

provided via email from Keith Wood ~ 3/15/06

## ANALYTICAL REPORT

Job Number: 720-2357-1

Job Description: Former H & S

For:

K & S Heavy Equipment  
495 N Greenville Rd.  
Livermore, CA 94550

Attention: Keith Wood

*Melissa Brewer*

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Melissa Brewer  
Project Manager I  
mbrewer@stl-inc.com  
03/09/2006

3/14/06  
review + message for  
M. Brewer re  
TEAM  
23,000 mg/kg

## METHOD SUMMARY

Client: K & S Heavy Equipment

Job Number: 720-2357-1

Description	Lab Location	Method	Preparation Method
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Matrix: Solid

Inductively Coupled Plasma - Atomic Emission Spectrometry	STL-SF	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	STL-SF		SW846 3050B
n-Hexane Extractable Material (HEM) for Sludge, Sediment, and Solid Samples	STL-SF	SW846 9071B	
n-Hexane Extractable Material (HEM) for Sludge, <i>total oil + grease</i>	STL-SF		SW846 9071B

### LAB REFERENCES:

STL-SF = STL-San Francisco

### METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986  
And Its Updates.

## SAMPLE SUMMARY

Client: K & S Heavy Equipment

Job Number: 720-2357-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Client Matrix</u>	<u>Date/Time Sampled</u>	<u>Date/Time Received</u>
720-2357-1	22306-PMS-1and 2	Solid	03/01/2006 1630	03/01/2006 1500

**Analytical Data**

Client: K & S Heavy Equipment

Job Number: 720-2357-1

Client Sample ID: 22306-PMS-1and 2

Lab Sample ID: 720-2357-1  
 Client Matrix: Solid

Date Sampled: 03/01/2006 1630  
 Date Received: 03/01/2006 1500

**6010B Inductively Coupled Plasma - Atomic Emission Spectrometry**

Method: 6010B  
 Preparation: 3050B  
 Dilution: 1.0  
 Date Analyzed: 03/06/2006 1942  
 Date Prepared: 03/06/2006 0836

Analysis Batch: 720-6294  
 Prep Batch: 720-6201

Instrument ID: Varian ICP  
 Lab File ID: N/A  
 Initial Weight/Volume: 1.03 g  
 Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Cadmium		1.3	Stic / tlc 1.0 / 100	0.49
Chromium		26	5.0 / 2500	0.97
Nickel		36	2.0 / 2000	0.97
Lead		16	5 / 1000	0.97
Zinc		140	250 / 5000	0.97

**Analytical Data**

Client: K & S Heavy Equipment

Job Number: 720-2357-1

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**General Chemistry**

Client Sample ID: 22306-PMS-1and 2

Lab Sample ID: 720-2357-1  
Client Matrix: Solid

Date Sampled: 03/01/2006 1630  
Date Received: 03/01/2006 1500

Analyte	Result	Qual	Units	RL	Dil	Method
HEM	23000		mg/Kg	100	1.0	9071B
<i>Total oil = grease</i>		Anly Batch: 720-6291	Date Analyzed: 03/08/2006 1443			DryWt Corrected: N
		Prep Batch: 720-6290	Date Prepared: 03/08/2006 1440			
		<i>Method = veg</i>				

## DATA REPORTING QUALIFIERS

Client: K & S Heavy Equipment

Job Number: 720-2357-1

Lab Section	Qualifier	Description
General Chemistry	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

## Quality Control Results

Client: K & S Heavy Equipment

Job Number: 720-2357-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
<b>Metals</b>				
<b>Prep Batch: 720-6201</b>				
LCS 720-6201/2-A	Lab Control Spike	Solid	3050B	
LCSD 720-6201/3-A	Lab Control Spike Duplicate	Solid	3050B	
MB 720-6201/1-A	Method Blank	Solid	3050B	
720-2357-1	22306-PMS-1and 2	Solid	3050B	
<b>Analysis Batch:720-6294</b>				
LCS 720-6201/2-A	Lab Control Spike	Solid	6010B	720-6201
LCSD 720-6201/3-A	Lab Control Spike Duplicate	Solid	6010B	720-6201
MB 720-6201/1-A	Method Blank	Solid	6010B	720-6201
720-2357-1	22306-PMS-1and 2	Solid	6010B	720-6201
<b>General Chemistry</b>				
<b>Prep Batch: 720-6290</b>				
LCS 720-6290/2-A	Lab Control Spike	Solid	9071B	
LCSD 720-6290/3-A	Lab Control Spike Duplicate	Solid	9071B	
MB 720-6290/1-A	Method Blank	Solid	9071B	
720-2357-1	22306-PMS-1and 2	Solid	9071B	
720-2357-1MS	Matrix Spike	Solid	9071B	
720-2357-1MSD	Matrix Spike Duplicate	Solid	9071B	
<b>Analysis Batch:720-6291</b>				
LCS 720-6290/2-A	Lab Control Spike	Solid	9071B	720-6290
LCSD 720-6290/3-A	Lab Control Spike Duplicate	Solid	9071B	720-6290
MB 720-6290/1-A	Method Blank	Solid	9071B	720-6290
720-2357-1	22306-PMS-1and 2	Solid	9071B	720-6290
720-2357-1MS	Matrix Spike	Solid	9071B	720-6290
720-2357-1MSD	Matrix Spike Duplicate	Solid	9071B	720-6290

**Quality Control Results**

**Surrogate Recovery Report**

Lab Sample ID \_\_\_\_\_ Client Sample

## Quality Control Results

Client: K & S Heavy Equipment

Job Number: 720-2357-1

**Method Blank - Batch: 720-6201**

**Method: 6010B**  
**Preparation: 3050B**

Lab Sample ID: MB 720-6201/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 03/06/2006 1927  
Date Prepared: 03/06/2006 0836

Analysis Batch: 720-6294  
Prep Batch: 720-6201  
Units: mg/Kg

Instrument ID: Varian ICP  
Lab File ID: N/A  
Initial Weight/Volume: 1.00 g  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Cadmium	ND		0.50
Chromium	ND		1.0
Nickel	ND		1.0
Lead	ND		1.0
Zinc	ND		1.0

**Laboratory Control Sample - Batch: 720-6201**

**Method: 6010B**  
**Preparation: 3050B**

Lab Sample ID: LCS 720-6201/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 03/07/2006 1359  
Date Prepared: 03/06/2006 0836

Analysis Batch: 720-6294  
Prep Batch: 720-6201  
Units: mg/Kg

Instrument ID: Varian ICP  
Lab File ID: N/A  
Initial Weight/Volume: 1.00 g  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec	Limit	Qual
Cadmium	100	93	93	80 - 120	
Chromium	100	93	93	80 - 120	
Nickel	100	93	93	80 - 120	
Lead	100	92	92	80 - 120	
Zinc	100	93	93	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LOGIN SAMPLE RECEIPT CHECK LIST

Client: K & S Heavy Equipment

Job Number: 720-2357-1

Login Number: 2357

<u>Question</u>	<u>T/F/NA</u>	<u>Comment</u>
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

## Quality Control Results

Client: K & S Heavy Equipment

Job Number: 720-2357-1

**Method Blank - Batch: 720-6290**

**Method: 9071B**  
**Preparation: 9071B**

Lab Sample ID: MB 720-6290/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 03/08/2006 1443  
Date Prepared: 03/08/2006 1440

Analysis Batch: 720-6291  
Prep Batch: 720-6290  
Units: mg/Kg

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10.02 g  
Final Weight/Volume: 10.02 mL

Analyte	Result	Qual	RL
HEM	ND		100

**Laboratory Control/  
Laboratory Control Duplicate Recovery Report - Batch: 720-6290**

**Method: 9071B**  
**Preparation: 9071B**

LCS Lab Sample ID: LCS 720-6290/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 03/08/2006 1443  
Date Prepared: 03/08/2006 1440

Analysis Batch: 720-6291  
Prep Batch: 720-6290  
Units: mg/Kg

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10.04 g  
Final Weight/Volume: 10.04 mL

LCSD Lab Sample ID: LCSD 720-6290/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 03/08/2006 1443  
Date Prepared: 03/08/2006 1440

Analysis Batch: 720-6291  
Prep Batch: 720-6290  
Units: mg/Kg

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10.04 g  
Final Weight/Volume: 10.04 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
HEM	97	100	79 - 120	3	18		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: K & S Heavy Equipment

Job Number: 720-2357-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-6290**

**Method: 9071B  
Preparation: 9071B**

MS Lab Sample ID: 720-2357-1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 03/08/2006 1443  
Date Prepared: 03/08/2006 1440

Analysis Batch: 720-6291  
Prep Batch: 720-6290

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10.02 g  
Final Weight/Volume: 10.04 mL

MSD Lab Sample ID: 720-2357-1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 03/08/2006 1443  
Date Prepared: 03/08/2006 1440

Analysis Batch: 720-6291  
Prep Batch: 720-6290

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10.04 g  
Final Weight/Volume: 10.03 mL

Analyte	% Rec		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
HEM	318	-146	79 - 120	16	20	4	4

Calculations are performed before rounding to avoid round-off errors in calculated results.

**720-2357**

Reference #: 31612

Date 2/23/06 Page 1 of 1

**Report To**

Attn: Keith Wood  
Company: Remold Ks Keith @ Sherwin-Williams  
Address: 495 N. Greenville Rd  
Phone: (510) 715-8466 Email:  
Bid To: Some Sampled By: Paul Smith  
Attn: Keith Phone:

**Analysis Request**

Sample ID	Date	Time	Int flx	Pres BZ	TPH EPA - <input type="checkbox"/> 8015M <input type="checkbox"/> 815M <input type="checkbox"/> 825M <input type="checkbox"/> 835M	THP EPA - <input type="checkbox"/> 8015M <input type="checkbox"/> 815M <input type="checkbox"/> 825M <input type="checkbox"/> 835M	TPH EPA 8015M <input type="checkbox"/> Silica Gel <input type="checkbox"/> Glass <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Test EPA 825M <input type="checkbox"/> Gas <input type="checkbox"/> STEK <input type="checkbox"/> Env Swatches <input type="checkbox"/> CCA <input type="checkbox"/> EOR <input type="checkbox"/> Spill	Purgeable Hydrocarbons (HVOCs) EPA 8021 by 8280	Volatiles Organics (VOCs) EPA 8260 <input type="checkbox"/> 824	Semivolatile OCINS EPA 8270 <input type="checkbox"/> 825	Oil and Grease Petroleum (EPA 1654) EPA Total	Pesticides EPA 8081 <input type="checkbox"/> 808 PCBs EPA 8082 <input type="checkbox"/> 808	FNAS by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CMR17 Metals (EPA 8210/8211)	Metals Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Low-level Metals (ICP-MS) <u>As</u> <u>Co</u> <u>Cd</u> <u>Cu</u> <u>Pb</u> <u>Mn</u> <u>Ni</u> <u>Zn</u>	W.E.T (STLCS) <input type="checkbox"/> TOLP <input type="checkbox"/>	Mercury Chromium PK (24h hold time for Hg)	Spec Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TDS <input type="checkbox"/> 135	Analysis <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> NH <sub>4</sub> <input type="checkbox"/> PO <sub>4</sub>	
2-23-06 Pms-1	3/23/06	1:30	S																			
2-23-06 Pms-2	3/23/06	1:30	S																			
	3/1/06																					

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**Project Info.**

**Sample Receipt**

Project Name: Formwork  
Projects: see above  
PO#:   
Credit Card#:   
# of Containers: 2  
Head Space:   
Temp: 73° ← 4/1/06  
Conforms to record:

1) Relinquished by: Paul M. Smith 5:13  
Signature: Paul M. Smith Time  
Printed Name: Paul M. Smith Date  
Company: Env. Plas Fire Dept

2) Relinquished by: Sara Wood 15:00  
Signature: Sara Wood Time  
Printed Name: Sara Wood Date  
Company:

3) Relinquished by:   
Signature:  Time  
Printed Name:  Date  
Company:

Report:  Routine  Level 3  Level 4  EGD  State Tank Fund EDF  Global ID  
Special Instructions / Comments: CHECK ATTACH CK # 2485  
TOTAL P. 01

1) Received by: Sara Wood 5:13  
Signature: Sara Wood Time  
Printed Name: Sara Wood Date  
Company:

2) Received by: Paul M. Smith 15:00  
Signature: Paul M. Smith Time  
Printed Name: Paul M. Smith Date  
Company: STL

3) Received by:   
Signature:  Time  
Printed Name:  Date  
Company:

if more economical to run ICM17 than 5 metals above ok, pms.