

Corporate Office & Laboratory
1241 Bellevue Street
Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827
800-7-ENCHEM



Madison Office & Laboratory
525 Science Drive
Madison, WI 53711
608-232-3300 • Fax: 608-233-0502
888-5-ENCHEM

- Analytical Report -

Project Name : LAKE COMO
Project Number :
Field ID : 01-3M 8.6-10.6
Lab Sample Number : 913831-001
Lab Project Number : 913831

Submitter : US ARMY CORPS OF ENGINEERS
Report Date : 12/6/01
Collection Date : 7/30/01
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Semivolatile Organic Results

GC/MS SIM - SEMIVOLATILES

Prep Method: SW846 3550B

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzo(a)anthracene	34	1.3	4.1		ug/kg		11/12/01	SW846 8270C
Benzo(a)pyrene	54	1.1	3.5		ug/kg		11/12/01	SW846 8270C
Benzo(b)fluoranthene	47	0.90	2.9		ug/kg		11/12/01	SW846 8270C
Benzo(g,h,i)perylene	43	0.93	3.0		ug/kg		11/12/01	SW846 8270C
Benzo(k)fluoranthene	34	1.6	5.1		ug/kg		11/12/01	SW846 8270C
Chrysene	35	1.1	3.5		ug/kg		11/12/01	SW846 8270C
Dibenzo(a,h)anthracene	10	0.81	2.6		ug/kg		11/12/01	SW846 8270C
Fluoranthene	51	1.1	3.5		ug/kg		11/12/01	SW846 8270C
Indeno(1,2,3-cd)pyrene	35	0.83	2.8		ug/kg		11/12/01	SW846 8270C
Naphthalene	2.7	1.1	3.5		ug/kg	Q	11/12/01	SW846 8270C

Semivolatile Organic Results

PCB LIST

Prep Method: SW846 3550

Prep Date: 11/7/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Aroclor 1016	< 4.3	4.3	14		ug/kg		11/13/01	SW846 8082
Aroclor 1221	< 4.3	4.3	14		ug/kg		11/13/01	SW846 8082
Aroclor 1232	< 4.3	4.3	14		ug/kg		11/13/01	SW846 8082
Aroclor 1242	< 4.3	4.3	14		ug/kg		11/13/01	SW846 8082
Aroclor 1248	< 4.3	4.3	14		ug/kg		11/13/01	SW846 8082
Aroclor 1254	< 4.3	4.3	14		ug/kg		11/13/01	SW846 8082
Aroclor 1260	< 4.3	4.3	14		ug/kg		11/13/01	SW846 8082

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- Analytical Report -

Project Name : LAKE COMO
Project Number :
Field ID : 01-3M 10.0-12.0
Lab Sample Number : 913831-002
Lab Project Number : 913831

Submitter : US ARMY CORPS OF ENGINEERS
Report Date : 12/6/01
Collection Date : 7/30/01
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Semivolatile Organic Results

GC/MS SIM - SEMIVOLATILES

Prep Method: SW846 3550B

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzo(a)anthracene	< 0.88	0.88	2.8		ug/kg		11/12/01	SW846 8270C
Benzo(a)pyrene	< 0.71	0.71	2.3		ug/kg		11/12/01	SW846 8270C
Benzo(b)fluoranthene	2.1	0.59	1.9		ug/kg		11/12/01	SW846 8270C
Benzo(g,h,i)perylene	0.79	0.81	1.9		ug/kg	Q	11/12/01	SW846 8270C
Benzo(k)fluoranthene	< 1.0	1.0	3.2		ug/kg		11/12/01	SW846 8270C
Chrysene	< 0.69	0.69	2.2		ug/kg		11/12/01	SW846 8270C
Dibenzo(a,h)anthracene	< 0.53	0.53	1.7		ug/kg		11/12/01	SW846 8270C
Fluoranthene	< 0.72	0.72	2.3		ug/kg		11/12/01	SW846 8270C
Indeno(1,2,3-cd)pyrene	0.57	0.54	1.7		ug/kg	Q	11/12/01	SW846 8270C
Naphthalene	< 0.69	0.69	2.2		ug/kg		11/12/01	SW846 8270C

Semivolatile Organic Results

PCB LIST

Prep Method: SW846 3550

Prep Date: 11/8/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Aroclor 1016	< 2.8	2.8	8.9		ug/kg		11/13/01	SW846 8082
Aroclor 1221	< 2.8	2.8	8.9		ug/kg		11/13/01	SW846 8082
Aroclor 1232	< 2.8	2.8	8.9		ug/kg		11/13/01	SW846 8082
Aroclor 1242	< 2.8	2.8	8.9		ug/kg		11/13/01	SW846 8082
Aroclor 1248	< 2.8	2.8	8.9		ug/kg		11/13/01	SW846 8082
Aroclor 1254	< 2.8	2.8	8.9		ug/kg		11/13/01	SW846 8082
Aroclor 1260	< 2.8	2.8	8.9		ug/kg		11/13/01	SW846 8082

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- Analytical Report -

Project Name : LAKE COMO
Project Number :
Station ID : 01-3M 8.6-10.6
Lab Sample Number : 913831-001
Lab Project Number : 913831

Submitter : US ARMY CORPS OF ENGINEERS
Report Date : 12/6/01
Collection Date : 7/30/01
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic	4.0	0.031	0.099		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Cadmium	0.50	0.019	0.061		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Chromium	41	0.049	0.16		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Copper	16	0.081	0.26		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Lead	19	0.047	0.15		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Mercury	0.058	0.0090	0.029		mg/Kg		11/13/01	SW846 3050B	SW846 6020
Nickel	23	0.041	0.13		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Zinc	83	0.57	1.8		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Nitrogen, ammonia	88	11	35		mg/kg		11/12/01	EPA 350.1	EPA 350.1
Phosphorus, total	570	85	270		mg/kg		11/7/01	EPA 365.1	EPA 365.1
Solids, percent	41.3				%		11/2/01	SM 2540G M	SM 2540G M

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- Analytical Report -

Project Name : LAKE COMO
Project Number :
Station ID : 01-3M 10.0-12.0
Lab Sample Number : 913831-002
Lab Project Number : 913831

Submitter : US ARMY CORPS OF ENGINEERS
Report Date : 12/6/01
Collection Date : 7/30/01
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Arsenic	1.0	0.020	0.064		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Cadmium	0.20	0.012	0.038		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Chromium	39	0.033	0.11		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Copper	8.5	0.054	0.17		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Lead	5.7	0.031	0.096		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Mercury	0.025	0.0082	0.020		mg/Kg		11/13/01	SW846 3050B	SW846 6020
Nickel	11	0.027	0.086		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Zinc	18	0.38	1.2		mg/Kg		11/12/01	SW846 3050B	SW846 6020
Nitrogen, ammonia	60	7.2	23		mg/kg		11/12/01	EPA 350.1	EPA 350.1
Phosphorus, total	120	55	180		mg/kg	Q	11/7/01	EPA 365.1	EPA 365.1
Solids, percent	63.5				%		11/2/01	SM 2540G M	SM 2540G M

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Project Name: LAKE COMO

Project Number:

US ARMY CORPS OF ENGINEERS

ATTN: JIM SENTZ

190 5TH STREET EAST

ST PAUL

MN 55101

Attached are the following for Batch Number: 912479

Organic

Inorganic

QC Data

Diskette

Ship By: First Class Mail

FedEx

Priority Mail

Other: _____

Comments:

If you have any questions please call your Client Manager: **Tod Noltemeyer**



... chemistry for the environment

Please Remit Payment To:

EN CHEM INC DEPT #4015
PO BOX 2088
MILWAUKEE WI 53201-2088
TELEPHONE: 920-469-2436
FAX: 920-469-8827

INVOICE

INVOICE NO: 05912479

DATE: 08/21/01

EN CHEM PROJ: 912479

PO NO:

PROJ REC'D: 08/01/01

TERMS: Net 30

DUE DATE: 09/20/01

BILL TO:

US ARMY CORPS OF ENGINEERS
ST PAUL DISTRICT
190 5TH STREET EAST 6TH FLOOR
ST PAUL MN 55101

SITE INFORMATION:

LAKE COMO

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
10	313MC	GRAIN SIZE	\$135.00	\$1,350.00
10	546M	TOC IN QUADRUPLICATE+A	\$60.00	\$600.00
10	567M	NITROGEN, TOTAL KJELDAHL	\$32.00	\$320.00

SubTotal: \$2,270.00

Tax: \$0.00

Discount: \$0.00

Total: \$2,270.00

Thank You For Choosing En Chem!

Please complete, detach and return with your payment.

METHOD OF PAYMENT: CHECK / VISA / MASTERCARD / AMERICAN EXPRESS
(circle one)

Credit Card Holder: (print) _____

Credit Card Account No: _____

Exp Date: _____ Signature: _____

**INVOICE
TOTAL**

\$2,270.00

AMOUNT PAID \$ _____

CHECK NO: _____

INVOICE NO: 05912479

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- Analytical Report -

Project Name : LAKE COMO

Client : US ARMY CORPS OF ENGINEERS

Project Number :

Report Date : 8/21/01

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
912479-001	01-3M 8.6-10.6	7/30/01			
912479-002	01-3M 10.0-12.0	7/30/01			
912479-003	01-3M 12.0-13.5	7/30/01			
912479-004	01-8M 5.8-8.0	7/31/01			
912479-005	01-8M 8.0-9.4	7/31/01			
912479-006	01-9M 5.8-7.7	7/31/01			
912479-007	01-9M 8.0-9.2	7/31/01			
912479-008	01-10M 4.7-6.5	7/31/01			
912479-009	01-12M 7.0-8.0	7/31/01			
912479-010	01-12M 8.0-9.0	7/31/01			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedures. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Tod Holtmeier
Approval Signature

8/22/01
Date

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- Analytical Report -

Project Name : LAKE COMO

Submitter : US ARMY CORPS OF ENGINEERS

Project Number :

Report Date : 8/21/01

Station ID : 01-3M 8.6-10.6

Collection Date : 7/30/01

Lab Sample Number : 912479-001

Matrix Type : SOIL

Lab Project Number : 912479

WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Nitrogen, total Kjeldahl	4500	280	890		mg/kg		8/7/01	EPA 351.1	EPA 351.1
Solids, percent	39.0				%		8/2/01	SM 2540G M	SM 2540G M
TOC average of rep 1-4	43000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 1	41000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 2	43000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 3	42000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 4	46000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M

All soil results are reported on a dry weight basis unless otherwise noted.

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- Analytical Report -

Project Name : LAKE COMO

Submitter : US ARMY CORPS OF ENGINEERS

Project Number :

Report Date : 8/21/01

Station ID : 01-3M 10.0-12.0

Collection Date : 7/30/01

Lab Sample Number : 912479-002

Matrix Type : SOIL

Lab Project Number : 912479

WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Nitrogen, total Kjeldahl	2200	39	120		mg/kg		8/7/01	EPA 351.1	EPA 351.1
Solids, percent	61.7				%		8/2/01	SM 2540G M	SM 2540G M
TOC average of rep 1-4	19000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 1	19000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 2	22000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 3	20000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 4	18000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M

All soil results are reported on a dry weight basis unless otherwise noted.

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- Analytical Report -

Project Name : LAKE COMO
Project Number :
Station ID : 01-3M 12.0-13.5
Lab Sample Number : 912479-003
Lab Project Number : 912479

Submitter : US ARMY CORPS OF ENGINEERS
Report Date : 8/21/01
Collection Date : 7/30/01
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Nitrogen, total Kjeldahl	240	40	130		mg/kg		8/7/01	EPA 351.1	EPA 351.1
Solids, percent	59.8				%		8/2/01	SM 2540G M	SM 2540G M
TOC average of rep 1-4	18000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 1	18000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 2	19000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 3	16000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 4	17000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M

All soil results are reported on a dry weight basis unless otherwise noted.

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- Analytical Report -

Project Name : LAKE COMO
Project Number :
Station ID : 01-8M 5.8-8.0
Lab Sample Number : 912479-004
Lab Project Number : 912479

Submitter : US ARMY CORPS OF ENGINEERS
Report Date : 8/21/01
Collection Date : 7/31/01
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Nitrogen, total Kjeldahl	2900	50	160		mg/kg		8/7/01	EPA 351.1	EPA 351.1
Solids, percent	48.0				%		8/2/01	SM 2540G M	SM 2540G M
TOC average of rep 1-4	33000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 1	32000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 2	33000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 3	34000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 4	34000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M

All soil results are reported on a dry weight basis unless otherwise noted.

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- Analytical Report -

Project Name : LAKE COMO

Submitter : US ARMY CORPS OF ENGINEERS

Project Number :

Report Date : 8/21/01

Station ID : 01-8M 8.0-9.4

Collection Date : 7/31/01

Lab Sample Number : 912479-005

Matrix Type : SOIL

Lab Project Number : 912479

WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Nitrogen, total Kjeldahl	2500	45	140		mg/kg		8/7/01	EPA 351.1	EPA 351.1
Solids, percent	53.2				%		8/2/01	SM 2540G M	SM 2540G M
TOC average of rep 1-4	44000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 1	51000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 2	35000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 3	44000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 4	47000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M

All soil results are reported on a dry weight basis unless otherwise noted.

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- Analytical Report -

Project Name : LAKE COMO

Submitter : US ARMY CORPS OF ENGINEERS

Project Number :

Report Date : 8/21/01

Station ID : 01-9M 5.8-7.7

Collection Date : 7/31/01

Lab Sample Number : 912479-006

Matrix Type : SOIL

Lab Project Number : 912479

WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Nitrogen, total Kjeldahl	700	57	180		mg/kg		8/7/01	EPA 351.1	EPA 351.1
Solids, percent	41.9				%		8/2/01	SM 2540G M	SM 2540G M
TOC average of rep 1-4	48000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 1	47000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 2	50000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 3	48000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 4	48000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M

All soil results are reported on a dry weight basis unless otherwise noted.

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- Analytical Report -

Project Name : LAKE COMO
Project Number :
Station ID : 01-9M 8.0-9.2
Lab Sample Number : 912479-007
Lab Project Number : 912479

Submitter : US ARMY CORPS OF ENGINEERS
Report Date : 8/21/01
Collection Date : 7/31/01
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Nitrogen, total Kjeldahl	890	39	120		mg/kg		8/7/01	EPA 351.1	EPA 351.1
Solids, percent	61.6				%		8/2/01	SM 2540G M	SM 2540G M
TOC average of rep 1-4	44000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 1	46000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 2	44000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 3	55000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 4	29000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M

All soil results are reported on a dry weight basis unless otherwise noted.

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525 Science Drive
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1-888-5-ENCHEM



Corporate Office & Laboratory
1795 Industrial Drive
Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827
1-800-7-ENCHEM

- Analytical Report -

Project Name : LAKE COMO
Project Number :
Station ID : 01-10M 4.7-6.5
Lab Sample Number : 912479-008
Lab Project Number : 912479

Submitter : US ARMY CORPS OF ENGINEERS
Report Date : 8/21/01
Collection Date : 7/31/01
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Nitrogen, total Kjeldahl	880	58	180		mg/kg		8/7/01	EPA 351.1	EPA 351.1
Solids, percent	41.5				%		8/2/01	SM 2540G M	SM 2540G M
TOC average of rep 1-4	32000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 1	29000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 2	37000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 3	33000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 4	28000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M

All soil results are reported on a dry weight basis unless otherwise noted.

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1-800-7-ENCHEM

- Analytical Report -

Project Name : LAKE COMO

Submitter : US ARMY CORPS OF ENGINEERS

Project Number :

Report Date : 8/21/01

Station ID : 01-12M 7.0-8.0

Collection Date : 7/31/01

Lab Sample Number : 912479-009

Matrix Type : SOIL

Lab Project Number : 912479

WI DNR LAB ID : 113172950

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Nitrogen, total Kjeldahl	900	68	220		mg/kg		8/7/01	EPA 351.1	EPA 351.1
Solids, percent	35.1				%		8/2/01	SM 2540G M	SM 2540G M
TOC average of rep 1-4	42000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 1	40000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 2	45000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 3	41000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 4	43000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M

All soil results are reported on a dry weight basis unless otherwise noted.

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1-800-7-ENCHEM

- Analytical Report -

Project Name : LAKE COMO
Project Number :
Station ID : 01-12M 8.0-9.0
Lab Sample Number : 912479-010
Lab Project Number : 912479

Submitter : US ARMY CORPS OF ENGINEERS
Report Date : 8/21/01
Collection Date : 7/31/01
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Inorganic Results

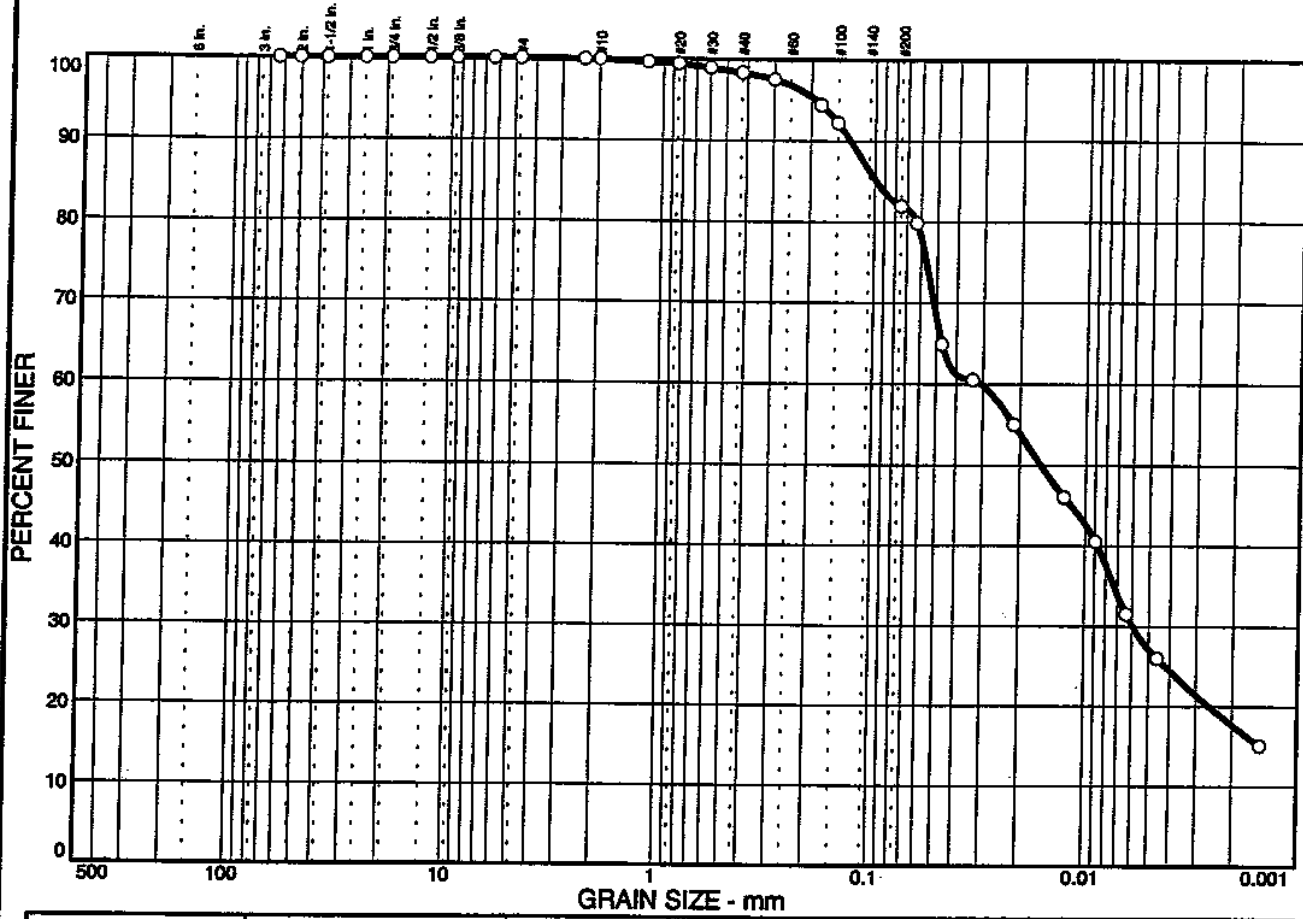
Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Nitrogen, total Kjeldahl	490	38	120		mg/kg		8/7/01	EPA 351.1	EPA 351.1
Solids, percent	62.7				%		8/2/01	SM 2540G M	SM 2540G M
TOC average of rep 1-4	16000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 1	14000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 2	16000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 3	16000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M
TOC replicate 4	16000	180	570		mg/kg		8/3/01	SW846 9060M	SW846 9060M

All soil results are reported on a dry weight basis unless otherwise noted.

✓ HW

JM

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	18.0	54.9	27.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	99.9		
#10	99.9		
#16	99.6		
#20	99.4		
#30	98.9		
#40	98.3		
#50	97.5		
#80	94.4		
#100	92.2		
#200	82.0		
#230	79.9		

Soil Description

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₈₅= 0.0980 D₆₀= 0.0307 D₅₀= 0.0161
 D₃₀= 0.0060 D₁₅= D₁₀=
 C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

(no specification provided)

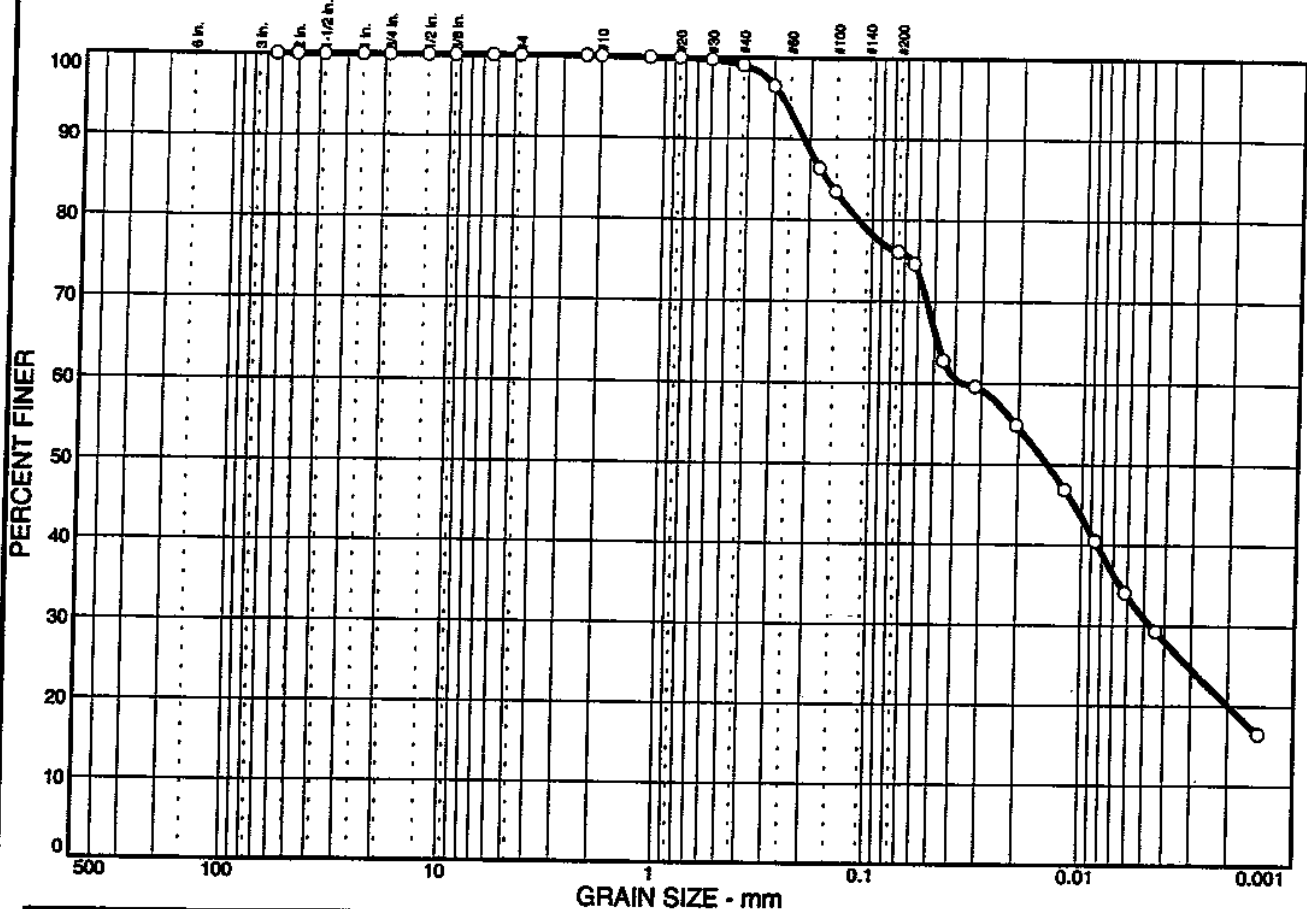
Sample No.: 001 Source of Sample: 912479 Date: 8/13/01
 Location: 01-3M, 8.6-10.6' Elev./Depth:

RMT, Inc.

Client:
 Project: EN CHEM
 Project No: 4241.01 Figure:

GRAIN SIZE DISTRIBUTION TEST REPORT

J.P.



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	23.9	45.2	30.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	100.0		
#10	100.0		
#16	99.9		
#20	99.9		
#30	99.7		
#40	99.0		
#50	96.5		
#80	86.4		
#100	83.5		
#200	76.1		
#230	74.6		

Soil Description

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₈₅= 0.166 D₆₀= 0.0368 D₅₀= 0.0146
 D₃₀= 0.0047 D₁₅= D₁₀=
 C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

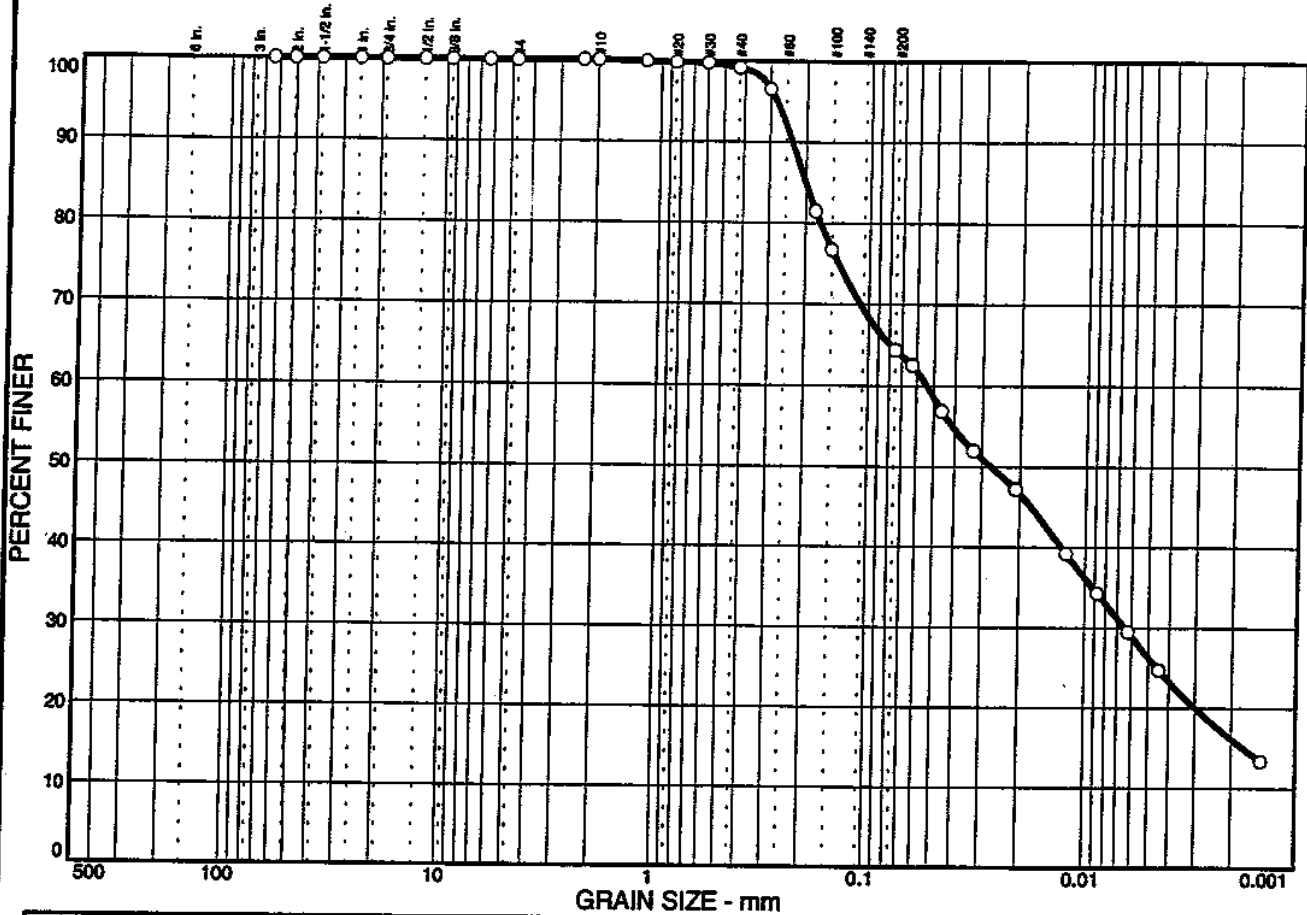
* (no specification provided)

Sample No.: 002 Source of Sample: 912479 Date: 8/13/01
 Location: 01-3M, 10.0-12.0' Elev./Depth:

RMT, Inc.	Client: Project: EN CHEM Project No: 4241.01
Figure:	

VORS Jmt

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	35.6	38.1	26.3

SIEVE SIZE	PERCENT FINER	SPEC. PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	100.0		
#10	100.0		
#16	99.9		
#20	99.8		
#30	99.7		
#40	99.1		
#50	96.5		
#80	81.5		
#100	76.7		
#200	64.4		
#230	62.5		

Soil Description

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₈₅= 0.201 D₆₀= 0.0541 D₅₀= 0.0271
 D₃₀= 0.0065 D₁₅= 0.0018 D₁₀=
 C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

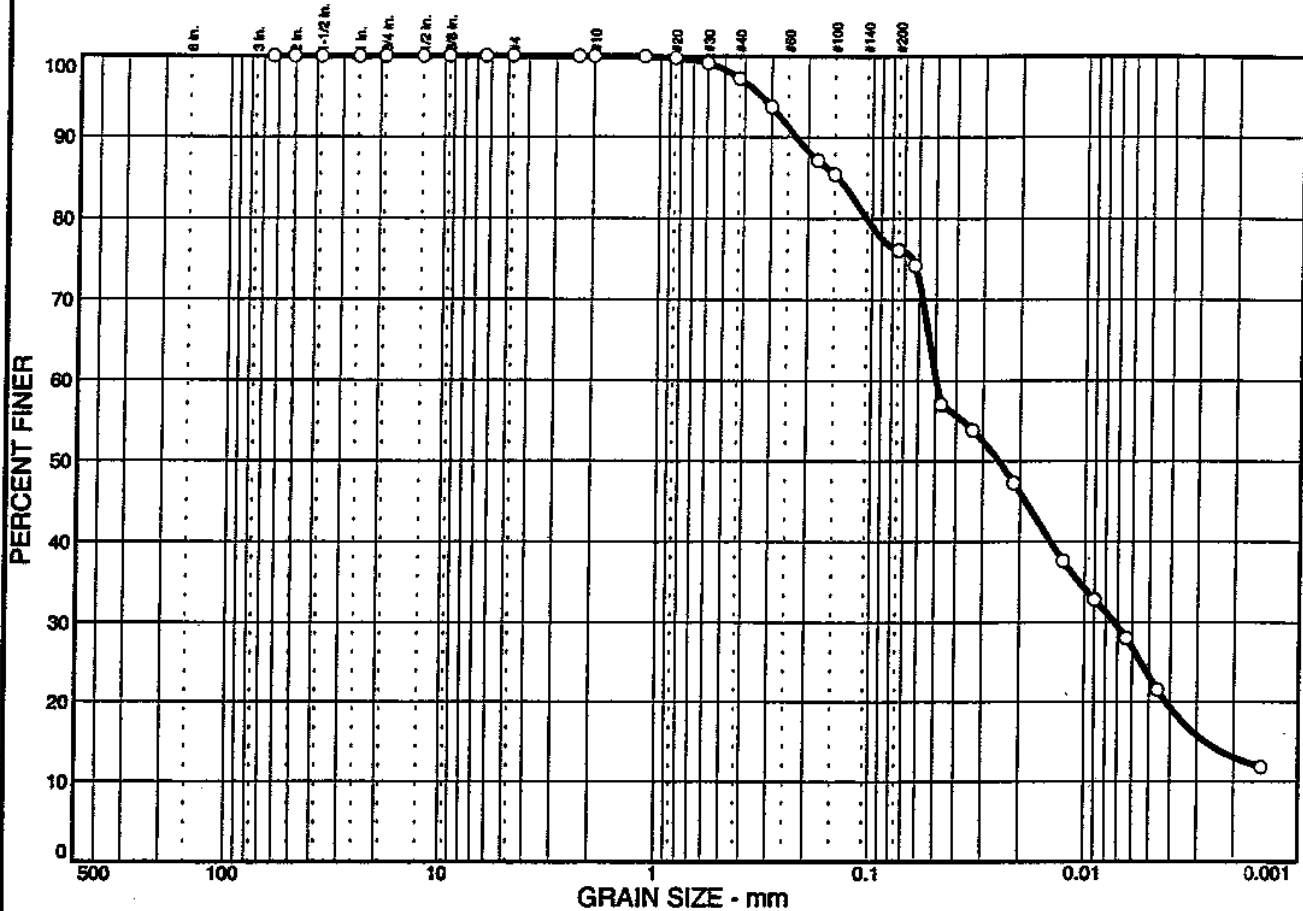
(no specification provided)

Sample No.: 003 Source of Sample: 912479 Date: 8/15/01
 Location: 01-3M, 12.0-13.5' Elev./Depth:

<h2>RMT, Inc.</h2>	Client: Project: EN CHEM Project No: 4241.01
	Figure:

VTRS *[Signature]*

GRAIN SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	23.9	52.9	23.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	99.9		
#10	99.9		
#16	99.9		
#20	99.7		
#30	99.1		
#40	97.2		
#50	93.7		
#80	87.1		
#100	85.4		
#200	76.1		
#230	74.2		

Soil Description

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₈₅= 0.145 D₆₀= 0.0498 D₅₀= 0.0253
 D₃₀= 0.0073 D₁₅= 0.0027 D₁₀=
 C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

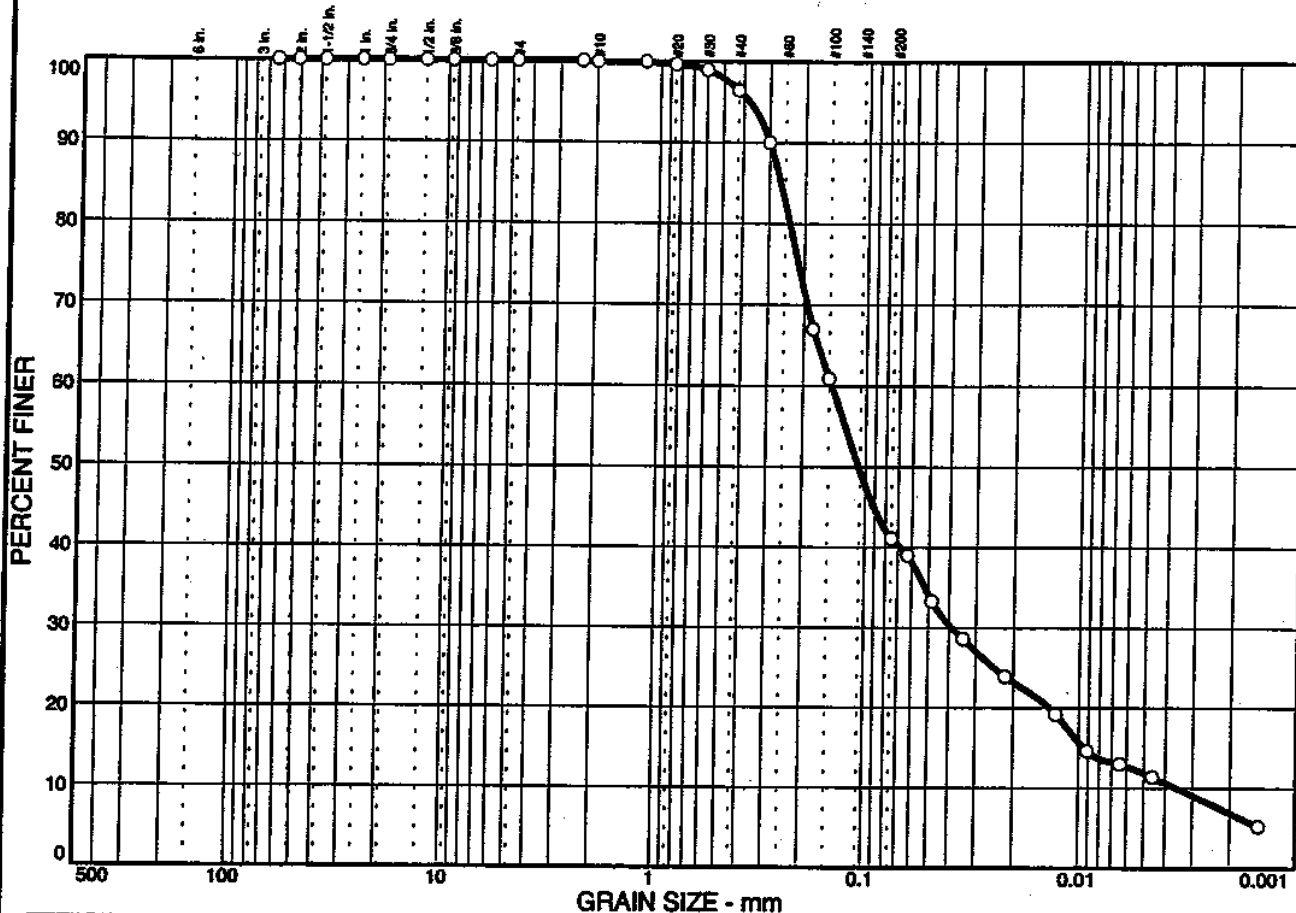
* (no specification provided)

Sample No.: 004 Source of Sample: 912479 Date: 8/15/01
 Location: 01-8M, 5.8-8.0' Elev./Depth:

RMT, Inc.	Client: Project: EN CHEM Project No: 4241.01
	Figure:

✓ HJW Jdy

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	58.9	29.2	11.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	100.0		
#10	99.9		
#16	99.9		
#20	99.6		
#30	98.9		
#40	96.4		
#50	90.0		
#80	67.0		
#100	60.9		
#200	41.1		
#230	39.0		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.264 D₆₀= 0.146 D₅₀= 0.108
D₃₀= 0.0389 D₁₅= 0.0095 D₁₀= 0.0035
C_u= 41.23 C_c= 2.94

Classification

USCS= AASHTO=

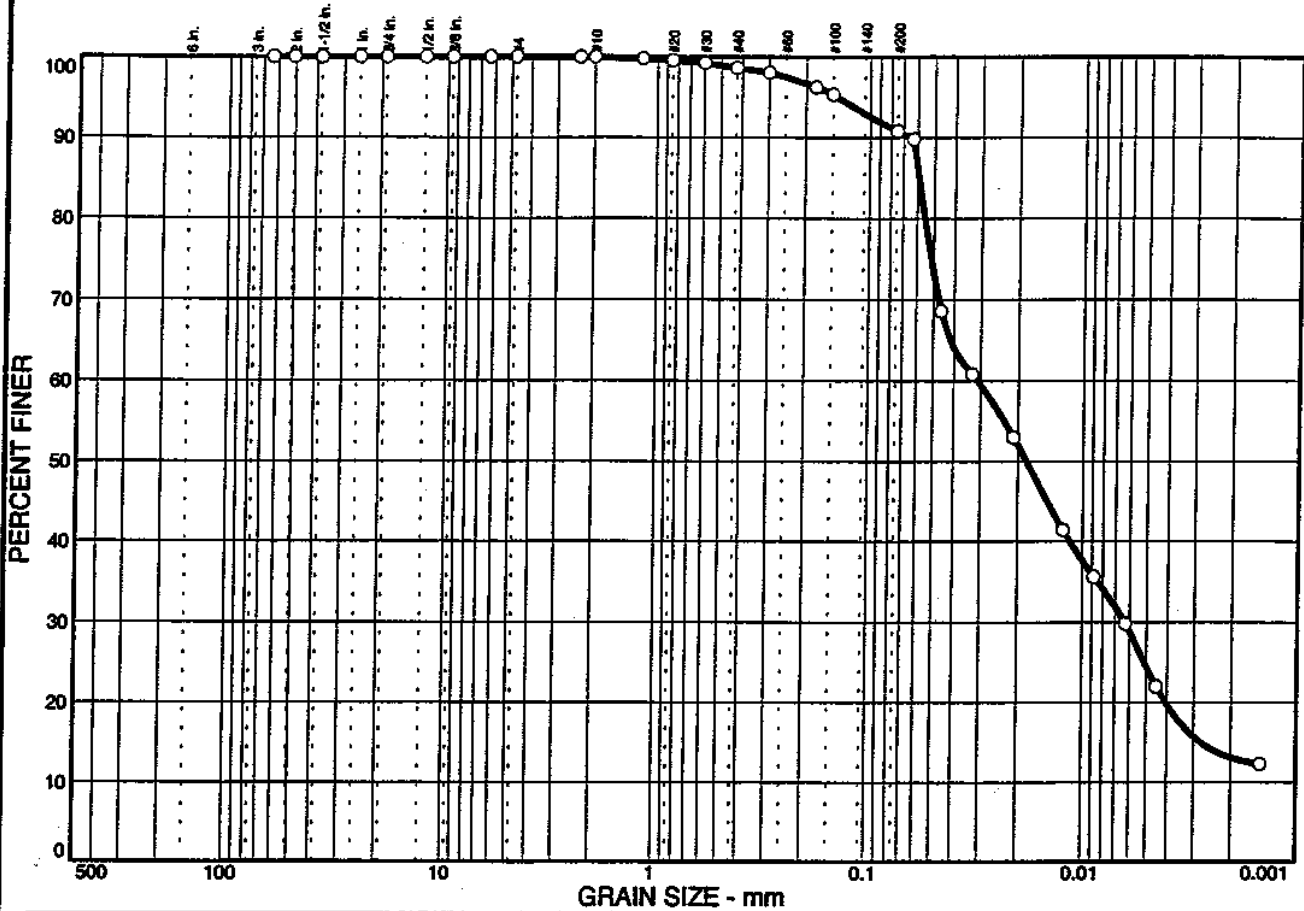
Remarks

Sample No.: 005 Source of Sample: 912479 Date: 8/15/01
Location: 01-8M,8.0-9.4' Elev./Depth:

RMT, Inc.	Client: Project: EN CHEM Project No: 4241.01
	Figure:

JRS /mt

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	9.2	66.4	24.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	99.9		
#10	99.9		
#16	99.7		
#20	99.5		
#30	99.2		
#40	98.6		
#50	98.0		
#80	96.2		
#100	95.3		
#200	90.8		
#230	89.8		

* (no specification provided)

Soil Description

PL= **Atterberg Limits** PI=

Coefficients

D₈₅= 0.0592 D₆₀= 0.0311 D₅₀= 0.0183

D₃₀= 0.0064 D₁₅= 0.0028 D₁₀=

C_u= C_c=

USCS= **Classification** AASHTO=

Remarks

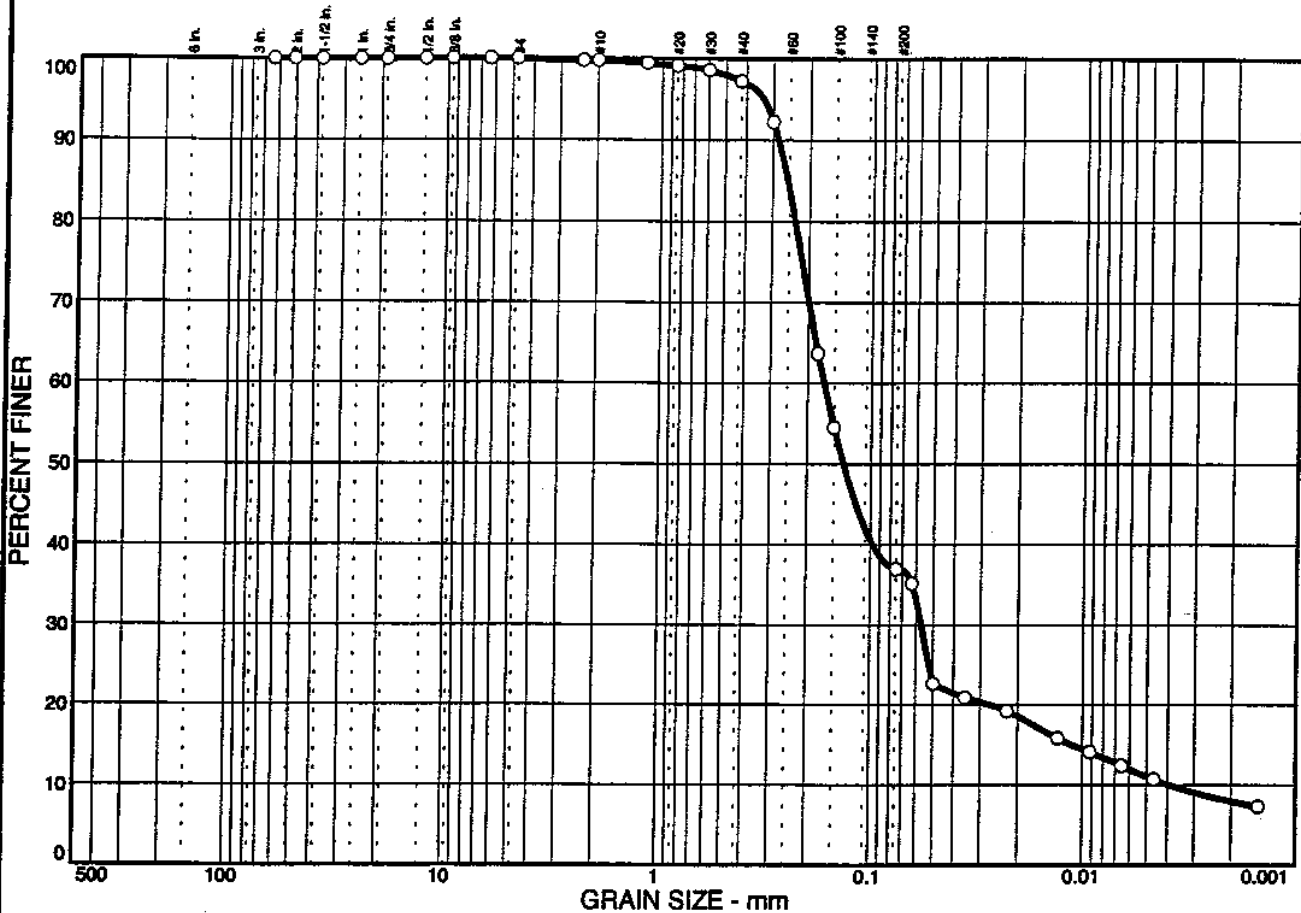
Sample No.: 006 Source of Sample: 912479 Date: 8/15/01

Location: 01-9M,5.8-7.7' Elev/Depth:

RMT, Inc.	Client: Project: EN CHEM Project No: 4241.01
Figure:	

JRS JMT

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	63.0	26.0	11.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	99.7		
#10	99.7		
#16	99.4		
#20	99.1		
#30	98.6		
#40	97.2		
#50	92.2		
#80	63.7		
#100	54.5		
#200	37.0		
#230	35.2		

Soil Description

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₈₅= 0.256 D₆₀= 0.168 D₅₀= 0.135
 D₃₀= 0.0568 D₁₅= 0.0112 D₁₀= 0.0039
 C_u= 42.80 C_c= 4.89

Classification
 USCS= AASHTO=

Remarks

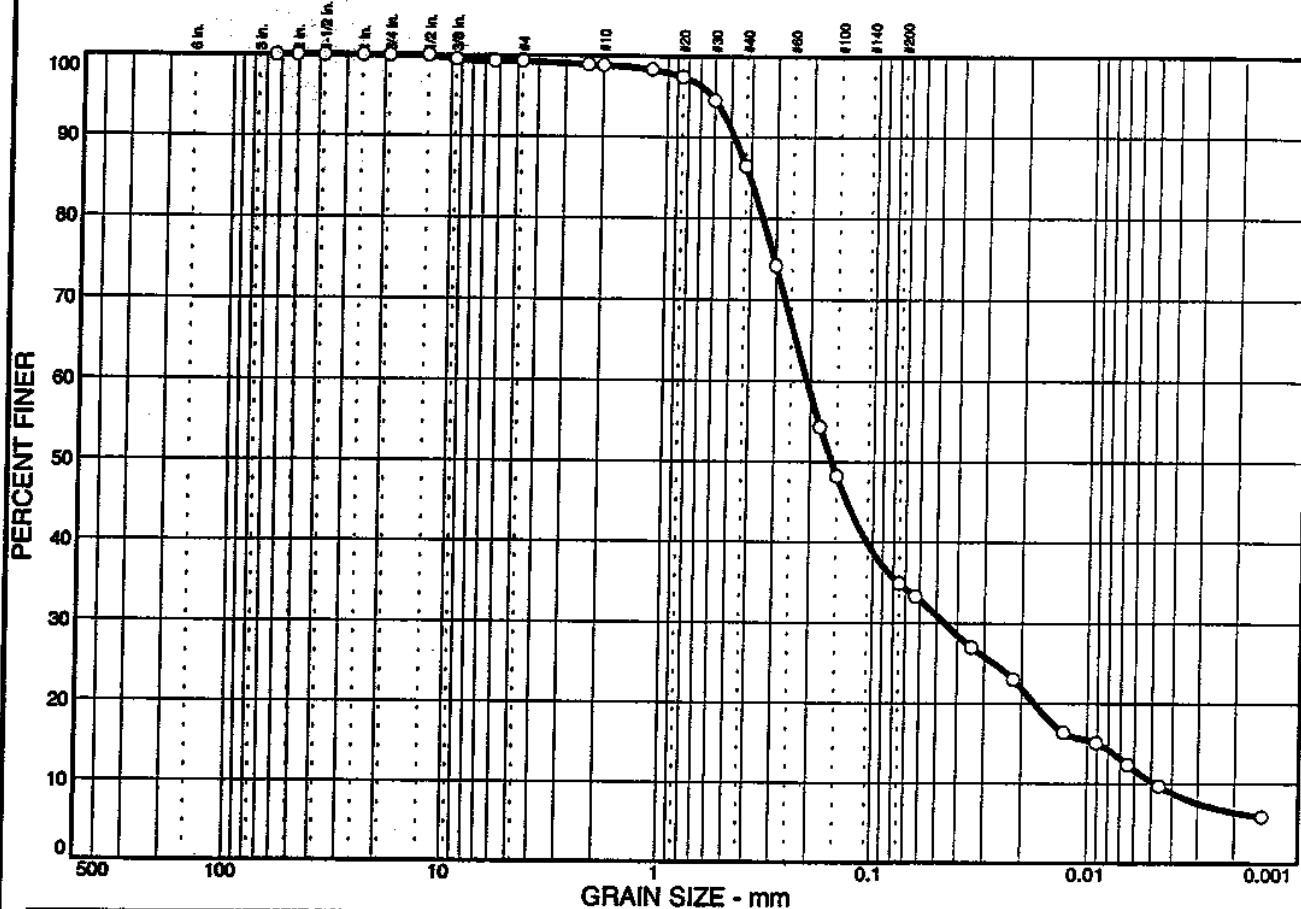
(no specification provided)

Sample No.: 007 Source of Sample: 912479 Date: 8/15/01
 Location: 01-9M,8.0-9.2' Elev./Depth:

RMT, Inc.	Client:	
	Project: EN CHEM	
	Project No: 4241.01	Figure:

GRAIN SIZE DISTRIBUTION TEST REPORT

✓ HSW JW



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.7	64.4	24.6	10.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X-NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	99.5		
.25 in.	99.3		
#4	99.3		
#8	98.9		
#10	98.8		
#16	98.3		
#20	97.4		
#30	94.5		
#40	86.4		
#50	74.2		
#80	54.3		
#100	48.2		
#200	34.9		
#230	33.3		

Soil Description

PL= **Atterberg Limits** PI=

LL= PI=

Coefficients

D₈₅= 0.406 D₆₀= 0.209 D₅₀= 0.159

D₃₀= 0.0460 D₁₅= 0.0089 D₁₀= 0.0048

C_u= 43.54 C_c= 2.10

USCS= **Classification** AASHTO=

Remarks

(no specification provided)

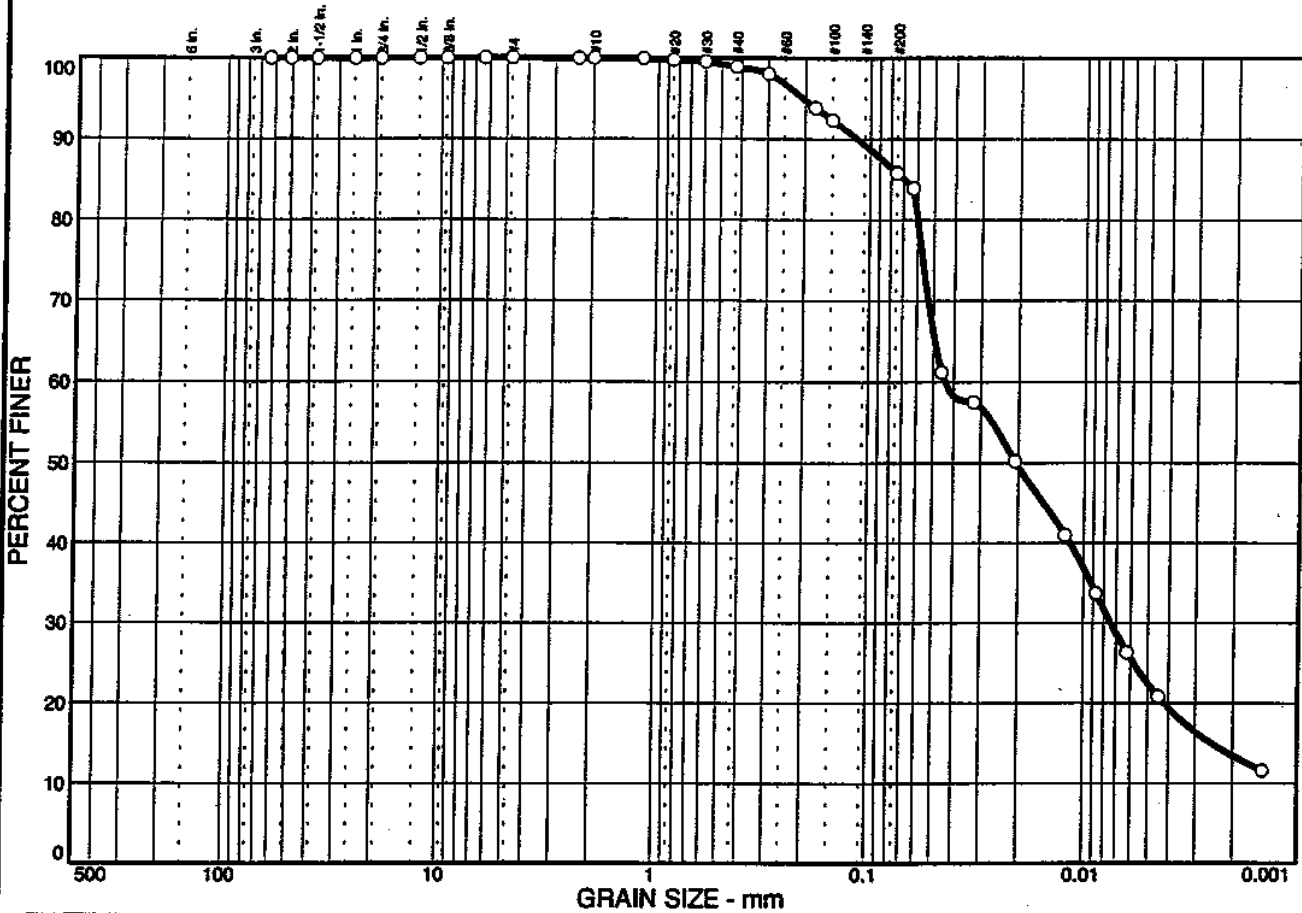
Sample No.: 008 Source of Sample: 912479 Date: 8/15/01

Location: 01-10M,4.7-6.5' Elev./Depth:

RMT, Inc.	<p>Client: Project: EN CHEM</p> <p>Project No: 4241.01 Figure:</p>
------------------	--

VRS Jmt

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	14.2	63.3	22.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	99.9		
#10	99.9		
#16	99.9		
#20	99.7		
#30	99.5		
#40	98.9		
#50	98.0		
#80	93.8		
#100	92.3		
#200	85.8		
#230	83.9		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.0696 D₆₀= 0.0440 D₅₀= 0.0206

D₃₀= 0.0074 D₁₅= 0.0025 D₁₀=

C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sample No.: 009
 Location: 01-12M,7.0-8.0'

Source of Sample: 912479

Date: 8/15/01
 Elev./Depth:

RMT, Inc.

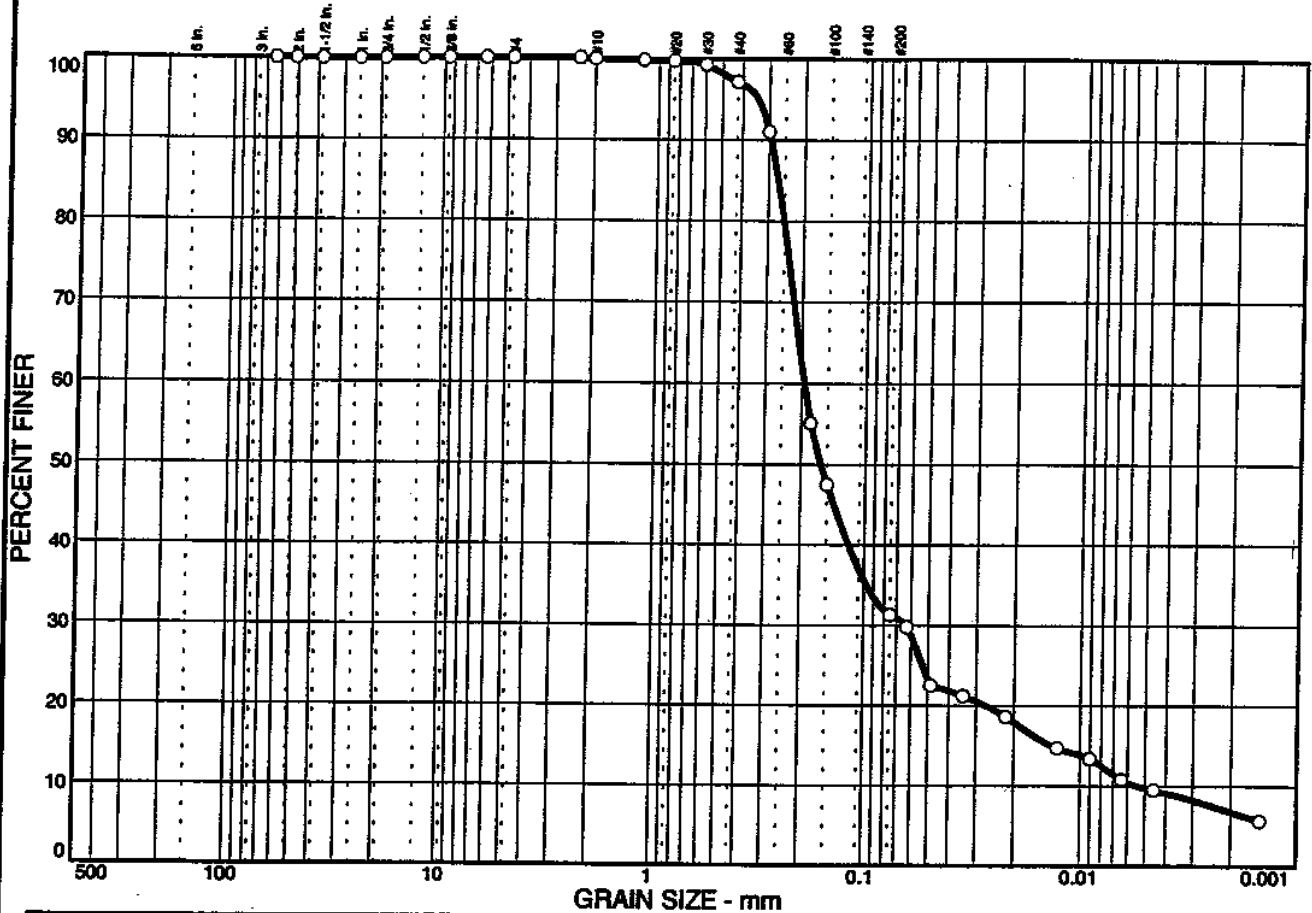
Client:
 Project: EN CHEM

Project No: 4241.01

Figure:

VJRS / JH

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	68.7	21.6	9.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.5 in.	100.0		
2.0 in.	100.0		
1.5 in.	100.0		
1.0 in.	100.0		
.75 in.	100.0		
.5 in.	100.0		
.375 in.	100.0		
.25 in.	100.0		
#4	100.0		
#8	100.0		
#10	99.9		
#16	99.8		
#20	99.7		
#30	99.2		
#40	97.1		
#50	91.0		
#80	55.1		
#100	47.5		
#200	31.3		
#230	29.8		

Soil Description

PL= **Atterberg Limits** LL= PI=

Coefficients

D₈₅= 0.270 D₆₀= 0.195 D₅₀= 0.161

D₃₀= 0.0637 D₁₅= 0.0135 D₁₀= 0.0054

C_u= 35.85 C_c= 3.84

USCS= **Classification** AASHTO=

Remarks

(no specification provided)

Sample No.: 010 Source of Sample: 912479 Date: 8/15/01

Location: 01-12M, 8.0-9.0' Elev./Depth:

RMT, Inc.	Client: Project: EN CHEM Project No: 4241.01
	Figure:

QC DATA

General Chemistry Analysis

Form 3B - Preparation Blank Summary

SDG No.: 912479

Contract: LAKE COMO

Sample ID Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
MBS0802 TOC	mg/kg	155	+/-91.0	B	91.0	500	08/03/2001
MBW0807A TKN	mg/L	<0.097	+/-0.097	U	0.097	0.50	08/07/2001

Form 5A - Matrix Spike Summary

SDG No.: 912479 Contract: LAKE COMO
Sample ID: 912479-003 Spiked ID: 912479-003S
Client ID: 01-3M 12.0-13.5S Percent Solids for Spike Sample: 100.0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	Dilution Factor	% Rec	Qual	Date Analyzed
TOC	mg/kg	35-155	34500		17600		16000	2	105.6		08/03/2001

Form 5A - Matrix Spike Summary

SDG No.: 912479 Contract: LAKE COMO
Sample ID: 912479-003 Spiked ID: 912479-003SD
Client ID: 01-3M 12.0-13.5SD Percent Solids for Spike Sample: 100.0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	Dilution Factor	% Rec	Qual	Date Analyzed
TOC	mg/kg	35-155	34700		17600		16000	2	106.9		08/03/2001

Form 6 - Duplicate Sample Summary

SDG No.: 912479

Contract: LAKE COMO

Sample ID: 912479-003S

Duplicate ID: 912479-003SD

Client ID: 01-3M 12.0-13.5SD

Percent Solids for Duplicate Sample: 100.0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/ AD	Qual	Date Analyzed
TOC	mg/kg	+/-16	34500		34700		2	0.6		08/03/2001

Form 6 - Duplicate Sample Summary

SDG No.: 912479

Contract: LAKE COMO

Sample ID: LCSW0807A

Duplicate ID: LCSWD0807A

Client ID: LCSWD0807A

Percent Solids for Duplicate Sample: 0.0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/ AD	Qual	Date Analyzed
TKN	mg/L	+/-19	17.3		15.6		5	10.3		08/07/2001

Form 7 - Laboratory Control Sample Summary

SDG No.: 912479

Contract: LAKE COMO

Sample ID Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Date Analyzed
LCSS0802 TOC	mg/kg	950	957		100.7	1	86-130	08/03/2001

Form 7 - Laboratory Control Sample Summary

SDG No.: 912479

Contract: LAKE COMO

Sample ID Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Date Analyzed
LCSW0807A TKN	mg/L	17.2	17.3		100.6	5	75-129	08/07/2001

Form 7 - Laboratory Control Sample Summary

SDG No.: 912479

Contract: LAKE COMO

Sample ID Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Date Analyzed
LCSWD0807A TKN	mg/L	17.2	15.6		90.7	5	75-129	08/07/2001

(Please Print Legibly)
 Company Name: US Army Corps of Eng
 Branch or Location: St. Paul, NJ
 Project Contact: Luke Connors
 Telephone: 651-290-5625
 Project Number: 651-290-5625
 Project Name: Lake Carmo
 Project State: Wisconsin
 Sampled By (Print): Terry Borgerso

1241 Bellevue St., Suite 9
 Green Bay, WI 54302
 920-468-2436
 FAX 920-468-8827

528 Science Drive
 Madison, WI 53711
 608-252-3300
 FAX: 608-252-0602



CHAIN OF CUSTODY 69215

Matrix Codes: W-Water, S-Soil, A-Air, C-Carcass, B-Biosols, SI-Sludge

Regulatory Program: UST, RCRA, SOWA, NPDES, CERCLA

EnChem Level III (Subject to Surcharge)
 EnChem Level IV (Subject to Surcharge)

Preservation Codes: A-Acetic, H-HCl, C-H2SO4, D-HNO3, E-EnCore, F-Methanol, G-NaOH, L-Other

Filtered? (YES/NO) _____

Preservation (Code): _____

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		Regulatory Program	Matrix Codes
		DATE	TIME		
212471-001	01-3M 8.6-10.6	7/30	1500	UST	S
-002	01-3M 10.0-12.0	7/30	1515	RCRA	S
-003	01-3M 12.0-13.5	7/31	1530	SOWA	S
-004	01-9M 5.8-8.0	7/31	0800	NPDES	S
-005	01-9M 8.0-9.4	7/31	0815	CERCLA	S
-006	01-9M 5.8-7.7	7/31	900		S
-007	01-9M 8.0-9.2	7/31	915		S
-008	01-10M 4.7-6.5	7/31	1000		S
-009	01-12M 7.0-8.0	7/31	1200		S
-010	01-12M 8.0-9.0	7/31	1215		S

LABORATORY ID (Lab Use Only)	FIELD ID	DATE	TIME	Regulatory Program	Matrix Codes	ANALYSES REQUESTED	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
							Freeze in primary sample for analysis etc later date	
							Jim Sontz	
							651-290-5625	
							See INSTANT	
							Frank Sontz	

Rush Turnaround Time Requested (TAT) - Prelim (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (circle):
 Phone _____ Fax _____ E-Mail _____

Phone #: _____
 Fax #: _____
 E-Mail Address: _____

Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

En Chem Project No. _____
 Sample Receipt Temp. _____
 Sample Receipt pH _____
 Cooler Custody Seal Present / Not Present _____

Page _____ of _____
 R.O. # _____ Quote # _____
 Mail Report To: _____
 Company: _____
 Address: _____
 Invoice To: _____
 Company: _____
 Address: _____
 Mail Invoice To: _____

TOTAL # OF BOTTLES SENT _____

ANALYSES REQUESTED: TOC, TKN, G.M.S.T.C. + Hydrocarbons, Volatiles, Per-Treat, H.P., 10/11/01

Enviroment
 10/11/01
 8/1/01 1015
 8/1/01 1015
 4224

Samples on HOLD are subject to special pricing and release of liability