

Table 3-1
Site Container Inventory
Ken's Metal Finishing Site Assessment
Minneapolis, Minnesota
March 19 and 20, 2008

CONTAINER						CONTENTS	
Container ID	Location	Size (gallons)	Type of Container	Top	Condition	Percent Full	Contents / Labeling
DM - 1	Plating Room	55	Drum	OT	Fair	20	Nickel strike
DM - 2	Plating Room	55	Drum	OT	Fair	Empty	Copper dead rinse
DM - 3	Plating Room	55	Drum	OT	Fair	85	Nitric acid
DM - 4	Plating Room	55	Drum	OT	Fair	80	Zincate
DM - 5	Plating Room	55	Drum	OT	Fair	65	Black chrome
DM - 6	Plating Room	55	Drum	OT	Fair	36	Brass dead rinse
DM - 7	Plating Room	15	Fiberglass Tank	Unknown	Fair	50	Unknown solids/scrap
DM - 8	Plating Room	30	Steel Tank	Cover	Fair	Unknown	Unknown
DM - 9	Plating Room	44	Plastic Container	Unknown	Fair	Unknown	30- to 35-gallon steel OT drum (contents unknown)
DM - 10	Plating Room	30	Steel Drum	OT	Fair	75	Toxic 6 Cyanobrik (solids)
DM - 11	Plating Room	44	Plastic Container	Unknown	Fair	Unknown	30- to 35-gallon steel OT drum (contents unknown)
DM - 12	Plating Room	40	Plastic Container	Unknown	Fair	Unknown	20- to 25-gallon steel OT drum (contents unknown)
DM - 13	Plating Room	Unknown	Poly Tank/Drum	Unknown	Fair	Empty	Nickel residue/boards
DM - 14	Plating Room	55	Drum	OT	Fair	90	Antique stain (liquid)
DM - 15	Black Oxide Room	55	Drum	OT	Fair	Unknown	Nickel cyanide
DM - 16	Black Oxide Room	30	Steel Drum	OT	Fair	Empty	Unknown
DM - 17	Black Oxide Room	15	Steel Drum	OT	Fair	Unknown	Unknown
DM - 18	Black Oxide Room	15	Steel Drum	OT	Fair	Unknown	Unknown
DM - 19	Black Oxide Room	15	Steel Drum	OT	Fair	Empty	Unknown
DM - 20	Black Oxide Room	30	Drum	OT	Fair	100	Sodium Cyanide - Poison 6
DM - 21	Black Oxide Room	30	Drum	OT	Fair	100	Sodium Cyanide - Poison 6
DM - 22	Polishing Room	55	Steel Drum	OT	Fair	Unknown	"Hazardous Waste" label; contents unknown
DM - 23	Polishing Room	55	Steel Drum	OT	Fair	Unknown	"Hazardous Waste" label; contents unknown
DM - 24	Polishing Room	55	Steel Drum	Bung	Fair	Unknown	Fremont 5027; water-displacing rust preventative

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DM - 25	Polishing Room	55	Steel Drum	Bung	Fair	Unknown	Fremont 5027; water-displacing rust preventative
DM - 26	Polishing Room	55	Poly Drum	Bung	Fair	100	Unknown (described as copper cyanide)
DM - 27	Polishing Room	55	Poly Drum	Bung	Fair	100	Unknown (described as copper cyanide)
DM - 28	Polishing Room	55	Poly Drum	Bung	Fair	100	Unknown (described as copper cyanide)
DM - 29	Polishing Room	55	Poly Drum	Bung	Fair	100	Unknown (described as copper cyanide)
DM - 30	Polishing Room	55	Poly Drum	Bung	Fair	100	Unknown (described as copper cyanide)
DM - 31	Polishing Room	55	Poly Drum	Bung	Fair	100	Unknown (described as copper cyanide)
DM - 32	Chemical Storage Room	10	Steel Container	Unknown	Fair	Unknown	Potassium permanganate (oxidizer Label)
DM - 33	Chemical Storage Room	55	Fiber Drum	OT	Fair	Unknown	Freemont Steel Cleaner
DM - 34	Chemical Storage Room	30	Poly Drum	OT	Fair	Unknown	Unknown
DM - 35	Chemical Storage Room	55	Fiber Drum	OT	Fair	Unknown	Electrocleaner 206
DM - 36	Chemical Storage Room	55	Fiber Drum	OT	Fair	Unknown	Freemont Steel Cleaner
DM - 37	Chemical Storage Room	17	Poly Drum	Bung	Fair	Unknown	Hydrochloric Acid 20 Be
DM - 38	Chemical Storage Room	17	Poly Drum	Bung	Fair	Unknown	Sulfuric Acid 66 Be
DM - 39	Plating Room	15	Steel Container	Unknown	Fair	Unknown	Boiler cleaner
DM - 40	Basement Storage Area	55	Poly Drum	Unknown	Fair	Unknown	Boiler cleaner

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DM - 41	Basement Storage Area	30	Fiberglass	Unknown	Fair	Unknown	Freeman 304
DM - 42	Basement Storage Area	30	Fiber Drum	Unknown	Fair	Unknown	Compound #780
DM - 43	Basement Storage Area	30	Steel Drum	OT	Fair	Unknown	Potassium Hydroxide - Caustic Potash (Corrosive)
DM - 44	Basement Storage Area	30	Steel Drum	OT	Fair	Unknown	Caustic soda flake
DM - 45	Basement Storage Area	50	Fiber Drum	OT	Fair	Unknown	Rostrip M-10 Stripper
DM - 46	Basement Storage Area	17	Poly Drum	Bung	Fair	Unknown	Hydrochloric acid 20 Be
DM - 47	Basement Storage Area	17	Poly Drum	Bung	Fair	Empty	None
DM - 48	Basement Storage Area	17	Poly Tank	Bung	Fair	25 - 50	Unknown solids
DM - 49	Basement Storage Area	55	Steel Drum	Bung	Fair	Empty	Unknown
DM - 50	Basement Storage Area	20	Container	OT	Fair	Unknown	Unknown
DM - 51	Basement Storage Area	55	Poly Drum	Bung	Fair	Empty	Unknown
DM - 52	Basement Storage Area	30	Steel Drum	OT	Fair	Unknown	Floor sweep debris
DM - 53	Basement Storage Area	55	Steel Drum	Bung	Fair	Empty	Unknown
DM - 54	Basement Storage Area	30	Fiber Drum	Cover	Fair	Unknown	Unknown
DM - 55	Chemical Storage Room	55	Poly Drum	Bung	Fair	Unknown	Nickel chloride or sulfate
SM - 1	Plating Room	5	Poly Pail	Unknown	Fair	100	B/Ox 313

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Container ID	Location	Size (gallons)	Type of Container	Top	Condition	Percent Full	Contents / Labeling
SM - 2	Plating Room	5	Poly Pail	Unknown	Fair	100	Antique Black M-20 (corrosive label)
SM - 3	Plating Room	5	Poly Pail	Unknown	Fair	100	Unknown (no label)
SM - 4	Plating Room	5	Poly Pail	Unknown	Fair	<20	Unknown (liquid/solid mixture)
SM - 5	Plating Room	5	Poly Pail	Unknown	Fair	33 - 50	Antique Black M-20
SM - 6	Plating Room	6 - 8	Fiber Container	Unknown	Fair	Unknown	Unknown
SM - 7	Plating Room	5	Poly Pail	Unknown	Fair	50	767-R (Unknown)
SM - 8	Plating Room	5	Poly Pail	Unknown	Fair	Unknown	Nickel Carbonate (handwritten)
SM - 9	Black Oxide Room	5	Poly Pail	Unknown	Fair	20 - 40	Nickel staining with solids
SM - 10	Black Oxide Room	5	Poly Pail	Unknown	Fair	40 - 60	Unknown liquid
SM - 11	Black Oxide Room	15	Poly Container	Unknown	Fair	Unknown	Unknown
SM - 12	Black Oxide Room	5	Poly Pail	Unknown	Fair	Unknown	Unknown
SM - 13	Black Oxide Room	5	Poly Pail	Unknown	Fair	Unknown	Unknown
SM - 14	Black Oxide Room	5	Poly Pail	Unknown	Fair	Unknown	Unknown
SM - 15	Chemical Storage Room	5	Steel	Unknown	Fair	Unknown	Econo-chrome compound; chromic acid, solid oxidizer/corrosive
SM - 16	Chemical Storage Room	5	Poly Pail	Unknown	Fair	50	Unknown
SM - 17	Basement Storage Area	5	Poly Pail	Unknown	Fair	100	ARP210 - Carbonate Remover
SM - 18	Basement Storage Area	5	Poly Pail	Unknown	Fair	100	ARP210 - Carbonate Remover
SM - 19	Basement Storage Area	5	Poly Pail		Fair	100	Unknown
SM - 20	Basement Storage Area	Unknown	Unknown	Unknown	Fair	Unknown	Unknown
SM - 21	Basement Storage Area	Unknown	Unknown	Unknown	Fair	Unknown	Unknown
SM - 22	Basement Storage Area	Unknown	Unknown	Unknown	Fair	Unknown	Unknown
SM - 23	Basement Storage Area	Unknown	Unknown	Unknown	Fair	Unknown	Unknown
SM - 24	Basement Storage Area	Unknown	Unknown	Unknown	Fair	Unknown	Unknown
SM - 25	Basement Storage Area	Unknown	Unknown	Unknown	Fair	Unknown	Unknown

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SM - 26	Basement Storage Area	5	Poly Pail	Unknown	Fair	Unknown	Metex Add Agent S-1
SM - 27	Basement Storage Area	5	Poly Pail	Unknown	Fair	Unknown	Metex Add Agent S-1
SM - 28	Basement Storage Area	5	Poly Pail	OT	Fair	Unknown	Unknown
SM - 29	Basement Storage Area	5	Poly Pail	Unknown	Fair	20	Unknown; "UVB"
SM - 30	Basement Storage Area	5	Poly Pail	Unknown	Fair	100	Metex Copper Addition Agent S-2
SM - 31	Basement Storage Area	5	Poly Pail	Unknown	Fair	100	Metex Copper Addition Agent S-2
SM - 32	Basement Storage Area	5	Poly Pail	Unknown	Fair	40 - 60	Used oil
SM - 33	Basement Storage Area	Unknown	Glass	Unknown	Fair	Unknown	Unknown
SM - 34	Basement Storage Area	Unknown	Glass	Unknown	Fair	Unknown	Unknown
V - 1	Plating Room	600	Tank	Unknown	Fair	50	Nickel process tank
V - 2	Plating Room	Unknown	Tank	Unknown	Fair	Unknown	Nickel dead rinse tank
V - 3	Plating Room	300	Tank	Unknown	Fair	67	Copper process
V - 4	Plating Room	150	Tank	Unknown	Fair	13 - 17	Hydrochloric acid
V - 5	Plating Room	250	Tank	Unknown	Fair	100	Water Rinse 1
V - 6	Plating Room	250	Tank	Unknown	Fair	100	Water Rinse 2
V - 7	Plating Room	150	Tank	Unknown	Fair	77	PICTAX - Sodium Hydrogen Sulfate
V - 8	Plating Room	Unknown	Tank	Unknown	Fair	Unknown	Water Rinse
V - 9	Plating Room	400	Tank	Unknown	Fair	75	Electric cleaner
V - 10	Plating Room	500	Tank	Unknown	Fair	20	Chrome Process Tank (sludge/liquid)
V - 11	Plating Room	Unknown	Unknown	Unknown	Fair	Unknown	Chrome Dead Rinse
V - 12	Plating Room	Unknown	Unknown	Unknown	Fair	Unknown	Chrome Running Rinse
V - 13	Plating Room	Unknown	Unknown	Unknown	Fair	Unknown	Hot Water Rinse
V - 14	Plating Room	200	Unknown	Unknown	Fair	75	Brass Process Tank
V - 15	Plating Room	40	Unknown	Unknown	Fair	50	Silver Strike (liquid)

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V - 16	Plating Room	40	Unknown	Unknown	Fair	50	Silver (liquid)
V - 17	Plating Room	20	Unknown	Unknown	Fair	40	Gold (liquid)
V - 18	Plating Room	Unknown	Unknown	Unknown	Fair	Unknown	Gold Dead Rinse (liquid)
V - 19	Plating Room	Unknown	Unknown	Unknown	Fair	Unknown	Residue/solids on bottom; DM-13 located inside V-19; nickel staining and boards inside
V - 20	Plating Room	100	Tank	Unknown	Fair	Empty	Unknown
V - 21	Black Oxide Room	100	Tank	Unknown	Fair	90	Electric Strip Process Tank
V - 22	Black Oxide Room	150	Poly Tank	Unknown	Fair	33	Nickel Strip (Solids)
V - 23	Black Oxide Room	150	Steel Tank	Unknown	Fair	20	Nickel Strip (Solids)
V - 24	Black Oxide Room	75	Tank	Unknown	Fair	20 - 27	Water Displacing Oil Tank
V - 25	Black Oxide Room	100	Tank	Unknown	Fair	20	Hydrochloric Acid (Liquid)
V - 26	Black Oxide Room	150	Tank	Unknown	Fair	33	Water Rinse Tank; reddish solids on bottom with liquid phase on top
V - 27	Black Oxide Room	150	Tank	Unknown	Fair	60	Black Oxide Tank
V - 28	Black Oxide Room	Unknown	Unknown	Unknown	Fair	100	Hot Water Rinse
V - 29	Black Oxide Room	150	Unknown	Unknown	Fair	85	Cleaner
V - 30	Black Oxide Room	Unknown	Tank	Unknown	Fair	Empty	Unknown
V - 31	Basement Storage Area	Unknown	Wood Tank	Unknown	Fair	Empty	Unknown
V - 32	Basement Storage Area	Unknown	Unknown	Unknown	Fair	Unknown	Unknown

Notes:

DM - Drum

ID - Identifier

OT - Open-top container

Poly - Polyethylene

SM - Small container

V - Tank or vat

Table 3-2
Sampling Location and Analysis Summary
Ken's Metal Finishing Site Assessment
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Sample ID	Matrix	Sampling Location	Analyses
KMF-DM11	Solid	Plating Room	Total cyanide and reactivity
KMF-DM20	Solid	Black Oxide Room	TCLP metals, pH, and total SVOCs
KMF-DM23 and Duplicate	Solid	Polishing Room	TCLP metals, pH, and total SVOCs
KMF-SM24	Solid	Basement Storage Room	TCLP SVOCs, TCLP metals, pH, and flashpoint
KMF-S1	Solid	Basement Storage Room	TCLP metals, pH, and total SVOCs
KMF-S2	Solid	Basement Storage Room	TCLP metals, pH, and total SVOCs
KMF-SM32	Oil	Basement Storage Room	TCLP metals, pH, and total SVOCs
KMF- DM26	Liquid	Polishing Room	TCLP metals, pH, total cyanide, reactivity, and total SVOCs
KMF-DM40	Liquid	Basement Storage Room	TCLP metals, pH, and total SVOCs
KMF-SM33	Liquid	Chemical Storage Room	TCLP metals, pH, and total SVOCs
KMF-V1	Liquid	Plating Room	TCLP metals, pH, total cyanide, reactivity, and total SVOCs
KMF-V3	Liquid	Plating Room	TCLP metals, pH, total cyanide, reactivity, and total SVOCs
KMF-V27	Liquid	Black Oxide Room	TCLP metals, pH, total cyanide, reactivity, and total SVOCs
KMF-V32	Liquid	Basement Storage Room	PCBs, pH, and flashpoint

Notes:

DM - Drum

ID - Identification

KMF – Ken's Metal Finishing

PCB - Polychlorinated biphenyl

S-Soil

SM – Small container

SVOC – Semivolatile organic compound

TCLP – Toxicity characteristic leaching procedure

V-Tank or vat

Table 4-1a
Analytical Results for Characteristics of Hazardous Waste in Solid Samples
Ken's Metal Finishing Site Assessment
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	Regulatory Criteria ¹	Sampling Date	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008
		Sample Matrix	Solid	Solid	Solid	Solid	Solid	Solid	Solid
		Sample ID	KMF - DM11	KMF - DM20	KMF - DM23	KMF - DM23 (DP)	KMF - S1	KMF - S2	KMF - SM24
		Location	Plating Room	Black Oxide Room	Polishing Room	Polishing Room	Basement Storage	Basement Storage	Basement Storage
		Units							
General Waste Characteristics									
Flashpoint	140	°F	NA	NA	NA	NA	NA	NA	>140
Percent Solids	NL	%	NA	75	91	94	92	95	96
pH	2<pH>12.5	SU	NA	9.8	1.2	1.2	8.2	9.0	0.0
Reactive Cyanide	NL	mg/kg	14,000	NA	NA	NA	NA	NA	NA
Reactive Sulfide	NL	mg/kg	10 U	NA	NA	NA	NA	NA	NA
Cyanide	NL	mg/kg	370,000	NA	NA	NA	NA	NA	NA

Notes:

Shaded values exceed regulatory criteria.

¹ Characteristics of hazardous waste, Title 40 of the *Code of Federal Regulations* (CFR), Part 261.20-24

% - Percent

< - Less than

> - Greater than

°F- Degree Fahrenheit

DM - Drum

DP - Duplicate

KMF - Ken's Metal Finishing

mg/kg - Milligram per kilogram

NA - Not analyzed

NL - Not listed

S - Soil

SM - Small container

SU - Standard unit

U – The analyte was not detected above the level of the value listed

Table 4-1b
Analytical Results for TCLP Metals in Solid Samples
Ken's Metal Finishing Site Assessment
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	Regulatory Criteria ¹	Sampling Date	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008
		Sample Matrix	Solid	Solid	Solid	Solid	Solid	Solid	Solid
		Sample ID	KMF - DM11	KMF - DM20	KMF - DM23	KMF - DM23	KMF - S1	KMF - S2	KMF - SM24
		Location Units	Plating Room	Black Oxide Room	Polishing Room	Polishing Room	Basement Storage	Basement Storage	Basement Storage
TCLP Metals									
Arsenic	5	mg/L	NA	0.006 U	0.03 U	0.03 U	0.003 U	0.006 U	0.03 U
Barium	100	mg/L	NA	0.020 J	0.18 J	0.27 J	0.12 J	0.33 J	940
Cadmium	1	mg/L	NA	0.0018 U	0.35 J	0.34 J	0.25	0.0049 J	0.0088 U
Chromium	5	mg/L	NA	0.61 J	4,400	4,200	0.48 J	0.0037 U	25,000
Lead	5	mg/L	NA	0.11 J	0.049 U	0.049 U	0.18 J	1.1	0.049 U
Selenium	1	mg/L	NA	0.069 J	0.10 J	0.14 J	0.064 J	0.028 J	0.084 U
Silver	5	mg/L	NA	0.0037 J	0.042 J	0.038 J	0.00082 U	0.0016 U	0.0082 U
Mercury	0.2	mg/L	NA	0.00025 J	0.00064 J	0.00074 J	0.000051 J	0.00028 J	0.000064 J

Notes:

Shaded values exceed regulatory criteria.

¹ Maximum concentration of contaminants for the toxicity characteristic, Title 40 of the *Code of Federal Regulations* (CFR), Part 261.24

DM - Drum

J – Estimated value

KMF - Ken's Metal Finishing

mg/L - Milligram per liter

NA - Not analyzed

S - Soil

SM - Small container

TCLP - Toxicity characteristic leaching procedure

U – The analyte was not detected above the level of the value listed

Table 4-1c
Analytical Results for TCLP SVOCs in Solid Samples
Ken's Metal Finishing Site Assessment
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	Regulatory Criteria ¹	Sampling Date	3/20/2008
		Sample Matrix	Soil
		Sample ID	KMF - SM24
		Location	Basement Storage
		Units	
TCLP SVOCs			
1,4-Dichlorobenzene	7.5	mg/L	0.0029 U
2,4,5-Trichlorophenol	400	mg/L	0.0015 U
2,4,6-Tribromophenol	NL	mg/L	0.361
2,4,6-Trichlorophenol	2	mg/L	0.0023 U
2,4-Dinitrotoluene	0.13	mg/L	0.002 U
2-Fluorobiphenyl	NL	mg/L	0.176
2-Fluorophenol	NL	mg/L	0.216
2-Methylphenol	200	mg/L	0.025 U
3-/4-Methylphenol	200	mg/L	0.0028 U
Hexachlorobenzene	0.13	mg/L	0.0024 U
Hexachlorobutadiene	0.5	mg/L	0.0031 U
Hexachloroethane	3	mg/L	0.0035 U
Nitrobenzene	2	mg/L	0.0027 U
Nitrobenzene-d5	NL	mg/L	0.162
Pentachlorophenol	100	mg/L	0.0054 U
Phenol-d6	NL	mg/L	0.184
Pyridine	5	mg/L	0.024 U
Terphenyl-d14	NL	mg/L	0.227

Notes:

¹ Maximum concentration of contaminants for the toxicity characteristic, Title 40 of the *Code of Federal Regulations* (CFR), Part 261.24

KMF - Ken's Metal Finishing

mg/L - Milligram per liter

NL - Not listed

SM - Small container

SVOC - Semivolatile organic compound

TCLP - Toxicity characteristic leaching procedure

U – The analyte was not detected above the level of the value listed

Table 4-1d
Analytical Results for Total SVOCs in Solid Samples
Ken's Metal Finishing Site Assessment
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	Sampling Date	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008
	Sample Matrix	Solid	Solid	Solid	Solid	Solid
	Sample ID	KMF - DM20	KMF - DM23	KMF - DM23 (DP)	KMF - S1	KMF - S2
	Location	Black Oxide	Polishing	Polishing Room	Basement	Basement
	Units	Room	Room		Storage	Storage
Total SVOCs						
1,2,4-Trichlorobenzene	mg/kg	0.013 U	0.055 U	0.053 U	0.011 U	0.21 U
1,2-Dichlorobenzene	mg/kg	0.0067 U	0.028 U	0.027 U	0.0055 U	0.11 U
1,2-Diphenylhydrazine	mg/kg	0.008 U	0.033 U	0.032 U	0.0066 U	0.13 U
1,3-Dichlorobenzene	mg/kg	0.011 U	0.044 U	0.043 U	0.0087 U	0.17 U
1,4-Dichlorobenzene	mg/kg	0.013 U	0.055 U	0.053 U	0.011 U	0.21 U
2,4,5-Trichlorophenol	mg/kg	0.025 U	0.1 U	0.1 U	0.021 U	0.4 U
2,4,6-Trichlorophenol	mg/kg	0.023 U	0.094 U	0.09 U	0.019 U	0.36 U
2,4-Dichlorophenol	mg/kg	0.025 U	0.1 U	0.1 U	0.021 U	0.4 U
2,4-Dimethylphenol	mg/kg	0.079 U	0.33 U	0.31 U	0.064 U	1.2 U
2,4-Dinitrophenol	mg/kg	0.024 U	0.099 U	0.096 U	0.02 U	0.38 U
2,4-Dinitrotoluene	mg/kg	0.0093 U	0.039 U	0.037 U	0.0076 U	0.15 U
2,6-Dinitrotoluene	mg/kg	0.008 U	0.033 U	0.032 U	0.0066 U	0.13 U
2-Chloronaphthalene	mg/kg	0.0093 U	0.039 U	0.037 U	0.0076 U	0.15 U
2-Chlorophenol	mg/kg	0.024 U	0.099 U	0.096 U	0.02 U	0.38 U
2-Methylnaphthalene	mg/kg	0.031 U	0.13 U	0.12 U	0.025 U	0.49 U
2-Methylphenol	mg/kg	0.023 U	0.094 U	0.09 U	0.019 U	0.36 U
2-Nitroaniline	mg/kg	0.024 U	0.099 U	0.096 U	0.02 U	0.38 U
2-Nitrophenol	mg/kg	0.025 U	0.1 U	0.1 U	0.021 U	0.4 U
3,3-Dichlorobenzidine	mg/kg	0.023 U	0.094 U	0.09 U	0.019 U	0.36 U
3-/4-Methylphenol	mg/kg	0.028 U	0.12 U	0.11 U	0.023 U	0.44 U
3-Nitroaniline	mg/kg	0.024 U	0.099 U	0.096 U	0.02 U	0.38 U
4,6-Dinitro-2-methylphenol	mg/kg	0.013 U	0.055 U	0.053 U	0.011 U	0.21 U
4-Bromophenyl phenyl ether	mg/kg	0.013 U	0.055 U	0.053 U	0.011 U	0.21 U
4-Chloro-3-methylphenol	mg/kg	0.029 U	0.12 U	0.12 U	0.024 U	0.46 U
4-Chloroaniline	mg/kg	0.024 U	0.099 U	0.096 U	0.02 U	0.38 U
4-Chlorophenyl phenyl ether	mg/kg	0.015 U	0.061 U	0.059 U	0.012 U	0.23 U
4-Nitroaniline	mg/kg	0.02 U	0.083 U	0.08 U	0.34	0.32 U
4-Nitrophenol	mg/kg	0.028 U	0.12 U	0.11 U	0.023 U	0.44 U
Acenaphthene	mg/kg	0.013 U	0.055 U	0.053 U	0.020 J	0.21 U
Acenaphthylene	mg/kg	0.0093 U	0.039 U	0.037 U	0.024 J	0.15 U
Aniline	mg/kg	0.056 U	0.23 U	0.22 U	0.046 U	0.89 U
Anthracene	mg/kg	0.013 U	0.055 U	0.053 U	0.072 J	0.21 U

Table 4-1d
Analytical Results for Total SVOCs in Solid Samples
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	Sampling Date	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008
	Sample Matrix	Solid	Solid	Solid	Solid	Solid
	Sample ID	KMF - DM20	KMF - DM23	KMF - DM23 (DP)	KMF - S1	KMF - S2
	Location	Black Oxide	Polishing	Polishing Room	Basement	Basement
	Units	Room	Room		Storage	Storage
Total SVOCs						
Benzo(a)anthracene	mg/kg	0.013 U	0.055 U	0.053 U	0.31	0.21 U
Benzo(a)pyrene	mg/kg	0.011 U	0.044 U	0.043 U	0.37	0.17 U
Benzo(b)fluoranthene	mg/kg	0.023 U	0.094 U	0.09 U	0.48	0.36 U
Benzo(g,h,i)perylene	mg/kg	0.008 U	0.033 U	0.032 U	0.061 J	0.13 U
Benzo(k)fluoranthene	mg/kg	0.019 U	0.077 U	0.074 U	0.29	0.3 U
Benzyl alcohol	mg/kg	0.036 U	0.15 U	0.14 U	0.029 U	0.57 U
bis(2-Chloroethoxy)methane	mg/kg	0.015 U	0.061 U	0.059 U	0.012 U	0.23 U
bis(2-Chloroethyl)ether	mg/kg	0.016 U	0.066 U	0.064 U	0.013 U	0.25 U
bis(2-Chloroisopropyl)ether	mg/kg	0.019 U	0.077 U	0.074 U	0.015 U	0.3 U
bis(2-Ethylhexyl)phthalate	mg/kg	0.22 J	0.24 J	0.30 J	0.48	0.39 J
Butyl benzyl phthalate	mg/kg	0.044 J	0.044 U	0.043 U	0.23	1.4
Carbazole	mg/kg	0.02 U	0.083 U	0.08 U	0.042 J	0.32 U
Chrysene	mg/kg	0.013 U	0.055 U	0.053 U	0.37	0.21 U
Dibenz(a,h)anthracene	mg/kg	0.028 U	0.12 U	0.11 U	0.023 U	0.44 U
Dibenzofuran	mg/kg	0.017 U	0.072 U	0.069 U	0.014 U	0.27 U
Diethylphthalate	mg/kg	0.015 U	0.061 U	0.059 U	0.012 U	0.23 U
Dimethyl phthalate	mg/kg	0.015 U	0.061 U	0.059 U	0.073	0.23 U
Di-N-Butyl phthalate	mg/kg	0.019 U	0.077 U	0.074 U	0.19 J	0.3 U
Di-N-Octyl phthalate	mg/kg	0.013 U	0.055 U	0.053 U	0.011 U	0.21 U
Fluoranthene	mg/kg	0.0093 U	0.039 U	0.037 U	0.82	0.15 U
Fluorene	mg/kg	0.0053 U	0.022 U	0.021 U	0.020 J	0.084 U
Hexachlorobenzene	mg/kg	0.012 U	0.05 U	0.048 U	0.0098 U	0.19 U
Hexachlorobutadiene	mg/kg	0.008 U	0.033 U	0.032 U	0.0066 U	0.13 U
Hexachlorocyclopentadiene	mg/kg	0.012 U	0.05 U	0.048 U	0.0098 U	0.19 U
Hexachloroethane	mg/kg	0.012 U	0.05 U	0.048 U	0.0098 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.012 U	0.05 U	0.048 U	0.063 J	0.19 U
Isophorone	mg/kg	0.013 U	0.055 U	0.053 U	0.011 U	0.21 U
Naphthalene	mg/kg	0.0067 U	0.028 U	0.027 U	0.0055 U	0.11 U
Nitrobenzene	mg/kg	0.016 U	0.066 U	0.064 U	0.013 U	0.25 U
N-Nitrosodimethylamine	mg/kg	0.028 U	0.12 U	0.11 U	0.023 U	0.44 U
N-Nitrosodi-n-propylamine	mg/kg	0.016 U	0.066 U	0.064 U	0.013 U	0.25 U
N-Nitrosodiphenylamine	mg/kg	0.0093 U	0.039 U	0.037 U	0.0076 U	0.15 U

Table 4-1d
Analytical Results for Total SVOCs in Solid Samples
Ken's Metal Finishing Site Assessment
Minneapolis, Minnesota
March 19 and 20, 2008

	Sampling Date	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008
	Sample Matrix	Solid	Solid	Solid	Solid	Solid
	Sample ID	KMF - DM20	KMF - DM23	KMF - DM23 (DP)	KMF - S1	KMF - S2
	Location	Black Oxide	Polishing	Polishing Room	Basement	Basement
	Units	Room	Room		Storage	Storage
Total SVOCs						
Pentachlorophenol	mg/kg	0.025 U	0.1 U	0.1 U	0.021 U	0.4 U
Phenanthrene	mg/kg	0.011 U	0.044 U	0.043 U	0.35	0.17 U
Phenol	mg/kg	0.024 U	0.099 U	0.096 U	0.02 U	0.38 U
Pyrene	mg/kg	0.013 U	0.055 U	0.053 U	0.67	0.21 U
Pyridine	mg/kg	0.052 U	0.21 U	0.21 U	0.043 U	0.82 U

Notes:

DM - Drum

DP - Duplicate

J - Estimated value

KMF - Ken's Metal Finishing

mg/kg - Milligram per kilogram

S - Soil

SM - Small container

SVOC - Semivolatile organic compound

U – The analyte was not detected above the level of the value listed

Table 4-2a
Analytical Results for Characteristics of Hazardous Waste in Liquid Samples
Ken's Metal Finishing Site Assessment
Minneapolis, Minnesota
March 20, 2008

	Regulatory Criteria ¹	Sampling Date	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008
		Sample Matrix	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
		Sample ID	KMF - DM26	KMF - DM40	KMF - SM33	KMF - V1	KMF - V27	KMF - V3	KMF - V32
		Location	Polishing	Basement	Chemical	Plating	Black Oxide	Plating	Basement
		Units	Room	Storage	Storage Room	Room	Room	Room	Storage
General Waste									
Flashpoint	<140	°F	NA	NA	NA	NA	NA	NA	>140
pH	2<pH>12.5	SU	11	0	0	6	11	10	9
Reactive Cyanide	NL	mg/L	3,100	NA	NA	0 U	0 U	160	NA
Reactive Sulfide	NL	mg/L	10 U	NA	NA	10 U	1 U	10 U	NA
Cyanide	NL	mg/L	73,000	NA	NA	0	0	6,000	NA

Notes:

Shaded values exceed regulatory criteria.

¹ Characteristics of hazardous waste, Title 40 of the *Code of Federal Regulations* (CFR), Part 261.20-24

% - Percent

< - Less than

> - Greater than

°F- Degree Fahrenheit

DM - Drum

DP - Duplicate

KMF - Ken's Metal Finishing

mg/L - Milligram per liter

NA - Not analyzed

NL - Not listed

SM - Small container

SU - Standard units

U – The analyte was not detected above the level of the value listed

V – tank

Table 4-2b
Analytical Results for TCLP Metals in Liquid Samples
Ken's Metal Finishing Site Assessment
Minneapolis, Minnesota
March 2008

	Regulatory Criteria ¹	Sampling Date	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008	3/20/2008
		Sample Matrix	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
		Sample ID	KMF - DM26	KMF - DM40	KMF - SM33	KMF - V1	KMF - V27	KMF - V3
		Location	Polishing Room	Basement	Chemical	Plating Room	Black Oxide	Plating Room
		Units		Storage	Storage Room		Room	
TCLP Metals								
Arsenic	5	mg/L	2.6 J	56	0.03 U	0.03 U	1.9 J	0.3 J
Barium	100	mg/L	2.2 J	2.6 J	0.77 J	0.16 J	2.6 J	0.2 J
Cadmium	1	mg/L	1	33 J	17	0.0088 U	0.29 J	0.0088 U
Chromium	5	mg/L	6	5	11,000	0.22 J	20	0.026 J
Lead	5	mg/L	4.8 J	65 J	0.049 U	0.049 U	130	0.96 J
Selenium	1	mg/L	3	0.67 J	0.62 J	0.8 J	3	0.83 J
Silver	5	mg/L	0.48 J	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U
Mercury	0.2	mg/L	0.0014 J	0	0.00074 J	0.000064 U	0.000096 J	0.00008 U

Notes:

Shaded values exceed regulatory criteria.

¹ Maximum concentration of contaminants for the toxicity characteristic, Title 40 of the *Code of Federal Regulations* (CFR), Part 261.24

DM - Drum

J – Estimated value

KMF - Ken's Metal Finishing

mg/L - Milligram per liter

SM - Small container

TCLP - Toxicity characteristic leaching procedure

U – The analyte was not detected above the level of the value listed

V – tank

Table 4-2c
Analytical Results for Total SVOCs in Liquid Samples
Ken's Metal Finishing
Site Assessment
Minneapolis, Minnesota
March 2008

	Sampling Date	3/20/2008	KMF - DM40	KMF - SM33	KMF - V1	KMF - V27	KMF - V3
	Sample Matrix	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
	Sample ID	KMF - DM26	KMF - DM40	KMF - SM33	KMF - V1	KMF - V27	KMF - V3
	Location	Polishing Room	Basement Storage	Chemical Storage Room	Plating Room	Black Oxide Room	Plating Room
	Units						
Total SVOCs							
1,2,4-Trichlorobenzene	µg/L	3,000 UJ	3,000 U	3,000 U	3,000 U	3,000 U	3,000 U
1,2-Dichlorobenzene	µg/L	2,400 UJ	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
1,2-Diphenylhydrazine	µg/L	3,400 UJ	3,400 U	3,400 U	3,400 U	3,400 U	3,400 U
1,3-Dichlorobenzene	µg/L	2,700 UJ	2,700 U	2,700 U	2,700 U	2,700 U	2,700 U
1,4-Dichlorobenzene	µg/L	2,600 UJ	2,600 U	2,600 U	2,600 U	2,600 U	2,600 U
2,4,5-Trichlorophenol	µg/L	1,400 UJ	1,400 U	1,400 U	1,400 U	1,400 U	1,400 U
2,4,6-Trichlorophenol	µg/L	2,000 UJ	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
2,4-Dichlorophenol	µg/L	2,500 UJ	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U
2,4-Dimethylphenol	µg/L	3,600 UJ	3,600 U	3,600 U	3,600 U	3,600 U	3,600 U
2,4-Dinitrophenol	µg/L	8,600 UJ	8,600 U	8,600 U	8,600 U	8,600 U	8,600 U
2,4-Dinitrotoluene	µg/L	1,800 UJ	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U
2,6-Dinitrotoluene	µg/L	5,300 UJ	5,300 U	5,300 U	5,300 U	5,300 U	5,300 U
2-Chloronaphthalene	µg/L	2,700 UJ	2,700 U	2,700 U	2,700 U	2,700 U	2,700 U
2-Chlorophenol	µg/L	5,700 UJ	5,700 U	5,700 U	5,700 U	5,700 U	5,700 U
2-Methylnaphthalene	µg/L	3,500 UJ	3,500 U	3,500 U	3,500 U	3,500 U	3,500 U
2-Methylphenol	µg/L	22,000 UJ	22,000 U	22,000 U	22,000 U	22,000 U	22,000 U
2-Nitroaniline	µg/L	4,200 UJ	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
2-Nitrophenol	µg/L	4,900 UJ	4,900 U	4,900 U	4,900 U	4,900 U	4,900 U
3,3-Dichlorobenzidine	µg/L	4,900 UJ	4,900 U	4,900 U	4,900 U	4,900 U	4,900 U
3-/4-Methylphenol	µg/L	2,500 UJ	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U
3-Nitroaniline	µg/L	6,000 UJ	6,000 U	6,000 U	6,000 U	6,000 U	6,000 U
4,6-Dinitro-2-methylphenol	µg/L	6,300 UJ	6,300 U	6,300 U	6,300 U	6,300 U	6,300 U
4-Bromophenyl phenyl ether	µg/L	2,200 UJ	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
4-Chloro-3-methylphenol	µg/L	2,100 UJ	2,100 U	2,100 U	2,100 U	2,100 U	2,100 U
4-Chloroaniline	µg/L	5,300 UJ	5,300 U	5,300 U	5,300 U	5,300 U	5,300 U
4-Chlorophenyl phenyl ether	µg/L	2,200 UJ	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U
4-Nitroaniline	µg/L	3,000 UJ	3,000 U	3,000 U	3,000 U	3,000 U	3,000 U

Table 4-2c
Analytical Results for Total SVOCs in Liquid Samples
Ken's Metal Finishing
Site Assessment
Minneapolis, Minnesota
March 2008

	Sampling Date	3/20/2008	KMF - DM40	KMF - SM33	KMF - V1	KMF - V27	KMF - V3
	Sample Matrix	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
	Sample ID	KMF - DM26	KMF - DM40	KMF - SM33	KMF - V1	KMF - V27	KMF - V3
	Location	Polishing	Basement	Chemical	Plating	Black Oxide	Plating Room
	Units	Room	Storage	Storage Room	Room	Room	
Total SVOCs							
4-Nitrophenol	µg/L	7,400 UJ	7,400 U	7,400 U	7,400 U	7,400 U	7,400 U
Acenaphthene	µg/L	2,300 UJ	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
Acenaphthylene	µg/L	1,700 UJ	1,700 U	1,700 U	1,700 U	1,700 U	1,700 U
Aniline	µg/L	7,900 UJ	7,900 U	7,900 U	7,900 U	7,900 U	7,900 U
Anthracene	µg/L	1,900 UJ	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
Benzo(a)anthracene	µg/L	6,400 UJ	6,400 U	6,400 U	6,400 U	6,400 U	6,400 U
Benzo(a)pyrene	µg/L	7,000 UJ	7,000 U	7,000 U	7,000 U	7,000 U	7,000 U
Benzo(b)fluoranthene	µg/L	3,800 UJ	3,800 U	3,800 U	3,800 U	3,800 U	3,800 U
Benzo(g,h,i)perylene	µg/L	6,000 UJ	6,000 U	6,000 U	6,000 U	6,000 U	6,000 U
Benzo(k)fluoranthene	µg/L	6,700 UJ	6,700 U	6,700 U	6,700 U	6,700 U	6,700 U
Benzyl alcohol	µg/L	2,900 UJ	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U
bis(2-Chloroethoxy)methane	µg/L	3,000 UJ	3,000 U	3,000 U	3,000 U	3,000 U	3,000 U
bis(2-Chloroethyl)ether	µg/L	3,700 UJ	3,700 U	3,700 U	3,700 U	3,700 U	3,700 U
bis(2-Chloroisopropyl)ether	µg/L	2,900 UJ	2,900 U	2,900 U	2,900 U	2,900 U	2,900 U
bis(2-Ethylhexyl)phthalate	µg/L	14,000 UJ	14,000 U	14,000 U	14,000 U	14,000 U	14,000 U
Butyl benzyl phthalate	µg/L	2,800 UJ	2,800 U	2,800 U	2,800 U	2,800 U	2,800 U
Carbazole	µg/L	3,100 UJ	3,100 U	3,100 U	3,100 U	3,100 U	3,100 U
Chrysene	µg/L	6,300 UJ	6,300 U	6,300 U	6,300 U	6,300 U	6,300 U
Dibenz(a,h)anthracene	µg/L	7,100 UJ	7,100 U	7,100 U	7,100 U	7,100 U	7,100 U
Dibenzofuran	µg/L	2,400 UJ	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
Diethylphthalate	µg/L	2,700 UJ	2,700 U	2,700 U	2,700 U	2,700 U	2,700 U
Dimethyl phthalate	µg/L	1,900 UJ	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
Di-N-Butyl phthalate	µg/L	4,200 UJ	4,200 U	4,200 U	4,200 U	4,200 U	4,200 U
Di-N-Octyl phthalate	µg/L	7,200 UJ	7,200 U	7,200 U	7,200 U	7,200 U	7,200 U
Fluoranthene	µg/L	2,300 UJ	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
Fluorene	µg/L	4,100 UJ	4,100 U	4,100 U	4,100 U	4,100 U	4,100 U
Hexachlorobenzene	µg/L	2,200 UJ	2,200 U	2,200 U	2,200 U	2,200 U	2,200 U

Table 4-2c
Analytical Results for Total SVOCs in Liquid Samples
Ken's Metal Finishing
Site Assessment
Minneapolis, Minnesota
March 2008

	Sampling Date	3/20/2008	KMF - DM40	KMF - SM33	KMF - V1	KMF - V27	KMF - V3
	Sample Matrix	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
	Sample ID	KMF - DM26	KMF - DM40	KMF - SM33	KMF - V1	KMF - V27	KMF - V3
	Location	Polishing	Basement	Chemical	Plating	Black Oxide	Plating Room
	Units	Room	Storage	Storage Room	Room	Room	
Total SVOCs							
Hexachlorobutadiene	µg/L	2,800 UJ	2,800 U	2,800 U	2,800 U	2,800 U	2,800 U
Hexachlorocyclopentadiene	µg/L	2,500 UJ	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U
Hexachloroethane	µg/L	3,200 UJ	3,200 U	3,200 U	3,200 U	3,200 U	3,200 U
Indeno(1,2,3-cd)pyrene	µg/L	7,000 UJ	7,000 U	7,000 U	7,000 U	7,000 U	7,000 U
Isophorone	µg/L	1,900 UJ	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
Naphthalene	µg/L	2,800 UJ	2,800 U	2,800 U	2,800 U	2,800 U	2,800 U
Nitrobenzene	µg/L	2,400 UJ	2,400 U	2,400 U	2,400 U	2,400 U	2,400 U
N-Nitrosodimethylamine	µg/L	2,300 UJ	2,300 U	2,300 U	2,300 U	2,300 U	2,300 U
N-Nitrosodi-n-propylamine	µg/L	2,800 UJ	2,800 U	2,800 U	2,800 U	2,800 U	2,800 U
N-Nitrosodiphenylamine	µg/L	2,800 UJ	2,800 U	2,800 U	2,800 U	2,800 U	2,800 U
Pentachlorophenol	µg/L	4,900 UJ	4,900 U	4,900 U	4,900 U	4,900 U	4,900 U
Phenanthrene	µg/L	1,900 UJ	1,900 U	1,900 U	1,900 U	1,900 U	1,900 U
Phenol	µg/L	19,000 UJ	19,000 U	19,000 U	19,000 U	19,000 U	19,000 U
Pyrene	µg/L	4,500 UJ	4,500 U	4,500 U	4,500 U	4,500 U	4,500 U
Pyridine	µg/L	22,000 UJ	22,000 U	22,000 U	22,000 U	22,000 U	22,000 U

Notes:

µg/L - Microgram per liter

DM - Drum

J - Estimated value

KMF - Ken's Metal Finishing

SM - Small container

SVOC - Sem-volatile organic compounds

U – The analyte was not detected above the level of the value listed

UJ - The analyte was not detected above the reporting limit listed; however, the reporting limit is

V – tank

Table 4-2d
Analytical Results for PCBs in Liquid Samples
Ken's Metal Finishing Site Assessment
Minneapolis, Minnesota
March 2008

	Sampling Date	3/20/2008
	Sample Matrix	Liquid
	Sample ID	KMF - V32
	Location	Basement Storage
	Units	
PCBs		
PCB 1016	µg/L	0.17 U
PCB 1221	µg/L	0.17 U
PCB 1232	µg/L	0.17 U
PCB 1242	µg/L	0.17 U
PCB 1248	µg/L	0.17 U
PCB 1254	µg/L	0.086 U
PCB 1260	µg/L	0.086 U
PCB 1268	µg/L	0.086 U

Notes:

µg/L - Microgram per liter

KMF - Ken's Metal Finishing

PCB - Polychlorinated biphenyl

U – The analyte was not detected above the level of the value listed

V – tank

Table 4-3a
Analytical Results for pH and TCLP Metals in the Oil Sample
Ken's Metal Finishing Site Assessment
Minneapolis, Minnesota
March 19 and 20, 2008

	Regulatory Criteria ¹	Sampling Date	3/20/2008
		Sample Matrix	Oil
		Sample ID	KMF - SM32
		Location	Basement Storage
		Units	
TCLP Metals			
% Solids	NL	%	65
Arsenic, TCLP	5	mg/L	0.006 U
Barium, TCLP	100	mg/L	0.22 J
Cadmium, TCLP	1	mg/L	0.019 J
Chromium, TCLP	5	mg/L	0.36 J
Lead, TCLP	5	mg/L	0.18 J
Selenium, TCLP	1	mg/L	0.021 J
Silver, TCLP	5	mg/L	0.0096 J
Mercury, TCLP	0.2	mg/L	0.0049 J
pH	2<pH>12.5	SU	4.2

Notes:

¹ Characteristics of hazardous waste, Title 40 of the *Code of Federal Regulations* (CFR), Part 261.20-24

J – Estimated value

KMF - Ken's Metal Finishing

mg/L - Milligram per liter

NL - Not listed

SM - Small container

TCLP - Toxicity characteristic leaching procedure

U – The analyte was not detected above the level of the value listed

Table 4-3b
Analytical Results for Total SVOCs in the Oil Sample
Ken's Metal Finishing Site Assessment
Minneapolis, Minnesota
March 19 and 20, 2008

	Sampling Date	3/20/2008
	Sample Matrix	Oil
	Sample ID	KMF - SM32
	Location	Basement
	Units	Storage
Total SVOCs		
1,2,4-Trichlorobenzene	mg/kg	4.1 U
1,2-Dichlorobenzene	mg/kg	2.1 U
1,2-Diphenylhydrazine	mg/kg	2.5 U
1,3-Dichlorobenzene	mg/kg	3.3 U
1,4-Dichlorobenzene	mg/kg	4.1 U
2,4,5-Trichlorophenol	mg/kg	7.8 U
2,4,6-Trichlorophenol	mg/kg	7 U
2,4-Dichlorophenol	mg/kg	7.8 U
2,4-Dimethylphenol	mg/kg	24 U
2,4-Dinitrophenol	mg/kg	7.4 U
2,4-Dinitrotoluene	mg/kg	2.9 U
2,6-Dinitrotoluene	mg/kg	2.5 U
2-Chloronaphthalene	mg/kg	2.9 U
2-Chlorophenol	mg/kg	7.4 U
2-Methylnaphthalene	mg/kg	9.5 U
2-Methylphenol	mg/kg	7 U
2-Nitroaniline	mg/kg	7.4 U
2-Nitrophenol	mg/kg	7.8 U
3,3-Dichlorobenzidine	mg/kg	7 U
3-/4-Methylphenol	mg/kg	8.7 U
3-Nitroaniline	mg/kg	7.4 U
4,6-Dinitro-2-methylphenol	mg/kg	4.1 U
4-Bromophenyl phenyl ether	mg/kg	4.1 U
4-Chloro-3-methylphenol	mg/kg	9.1 U
4-Chloroaniline	mg/kg	7.4 U
4-Chlorophenyl phenyl ether	mg/kg	4.5 U
4-Nitroaniline	mg/kg	6.2 U
4-Nitrophenol	mg/kg	8.7 U
Acenaphthene	mg/kg	4.1 U
Acenaphthylene	mg/kg	2.9 U
Aniline	mg/kg	17 U
Anthracene	mg/kg	4.1 U
Benzo(a)anthracene	mg/kg	4.1 U
Benzo(a)pyrene	mg/kg	3.3 U
Benzo(b)fluoranthene	mg/kg	7 U
Benzo(g,h,i)perylene	mg/kg	2.5 U
Benzo(k)fluoranthene	mg/kg	5.8 U
Benzyl alcohol	mg/kg	11 U

Table 4-3b
Analytical Results for Total SVOCs in the Oil Sample
Ken's Metal Finishing Site Assessment
Minneapolis, Minnesota
March 19 and 20, 2008

	Sampling Date	3/20/2008
	Sample Matrix	Oil
	Sample ID	KMF - SM32
	Location	Basement
	Units	Storage
Total SVOCs		
bis(2-Chloroethoxy)methane	mg/kg	4.5 U
bis(2-Chloroethyl)ether	mg/kg	5 U
bis(2-Chloroisopropyl)ether	mg/kg	5.8 U
bis(2-Ethylhexyl)phthalate	mg/kg	3.7 U
Butyl benzyl phthalate	mg/kg	3.3 U
Carbazole	mg/kg	6.2 U
Chrysene	mg/kg	4.1 U
Dibenz(a,h)anthracene	mg/kg	8.7 U
Dibenzofuran	mg/kg	5.4 U
Diethylphthalate	mg/kg	4.5 U
Dimethyl phthalate	mg/kg	4.5 U
Di-N-Butyl phthalate	mg/kg	5.8 U
Di-N-Octyl phthalate	mg/kg	4.1 U
Fluoranthene	mg/kg	2.9 U
Fluorene	mg/kg	1.7 U
Hexachlorobenzene	mg/kg	3.7 U
Hexachlorobutadiene	mg/kg	2.5 U
Hexachlorocyclopentadiene	mg/kg	3.7 U
Hexachloroethane	mg/kg	3.7 U
Indeno(1,2,3-cd)pyrene	mg/kg	3.7 U
Isophorone	mg/kg	4.1 U
Naphthalene	mg/kg	2.1 U
Nitrobenzene	mg/kg	5 U
N-Nitrosodimethylamine	mg/kg	8.7 U
N-Nitrosodi-n-propylamine	mg/kg	5 U
N-Nitrosodiphenylamine	mg/kg	2.9 U
Pentachlorophenol	mg/kg	7.8 U
Phenanthrene	mg/kg	3.3 U
Phenol	mg/kg	7.4 U
Pyrene	mg/kg	4.1 U
Pyridine	mg/kg	16 U

Notes:

KMF - Ken's Metal Finishing

mg/kg - Milligram per kilogram

SM - Small container

SVOC - Semivolatile organic compound

U – The analyte was not detected above the level of the value listed