIRD EDITION, NOVEMBER 1986

CHAIN OF CUSTODY RECORD

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
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TM

SAMPLING FIRM	CLIENT CONTACT	PHONE NUMBER
EARTH TECH	J. KIETH	(812) 336-0972

P.O. or PROPOSAL NUMBER	PROJECT NAME
	FORMER AMPHENOL CMS

SAMPLER (Signature): Martin Lyth

ANALYTICAL TESTS REQUESTED

SAMPLE ID	DATE	TIME	COMP	GRAB	LOCATION	MATRIX	NUMBER OF CONTAINERS	VOC	METALS, CN		40ml VOA	METALS/				REMARKS
MW-32	4/4/96	1330		X	6.0-8.0 FT	SOIL	2	X	X							
MW-32	↓	1800		↓	8.8-9.3 FT	↓	2	X	X							
MW-33	↓	1630		↓	6.0-7.0 FT	↓	2	X	X							
MW-33	↓	1610		↓	9.0-9.5 FT	↓	2	X	X							
BLANK	4/5/96	1000		X	RINSATE	WTR	3				X	X				
MW-34	↓	1100		X	6.0-8.0 FT	SOIL	2	X	X							
MW-34	↓	1130		↓	17.0-17.5 FT	↓	2	X	X							
MW-31	↓	1410		↓	6.0-8.0 FT	↓	2	X	X							
MW-31	↓	1410		↓	6.0-8.0 FT Dup	↓	2	X	X							
MW-31	↓	1410		↓	6.0-8.0 FT MS	↓	1	X								
MW-31	↓	1410		↓	6.0-8.0 FT MSD	↓	1	X								
MW-31	↓	1440		↓	14.0-15.0 FT	↓	2	X	X							

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
Martin Lyth	4/5/96	1700	Custody Seal

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY (Signature)
	4/6/96	0840	[signature]

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS: ATTN: RANDY STAGGS 5°C

[SR012-1192-03]

SE2000			
Environmental Logger			
4/22/96 10:36			
Unit# CHROME_L Test 0			
Setups:	INPUT 1	INPUT 2	INPUT 3
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Type	Level (F)	Level (F)	Level (F)
Mode	TOC	TOC	TOC
I.D.	P1	MW31	P2
Reference	727.980	727.660	727.140
SG	1.000	1.000	1.000
Linearity	0.000	0.000	0.026
Scale factor	10.000	10.096	10.100
Offset	0.000	0.210	0.123
Delay mSEC	50.000	50.000	50.000
Step 0 04/18 10:37:50			
Elapsed Time	INPUT 1	INPUT 2	INPUT 3
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0.000	725.927	726.325	726.289