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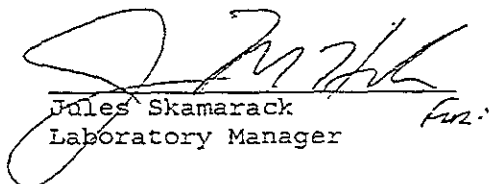
Date: 09/02/1993
NET Client Acct. No: 21200
NET Pacific Job No: 93.03649
Received: 08/20/1993

Client Reference Information

Cush-Wake PSA, Project: 93-44-395-01

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:


Jules Skamarack
Laboratory Manager *fun:*

Enclosure(s)

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Client Acct: 21200
 Client Name: Converse Consultants
 NET Job No: 93.03649

Date: 09/02/1993
 ELAP Certificate: 1386
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Ref: Cush-Wake PSA, Project: 93-44-395-01

SAMPLE DESCRIPTION: S-1
 Date Taken: 08/20/1993
 Time Taken: 08:30
 NET Sample No: 171371

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	119.000		50	mg/kg	5520E	08/24/1993	08/23/1993
Oil & Grease (Non-Polar)	95.000		50	mg/kg	5520E/F	08/24/1993	08/23/1993
ICP METALS SOLID							
Antimony (ICP)	ND		10	mg/kg	EPA 6010	08/24/1993	08/25/1993
Arsenic (GFAA)	3.3		0.5	mg/kg	EPA 7060	08/26/1993	08/31/1993
Barium (ICP)	150		2.0	mg/kg	EPA 6010	08/24/1993	08/25/1993
Beryllium (ICP)	ND		2.0	mg/kg	EPA 6010	08/24/1993	08/25/1993
Cadmium (ICP)	ND		2.0	mg/kg	EPA 6010	08/24/1993	08/25/1993
Chromium (ICP)	62		2.0	mg/kg	EPA 6010	08/24/1993	08/25/1993
Chromium+6 (FLAA)	NA		2.0	mg/kg	EPA 7197		
Cobalt (ICP)	21		5.0	mg/kg	EPA 6010	08/24/1993	08/25/1993
Copper (ICP)	250 570		2.0	mg/kg	EPA 6010	08/24/1993	08/25/1993
Lead (GFAA)	72		0.2	mg/kg	EPA 7421	08/26/1993	08/27/1993
Mercury (CVAA)	ND		0.1	mg/kg	EPA 7471	08/31/1993	09/01/1993
Molybdenum (ICP)	ND		5.0	mg/kg	EPA 6010	08/24/1993	08/25/1993
Nickel (ICP)	220		5.0	mg/kg	EPA 6010	08/24/1993	08/25/1993
Selenium (GFAA)	ND		0.5	mg/kg	EPA 7740	08/26/1993	09/01/1993
Silver (ICP)	ND		2.0	mg/kg	EPA 6010	08/24/1993	08/25/1993
Thallium (ICP)	ND		20	mg/kg	EPA 6010	08/24/1993	08/25/1993
Vanadium (ICP)	40		5.0	mg/kg	EPA 6010	08/24/1993	08/25/1993
Zinc (ICP)	170		5.0	mg/kg	EPA 6010	08/24/1993	08/30/1993
ICP METALS WET							
Antimony (ICP, WET)	ND		1.0	mg/L	EPA 6010	08/28/1993	09/01/1993
Arsenic (GFAA, WET)	0.23		0.02	mg/L	EPA 7060	08/28/1993	08/31/1993
Barium (ICP, WET)	6.7		0.1	mg/L	EPA 6010	08/28/1993	09/01/1993
Beryllium (ICP, WET)	ND		0.1	mg/L	EPA 6010	08/28/1993	08/31/1993
Cadmium (ICP, WET)	ND		0.1	mg/L	EPA 6010	08/28/1993	09/01/1993
Chromium (ICP, WET)	1.2		0.1	mg/L	EPA 6010	08/28/1993	08/31/1993
Chromium+6 (FLAA, WET)	NA		0.02	mg/L	EPA 7197		
Cobalt (ICP, WET)	0.94		0.1	mg/L	EPA 6010	08/28/1993	08/31/1993
Copper (ICP, WET)	0.16		0.1	mg/L	EPA 6010	08/28/1993	08/31/1993
Lead (GFAA, WET)	4.1	N-I	0.01	mg/L	EPA 7421	08/28/1993	08/30/1993
Mercury (CVAA, WET)	0.011		0.005	mg/L	EPA 7470	08/30/1993	09/01/1993
Molybdenum (ICP, WET)	ND		0.1	mg/L	EPA 6010	08/28/1993	08/31/1993
Nickel (ICP, WET)	6.0		0.1	mg/L	EPA 6010	08/28/1993	08/31/1993
Selenium (GFAA, WET)	ND		0.02	mg/L	EPA 7740	08/28/1993	09/01/1993
Silver (ICP, WET)	ND		0.1	mg/L	EPA 6010	08/28/1993	08/31/1993
Thallium (ICP, WET)	ND		1.0	mg/L	EPA 6010	08/28/1993	08/31/1993
Vanadium (ICP, WET)	1.4		0.1	mg/L	EPA 6010	08/28/1993	08/31/1993
Zinc (ICP, WET)	4.6		0.1	mg/L	EPA 6010	08/28/1993	08/30/1993

N-I : Sample spike outside of QC Limits.



Ref: Cush-Wake PSA, Project: 93-44-395-01

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials
	Standard Amount ‡ Recovery	Standard Amount Found	Standard Amount Expected			
ICP METALS SOLID		--			08/25/1993	jeo
Antimony (ICP)	97.7	0.977	1.00	mg/kg	08/25/1993	jeo
Arsenic (GFAA)	102.7	0.05135	0.0500	mg/kg	08/31/1993	djm
Barium (ICP)	97.4	0.974	1.00	mg/kg	08/25/1993	jeo
Beryllium (ICP)	96.0	0.960	1.00	mg/kg	08/25/1993	jeo
Cadmium (ICP)	97.2	0.972	1.00	mg/kg	08/25/1993	jeo
Chromium (ICP)	97.6	0.976	1.00	mg/kg	08/25/1993	jeo
Chromium+6 (FLAA)	97.8	0.272	0.278	mg/kg	08/17/1993	ket
Cobalt (ICP)	97.7	0.977	1.00	mg/kg	08/25/1993	jeo
Copper (ICP)	98.7	0.987	1.00	mg/kg	08/25/1993	jeo
Lead (GFAA)	104.8	0.0262	0.0250	mg/kg	08/27/1993	djm
Mercury (CVAA)	114.0	0.00456	0.00400	mg/kg	08/20/1993	ket
Molybdenum (ICP)	100.9	1.009	1.00	mg/kg	08/25/1993	jeo
Nickel (ICP)	98.9	0.989	1.00	mg/kg	08/25/1993	jeo
Selenium (GFAA)	101.0	0.02526	0.0250	mg/kg	09/01/1993	djm
Silver (ICP)	95.8	0.958	1.00	mg/kg	08/25/1993	jeo
Thallium (ICP)	97.9	0.979	1.00	mg/kg	08/25/1993	jeo
Vanadium (ICP)	97.7	0.977	1.00	mg/kg	08/25/1993	jeo
ICP METALS WET		--			08/11/1993	jeo
Arsenic (GFAA, WET)	102.7	0.05135	0.0500	mg/L	08/31/1993	djm
Barium (ICP, WET)	102.2	1.022	1.00	mg/L	08/11/1993	jeo
Beryllium (ICP, WET)	101.2	1.012	1.00	mg/L	08/11/1993	jeo
Cadmium (ICP, WET)	101.3	1.013	1.00	mg/L	08/11/1993	jeo
Chromium (ICP, WET)	101.8	1.018	1.00	mg/L	08/11/1993	jeo
Cobalt (ICP, WET)	101.5	1.015	1.00	mg/L	08/11/1993	jeo
Copper (ICP, WET)	100.7	1.007	1.00	mg/L	08/11/1993	jeo
Lead (GFAA, WET)	105.2	0.02629	0.0250	mg/L	08/30/1993	ket
Mercury (CVAA, WET)	110.0	0.0044	0.00400	mg/L	08/09/1993	ket
Molybdenum (ICP, WET)	104.4	1.044	1.00	mg/L	08/11/1993	jeo
Nickel (ICP, WET)	101.6	1.016	1.00	mg/L	08/11/1993	jeo
Selenium (GFAA, WET)	101.0	0.02526	0.0250	mg/L	09/01/1993	djm
Silver (ICP, WET)	99.0	0.990	1.00	mg/L	08/11/1993	jeo
Thallium (ICP, WET)	101.8	1.018	1.00	mg/L	08/11/1993	jeo
Vanadium (ICP, WET)	101.5	1.015	1.00	mg/L	08/11/1993	jeo
Zinc (ICP, WET)	104.1	1.041	1.00	mg/L	08/30/1993	jeo



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METHOD BLANK REPORT

Parameter	Method			Date Analyzed	Analyst Initials
	Blank Amount Found	Reporting Limit	Units		
Oil & Grease (Total)	ND	50	mg/kg	08/23/1993	ket
Oil & Grease (Non-Polar)	ND	50	mg/kg	08/23/1993	ket
Arsenic (GFAA)	ND	0.5	mg/kg	08/31/1993	djm
Barium (ICP)	ND	2.0	mg/kg	08/25/1993	jeo
Beryllium (ICP)	ND	2.0	mg/kg	08/25/1993	jeo
Cadmium (ICP)	ND	2.0	mg/kg	08/25/1993	jeo
Chromium (ICP)	ND	2.0	mg/kg	08/25/1993	jeo
Chromium+6 (FLAA)	ND	2.0	mg/kg	08/17/1993	ket
Cobalt (ICP)	ND	5.0	mg/kg	08/25/1993	jeo
Copper (ICP)	ND	2.0	mg/kg	08/25/1993	jeo
Lead (GFAA)	ND	0.2	mg/kg	08/27/1993	djm
Molybdenum (ICP)	ND	5.0	mg/kg	08/25/1993	jeo
Nickel (ICP)	ND	5.0	mg/kg	08/25/1993	jeo
Selenium (GFAA)	ND	0.5	mg/kg	09/01/1993	djm
Silver (ICP)	ND	2.0	mg/kg	08/25/1993	jeo
Thallium (ICP)	ND	20	mg/kg	08/25/1993	jeo
Vanadium (ICP)	ND	5.0	mg/kg	08/25/1993	jeo
Zinc (ICP)	ND	5.0	mg/kg	08/25/1993	jeo
Antimony (ICP, WET)	ND	1.0	mg/L	09/01/1993	jeo
Arsenic (GFAA, WET)	ND	0.02	mg/L	08/31/1993	djm
Barium (ICP, WET)	ND	0.1	mg/L	08/31/1993	jeo
Beryllium (ICP, WET)	ND	0.1	mg/L	08/31/1993	jeo
Cadmium (ICP, WET)	ND	0.1	mg/L	08/31/1993	jeo
Chromium (ICP, WET)	ND	0.1	mg/L	08/31/1993	jeo
Cobalt (ICP, WET)	ND	0.1	mg/L	08/31/1993	jeo
Copper (ICP, WET)	ND	0.1	mg/L	08/31/1993	jeo
Lead (GFAA, WET)	ND	0.01	mg/L	08/30/1993	ket
Molybdenum (ICP, WET)	ND	0.1	mg/L	08/31/1993	jeo
Nickel (ICP, WET)	ND	0.1	mg/L	08/31/1993	jeo
Selenium (GFAA, WET)	ND	0.02	mg/L	09/01/1993	djm
Silver (ICP, WET)	ND	0.1	mg/L	08/31/1993	jeo
Thallium (ICP, WET)	ND	1.0	mg/L	08/31/1993	jeo
Vanadium (ICP, WET)	ND	0.1	mg/L	08/31/1993	jeo
Zinc (ICP, WET)	ND	0.1	mg/L	08/30/1993	jeo



Ref: Cush-Wake PSA, Project: 93-44-395-01

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike		Units	Date Analyzed	Analyst Initials
	% Rec.	% Rec.	RPD			Spike Conc.	Dup. Conc.			
Oil & Grease (Non-Polar)	73.4	108.7	38.7	1967	ND	1443	2731	mg/kg	08/23/1993	ket
Antimony (ICP)	88.0	94.0	6.6	1000	ND	880	940	mg/kg	08/31/1993	jeo
Arsenic (GFAA)	92.00	98.00	6.3	5.0	8.5			mg/kg	08/31/1993	djm
Barium (ICP)	111.1	108.0	2.8	100	ND	111	108	mg/kg	08/31/1993	jeo
Beryllium (ICP)	102.6	102.7	0.1	100	ND	103	103	mg/kg	08/31/1993	jeo
Cadmium (ICP)	95.2	93.8	1.5	100	ND	95.2	93.8	mg/kg	08/25/1993	jeo
Chromium (ICP)	97.6	97.8	0.2	100	27	124.6	124.8	mg/kg	08/25/1993	jeo
Chromium+6 (FLAA)	82.0	88.0	7.1	46.7	ND	38.3	41.1	mg/kg	08/17/1993	ket
Cobalt (ICP)	93.6	94.9	1.4	100	ND	93.6	94.9	mg/kg	08/31/1993	jeo
Copper (ICP)	90.2	89.7	0.6	100	34.6	124.8	124.3	mg/kg	08/25/1993	jeo
Lead (GFAA)	84.00	92.00	9.1	2.50	320			mg/kg	08/27/1993	djm
Molybdenum (ICP)	89.9	95.0	5.5	100	ND	89.9	95.0	mg/kg	08/31/1993	jeo
Nickel (ICP)	102.0	100.1	1.9	100	ND	102.0	100.1	mg/kg	08/31/1993	jeo
Selenium (GFAA)	97.00	91.00	6.4	2.50	0.7			mg/kg	09/01/1993	djm
Silver (ICP)	80.4	81.4	1.2	100	ND	80.4	81.4	mg/kg	08/31/1993	jeo
Thallium (ICP)	77.9	82.0	5.1	100	ND	77.9	82.0	mg/kg	08/31/1993	jeo
Vanadium (ICP)	91.1	91.8	0.8	100	5.1	96.6	97.3	mg/kg	08/31/1993	jeo
Zinc (ICP)	101.7	99.5	2.1	100	74	175.7	173.5	mg/kg	08/25/1993	jeo
ICP METALS WET										
Antimony (ICP, WET)	80.5	88.2	9.1	50.0	ND	40.2	44.1	mg/L	09/01/1993	jeo
Arsenic (GFAA, WET)	80.7	73.0	10.0	0.2500	0.23	0.43165	0.41245	mg/L	08/31/1993	kjm
Barium (ICP, WET)	90.0	100.0	10.5	5.00	ND	4.50	5.00	mg/L	08/31/1993	jeo
Beryllium (ICP, WET)	93.2	95.1	2.1	5.00	ND	4.66	4.76	mg/L	08/31/1993	jeo
Cadmium (ICP, WET)	89.9	93.0	3.4	5.00	ND	4.50	4.65	mg/L	08/31/1993	jeo
Chromium (ICP, WET)	102.0	105.0	2.9	5.00	0.23	5.10	5.25	mg/L	08/31/1993	jeo
Cobalt (ICP, WET)	96.5	97.7	1.2	5.00	0.84	4.82	4.88	mg/L	08/31/1993	jeo
Copper (ICP, WET)	80.0	77.7	2.9	5.00	0.64	4.00	3.88	mg/L	08/31/1993	jeo
Lead (GFAA, WET)	N/A	N/A	0.0	0.125	4.1			mg/L	08/30/1993	ket
Molybdenum (ICP, WET)	82.1	79.9	2.7	5.00	ND	4.10	4.00	mg/L	08/31/1993	jeo
Nickel (ICP, WET)	83.1	83.2	0.41	5.00	1.2	5.16	5.16	mg/L	08/31/1993	jeo
Selenium (GFAA, WET)	100.00	102.00	2.0	0.125	ND			mg/L	05/02/1993	djm
Silver (ICP, WET)	88.0	85.1	3.4	5.00	ND	4.40	4.26	mg/L	08/31/1993	jeo
Thallium (ICP, WET)	75.0	80.0	6.5	50.0	ND	37.5	40.0	mg/L	08/31/1993	jeo
Vanadium (ICP, WET)	91.1	89.0	2.3	5.00	0.77	4.55	4.45	mg/L	08/31/1993	jeo
Zinc (ICP, WET)	108.00	112.00	3.6	5.00	1.3	6.70	6.90	mg/L	08/30/1993	jeo



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LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS		LCS	LCS	Units	Date Analyzed	Analyst Initials
	‡ Recovery	RPD	Amount Found	Amount Expected			
Oil & Grease (Total)	99.0		2188	2210	mg/kg	08/23/1993	ket
Oil & Grease (Non-Polar)	87.3		2442	2798	mg/kg	08/23/1993	ket
Antimony (ICP)	93.5		935	1000	mg/kg	08/25/1993	jeo
Arsenic (GFAA)	86.5		4.273	5.00	mg/kg	08/31/1993	djm
Barium (ICP)	100.4		100.4	100	mg/kg	08/25/1993	jeo
Beryllium (ICP)	104.3		104.3	100	mg/kg	08/25/1993	jeo
Cadmium (ICP)	98.4		98.4	100	mg/kg	08/25/1993	jeo
Chromium (ICP)	97.0		97.0	100	mg/kg	08/25/1993	jeo
Chromium+6 (PLAA)	87.8		35.1	40.0	mg/kg	08/17/1993	ket
Cobalt (ICP)	95.9		95.9	100	mg/kg	08/25/1993	jeo
Copper (ICP)	95.2		95.2	100	mg/kg	08/25/1993	jeo
Lead (GFAA)	96.8		2.42	2.50	mg/kg	08/27/1993	djm
Molybdenum (ICP)	97.1		97.1	100	mg/kg	08/25/1993	jeo
Nickel (ICP)	98.9		98.9	100	mg/kg	08/25/1993	jeo
Selenium (GFAA)	86.5		4.326	5.00	mg/kg	09/01/1993	djm
Silver (ICP)	90.2		90.2	100	mg/kg	08/25/1993	jeo
Thallium (ICP)	97.5		975	1000	mg/kg	08/25/1993	jeo
Vanadium (ICP)	98.8		98.8	100	mg/kg	08/25/1993	jeo
Zinc (ICP)	92.2		92.2	100	mg/kg	08/25/1993	jeo
Antimony (ICP, WET)	81.0		8.1	10.0	mg/L	09/01/1993	jeo
Arsenic (GFAA, WET)	84.9		0.04243	0.0500	mg/L	08/31/1993	djm
Barium (ICP, WET)	92.0		0.920	1.00	mg/L	08/31/1993	jeo
Beryllium (ICP, WET)	95.1		0.951	1.00	mg/L	08/31/1993	jeo
Cadmium (ICP, WET)	93.3		0.933	1.00	mg/L	08/31/1993	jeo
Chromium (ICP, WET)	93.0		0.930	1.00	mg/L	08/31/1993	jeo
Cobalt (ICP, WET)	95.2		0.952	1.00	mg/L	08/31/1993	jeo
Copper (ICP, WET)	99.0		0.999	1.00	mg/L	08/31/1993	jeo
Lead (GFAA, WET)	75.8		0.01895	0.025	mg/L	08/30/1993	ket
Molybdenum (ICP, WET)	102.0		1.02	1.00	mg/L	08/31/1993	jeo
Nickel (ICP, WET)	97.7		0.977	1.00	mg/L	08/31/1993	jeo
Selenium (GFAA, WET)	83.5		0.04174	0.0500	mg/L	09/01/1993	djm
Silver (ICP, WET)	92.5		0.925	1.00	mg/L	08/31/1993	jeo
Thallium (ICP, WET)	80.0		8.00	1.00	mg/L	08/31/1993	jeo
Vanadium (ICP, WET)	88.9		0.889	1.00	mg/L	08/31/1993	jeo
Zinc (ICP, WET)	103.7		1.037	1.00	mg/L	08/30/1993	jeo



KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \{ \text{Value 1} - \text{Value 2} \} / \text{mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

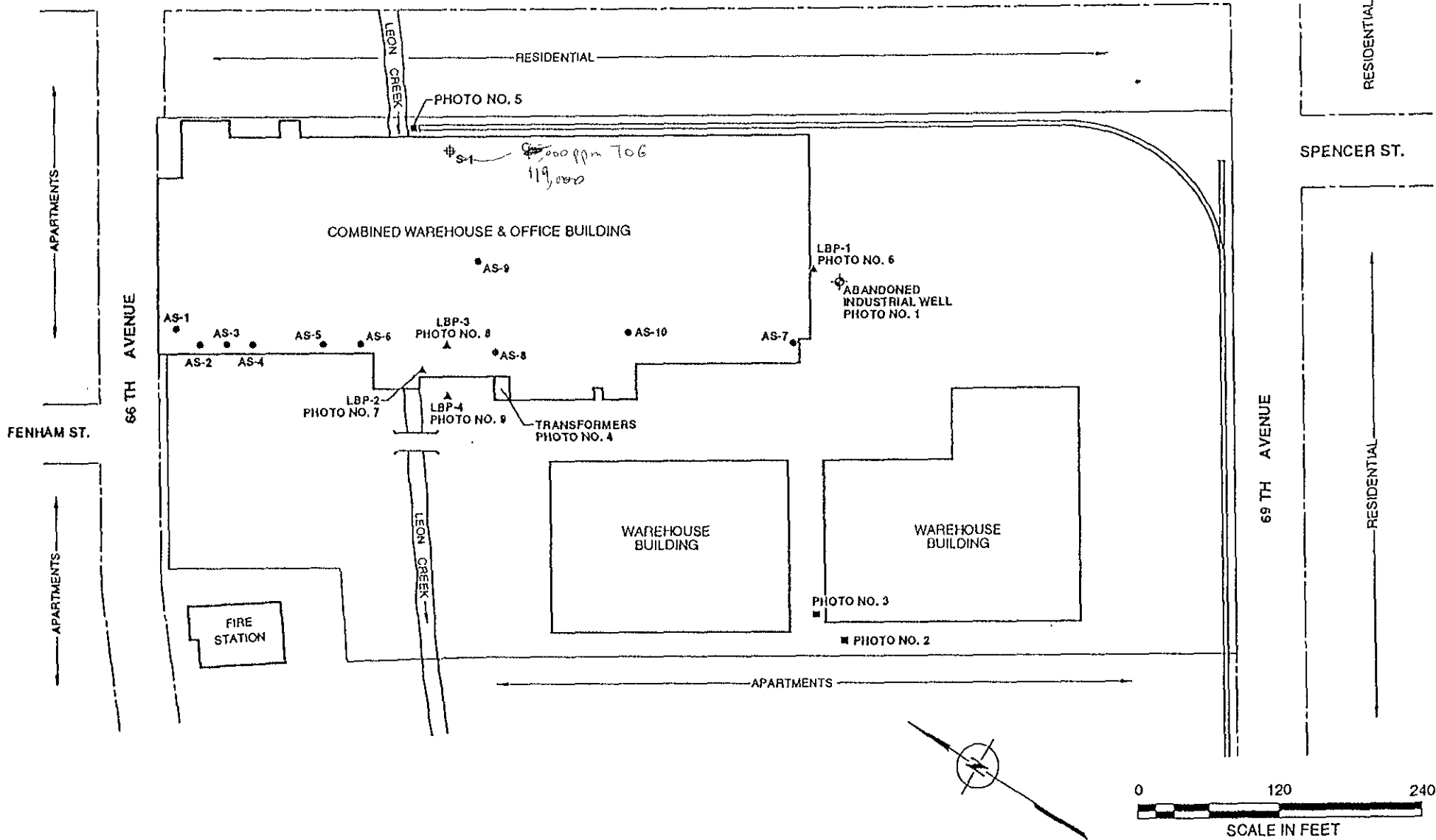
Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.



LEGEND

- AS-1 ● ASBESTOS SAMPLE LOCATION (approx.)
- PHOTO LOCATION AND NUMBER
- LBP-1 ▲ LEAD BASED PAINT SAMPLE LOCATION (approx.)
- ⊕ SOIL SAMPLE LOCATION

SITE VICINITY and SAMPLE LOCATION MAP

TRANS INTERNATIONAL WAREHOUSE FACILITY
 1034 66th Avenue
 Oakland, California

Scale	AS SHOWN	Project No.	93-44-395-01
Prepared by	TNW	Date	8/16/93
Checked by	RCP	Drawing No.	2
Approved by			



Converse Environmental West