

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	REMARKS					
1225												
SAMPLERS: (Signature)						Total Chrom. + Zinc	EPA Tag #					
William Saas												
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION							
06	11/20/90	0630		X	Middle decant line	1 2-lit HDPE	X					5-090019
07	11/20/90	0705		X	Filter Press Effluent	"	X					5-090020
Relinquished by: (Signature)		Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
William Saas		11/20/90 0835										
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)			Date / Time		Remarks			
				Mary Under			11/20/90 8:40					

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File



ROBERT E. LEE & ASSOCIATES, INC.
LABORATORY SERVICES
2825 S. WEBSTER AVE., P.O. BOX 2100
GREEN BAY, WI 54306
TEL NO.: (414) 336-6338
FAX NO.: (414) 336-9141
WISCONSIN CERTIFICATION NO: 405043870

REPORT DATE====> 11/26/90

JOB NUMBER====> 1001225

CUSTOMER=====> 001422

PEI Associates
11499 Chester Rd.
Cincinnati, OH 45246
FAX: -513-782-4663

(800) 372-3727

CONTACT=====> Paul Kefauver

PROJECT=====>

RECEIVED=====> 11/20/90

SAMPLED=====> 11/20/90

COMMENTS:

ATTEST:


REPORT DATE===> 11/26/90
JOB NUMBER====> 1001225
BATCH=====> 1

PROJECT====>
LOCATION====>

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
CHROMIUM				
1	... Middle Decant Line	... 1.43 mg/l	... 11/21/90	... EW
2	... Filter Press Eff.	... 3.42 mg/l	... 11/21/90	... EW
ZINC				
1	... Middle Decant Line	... .049 mg/l	... 11/21/90	... EW
2	... Filter Press Eff.	... <.008 mg/l	... 11/21/90	... EW

[END OF BATCH]

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	Hexavalent Chrom.				Total Chromium				REMARKS
1001221 BELT															
SAMPLERS: (Signature)															
William Sess															
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION									EPA Tag #	
05	11/19/90	1445		X	Holding Tank	1	1-Lit. HDPE	X						5-090017	
05	11/19/90	1445		X	" "	"	"	X						5-090018	
					Influent										
<div style="border: 1px solid black; border-radius: 50%; padding: 20px; width: fit-content; margin: 0 auto;"> <p>24 hour TAT</p> <hr/> <p>Fax to PET</p> </div>															
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Relinquished by: (Signature)			Date / Time		Received by: (Signature)		
William Sess			11/19/90 1515												
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)			Date / Time		Remarks					
								11/19/90 3:20 PM		OK per S.S. 11/19/90cj					

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File



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TEL NO.: (414) 336-6338
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WISCONSIN CERTIFICATION NO: 405043870

REPORT DATE===> 11/20/90

JOB NUMBER====> 1001221

CUSTOMER=====> 001422

PEI Associates
11499 Chester Rd.
Cincinnati, OH 45246
FAX: -513-782-4663

(800) 372-3727

CONTACT=====> Paul Kefauver

PROJECT=====> Holding Tank

RECEIVED=====> 11/19/90

SAMPLED=====> 11/19/90

COMMENTS:

ATTEST:

REPORT DATE===> 11/20/90
JOB NUMBER====> 1001221
BATCH=====> 1

PROJECT====> Holding Tank
LOCATION====> Holding Tank

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
CHROMIUM				
1 ...	5-090017	...	NA mg/l	...
2 ...	5-090018	...	592 mg/l	... 11/20/90 ... EW
HEXAVALENT CHROMIUM				
1 ...	5-090017	...	582 mg/l	... 11/20/90 ... EW
2 ...	5-090018	...	NA mg/l	...

[END OF BATCH]

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Target List Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Cyanide</div> </div>						REMARKS
1122													
SAMPLERS: (Signature)													
<i>William Lee</i>													
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION							EPA Tag #	
02	11/9/90	1555		X	Zinc shop decant	2 2-Lit. HDPE	X						5-090015
02	11/9/90	1555		X	Zinc shop decant	2 2-Lit. HDPE		X					5-090016
					↑ Treated								Zinc, Chrome, CN Only
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)			
<i>William Lee</i>		11/9/90 1620											
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)		Date / Time		Remarks					
				<i>Heena Belli</i>		11-9-90 4:20pm							

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File



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FAX NO.: (414) 336-9141
WISCONSIN CERTIFICATION NO: 405043870

REPORT DATE====> 12/04/90

JOB NUMBER====> 1001122

CUSTOMER=====> 001422

PEI Associates
11499 Chester Rd.
Cincinnati, OH 45246
FAX: -513-782-4663

(800) 372-3727

CONTACT=====> William Sass

PROJECT=====> Zinc shop decant

RECEIVED=====> 11/09/90

SAMPLED=====> 11/09/90

COMMENTS:

Samples received with acid and/or alkali preservatives. Could not analyze for hexavalent chromium.

ATTEST:

REPORT DATE==> 12/04/90
 JOB NUMBER==> 1001122
 BATCH=====> 1

PROJECT====> Zinc shop decant
 LOCATION====> Zinc Shop Decant

SAMPLE #	SAMPLE ID	RESULT	DATE COMP	BY
ALUMINUM				
1	... Zinc shop decant	.32 mg/l	11/27/90	BR
ARSENIC				
1	... Zinc shop decant	<.0007 mg/l	11/21/90	EW
BARIUM				
1	... Zinc shop decant	.0598 mg/l	11/15/90	AW
BERYLLIUM				
1	... Zinc shop decant	.0018 mg/l	11/15/90	AW
CADMIUM				
1	... Zinc shop decant	.0001 mg/l	11/15/90	AW
CALCIUM				
1	... Zinc shop decant	90.8 mg/l	11/20/90	EW
CHROMIUM				
1	... Zinc shop decant	.89 mg/l	11/12/90	EW
COBALT				
1	... Zinc shop decant	.004 mg/l	11/26/90	BR
COPPER				
1	... Zinc shop decant	.134 mg/l	11/21/90	EW
CYANIDE				
1	... Zinc shop decant	.102 mg/l	11/13/90	MU
HEXAVALENT CHROMIUM				
1	... Zinc shop decant	mg/l		

REPORT DATE===> 12/04/90
 JOB NUMBER====> 1001122
 BATCH=====> 1

PROJECT====> Zinc shop decant
 LOCATION===> Zinc Shop Decant

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
IRON				
1 ...	Zinc shop decant	1.25 mg/l	11/16/90	EW
LEAD				
1 ...	Zinc shop decant	<.002 mg/l	11/21/90	BR
MAGNESIUM				
1 ...	Zinc shop decant	118 mg/l	11/20/90	EW
MANGANESE				
1 ...	Zinc shop decant	.0066 mg/l	11/29/90	BR
MERCURY				
1 ...	Zinc shop decant	<.0002 mg/l	11/15/90	EW
NICKEL				
1 ...	Zinc shop decant	.053 mg/l	11/21/90	AW
POTASIUM				
1 ...	Zinc shop decant	13.1 mg/l	11/19/90	EW
SELENIUM				
1 ...	Zinc shop decant	<.003 mg/l	12/03/90	BR
SILVER				
1 ...	Zinc shop decant	.02 mg/l	11/20/90	AW
SODIUM				
1 ...	Zinc shop decant	2530 mg/l	11/19/90	EW
THALLIUM				
1 ...	Zinc shop decant	.24 mg/l	11/21/90	AW

REPORT DATE===> 12/04/90
JOB NUMBER====> 1001122
BATCH===== > 1

PROJECT====> Zinc shop decant
LOCATION====> Zinc Shop Decant

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
VANADIUM				
1	... Zinc shop decant	... 1.05 mg/l	... 11/28/90	... BR
ZINC				
1	... Zinc shop decant	... .129 mg/l	... 11/12/90	... EW

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	REMARKS						
1422		#1001098											
SAMPLERS: (Signature) William Sess													
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	Target List Metals	Total Cyanide						
01	11/8/90	0715		X	Middle Decant Line	X					5-090013		
01	11/8/90	0715		X	Middle Decant Line After Settling	X					5-090014		
											Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Th, U, Zn ES , Hex Cr		
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
William Sess			11/8/90 1515										
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)			Date / Time		Remarks			
					Mary Under			11/8/90 3:17					

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TEL NO.: (414) 336-6338
FAX NO.: (414) 336-9141
WISCONSIN CERTIFICATION NO: 405043870

REPORT DATE===> 12/04/90

JOB NUMBER====> 100109B

CUSTOMER=====> 001422

PEI Associates
11499 Chester Rd.
Cincinnati, OH 45246
FAX: -513-782-4663

(800) 372-3727

CONTACT=====> Paul Kefauver

PROJECT=====> Remediation

RECEIVED=====> 11/08/90

SAMPLED=====> 11/08/90

COMMENTS:

Samples received with acid and/or alkali preservatives. Could not analyze for hexavalent chromium

ATTEST:

REPORT DATE===> 12/04/90
 JOB NUMBER====> 1001098
 BATCH=====> 1

PROJECT====> Remediation
 LOCATION===> De Pere Wis

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
ALUMINUM				
1 ...	EPA 5-090014	... .124 mg/l	... 11/27/90	... BR
ARSENIC				
1 ...	EPA 5-090014	... .0007 mg/l	... 11/21/90	... EW
BARIUM				
1 ...	EPA 5-090014	... .0796 mg/l	... 11/15/90	... AW
BERYLLIUM				
1 ...	EPA 5-090014	... .0009 mg/l	... 11/15/90	... AW
CADMIUM				
1 ...	EPA 5-090014	... <.0001 mg/l	... 11/15/90	... AW
CALCIUM				
1 ...	EPA 5-090014	... 115 mg/l	... 11/20/90	... EW
CHROMIUM				
1 ...	EPA 5-090014	... .93 mg/l	... 11/09/90	... EW
COBALT				
1 ...	EPA 5-090014	... <.003 mg/l	... 11/26/90	... BR
COPPER				
1 ...	EPA 5-090014	... .112 mg/l	... 11/21/90	... EW
CYANIDE				
1 ...	EPA 5-090014	... <.009 mg/l	... 11/13/90	... MU
HEXAVALENT CHROMIUM				
1 ...	EPA 5-090014	... mg/l	...	...

[CONTINUED]

REPORT DATE==> 12/04/90
 JOB NUMBER====> 1001098
 BATCH=====> 1

PROJECT====> Remediation
 LOCATION====> De Pere Wis

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
IRON				
1 ...	EPA 5-090014	... 1.71 mg/l	... 11/16/90	... EW
LEAD				
1 ...	EPA 5-090014	... <.002 mg/l	... 11/21/90	... BR
MAGNESIUM				
1 ...	EPA 5-090014	... 96.5 mg/l	... 11/20/90	... EW
MANGANESE				
1 ...	EPA 5-090014	... .0016 mg/l	... 11/29/90	... BR
MERCURY				
1 ...	EPA 5-090014	... <.0002 mg/l	... 11/15/90	... EW
NICKEL				
1 ...	EPA 5-090014	... .006 mg/l	... 11/19/90	... AW
POTASIUM				
1 ...	EPA 5-090014	... 13.1 mg/l	... 11/19/90	... EW
SELENIUM				
1 ...	EPA 5-090014	... <.003 mg/l	... 12/03/90	... BR
SILVER				
1 ...	EPA 5-090014	... .036 mg/l	... 11/20/90	... AW
SODIUM				
1 ...	EPA 5-090014	... 2550 mg/l	... 11/19/90	... EW
THALLIUM				
1 ...	EPA 5-090014	... .23 mg/l	... 11/21/90	... AW

REPORT DATE==> 12/04/90
JOB NUMBER==> 1001098
BATCH==> 1

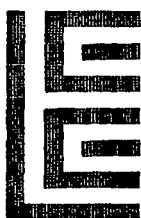
PROJECT==> Remediation
LOCATION==> De Pere Wis

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
VANADIUM				
1 ...	EPA 5-090014	... .868 mg/1	... 11/28/90	... BR
ZINC				
1 ...	EPA 5-090014	... .068 mg/1	... 11/09/90	... EW

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME					NO. OF CONTAINERS	TARGET ANALYTE LIST METALS TOTAL CHLORIDE HEXAVALENT CHROM. Total Diss. Solids				REMARKS
SAMPLERS: (Signature)												
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION						EPA TAG #	
1000991												
William Jass												
01	10/31/90	1220		X	UPPER DECANT LINE	1 TL HDPE	X		X		5-045458	
↓	↓	↓		X	" " "	1 TL HDPE	X				5-045459	
02	↓	1330		X	LOWER DECANT LINE	1 TL HDPE	X		X		5-090010	
03	↓	1340		X	LOWER DECANT II	1 TL HDPE		X	X		5-090009	
											Metals: Ag Cr Ni	
											Al Cu Pb	
											As Fe Se	
											Ba Hg Tl (Thallium)	
											Bc K V	
											Ca Mn Zn	
											Cd Mg	
											Co Na	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
William Jass		10/31/90 1510										
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)			Date / Time		Remarks			
				of Burman			10/31/90 3:20		Zn, Cr, Hex Cr, TDS 24 Hr. Metals on TAT - 7 DAYS			

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File



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GREEN BAY, WI 54306
TEL NO.: (414) 336-6338
FAX NO.: (414) 336-9141
WISCONSIN CERTIFICATION NO: 405043870

REPORT DATE====> 11/08/90

JOB NUMBER====> 1000991

CUSTOMER=====> 001422

PEI Associates
11499 Chester Rd.
Cincinnati, OH 45246
FAX: -513-782-4663

(800) 372-3727

CONTACT=====> Paul Kefauver

PROJECT=====>

RECEIVED=====> 10/31/90

SAMPLED=====> 10/31/90

COMMENTS:

- * Matrix interference in test as noted:
Cyanide reported recovery of 0%
Hexavalent chromium diluted 1/100

ATTEST: _____

REPORT DATE===> 11/08/90
 JOB NUMBER====> 1000991
 BATCH=====> 1

PROJECT====>
 LOCATION====> De Pere, Wi

SAMPLE #	SAMPLE ID	RESULT	DATE COMP	BY
ALUMINUM				
1 ...	EPA 5-045458	... .200 mg/l	... 11/05/90	... BR
2 ...	EPA 5-090010	... .071 mg/l	... 11/05/90	... BR
ARSENIC				
1 ...	EPA 5-045458	... <.0014 mg/l	... 11/06/90	... BR
2 ...	EPA 5-090010	... <.0014 mg/l	... 11/06/90	... BR
BARIIUM				
1 ...	EPA 5-045458	... .073 mg/l	... 11/07/90	... BR
2 ...	EPA 5-090010	... .059 mg/l	... 11/07/90	... BR
BERYLLIUM				
1 ...	EPA 5-045458	... <.0001 mg/l	... 11/08/90	... BR
2 ...	EPA 5-090010	... <.0001 mg/l	... 11/08/90	... BR
CADMIUM				
1 ...	EPA 5-045458	... .014 mg/l	... 11/02/90	... EW
2 ...	EPA 5-090010	... .015 mg/l	... 11/02/90	... EW
CALCIUM				
1 ...	EPA 5-045458	... 123 mg/l	... 11/06/90	... EW
2 ...	EPA 5-090010	... 118 mg/l	... 11/06/90	... EW
CHROMIUM				
1 ...	EPA 5-045458	... 38.0 mg/l	... 11/01/90	... EW
2 ...	EPA 5-090010	... 27.0 mg/l	... 11/01/90	... EW
COBALT				
1 ...	EPA 5-045458	... <.001 mg/l	... 11/07/90	... BR
2 ...	EPA 5-090010	... .009 mg/l	... 11/07/90	... BR
COPPER				
1 ...	EPA 5-045458	... .039 mg/l	... 11/07/90	... BR

[CONTINUED]

REPORT DATE===> 11/08/90
 JOB NUMBER====> 1000991
 BATCH=====> 1

PROJECT====>
 LOCATION===> De Pere, Wi

SAMPLE #	SAMPLE ID	RESULT	DATE COMP	BY
COPPER (Continued)				
2 ...	EPA 5-090010	.062 mg/1	11/07/90	BR
IRON				
1 ...	EPA 5-045458	<.01 mg/1	11/05/90	BR
2 ...	EPA 5-090010	<.01 mg/1	11/05/90	BR
LEAD				
1 ...	EPA 5-045458	<.002 mg/1	11/06/90	BR
2 ...	EPA 5-090010	<.002 mg/1	11/06/90	BR
MAGNESIUM				
1 ...	EPA 5-045458	134 mg/1	11/06/90	EW
2 ...	EPA 5-090010	138 mg/1	11/06/90	EW
MANGANESE				
1 ...	EPA 5-045458	.005 mg/1	11/07/90	BR
2 ...	EPA 5-090010	.004 mg/1	11/07/90	BR
MERCURY				
1 ...	EPA 5-045458	.0002 mg/1	11/07/90	EW
2 ...	EPA 5-090010	<.0002 mg/1	11/07/90	EW
NICKEL				
1 ...	EPA 5-045458	.033 mg/1	11/07/90	BR
2 ...	EPA 5-090010	.031 mg/1	11/07/90	BR
POTASIUM				
1 ...	EPA 5-045458	13.9 mg/1	11/06/90	EW
2 ...	EPA 5-090010	16.0 mg/1	11/06/90	EW
SELENIUM				
1 ...	EPA 5-045458	<.150 mg/1	11/01/90	BR

[CONTINUED]

REPORT DATE===> 11/08/90
 JOB NUMBER====> 1000991
 BATCH=====> 1

PROJECT====>
 LOCATION====> De Pere, Wi

SAMPLE #	SAMPLE ID	RESULT	DATE COMP	BY
SELENIUM (Continued)				
2 ...	EPA 5-090010	<.150 mg/l	... 11/01/90	... BR
SILVER				
1 ...	EPA 5-045458	.0015 mg/l	... 11/02/90	... BR
2 ...	EPA 5-090010	.0135 mg/l	... 11/02/90	... BR
SODIUM				
1 ...	EPA 5-045458	1970 mg/l	... 11/06/90	... EW
2 ...	EPA 5-090010	1960 mg/l	... 11/06/90	... EW
THALLIUM				
1 ...	EPA 5-045458	<.001 mg/l	... 11/07/90	... BR
2 ...	EPA 5-090010	<.001 mg/l	... 11/07/90	... BR
VANADIUM				
1 ...	EPA 5-045458	.445 mg/l	... 11/07/90	... BR
2 ...	EPA 5-090010	.386 mg/l	... 11/07/90	... BR
ZINC				
1 ...	EPA 5-045458	.064 mg/l	... 11/01/90	... EW
2 ...	EPA 5-090010	.060 mg/l	... 11/01/90	... EW

REPORT DATE====> 11/08/90
JOB NUMBER====> 1000991
BATCH=====> 2

PROJECT====>
LOCATION====>

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
CYANIDE				
1 ...	EPA 5-045459	... <.009 * mg/l	... 11/08/90	... MU

[END OF BATCH]

REPORT DATE====> 11/08/90
JOB NUMBER====> 1000991
BATCH=====> 3

PROJECT====>
LOCATION====>

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
HEXAVALENT CHROMIUM				
1 ...	EPA 5-090009	... <0.3* mg/l	... 11/01/90	... MU
TOTAL DISSOLVED SOLIDS				
1 ...	EPA 5-090009	... 8020 mg/l	... 11/01/90	... DB

[END OF BATCH]



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REPORT DATE====> 11/08/90

JOB NUMBER====> 1000991

CUSTOMER=====> 001422

PEI Associates
11499 Chester Rd.
Cincinnati, OH 45246
FAX: -513-782-4663

(800) 372-3727

CONTACT=====> Paul Kefauver

PROJECT=====>

RECEIVED=====> 10/31/90

SAMPLED=====> 10/31/90

COMMENTS:

- * Matrix interference in test as noted:
- Cyanide reported recovery of 0%
- Hexavalent chromium diluted 1/100

ATTEST: *Carol J. Townsend*

REPORT DATE===> 11/08/90
 JOB NUMBER====> 1000991
 BATCH=====> 1

PROJECT====>
 LOCATION===> De Pere, Wi

SAMPLE #	SAMPLE ID	RESULT	DATE COMP	BY
ALUMINUM				
1 ...	EPA 5-045458	.200 mg/1	11/05/90	BR
2 ...	EPA 5-090010	.071 mg/1	11/05/90	BR
ARSENIC				
1 ...	EPA 5-045458	<.0014 mg/1	11/06/90	BR
2 ...	EPA 5-090010	<.0014 mg/1	11/06/90	BR
BARIUM				
1 ...	EPA 5-045458	.073 mg/1	11/07/90	BR
2 ...	EPA 5-090010	.059 mg/1	11/07/90	BR
BERYLLIUM				
1 ...	EPA 5-045458	<.0001 mg/1	11/08/90	BR
2 ...	EPA 5-090010	<.0001 mg/1	11/08/90	BR
CADMIUM				
1 ...	EPA 5-045458	.014 mg/1	11/02/90	EW
2 ...	EPA 5-090010	.015 mg/1	11/02/90	EW
CALCIUM				
1 ...	EPA 5-045458	123 mg/1	11/06/90	EW
2 ...	EPA 5-090010	118 mg/1	11/06/90	EW
CHROMIUM				
1 ...	EPA 5-045458	38.0 mg/1	11/01/90	EW
2 ...	EPA 5-090010	27.0 mg/1	11/01/90	EW
COBALT				
1 ...	EPA 5-045458	<.001 mg/1	11/07/90	BR
2 ...	EPA 5-090010	.009 mg/1	11/07/90	BR
COPPER				
1 ...	EPA 5-045458	.039 mg/1	11/07/90	BR

[CONTINUED]

REPORT DATE==> 11/08/90
 JOB NUMBER==> 1000991
 BATCH==> 1

PROJECT==>
 LOCATION==> De Pere, Wi

SAMPLE #	SAMPLE ID	RESULT	DATE COMP	BY
COPPER (Continued)				
2	EPA 5-090010	.062 mg/l	11/07/90	BR
IRON				
1	EPA 5-045458	<.01 mg/l	11/05/90	BR
2	EPA 5-090010	<.01 mg/l	11/05/90	BR
LEAD				
1	EPA 5-045458	<.002 mg/l	11/06/90	BR
2	EPA 5-090010	<.002 mg/l	11/06/90	BR
MAGNESIUM				
1	EPA 5-045458	134 mg/l	11/06/90	EW
2	EPA 5-090010	138 mg/l	11/06/90	EW
MANGANESE				
1	EPA 5-045458	.005 mg/l	11/07/90	BR
2	EPA 5-090010	.004 mg/l	11/07/90	BR
MERCURY				
1	EPA 5-045458	.0002 mg/l	11/07/90	EW
2	EPA 5-090010	<.0002 mg/l	11/07/90	EW
NICKEL				
1	EPA 5-045458	.033 mg/l	11/07/90	BR
2	EPA 5-090010	.031 mg/l	11/07/90	BR
POTASIUM				
1	EPA 5-045458	13.9 mg/l	11/06/90	EW
2	EPA 5-090010	16.0 mg/l	11/06/90	EW
SELENIUM				
1	EPA 5-045458	<.150 mg/l	11/01/90	BR

[CONTINUED]

REPORT DATE====> 11/08/90
 JOB NUMBER====> 1000991
 BATCH=====> 1

PROJECT====>
 LOCATION====> De Pere, Wi

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
SELENIUM (Continued)				
2 ...	EPA 5-090010	<.150 mg/l	11/01/90	BR
SILVER				
1 ...	EPA 5-045458	.0015 mg/l	11/02/90	BR
2 ...	EPA 5-090010	.0135 mg/l	11/02/90	BR
SODIUM				
1 ...	EPA 5-045458	1970 mg/l	11/06/90	EW
2 ...	EPA 5-090010	1960 mg/l	11/06/90	EW
THALLIUM				
1 ...	EPA 5-045458	<.001 mg/l	11/07/90	BR
2 ...	EPA 5-090010	<.001 mg/l	11/07/90	BR
VANADIUM				
1 ...	EPA 5-045458	.445 mg/l	11/07/90	BR
2 ...	EPA 5-090010	.386 mg/l	11/07/90	BR
ZINC				
1 ...	EPA 5-045458	.064 mg/l	11/01/90	EW
2 ...	EPA 5-090010	.060 mg/l	11/01/90	EW

REPORT DATE===> 11/08/90
JOB NUMBER====> 1000991
BATCH===== > 2

PROJECT====>
LOCATION====>

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
CYANIDE				
1 ...	EPA 5-045459	... <.009 * mg/l	... 11/08/90	... MU

REPORT DATE===> 11/08/90
JOB NUMBER====> 1000991
BATCH=====> 3

PROJECT====>
LOCATION====>

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
HEXAVALENT CHROMIUM				
1 ...	EPA 5-090009	<0.3* mg/l	11/01/90	MU
TOTAL DISSOLVED SOLIDS				
1 ...	EPA 5-090009	8020 mg/l	11/01/90	DB

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BETTER BRITE CHROME AND ZINC SHOPS

STATE LAB ANALYSIS

1979-1990

SORTED BY DATE

L	DATE	TIME	SLIP	LOCATION	CADMIUM	HEXCHROME	TOTAL	CYANIDE	LEAD	ZINC	TRICHLORO
O				NUMBER OF SAMPLE							
C											
C	/	/	0	29137	CONTRATH	PROPERTY	86		24	80	
C	05/24/78	1440	73418	CAUSTIC	WASH					650000	UG/L
C	08/13/79	1130	15712	LANDE	ST.	1.3	UG/L	210000			
C	08/25/79	0	20792	BETTER	BRITE	PLATING	320	UG/L	330000		
C	08/28/79	3	20795	BETTER	BRITE	PLATING	30	UG/L	200		
C	08/28/79	2	20794	BETTER	BRITE	PLATING	270	UG/L	280000		
C	08/28/79	1	20793	BETTER	BRITE	PLATING	70	UG/L	70000		
C	08/28/79	0	20610	BETTER	BRITE	PLATING	<20	UG/L	26		
Z	02/13/80	915	56326	BETTER	BRITE	PLATING	50	UG/L	500	.6	MG/L
Z	02/13/80	920	56327	BETTER	BRITE	PLATING	20	UG/L	600	.1	MG/L
Z	02/13/80	930	56328	BETTER	BRITE	PLATING	<20	UG/L	<100		
C	09/19/80	1047	23201	WELL	SAM	CR	CON.	GRDWTR	1000000		
C	09/19/80	1039	23193	TAP	H2O	BLANK	<20	UG/L	<100		
C	09/19/80	1040	23194	WELL	-CR	GH20	700000	UG/L	<100		
C	09/19/80	1030	23184	WELL	-CR	GH20	<20	UG/L	700000		
C	09/19/80	1049	23203	TAP	H2O	BLANK	METAL	BOTTL	<20		
C	09/19/80	1041	23195	WELL	-CR	GH20	<20	UG/L	15000		
C	09/19/80	1033	23187	WELL	-CR	GH20	<20	UG/L	100		
C	09/19/80	1042	23196	WELL	CR	GH20	<20	UG/L	<100		
C	09/19/80	1036	23190	WELL	-CR	GH20	<20	UG/L	51000		
C	09/19/80	1043	23197	WELL	CR	GH20	14000	UG/L	<100		
C	09/19/80	1038	23192	WELL	-CR	GH20	<20	UG/L	160		
C	09/19/80	1032	23186	WELL	-CR	GH20	<20	UG/L	1100		
C	09/19/80	1035	23189	WELL	-CR	GH20	<20	UG/L	810000		
C	09/19/80	1037	23191	WELL	-CR	GH20	<20	UG/L	1000000		
C	09/19/80	1044	23198	WELL	CR	GH20	26000	UG/L	200		

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BETTER BRITE CHROME AND ZINC SHOPS

STATE LAB ANALYSIS

1979-1990

SORTED BY DATE

L	DATE	TIME	SLIP	LOCATION	CADMIUM	HEXCHROME	TOTAL	CYANIDE	LEAD	ZINC	TRICHLORO
O			NUMBER OF SAMPLE				CHROME				
C											
C	09/19/80	1045	23199	WELL CR HG20		800000 UG/L					
C	09/19/80	1046	23200	WELL CR GH20		50000 UG/L					
C	09/19/80	1048	23202	WELL SAMP CR CON. GRDWTR		95 UG/L					
C	06/23/81	1500	82298	HOLDING POND		63 UG/L					
C	04/19/83	0	62677	UNFILTERED BURIED DRUM		200000 UG/L	220000 UG/L				
C	04/19/83	0	62678	CYCLONE COLLECTOR		210000 UG/G	310000 UG/G				
Z	04/21/83	0	63322	WATER FROM LOADING DOCK				25 MG/L		4900 UG/L	
Z	04/21/83	1	63323	WATER FROM STORM SEWER						5600 UG/L	
Z	04/21/83	2	63324	WATER FROM PUDDLE IN YARD						8400 UG/L	
Z	05/31/83	0	71720	BTWN SDWALK AND CURB	38 UG/GM		170 UG/GM	380 UG/GM		2600 UG/GM	
Z	05/31/83	1130	71719	BTWN SDEWALK AND CURB	28 UG/GM		100 UG/GM	270 UG/G		1500 UG/GM	
Z	09/27/85	0	29131	FRONT OF B.DOOR	11 MG/KG		350 MG/KG	64 MG/KG	300 MG/KG	1700 MG/KG	
C	09/27/85	0	29122	LANDE ST.	<20 UG/L		<100 UG/L		<100 UG/L	<20 UG/L	
C	09/27/85	0	29132	WEST SIDE SLOPE NO VEGETA			620 MG/KG		20 MG/KG	120 MG/KG	
C	09/27/85	0	29124	LANDE ST. W-3	<20 UG/L		3800000 UG/L		<100 UG/L	350 UG/L	
C	09/27/85	12	29133	AROUND SFACE WATER PUMP			65000 MG/KG		160 MG/KG	1000 MG/KG	
Z	09/27/85	0	29126	5 FT. FROM BUILDING	1 MG/KG		55 MG/KG	26 MG/KG	18 MG/KG	410 MG/KG	
C	09/27/85	0	29134	WEST SIDE SLOPE			210 MG/KG			60 MG/KG	
Z	09/27/85	0	29128	5 FT. FROM BUILDING	3 MG/KG		69 MG/KG	6.9 MG/KG	88 MG/KG	1100 MG/KG	
C	09/27/85	0	29135	FRONT CYCLONE	4 MG/KG		8000 MG/KG		100 MG/KG	2200 MG/KG	
C	09/27/85	0	29118	LANDE ST. W-7	<20 UG/L		<100 UG/L		<100 UG/L	30 UG/L	
C	09/27/85	0	29125	LANDE ST. W-5	<20 UG/L		1600 UG/L		<100 UG/L	20 UG/L	
Z	09/27/85	0	29127	5 FT. FORM CORNER	8 MG/KG		240 MG/KG	45 MG/KG	44 MG/KG	2700 MG/KG	
C	09/27/85	0	29121	HOLE ON CONRAD PROPERTY	<20 UG/L		3200 UG/L		<100 UG/L	<20 UG/L	
C	09/27/85	0	29123	LANDE ST. W-10	<20 UG/L		<100 UG/L		<100 UG/L	<20 UG/L	
C	09/27/85	0	29136	FRONT CYCLONE			4900 MG/KG		82 MG/KG	490 MG/KG	

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BETTER BRITE CHROME AND ZINC SHOPS

STATE LAB ANALYSIS

1979-1990

SORTED BY DATE

L	DATE	TIME	SLIP LOCATION	CADMIUM	HEXCHROME	TOTAL CHROME	CYANIDE	LEAD	ZINC	TRICHLORO
O			NUMBER OF SAMPLE							
C										
Z	09/27/85	0	2930 FRONT OF B.DOOR	9 MG/KG		410 MG/KG		93 MG/KG	1300 MG/KG	
C	09/27/85	0	29138 CONTRATH PROP.			74 MG/KG			52 MG/KG	
C	09/27/85	0	29231 BB PLATING SURFACE	<20 UG/L		51000 UG/L		<100 UG/L	110 UG/L	
C	09/27/85	941	29117 DISCHARGE TO SAN. SEWER				14 MG/L			
Z	09/27/85	0	29129 GRVL EDG UN SEE	43 MG/KG		1100 MG/KG		460 MG/KG	13000 MG/KG	
C	09/27/85	0	29130 IN FRONT OF BACK DOOR	9 MG/KG		410 MG/KG		93 MG/KG	1300 MG/KG	
C	09/27/85	0	29120 W-16 AND PUP	<20 UG/L		2700000 UG/L		<100 UG/L	110 UG/L	
C	09/27/85	0	29119 W-16	<20 UG/L		2600000 UG/L		<100 UG/L	110 UG/L	
C	04/07/86	0	73085 INSIDE BUILDING	<50 UG/L		1000000 UG/L		2200 UG/L	2910 UG/L	
C	05/19/86	1500	84396 SUMP PUMP HOLE # 2			8600000 UG/L				44 UG/L
C	05/19/86	1500	84397 HOLE # 3-4 COMBINED			700000 UG/L				44 UG/L
C	06/20/86	1000	96813 DAN SMET BASEMENT			5800 UG/L	.02 MG/L	<3 UG/L	80 UG/L	
	06/27/86	0	96815 BASEMENT SUMP HOLE	<02 UG/L		5800 UG/L		<3 UG/L	80 UG/L	
C	06/27/86	1000	96814 SMET BSEMT GRAB FROM HOLE			1100 UG/L	.01 MG/L	10 UG/L	60 UG/L	
C	10/02/86	1430	31287 DEPERE GRANT ST. WELL			<3 UG/L		<3 UG/L	<20 UG/L	
C	10/03/86	1000	31288 SUMP PUMP GRAB MRS.VASSEN		H.T.	<3 UG/L		<3 UG/L	<20 UG/L	
Z	01/28/87	1300	59772 DRUM	1000 MG/KG		410 MG/KG		110 MG/KG		
C	05/20/87	0	91782 B103 26-28 FT.			30 MG/KG		<10 MG/KG	130 MG/KG	
C	05/20/87	0	91759 B101 17-19 FT.			40 MG/KG		<10 MG/KG	160 MG/KG	
C	05/20/87	0	91760 B101 21-23 FT.			40 MG/KG		<10 MG/KG	160 MG/KG	
C	05/20/87	0	91755 B101 1.5-3 FT.	<2.0 MG/KG		50 MG/KG		<10 MG/KG	53 MG/KG	
C	05/20/87	0	91761 B101 25-27 FT.			40 MG/KG		<10 MG/KG	160 MG/KG	
C	05/20/87	0	91792 B104B 27-29 FT.			20 MG/KG		<10 MG/KG	140 MG/KG	
C	05/20/87	0	91763 B101 29-31 FT.			30 MG/KG		<10 MG/KG	160 MG/KG	
C	05/20/87	0	91790 B104A 20-22 FT.			30 MG/KG		<10 MG/KG	120 MG/KG	
C	05/20/87	0	91762 B101 33-34 FT.			40 MG/KG		<10 MG/KG	87 MG/KG	

BETTER BRITE CHROME AND ZINC SHOPS
STATE LAB ANALYSIS
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SORTED BY DATE

L	DATE TIME	SLIP LOCATION	CADMIUM	HEXCHROME	TOTAL CHROME	CYANIDE	LEAD	ZINC	TRICHLORO
O		NUMBER OF SAMPLE							
C									
C	05/20/87	0 91788 B104A 12-14 FT.			30 MG/KG		<10 MG/KG	180 MG/KG	
C	05/20/87	0 91764 B101 37-38 FT.			20 MG/KG		<10 MG/KG	25 MG/KG	
C	05/20/87	0 91786 B104A 4-6 FT.			40 MG/KG		<10 MG/KG	53 MG/KG	
C	05/20/87	0 91765 B102 0-2 FT.			30 MG/KG		<10 MG/KG	23 MG/KG	
C	05/20/87	0 91784 B103 34-36 FT.			20 MG/KG		<10 MG/KG	33 MG/KG	
C	05/20/87	0 91766 B102 4-6 FT.			50 MG/KG		<10 MG/KG	210 MG/KG	
C	05/20/87	0 91781 B103 22-24 FT.			120 MG/KG		<10 MG/KG	140 MG/KG	
C	05/20/87	0 91767 B102 8-10 FT.			40 MG/KG		<10 MG/KG	160 MG/KG	
C	05/20/87	0 91779 B103 14-16 FT.			540 MG/KG		<10 MG/KG	170 MG/KG	
C	05/20/87	0 91768 B102 12-14 FT.			30 MG/KG		<10 MG/KG	120 MG/KG	
C	05/20/87	0 91757 B101 9-11 FT.			30 MG/KG		<10 MG/KG	180 MG/KG	
C	05/20/87	0 91769 B102 16-18 FT.			40 MG/KG		<10 MG/KG	290 MG/KG	
C	05/20/87	0 91793 B104B 31-33 FT.			30 MG/KG		<10 MG/KG	330 MG/KG	
C	05/20/87	0 91770 B102 20-22 FT.			40 MG/KG		<10 MG/KG	140 MG/KG	
C	05/20/87	0 91789 B104A 16-18 FT.			30 MG/KG		<10 MG/KG	240 MG/KG	
C	05/20/87	0 91771 B102 24-26 FT.			30 MG/KG		<10 MG/KG	160 MG/KG	
C	05/20/87	0 91785 B104A 0-2 FT.			50 MG/KG		<10 MG/KG	310 MG/KG	
C	05/20/87	0 91772 B102 28-30 FT.			30 MG/KG		<10 MG/KG	150 MG/KG	
C	05/20/87	0 91780 B103 18-20 FT.			50 MG/KG		<10 MG/KG	220 MG/KG	
C	05/20/87	0 91773 B102 32-34 FT.			40 MG/KG		<10 MG/KG	49 MG/KG	
C	05/20/87	3 91758 B101 13-15 FT.	<2 MG/KG		30 MG/KG		<10 MG/KG	180 MG/KG	
C	05/20/87	0 91787 B104A 8-10 FT.			40 MG/KG		<10 MG/KG	170 MG/KG	
C	05/20/87	0 91783 B103 30-32 FT.			30 MG/KG		<10 MG/KG	130 MG/KG	
C	05/20/87	0 91756 B101 5-7 FT.			40 MG/KG		<10 MG/KG	230 MG/KG	
C	05/20/87	0 91791 B104B 22-24 FT.			20 MG/KG		<10 MG/KG	170 MG/KG	
C	05/20/87	0 91774 B102 36-38 FT.			30 MG/KG		<10 MG/KG	40 MG/KG	

BETTER BRITE CHROME AND ZINC SHOPS
STATE LAB ANALYSIS
1979-1990
SORTED BY DATE

L DATE TIME	SLIP LOCATION	CADMIUM	HEXCHROME	TOTAL CHROME	CYANIDE	LEAD	ZINC	TRICHLORO
O	NUMBER OF SAMPLE							
C								
C 05/20/87	0 91775 B102 40-42 FT.			30 MG/KG		<10 MG/KG	27 MG/KG	
C 05/20/87	0 91776 B103 2-4 FT.			640 MG/KG		20 MG/KG	560 MG/KG	
C 05/20/87	0 91777 B103 6-8 FT.			1900 MG/KG		<10 MG/KG	180 MG/KG	
C 05/20/87	0 91778 B103 10-12 FT.			1200 MG/KG		<10 MG/KG	290 MG/KG	
Z 06/03/87	0 96141 B-2 #2			270 MG/KG		<10 MG/KG	55 MG/KG	
Z 06/03/87	0 96161 W-3 #9			40 MG/KG		<10 MG/KG	73 MG/KG	
Z 06/03/87	0 96160 W-3 #8			30 MG/KG		<10 MG/KG	67 MG/KG	
Z 06/03/87	0 96157 W-3 #4			90 MG/KG		<10 MG/KG	130 MG/KG	
06/03/87	0 9256 105B KNRTN PRY. 0-2 FT.	<1 MG/KG		190 MG/KG		<5 MG/KG	120 MG/KG	
Z 06/03/87	0 96158 W-3 #5			60 MG/KG		<10 MG/KG	120 MG/KG	
Z 06/03/87	0 96135 B-1 #11	<2 MG/KG		30 MG/KG		<10 MG/KG	84 MG/KG	
Z 06/03/87	0 96136 B-1 #12	<2 MG/KG		30 MG/KG		<10 MG/KG	200 MG/KG	
06/03/87	0 9262 105B KONRTH PRY 24-26 FT	<1 MG/KG		47 MG/KG		<5 MG/KG	190 MG/KG	
Z 06/03/87	0 96137 B-1 #13	<2 MG/KG		30 MG/KG		<10 MG/KG	100 MG/KG	
06/03/87	0 9257 105B KNRTN PRY. 4-6 FT.	<1 MG/KG		84 MG/KG		<5 MG/KG	150 MG/KG	
Z 06/03/87	0 96138 B-1 #14			30 MG/KG		<10 MG/KG	62 MG/KG	
06/03/87	0 9259 105B KNRTN PRY. 12-14 FT	<1 MG/KG		38 MG/KG		<5 MG/KG	120 MG/KG	
Z 06/03/87	0 96139 B-1 #15			30 MG/KG		<10 MG/KG	71 MG/KG	
Z 06/03/87	0 96166 W-3 #14			30 MG/KG		<10 MG/KG	57 MG/KG	
Z 06/03/87	15 96140 BETTER BRITE B-2 #1			190 MG/KG		38 MG/KG		
Z 06/03/87	0 93140 B-2 #1			190 MG/KG		38 MG/KG		
Z 06/03/87	0 96164 W-3 #12			40 MG/KG		<10 MG/KG	110 MG/KG	
Z 06/03/87	0 96165 W-3 #13			40 MG/KG		<10 MG/KG	150 MG/KG	
Z 06/03/87	0 96162 W-3 #10			40 MG/KG		<10 MG/KG	58 MG/KG	
Z 06/03/87	0 96163 W-3 #11			40 MG/KG		<10 MG/KG	87 MG/KG	
Z 06/03/87	0 96159 W-3 #7			40 MG/KG		<10 MG/KG	33 MG/KG	

BETTER BRITE CHROME AND ZINC SHOPS
STATE LAB ANALYSIS
1979-1990
SORTED BY DATE

L	DATE TIME	SLIP LOCATION	CADMIUM	HEXCHROME	TOTAL CHROME	CYANIDE	LEAD	ZINC	TRICHLORO
O		NUMBER OF SAMPLE							
C									
Z	06/03/87	0 96156 W-3 #3			80 MG/KG		<10 MG/KG	170 MG/KG	
Z	06/03/87	0 96125 B-1			40 MG/KG		30 MG/KG	450 MG/KG	
Z	06/03/87	0 96126 B-1 #2	<2 MG/KG		60 MG/KG		<10 MG/KG	690 MG/KG	
Z	06/03/87	0 96127 B-1 #3	<2 MG/KG		180 MG/KG		<10 MG/KG	170 MG/KG	
Z	06/03/87	0 96128 B-1 #4	<2 MG/KG		100 MG/KG		<10 MG/KG	120 MG/KG	
Z	06/03/87	0 96129 B-1 #5	<2 MG/KG		100 MG/KG		<10 MG/KG	120 MG/KG	
Z	06/03/87	0 96142 B-2 #3			60 MG/KG		<10 MG/KG	130 MG/KG	
Z	06/03/87	0 96131 B-1 #7	<2 MG/KG		1100 MG/KG		<10 MG/KG	110 MG/KG	
Z	06/03/87	0 96143 B-2 #4			80 MG/KG		<10 MG/KG	120 MG/KG	
Z	06/03/87	0 96133 B-1 #9	<2 MG/KG		30 MG/KG		10 MG/KG	110 MG/KG	
Z	06/03/87	0 96144 B-2 #5			80 MG/KG		<10 MG/KG	140 MG/KG	
	06/03/87	0 9258 105B KNRTN PRY. 8-10 FT.	<1 MG/KG		92 MG/KG		<5 MG/KG	160 MG/KG	
Z	06/03/87	0 96145 B-2 #6			580 MG/KG		<10 MG/KG	240 MG/KG	
	06/03/87	0 9260 105B KNRTN PRY. 16-18 FT	<1 MG/KG		34 MG/KG		<5 MG/KG	120 MG/KG	
Z	06/03/87	0 96146 B-2 #7			1200 MG/KG		<10 MG/KG	91 MG/KG	
Z	06/03/87	0 96155 W-3 #2			60 MG/KG		<10 MG/KG	210 MG/KG	
Z	06/03/87	0 96147 B-2 #8			40 MG/KG		<10 MG/KG	94 MG/KG	
Z	06/03/87	0 96130 B-1 #6	<2 MG/KG		240 MG/KG		<10 MG/KG	220 MG/KG	
Z	06/03/87	0 96148 B-2 #9			30 MG/KG		<10 MG/KG	77 MG/KG	
Z	06/03/87	0 96134 B-1 #10	<2 MG/KG		30 MG/KG		<10 MG/KG	74 MG/KG	
Z	06/03/87	0 96167 W-3 #15			40 MG/KG		<10 MG/KG	62 MG/KG	
Z	06/03/87	0 96154 W-2 #15			30 MG/KG		<10 MG/KG	62 MG/KG	
Z	06/03/87	0 96132 B-1 #8	<2 MG/KG		20 MG/KG		<10 MG/KG	52 MG/KG	
	06/03/87	0 9261 105B KONRATH PRY. 20-22FT	<1 MG/KG		29 MG/KG		<5 MG/KG	67 MG/KG	
Z	06/03/87	0 96149 B-2 #10			30 MG/KG		<10 MG/KG	93 MG/KG	
Z	06/03/87	0 96150 B-2 #11			40 MG/KG		<10 MG/KG	84 MG/KG	

BETTER BRITE CHROME AND ZINC SHOPS
STATE LAB ANALYSIS
1979-1990
SORTED BY DATE

L	DATE TIME	SLIP LOCATION	CADMIUM	HEXCHROME	TOTAL CHROME	CYANIDE	LEAD	ZINC	TRICHLORO
O		NUMBER OF SAMPLE							
C									
Z	06/03/87	0 96151 B-2 #12			30 MG/KG		<10 MG/KG	120 MG/KG	
Z	06/03/87	0 96152 B-2 #13			30 MG/KG		<10 MG/KG	31 MG/KG	
Z	06/03/87	0 96153 W-2 #14			30 MG/KG		<10 MG/KG	77 MG/KG	
Z	06/12/87	1400 95697 DEPERE MW-2	.8 UG/L		2300 UG/L		<3 UG/L	<20 UG/L	
Z	06/12/87	1430 95700 DEPERE MW-3	.7 UG/L		2300 UG/L		<3 UG/L	68 UG/L	
Z	06/12/87	1415 95699 DEPERE MW-3A	2.2 UG/L		40000 UG/L	.17 MG/L	17 UG/L	<20 UG/L	
Z	06/12/87	1425 95698 DEPERE MW-2A	2.1 UG/L		310000 UG/L	.07 MG/L	<3 UG/L	31 UG/L	
Z	06/12/87	1330 95695 DEPERE MW-1	1.5 UG/L		<100 UG/L		<3 UG/L	<20 UG/L	
Z	06/12/87	1345 95696 DEPERE MW-1A	2.6 UG/L		180000 UG/L	.08 UG/L	5 UG/L	26 UG/L	
C	08/12/87	1430 15297 GROUNDWATER B-102A	.9 UG/L		<3 UG/L		<3 UG/L	<20 UG/L	
C	08/12/87	1620 15298 GROUNDWATER B-103			6600 UG/L		<3 UG/L	<20 UG/L	
C	08/12/87	1600 15299 GROUNDWATER B-104A	1.8 UG/L		15 UG/L		<3 UG/L	<20 UG/L	
C	08/12/87	1645 15300 GROUNDWATER B-105B	1.1 UG/L		62000 UG/L		<3 UG/L	<20 UG/L	
C	08/12/87	1507 15294 GROUNDWATER B-101			44 UG/L			<20 UG/L	
C	08/12/87	1534 15295 GROUNDWATER B-101A	1.4 UG/L		<3 UG/L		<3 UG/L	<20 UG/L	
C	03/09/88	1500 67010 FISCHER STORM SEWER NORTH			17000 UG/L		<100 UG/L	100 L/L	
C	03/09/88	1500 67008 HENDRICKS STORM SEWER SOU	<20 UG/L		5800 UG/L		<100 UG/L	<20 UG/L	
C	03/09/88	1500 67009 KONRATH BACK YARD			76000 UG/L		<100 UG/L	40 L/L	
C	03/09/88	1500 67011 PUDDLE ABOVE SUMP NW CORN	<20 UG/L		300 UG/L		<100 UG/L	<20 UG/L	
C	03/09/88	1500 806701 FISCHER STORM SWER N. GRA	<20 UG/L		17000 UG/L		<100 UG/L	100 UG/L	
C	03/09/88	1500 806700 KONRATH BACK YARD GRAB	<20 UG/L		76000 UG/L		<100 UG/L	40 UG/L	
C	03/30/88	1430 72070 SANITARY MAN HOLE		400000 UG/L	400000 UG/L			30 UG/L	
C	07/12/88	1430 900504 MUNICIPAL			<3 UG/L		<3 UG/L	<20 UG/L	
C	07/26/89	800 9387 SEDIMENT SUMP PIT GRAB			12 MG/KG		19 MG/KG	96 MG/KG	
Z	10/16/89	1400 35273 ZINC MW-1A				.16 MG/L			N
Z	10/16/89	1345 1207 ZINC MW-3A							400.0 UG/L N

10/11/90

BETTER BRITE CHROME AND ZINC SHOPS

STATE LAB ANALYSIS

1979-1990

SORTED BY DATE

L	DATE	TIME	SLIP LOCATION	CADMIUM	HEXCHROME	TOTAL CHROME	CYANIDE	LEAD	ZINC	TRICHLORO	
O			NUMBER OF SAMPLE								
C											
C	10/17/89	935	1232 CHROME MW-101							<1.0 UG/L	N
C	10/17/89	1010	35959 CHROME MW-103	<20 UG/L		1000 UG/L		<100 UG/L	<20 UG/L		
C	10/17/89	1000	35958 CHROME MW-102A	<20 UG/L		<100 UG/L		<100 UG/L	410 UG/L		
C	10/17/89	950	35957 CHROME MW-102	<20 UG/L		<100 UG/L		<100 UG/L	<20 UG/L		
C	10/17/89	0	35962 MW-105B DUPLICATE	<20 UG/L		28000 UG/L		<100 UG/L	<20 UG/L		
C	10/17/89	945	35956 CHROME MW-101A	<20 UG/L		<100 UG/L		<100 UG/L	<20 UG/L		N
C	10/17/89	930	35961 MW-105B	<20 UG/L		30000 UG/L		<100 UG/L	<20 UG/L		
C	10/17/89	1010	1227 MW-103							<1.0 UG/L	
C	10/17/89	950	1230 MW-102							<1.0 UG/L	
C	10/17/89	935	1232 MW-101							<1.0 UG/L	
Z	12/11/89	1030	50044 SMET INSDE AROUND SUMP PU				14 MG/KG				N
Z	12/11/89	1030	50043 SMET BSEMT W.CENT. FLOOR			1300 MG/KG	31 MG/KG				N
Z	12/11/89	1030	50042 SMET BSEMT NEAR HOT WATER			1600 MG/KG	2 MG/KG				N
C	05/01/90	1600	86903 MAES TAP OFF PRESSUR TANK			<3 UG/L		13 UG/L	39 UG/L		
Z	06/26/90	1000	104716 EAST SIDE DEEP ZINC SHOP				1.8 MG/L				N
Z	06/26/90	1000	104717 E.SIDE ZINC SHOP				.48 MG/L				N

*** Total ***

**** *****

REPORT OF TEST RESULTS

ATEC Project Number 21-08049

Date: July 16, 1990

Client: Roy F. Weston, Inc.
SPER Division
111 N. Canal Street, Suite 855
Chicago, IL 60606

Sample Identification: 90WT11


Sample Taken By: Client
Sample Matrix: High Volume Filter
Date Sampled: June 21, 1990
Date Received: July 11, 1990
Date Analyzed: July 12, 1990
Analyst: AJB, KEB
Verified By: JDD
ATEC Lab Number: 9007098

=====

Sample I.D.

<u>Parameter</u> (units in mg/Filter unless noted)	<u>Sample I.D.</u>	<u>Quantitation</u> <u>Limit</u>	<u>NIOSH</u> <u>Method No.</u>
<u>Total Chromium</u>	S-30 A7	40	7024

Respectfully submitted,
ATEC Associates, Inc.


Environmental/Analytical Testing Division

REPORT OF TEST RESULTS

ATEC Project Number 21-08049

Date: July 16, 1990

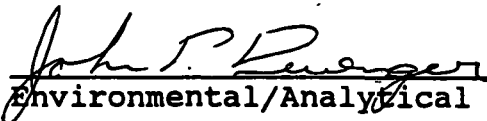
Client: Roy F. Weston, Inc.
SPER Division
111 N. Canal Street, Suite 855
Chicago, IL 60606

Sample Identification: 90WT11

Sample Taken By: Client
Sample Matrix: Air Cassette Filter
Date Sampled: June 20, 1990
Date Received: July 11, 1990
Date Analyzed: July 12, 1990
Analyst: AJB, KEB
Verified By: JDD
ATEC Lab Number: 9007098

Parameter (units in mg/Filter unless noted)	<u>Sample I.D.</u>		Quanti- tation Limit	NIOSH Method No.
	<u>6-6</u> S-31	<u>6-7</u> S-32		
Total Chromium	<5.0	<5.0	5.0	7024

Respectfully submitted,
ATEC Associates, Inc.


Environmental/Analytical Testing Division

REPORT OF TEST RESULTS

ATEC Project Number 21-08049

Date: July 16, 1990

Client: Roy F. Weston, Inc.
SPER Division
111 N. Canal Street, Suite 855
Chicago, IL 60606

Sample Identification: 90WT11

Sample Taken By: Client
Sample Matrix: High-Volume Filter
Date Sampled: June 21, 1990
Date Received: July 11, 1990
Date Analyzed: July 12, 1990
Analyst: KEB
Verified By: JDD
ATEC Lab Number: 9007098

Parameter (units in mg/Filter unless noted)	<u>Sample I.D.</u>	Quanti- tation Limit	NIOSH Method No.
Hexavalent Chromium	S-29 A-6 ≤20	20	7600

Respectfully submitted,
ATEC Associates, Inc.


Environmental/Analytical Testing Division

CHAIN OF CUSTODY RECORD AIRBILL # 9074302153

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	TOTAL CHROME					MERCURY					CHAIN OF CUSTODY													
90WT 11																	REMARKS													
SAMPLERS: (Signature)																EPA TAG #														
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION																									
S29	6-21-90	1735		X	A-6											IFILICAL					C90202									
S30	6-21-90	1735		X	A-7											IFILICAL					5090201									
S31	6-20-90	1605		X	G-6											IFILICAL					5090223									
S32	6-20-90	1106		X	G-7											IFILICAL					5090224									
																PO# 11-1201														
Relinquished by: (Signature)				Date / Time		Received by: (Signature)				Relinquished by: (Signature)				Date / Time		Received by: (Signature)														
<i>Madeline A. [Signature]</i>				7-11-90 1515																										
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)				Date / Time		Remarks																		
						<i>[Signature]</i>				7-11-90 11:40a																				

CHAIN OF CUSTODY RECORD

2 wk.
turn-around

PROJ. NO. 100 Rel # 1204		PROJECT NAME				NO. OF CONTAINERS	TCLP Chromium					REMARKS
SAMPLERS: (Signature) William Lass													EPA Tag #
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION							
01	11/7/90	1530		X	Portland Cement	1	32 oz	X				5-045461
02	11/7/90	1530		X	Barn lime	1	32 oz	X				5-045462
03	11/15/90	1530		X	Hydrated lime	1	32 oz	X				5-045465
04	11/16/90	0930		X	Kiln Dust	1	32 oz	X				5-045464
Relinquished by: (Signature) William Lass		Date / Time 11/16/90 1005		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 by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature) C. Townsend			Date / Time 11/16 10:00am		Remarks per Paul K. # 11/16/90 DO TCLP-C only. g			

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File



ROBERT E. LEE & ASSOCIATES, INC.
LABORATORY SERVICES
2825 S. WEBSTER AVE., P.O. BOX 2100
GREEN BAY, WI 54306
TEL NO.: (414) 336-6338
FAX NO.: (414) 336-9141
WISCONSIN CERTIFICATION NO: 405043870

REPORT DATE====> 11/16/90

JOB NUMBER====> 1001204

CUSTOMER=====> 001422

PEI Associates
11499 Chester Rd.
Cincinnati, OH 45246
FAX: -513-782-4663

(800) 372-3727

CONTACT=====> Paul Kefauver

PROJECT=====>

RECEIVED=====> 11/16/90

SAMPLED=====> 11/16/90

COMMENTS:

ATTEST: _____

REPORT DATE====> 11/16/90
 JOB NUMBER====> 1001204
 BATCH=====> 1

PROJECT====>
 LOCATION====>

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
CHROMIUM				
1 ...	5-045461 11/07/90	... 1.06 mg/l	... 11/28/90	... EW
2 ...	5-045462 11/07/90	... 96.7 mg/l	... 11/28/90	... EW
3 ...	5-045465 11/15/90	... 4.29 mg/l	... 11/28/90	... EW
4 ...	5-045464 11/16/90	... 5.78 mg/l	... 11/28/90	... EW
TCLP				
1 ...	5-045461 11/07/90	... Date Set-up	... 11/29/90	... CN
2 ...	5-045462 11/07/90	... Date Set-up	... 11/29/90	... CN
3 ...	5-045465 11/15/90	... Date Set-up	... 11/29/90	... CN
4 ...	5-045464 11/16/90	... Date Set-up	... 11/29/90	... CN

[END OF BATCH]

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">TCLP Chromium</div>							REMARKS
1001351														
SAMPLERS: (Signature) <i>William Lee</i>														
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION							EPA Tag #		
08	12/4/90	1400		X	15% Portland Cement	1	32	oz	X				5-090021	
09	12/4/90	1400		X	20% Portland Cement	1	32	oz	X				5-090022	
10	12/4/90	1400		X	25% Portland Cement	1	32	oz	X				5-090023	
Relinquished by: (Signature) <i>William Lee</i>		Date / Time 12-5-90 1335		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 by: (Signature)			
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature) <i>Stalder</i>			Date / Time 12/5/90 1335		Remarks					

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File



ROBERT E. LEE & ASSOCIATES, INC.
LABORATORY SERVICES
2825 S. WEBSTER AVE., P.O. BOX 2100
GREEN BAY, WI 54306
TEL NO.: (414) 336-6338
FAX NO.: (414) 336-9141
WISCONSIN CERTIFICATION NO: 405043870

REPORT DATE===> 12/11/90

JOB NUMBER====> 1001351

CUSTOMER=====> 001422

FEI Associates
11499 Chester Rd.
Cincinnati, OH 45246
FAX: -513-782-4663

(800) 372-3727

CONTACT=====> Paul Kefauver

PROJECT=====> DE PERE, WIS

RECEIVED=====> 12/05/90

SAMPLED=====> 12/05/90

COMMENTS:

ATTEST:



REPORT DATE====> 12/11/90
JOB NUMBER====> 1001351
BATCH===== > 1

PROJECT====> DE PERE, WIS
LOCATION====> DE PERE, WIS

<u>SAMPLE #</u>	<u>SAMPLE ID</u>	<u>RESULT</u>	<u>DATE COMP</u>	<u>BY</u>
CHROMIUM				
1 ...	EPA 5-090021	... 3.41 mg/1	... 12/07/90	... EW
2 ...	EPA 5-090022	... 0.37 mg/1	... 12/07/90	... EW
3 ...	EPA 5-090023	... 0.39 mg/1	... 12/07/90	... EW
TCLP				
1 ...	EPA 5-090021	... Date Set-up	... 12/05/90	... CN
2 ...	EPA 5-090022	... Date Set-up	... 12/05/90	... CN
3 ...	EPA 5-090023	... Date Set-up	... 12/05/90	... CN

[END OF BATCH]

REC. DNR
JUN 22 1990
GRN BAY DIST.

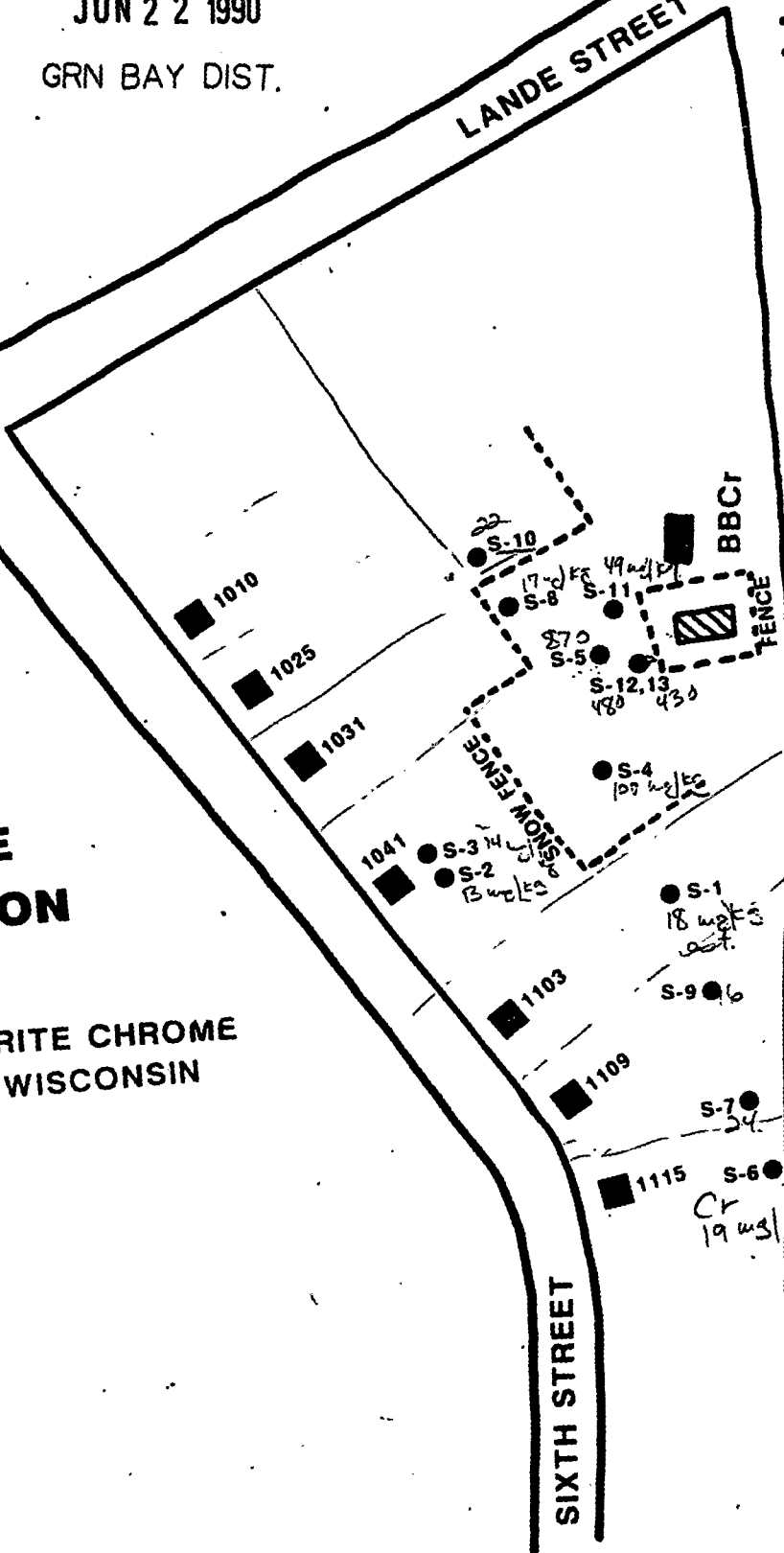
LANDE STREET



Handwritten notes:
A-5332 STA
GENERAL
C# 7,073
7-3 1,350, 170

SAMPLE LOCATION MAP

BETTER BRITE CHROME
DE PERE, WISCONSIN



Handwritten notes:
? S-14 7.9
S-15 Kawater su 3.8
S-16 K. plang water
S-17 " " "
Fischer James

WESTON

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		Total Chrome					P.G. TO BE CALLED IN (16-1076)	
90 WT08											REMARKS	
SAMPLERS: (Signature)		Blind Fauble									Soils Quote 10. Water Quote 10.	
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION		EPA TAG #					
S-1	4/2/90	1600		X	Soil	C121091	1-807					5-045468
S-2	4/2/90	1610		X	Soil	C121092	"					5-045470
S-3	4/2/90	1615		X	Soil	C121093	"					5-045469
S-4	4/2/90	1620		X	Soil	C121094	"					5-045472
S-5	4/2/90	1630		X	Soil	C121095	"					5-045471
S-2	4/2/90	1635		X	Soil	C121096	"					5-045474
S-1	4/2/90	1640		X	Soil	C121097	"					5-045473
S-3	4/2/90	1650		X	Soil	C121098	"					5-045475
S-1	4/2/90	1700		X	Soil	C121099	"					5-045476
S-2	4/2/90	1705		X	Soil	C121100	"					5-045477
S-1	4/2/90	1710		X	Soil	C121101	"					5-045478
S-2	4/2/90	1720		X	Soil	C121102	"					5-045490
S-3	4/2/90	1730		X	Soil	C121103	"					5-045479
S-4	4/2/90	1735		X	Soil	C121104	"					5-045483
S-5	4/2/90	1750		X	Sump Sed. → Konrath	C121105	"					5-045467
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)		
Blind Fauble		4/4/90 1400		Steven R. Bosko		Steven R. Bosko		4/4/90 1635		Marie Sullivan		
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)		Date / Time		Remarks				
				M Carroll		4/4/90 4:44		EMS LABS 8205 CASS AVENUE SUITE #106 DARIEN, ILLINOIS 60559 (708)969-9000 ATTN: MEL CARROL				

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

U.S. GPO 1988-544-111

CHAIN OF CUSTODY RECORD

PROJ. NO. 90WT08		PROJECT NAME			NO. OF CONTAINERS	Total Chrome	EPA TAG #	P.O. TO BE CALLED IN			
SAMPLERS: (Signature) Philip Fambelle								REMARKS			
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION						
S-16	4/2/90	1300		X	Swamp Water - Kenrath	2-1 Liter HDPE	X	C 121106	5-045485		
S-17	4/2/90	1305		X	"	"	X	C 121107	5-045484		
S-18	4/2/90	1310		X	"	"	X	C 121108	5-045486		
S-19	4/2/90	1320		X	Furnace Filter - Fischer	1-9oz GLASS	X	C 121109	5-045487 5-045487		
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Philip Fambelle		4/4/90 1400		Steven R. Books		Steven R. Books		4/4/90 1635		Marie Sullivan	
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)		Date / Time		Remarks			
				M. Carroll		4/4/90 4:44		EMS LABS 8205 CASS AVENUE SUITE #106 DARIEN, ILLINOIS 60559 (708)969-9000 ATTN: MEL CARROL			

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

CERTIFICATE OF ANALYSIS

CORRESPOND TO

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

SAMPLE

LAB SAMPLE ID: C121096
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

SEE NARRATIVE FOR
EXPLANATION OF ESTIMATED
VALUES
REC'D
4/19/90
TAT PG 5
ms

REPORT TO

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

BILL TO

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

DESCRIPTION

DATE SAMPLED : 02-APR-90 TIME : 16:35
DESCRIPTION : PROJ. # 90WT08
: S-6, EPA TAG # 5-045474

PO NUMBER : 16-1076.....

oil near tracks

ANALYSIS

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.67 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190

ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	19 MG/KG J.....	1.0

J-ESTIMATED

QUALITY ASSURANCE OFFICER:

Christine S. [Signature]

PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121091
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

----- REPORT TO -----

----- BILL TO -----

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 02-APR-90 TIME : 16:00
DESCRIPTION : PROJ. # 90WT08
: S-1, EPA TAG # 5-045468

PO NUMBER : 16-1076.....

----- ANALYSIS -----

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050
ANALYST : M. BEAVER DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.60 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190
ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	18 MG/KG J.....	1.0

J- ESTIMATED

QUALITY ASSURANCE OFFICER:

Christine Saldan

PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121092
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

----- REPORT TO -----

----- BILL TO -----

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 02-APR-90 TIME : 16:10
DESCRIPTION : PROJ. # 90WT08
: S-2, EPA TAG # 5-045470

PO NUMBER : 16-1076.....

----- ANALYSIS -----

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.90 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190

ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	13 MG/KG J.....	1.0

J-ESTIMATED

QUALITY ASSURANCE OFFICER:

Christine Sola

PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121093
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

----- REPORT TO -----

----- BILL TO -----

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 02-APR-90 TIME : 16:15
DESCRIPTION : PROJ. # 90WT08
: S-3, EPA TAG # 5-045469

PO NUMBER : 16-1076.....

----- ANALYSIS -----

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050
ANALYST : M. BEAVER DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.64 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

DET LIM

CHROMIUM FAA SW846-7190
ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	14 MG/KG J.....	1.0

DET LIM
1.0

J-ESTIMATED

QUALITY ASSURANCE OFFICER:

Christine Sullivan

PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

RECEIVED
APR 19 1990

LAB SAMPLE ID: C121094
DATE PRINTED : 17-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 16-APR-90

ATTN REQ M

----- REPORT TO -----

----- BILL TO -----

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 02-APR-90 TIME : 16:20
DESCRIPTION : PROJ. # 90WT08
: S-4, EPA TAG # 5-045472

PO NUMBER : 16-1076.....

----- ANALYSIS -----

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.69 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190

ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	100 MG/KG \bar{J}	3.0

J - ESTIMATED

QUALITY ASSURANCE OFFICER:

Christine Saldano

PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121095
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

----- REPORT TO -----

----- BILL TO -----

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 02-APR-90 TIME : 16:30
DESCRIPTION : PROJ. # 90WT08
: S-5, EPA TAG # 5-045471

PO NUMBER : 16-1076.....

----- ANALYSIS -----

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER

RESULT

DET LIM

INITIAL WEIGHT OR VOLUME..... 2.70 GRAMS

FINAL WEIGHT OR VOLUME..... 50 ML

CHROMIUM FAA SW846-7190

ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER

RESULT

DET LIM

CHROMIUM..... 870 MG/KG J..... 200

J-ESTIMATED

QUALITY ASSURANCE OFFICER:

Christine Salas

CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121097
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

REPORT TO

BILL TO

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

DESCRIPTION

DATE SAMPLED : 02-APR-90 TIME : 16:40
DESCRIPTION : PROJ. # 90WT08
: S-7, EPA TAG # 5-045473

PO NUMBER : 16-1076.....

ANALYSIS

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050.

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.81 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190

ANALYST : P. MUELLER

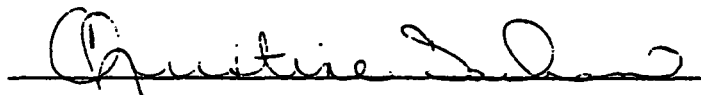
DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	24 MG/KG J.....	1.0

J-ESTIMATED

QUALITY ASSURANCE OFFICER:



PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121098
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

----- REPORT TO -----

----- BILL TO -----

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 02-APR-90 TIME : 16:50
DESCRIPTION : PROJ. # 90WT08
: S-8, EPA TAG # 5-045475

PO NUMBER : 16-1076.....

----- ANALYSIS -----

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050
ANALYST : M. BEAVER DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.64 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190
ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	17 MG/KG J.....	1.0

J - ESTIMATED

QUALITY ASSURANCE OFFICER:

Christine Saldaña

PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121099
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

----- REPORT TO -----

----- BILL TO -----

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 02-APR-90 TIME : 17:00
DESCRIPTION : PROJ. # 90WT08
: S-9, EPA TAG # 5-045476

PO NUMBER : 16-1076.....

----- ANALYSIS -----

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050
ANALYST : M. BEAVER DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.82 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

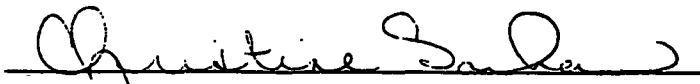
CHROMIUM FAA SW846-7190
ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	16 MG/KG	1.0

QUALITY ASSURANCE OFFICER:



CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121100
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

REPORT TO

BILL TO

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

DESCRIPTION

DATE SAMPLED : 02-APR-90 TIME : 17:05
DESCRIPTION : PROJ. # 90WT08
: S-10, EPA TAG # 5-045477

PO NUMBER : 16-1076.....

ANALYSIS

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050
ANALYST : M. BEAVER DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.68 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

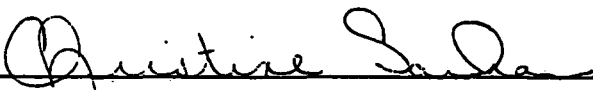
CHROMIUM FAA SW846-7190
ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	22 MG/KG	1.0

QUALITY ASSURANCE OFFICER:



PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121101
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

----- REPORT TO -----

----- BILL TO -----

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 02-APR-90 TIME : 17:10
DESCRIPTION : PROJ. # 90WT08
: S-11, EPA TAG # 5-045478

PO NUMBER : 16-1076.....

----- ANALYSIS -----

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER

RESULT

DET LIM

INITIAL WEIGHT OR VOLUME..... 2.73 GRAMS

FINAL WEIGHT OR VOLUME..... 50 ML

CHROMIUM FAA SW846-7190

ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER

RESULT

DET LIM

CHROMIUM..... 49 MG/KG

1.0

QUALITY ASSURANCE OFFICER:

Christine Sule

PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121102
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

----- REPORT TO -----

----- BILL TO -----

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 02-APR-90 TIME : 17:20
DESCRIPTION : PROJ. # 90WT08
: S-12, EPA TAG # 5-045480

PO NUMBER : 16-1076.....

----- ANALYSIS -----

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.59 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190

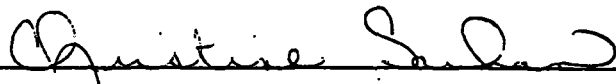
ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	480 MG/KG	10

QUALITY ASSURANCE OFFICER:



PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121103
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

REPORT TO

BILL TO

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

DESCRIPTION

DATE SAMPLED : 02-APR-90 TIME : 17:30
DESCRIPTION : PROJ. # 90WT08
: S-13, EPA TAG # 5-045479

PO NUMBER : 16-1076.....

ANALYSIS

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.67 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190

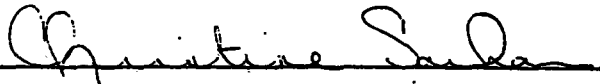
ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	430 MG/KG	10

QUALITY ASSURANCE OFFICER:



PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121104
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

REPORT TO

BILL TO

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

DESCRIPTION

DATE SAMPLED : 02-APR-90 TIME : 17:35
DESCRIPTION : PROJ. # 90WT08
S-14, EPA TAG # 5-045483

PO NUMBER : 16-1076.....

ANALYSIS

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050
ANALYST : M. BEAVER DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.87 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

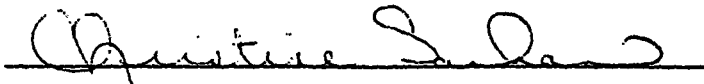
CHROMIUM FAA SW846-7190
ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	7.9 MG/KG	1.0

ITY ASSURANCE OFFICER:



PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121105
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

REPORT TO

BILL TO

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

DESCRIPTION

DATE SAMPLED : 02-APR-90 TIME : 17:50
DESCRIPTION : PROJ. # 90WT08
S-15, SUMP SED. KONRATH
EPA TAG # 5-045467

PO NUMBER : 16-1076.....

ANALYSIS

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL.

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	2.58 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190

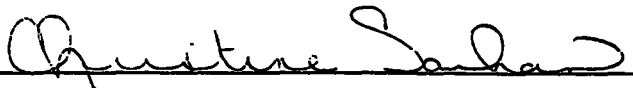
ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	3.8 MG/KG	1.0

QUALITY ASSURANCE OFFICER:



PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121106
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

REPORT TO

BILL TO

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

DESCRIPTION

DATE SAMPLED : 02-APR-90 TIME : 18:00

PO NUMBER : 16-1076.....

DESCRIPTION : PROJ. # 90WT08

~~S-16, SUMP WATER-KONRATH~~
: EPA TAG # 5-045485

ANALYSIS

ACID DIGESTION OF AQUEOUS SAMPLES FOR FAA OR ICP SW846-3010

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER

RESULT

DET LIM

INITIAL WEIGHT OR VOLUME..... 50 ML

FINAL WEIGHT OR VOLUME..... 50 ML

CHROMIUM FAA SW846-7190

ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PREP : ACID DIGESTION OF AQUEOUS SAMPLES FOR FAA OR ICP SW846-3010

PARAMETER

RESULT

DET LIM

CHROMIUM..... BDL MG/L

0.05

BDL BELOW DETECTABLE LIMITS

QUALITY ASSURANCE OFFICER:

Christine Salas

PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121107
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

REPORT TO

BILL TO

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

DESCRIPTION

DATE SAMPLED : 02-APR-90 TIME : 18:05
DESCRIPTION : PROJ. # 90WT08
: S-17, SUMP WATER-KONRATH
: EPA TAG # 5-045484

PO NUMBER : 16-1076.....

ANALYSIS

ACID DIGESTION OF AQUEOUS SAMPLES FOR FAA OR ICP SW846-3010

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	50 ML	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190

ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PREP : ACID DIGESTION OF AQUEOUS SAMPLES FOR FAA OR ICP SW846-3010

PARAMETER	RESULT	DET LIM
CHROMIUM.....	BDL MG/L	0.05

BDL BELOW DETECTABLE LIMITS

QUALITY ASSURANCE OFFICER:

Christine S. [Signature]

PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

----- CORRESPOND TO -----

----- SAMPLE -----

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121108
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

----- REPORT TO -----

----- BILL TO -----

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

----- DESCRIPTION -----

DATE SAMPLED : 02-APR-90 TIME : 18:10
DESCRIPTION : PROJ. # 90WT08
S-18, SUMP WATER-KONRATH
: EPA TAG # 5-0458486

PO NUMBER : 16-1076.....

----- ANALYSIS -----

ACID DIGESTION OF AQUEOUS SAMPLES FOR FAA OR ICP SW846-3010

ANALYST : M. BEAVER

DATE : 05-APR-90 INSTRUMENT : MANUAL

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	50 ML	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190

ANALYST : P. MUELLER

DATE : 10-APR-90 INSTRUMENT : FAA

REP : 0

PREP : ACID DIGESTION OF AQUEOUS SAMPLES FOR FAA OR ICP SW846-3010

PARAMETER	RESULT	DET LIM
CHROMIUM.....	BDL MG/L	0.05

BDL BELOW DETECTABLE LIMITS

QUALITY ASSURANCE OFFICER:

Christine Saldan

PAGE 1 LAST PAGE

CERTIFICATE OF ANALYSIS

CORRESPOND TO

SAMPLE

EMS LABORATORIES, INC.
8205 S. CASS AVE. SUITE 106
DARIEN, IL 60559
(708)969-9030

LAB SAMPLE ID: C121109
DATE PRINTED : 12-APR-90
DATE RECEIVED: 04-APR-90
DATE COMPLETE: 11-APR-90

REPORT TO

BILL TO

ROY F WESTON, INC.
ATTN: SALLY MATZ
SUITE 855
111 NORTH CANAL
CHICAGO, IL 60606

ROY F. WESTON, INC.
ATTN: ACCOUNTS RECEIVABLE
111 N CANAL STE 855
TECH. ASST. PROGRAM
CHICAGO, IL 60606

DESCRIPTION

DATE SAMPLED : 02-APR-90 TIME : 18:20 PO NUMBER : 16-1076.....
DESCRIPTION : PROJ. # 90WT08
S-19, FURNACE FILTER FISCHER
: EPA TAG # 5-045487

ANALYSIS

ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050
ANALYST : M. BEAVER DATE : 05-APR-90 INSTRUMENT : MANUAL.

REP : 0

PARAMETER	RESULT	DET LIM
INITIAL WEIGHT OR VOLUME.....	1.10 GRAMS	
FINAL WEIGHT OR VOLUME.....	50 ML	

CHROMIUM FAA SW846-7190

ANALYST : P. MUELLER DATE : 10-APR-90 INSTRUMENT : FAA
PREP : ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS FOR FAA OR ICP SW846-3050

REP : 0

PARAMETER	RESULT	DET LIM
CHROMIUM.....	4.1 MG/KG	2.5

QUALITY ASSURANCE OFFICER:

Christine Saldan

PAGE 1 LAST PAGE

CHAIN OF CUSTODY RECORD AIRBILL 3964553666

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	TOTAL CHROMIUM	HEXAVALENT CHROMIUM	REMARKS
90W711							
SAMPLERS: (Signature)				SEAL NO 15317 15318			
M. J. ... Steven R. Bookro				EPA TAG #S			
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION		
13	6-18-90	1530		X	GARDEN - 1025 6 TH (C-1)	(1) 812	5-090752
14	6-18-90	1535		X	LOW SPOT - 1025 6 TH (C-2)	(1) 812	5 090 753
15	6-18-90	1545		X	BACK YARD - 529 LANE (C-3)	(1) 812	5 090 754
16	6-18-90	1555		X	BEHIND FENCE 10 TH 6 TH (C-4)	(1) 812	5-090 755
17	6-19-90	0955		X	W-1	(1) 112	5-090 756
18	6-19-90	1000		X	W-2	(1) 112	5 090 757
19	6-18-90	2210		X	A-1	1 FILTER	5-090-758
20	6-18-90	2215		X	A-2	1 FILTER	5-090-759
21	6-18-90	2220		X	A-3	1 FILTER	5-090-760
22	6-19-90	1630		X	A-4	1 FILTER	5-090-761
23	6-19-90	1655		X	A-5	1 FILTER	5 090-762
24	6-14-90	1715		X	G-1	1	5-090763
25	6-14-90	1715		X	G-2	1	5-090764
26	6-19-90	1710		X	G-3	1	5 090 765
27	6-19-90	1710		X	G-4	1	5-090766

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
M. J. ...	6-20-90 1120	FED EX			
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)	Date / Time	Remarks	
		B. ...	6/21/90 12:00		

CHAIN OF CUSTODY RECORD AIRBILL PAGE 2 OF 2
3964553666

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TOTAL CARBON</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">METHYLENE CHLORIDE</div> </div>						REMARKS
SAMPLERS: (Signature)													EPA TAG #
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION								
70W11												SEAL NO 15317 15318	
11/20/90 Steven R. Besko													
228	6/20/90	1120		X	G-5	1	X					5090767 No Filters in Sample	
												No Al. - Volume available to calculate on a mg/m ³ basis. See notes as might be.	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)			
11/20/90		6-20-90 1120		FED EX									
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)		Date / Time		Remarks					
				YB Besko		6/21/90 11:00							

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

REPORT OF TEST RESULTS

ATEC Project Number 21-08044

Date: June 29, 1990
 Client: Roy F. Weston, Inc.
 SPER Division
 111 N. Canal Street,
 Chicago, IL 60606

*Zn
 w-1, w-2
 6/19/90*

Sample Identification: 90WT11
 Sample Matrix: Water
 Sample Taken By: Client
 Date Sampled: June 19, 1990
 Date Received: June 21, 1990
 Date Analyzed: June 25, 1990
 Analyst: AJB, KEB
 Verified By: JDD
 ATEC Lab Number: 9006212

Parameter (units in mg/L unless noted)	Sample I.D. Number		Quanti- tation Limit (mg/L)	Method No. (EPA 600/ 4-79-020)
	S-17	S-18		
<u>Total Metals</u>	<i>w-1</i>	<i>w-2</i>		
Chromium	240	<0.05	0.05	200.7

Respectfully submitted,
 ATEC Associates, Inc.

J. D. Swanson
 Environmental/Analytical Testing Division

REPORT OF TEST RESULTS

ATEC Project Number 21-08049

Date: June 29, 1990

Client: Roy F. Weston, Inc.
 SPER Division
 111 N. Canal Street, Suite 855
 Chicago, IL 60606

Sample Identification: 90WT11
Sample Matrix: Soil
Sample Taken By: Client
Date Sampled: June 18, 1990
Date Received: June 21, 1990
Date Analyzed: June 25, 1990
Analyst: AJB, KEB
Verified By: JDD
ATEC Lab Number: 9006212

*Cr
 residences*

Parameter (units in mg/kg unless noted)	<u>Sample I.D. Number</u>				Quanti- tation Limit (mg/kg)	SW 846 Analytical Method No.
	<u>S-13</u>	<u>S-14</u>	<u>S-15</u>	<u>S-16</u>		
<u>Total Metals</u>	<i>1025</i>	<i>1025</i>	<i>529</i>	<i>1041</i>		
Chromium	15	20	12	44	2.0	6010

Respectfully submitted,
 ATEC Associates, Inc.

John P. [Signature]
 Environmental/Analytical Testing Division

REPORT OF TEST RESULTS

ATEC Project Number 21-08049

Date: June 29, 1990

Client: Roy F. Weston, Inc.
SPER Division
111 N. Canal Street, Suite 855
Chicago, IL 60606

Sample Identification: 90WT11

Er.

Sample Taken By: Client
Sample Matrix: High Volume Filter
Date Sampled: June 18 and 19, 1990
Date Received: June 21, 1990
Date Analyzed: June 25, 1990
Analyst: AJB
Verified By: JDD
ATEC Lab Number: 9006212

Parameter (units in mg/filter unless noted)	Sample I.D.			Quanti- tation Limit	EPA 600/ 4-79-020 Method No.
	S-20	S-21	S-22		
Total Chromium	<40	<40	<40	40	7024

Respectfully submitted,
ATEC Associates, Inc.

John F. P. [Signature]
Environmental/Analytical Testing Division

REPORT OF TEST RESULTS

ATEC Project Number 21-08049

Date: June 29, 1990

Client: Roy F. Weston, Inc.
SPER Division
111 N. Canal Street, Suite 855
Chicago, IL 60606

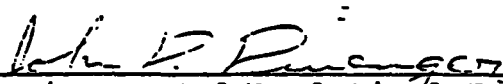
Sample Identification: 90WT11

Sample Taken By: Client
Sample Matrix: High Volume Filter
Date Sampled: June 18 and 19, 1990
Date Received: June 21, 1990
Date Analyzed: June 25, 1990
Analyst: AJB
Verified By: JDD
ATEC Lab Number: 9006212

Cr

Parameter (units in mg/filter unless noted)	Sample I.D.		Quanti- tation Limit	EPA 600/ 4-79-020 Method No.
	S-19	S-23		
Hexavalent Chromium	<20	<20	20	7600

Respectfully submitted,
ATEC Associates, Inc.


Environmental/Analytical Testing Division

REPORT OF TEST RESULTS

ATEC Project Number 21-08049

Date: June 29, 1990

Client: Roy F. Weston, Inc.
SPER Division
111 N. Canal Street, Suite 855
Chicago, IL 60606

Sample Identification: 90WT11
Sample Matrix: ~~Water~~
Sample Taken By: Client
Date Sampled: June 19, 1990
Date Received: June 21, 1990
Date Analyzed: June 25, 1990
Analyst: AJB, KEB
Verified By: JDD
ATEC Lab Number: 9006212

Parameter (units in mg/L unless noted)	Sample I.D. Number		Quanti- tation Limit (mg/L)	Method No. (EPA 600/ 4-79-020)
	S-17	S-18		
<u>Total Metals</u>	W-1	W-2		
<u>Chromium</u>	240	<0.05	0.05	200.7

Respectfully submitted,
ATEC Associates, Inc.

J. D. Swanger
Environmental/Analytical Testing Division

REPORT OF TEST RESULTS

ATEC Project Number 21-08049

Date: June 29, 1990

Client: Roy F. Weston, Inc.
 SPER Division
 111 N. Canal Street, Suite 855
 Chicago, IL 60606

Sample Identification: 90WT11
 Sample Matrix: ~~Soil~~
 Sample Taken By: Client
 Date Sampled: June 18, 1990
 Date Received: June 21, 1990
 Date Analyzed: June 25, 1990
 Analyst: AJB, KEB
 Verified By: JDD
 ATEC Lab Number: 9006212

Parameter (units in mg/kg unless noted)	<u>Sample I.D. Number</u>				Quantitation Limit (mg/kg)	SW 846 Analytical Method No.
	S-13	S-14	S-15	S-16		
<u>Total Metals</u>	1025	1025	529	1041		
<u>Chromium</u>	15	20	12	44	2.0	6010

Respectfully submitted,
 ATEC Associates, Inc.

John P. Runinger
 Environmental/Analytical Testing Division

REPORT OF TEST RESULTS

ATEC Project Number 21-08049

Date: June 29, 1990

Client: Roy F. Weston, Inc.
SPER Division
111 N. Canal Street, Suite 855
Chicago, IL 60606

Sample Identification: 90WT11

Sample Taken By: Client
Sample Matrix: High Volume Filter
Date Sampled: June 18 and 19, 1990
Date Received: June 21, 1990
Date Analyzed: June 25, 1990
Analyst: AJB
Verified By: JDD
ATEC Lab Number: 9006212

Parameter (units in mg/filter unless noted)	Sample I.D.			Quantitation Limit	EPA 600/ 4-79-020 Method No.
	S-20 <i>NW SITE</i>	S-21 <i>Blank</i>	S-22 <i>-TRACKS</i>		
Total Chromium	<40>	<40>	<40>	40	7024

Respectfully submitted,
ATEC Associates, Inc.

Ch. F. ...
Environmental/Analytical Testing Division

REPORT OF TEST RESULTS

ATEC Project Number 21-08049

Date: June 29, 1990

Client: Roy F. Weston, Inc.
 SPER Division
 111 N. Canal Street, Suite 855
 Chicago, IL 60606

Sample Identification: 90WT11

Sample Taken By: Client
 Sample Matrix: ~~High-Volume~~ Filter
 Date Sampled: June 18 and 19, 1990
 Date Received: June 21, 1990
 Date Analyzed: June 25, 1990
 Analyst: AJB
 Verified By: JDD
 ATEC Lab Number: 9006212

=====

Parameter (units in mg/filter unless noted)	Sample I.D.		Quanti- tation Limit	EPA 600/ 4-79-020 Method No.
	S-19 <i>SE CORNER</i>	S-23 <i>KONRATH'S</i>		
Hexavalent Chromium	<20>	<20>	20	7600

Respectfully submitted,
 ATEC Associates, Inc.

John P. Pincus
 Environmental/Analytical Testing Division

CHAIN OF CUSTODY RECORD AIRBILL 3964553666

1

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	TOTAL CHROMIUM				HEXAVALENT CHROMIUM				REMARKS	
90W711															SEAL NO 15311 15312	
SAMPLERS: (Signature)														REMARKS		
M. J. + Steven R. Boeko														EPA TAG #S		
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION											
5-13	6-18-90	1530		X	GARDEN-1025 6 TH (C-1)	(1)802	X								5-090752	S...L
5-14	6-18-90	1535		X	LOW SPOT-1025 6 TH (C-2)	(1)802	X								5-090753	S...L
5-15	6-18-90	1545		X	BACK YARD-529 LAND C-3	(1)802	X								5-090754	S...L
5-16	6-18-90	1555		X	BEHIND TENCE 10 TH 6 TH (C-4)	(1)802	X								5-090755	S...L
5-17	6-19-90	0955		X	W-1	(1)112	X								5-090756	M...L
5-18	6-19-90	1000		X	W-2	(1)112	X								5-090757	M...L
5-19	6-18-90	2210		X	A-1	1 FILTER	X								5-090-758	F...L
5-20	6-18-90	2215		X	A-2	1 FILTER	X								5-090-759	
5-21	6-18-90	2220		X	A-3	1 FILTER	X								5-090-760	
5-22	6-19-90	1630		X	A-4	1 FILTER	X								5-090-761	
5-23	6-19-90	1655		X	A-5	1 FILTER	X								5-090-762	
5-23	6-14-90	1715		X	G-1	1	X								5-090763	
5-24	6-14-90	1715		X	G-2	1	X								5-090764	
5-26	6-19-90	1710		X	G-3	1	X								5-090765	
5-27	6-19-90	1710		X	G-4	1	X								5-090766	No. Filter in sample: 17

Relinquished by: (Signature) M. J. + S.	Date / Time 6-20-90 1120	Received by: (Signature) FED EX	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) B. Hudson	Date / Time 6/21/90 12:00	Remarks	

UNREVIEWED

WESTON Project 90WT08
Chromium Results

<u>Sample ID</u>	<u>EMS Sample #</u>	<u>Result</u>	<u>Units</u>	<u>Det. Lim.</u>
S-1	C121091	18	MG/KG	1.0
S-2	C121092	13		
S-3	C121093	14		
S-4	C121094	100		10
S-5	C121095	870		10
S-6	C121096	19		1.0
S-7	C121097	24		
S-8	C121098	17		
S-9	C121099	16		
S-10	C121100	22		
S-11	C121101	49		
S-12	C121102	480		10
S-13	C121103	430		10
S-14	C121104	7.9		1.0
S-15	C121105	3.8		
S-16	C121106	BDL	MG/L	0.05
S-17	C121107	BDL		
S-18	C121108	BDL		
S-19	C121109	4.1	MG/KG	1.0

S-1 Duplicate values are 18 and 17. Spike recoveries are 54% and 43% indicating a matrix interference.

S-9 Duplicate values are 16 and 17. Spike recoveries are 66% and 83%.

S-16 Duplicate values are BDL and BDL. Spike recovery is 86%.