APPENDIX E

Historical Leachate Data and Aerial Photographs

CERTIFICATE OF AUTHENTICITY

I, the undersigned, an employee of ALPHA Information Management, do certify that the documents described on the guidesheet target are being microfilmed in accordance with the Washington State Standards for the production and use of microfilm. I also certify that the records contained on this roll of microfilm are true and correct copies of the originals. However, no judgement is made at the time of microfilming as to the validity, accuracy or legality of any document.

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ALPHA INFORMATION MANAGEMENT, INC.

GUIDESHEET TARGET

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START OF ROLL

NO

5907 4TH AVE. SC. P.O. BOX 24466 SEATTLE, WA 98124 206-763-2220

LEACHATE

DATA REPORTED FROM: 5/1/86-3/31/89



King County Solid Waste Division Department of Public Works Vesler Building 400 Fesler Way, Room 600 Scattle, WA 98104-2637 (206) 296-6542

ENGINEERING SERVICES SECTION

FAX TRANSMITTAL COVER SHEET

FAX NO. 296-8431

IT 13 DUE TO THE YORKETT

		RE: ENHMOLAN STER LEACHATE	FM: SENDY JIMENEZ/JEFF BULLETTEL.NO.:	DATE: 4-30-93 TIME: &: US
		DATA (KORTH POND)	FAX # 329-8939	P.M. INCLUDING COVER

(3)

Mon-Metals --- Part 1

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enumclaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE IO	SAMPLE ID	SAMPLE DATE	Alkalinity (HCO3)	Alkslinity Total (CaCO3)	Anssonia -N	Chloride	Cyanide	Fluoride	Nitrate -N	Nitrite -N	
			(55g/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(29/L)	(mg/L)	· ;
LS-POND		05/14/86 12/16/86			22.6	436.2	- 0.01	< 0.05			* **********
LS-POND	LEP-89310	03/10/89			7.2	20	< 0.01 < 0.005	< 0.2	1.5	0.016	

Non-Metals -- Part 2

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989
Erumclaw Landfill --- LEACHATE
CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE ID	SAMPLE SAMPLE ID DATE	Phosphate Ortho	, Phesphate, Sulfate Total (SO4)	e Sulfide, Total	Sulfur, Yotal	Sulfide, Soluble	Total Kjeldahl Z	Total Bitrogen	
*		(mg/L)	(mg/L) (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)		
LS-POND LS-POND	LEP-86514 05/14/86 LEP-89310 03/10/87	< 0.005	8.1 0.054	36 40	17		37.8	****************	**************************************

Indicator Parameters --- Part 1

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enumclaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE 10	SAMPLE ID	SAMPLE DATE	Date of the state	p# (Lab) std units	Conduct- ance (Lab) umnos/cm	Total Solids (TS) (mg/L)	Total Dissolved Solids (TDS) (mg/L)	Total Suspended Solids (mg/L)	Chemical Oxygen Demand (COD) (mg/L)	Total Organic Carbon (TOC) (mg/L)	Total Organic Halogens (TOX) (mg/L)	Biological Oxygen Demand (BOD) (MEC/L)	Oxygen, Dissolved
LS-POND		05/14/86		7.7	1644	1342	1341	0.3	714	*********	*********	******	
LS-POND		11/05/86 03/10/89		6.3 7.1	490	300		370 23	1300 28	9	0.05	6	

Indicator Parameters --- Part 2

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enumctaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE	SAMPLE ID	SAMPLE DATE	Coliform, Total	Coliforms Total	Coliform, Fecal	Hardness	Turbidity	Polar Fats,	Mon-Polar Fats,	Total fats,		») • • им м м ф м ф
***			MPN/ 100 mLs	CFU/ 100 mLs	MPH/ 100 mls	(mg/L)	NTU	Gils, & Grease (mg/L)	Oils, & Grease (Mg/L)	Oils, & Greass (mg/L)		
LS-POND LS-POND LS-POND			180 1600 1600	:	. 2	490					*****	· * * * * * * * * * * * * * * * * * * *

Total Hetals --- Part 1

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enumciaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE	SAMPLE ID	SAMPLE DATE	Arsenic	Barium	Cadmium	Chronium (Total)	Copper	Iron	lead	Hanganese	
		·	(mg/L)	(ing/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(EE/L)	(B&/L)	
LS-POMD	LEP-86514 LEP-36H05			0.122	< 0.004 < 0.002	0.02	< 0.02 0.03	45.2 46	0.04	4.05	00°
LS-POND LS-POND LS-POND	LEP-86016 LEP-87505 LEP-89310	05/05/87	0.005 < 0.002 < 0.005	0.46	0.01 0.01 0.002	< 0.01 < 0.02 < 0.005	0.02	129 286 3	< 0.005 < 0.002 < 0.01	7.4 19.3	

Total Metals --- Part 2

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 ETALENCLOW Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE	SAMPLE ID	SAMPLE DATE	Mercury	Nickel	Selenium	Silver	Zinc	*************	******	***********	**************************************
**********			(mg/L)	(mg/L)	(mg/L)	(@ g/L)	(mg/L)				
LS-POND LS-POND		95/14/86 11/05/86	0.0003	< 0.02 0.02		< 0.004	1.181	*********		******************	
LS-POND LS-POND LS-POND	LEP-86016 LEP-87509		< 0.0005 < 0.0002 < 0.001	< 0.04	< 0.005 < 0.002 < 0.005	< 0.005 < 0.01 < 0.002	0.16 0.02 0.02 0.02				

Herbicides, Pesticides, and Radioactivity

DATA REPORTED FROM HAY 1, 1986 TO MARCH 31, 1989 Enumclaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE	SAMPLE ID DATE	2,4-D	2,4,5-TP (Silvex)	Endrin	Lindane	Methoxy- chlor	Toxa- phene	Gross Alpha Activity	Gross Beta	Radius 226	Radium 228
		(ug/L)	(Ug/L)	(ug/!_)	(Ug/L)	(Ug/L)	(ug/L)	₽I/L	pCi/L	pCi/L	pCi/L
LS-POND LS-POND LS-POND	LEP-86016 12/16/86 LEP-87505 05/05/87 LEP-89310 03/10/89	< 1 < 0.50	< n.50	< 0.10 < 1 < 0.10	< 0.05 < 1 < 0.05	< 0.50 < 1 < 0.50	< 1.0 < 4 < 1.00	< 2		< 0.6	provide to the control of the contro

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Erusmclaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE	SAMPLE ID	SAMPLE DATE	Acetone	Benzene	Brozo- dichloro- methane	Bromoform	Bromc- methane	2-Butanone	Carbon Disulfide	Carbon Tetra- chloride	Chloro- benzene	Chloro- ethane
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(Ug/L)	(IB/L)	(ug/L)	· (ug/L)	(ug/L)	(ug/L)
LS-POND LS-POND LS-POND	LEP-86016 LEP-87505 LEP-89310		6200 5050 12	24	< 1.3 < 1	< 2 < 1.9 < 1	< 4.2 < 4.2 < 1	4400 4560 < 3	< 2 < 2.0 < 1	< 2 < 1.7 < 1	< 1 < 1.3 < 3	15 16 < 3

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1929 Enumclaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE 10	SAMPLE 10	SAMPLE DATE	Chloroform	Dibromo- chloro- methane	p-Dichloro benzene	1,1-Dichlo ethane	1,2-Dichlo ethane	1,2-Dichlo ethene, total	1,1-Sichlo ethene	1,2-Dichlo propane	cis-1,3- Dichloro- propene	trans-1,3- Dichloro-
	150 0/04/	40.44.04	 (ug/L)	(Ug/L)	(ug/L)	(ug/L)	(Ug/L)	(ug/L)	(ug/L)	(Ug/L)	(ug/L)	(vg/L)
LS-POND LS-POND LS-POND		12/16/86 05/05/87 03/10/89	< 3 < 2.5 < 1	< 2 < 1.6 < 3	< ⊈	19 62 < 1	< 2 < 2.3 < 1	50 90 < 1	< 5 < 4.5 < 1	< 2 < 1.6 < 1	< 2 < 1./ < 3	< 2 < 1.7 < 3

Volatiles --- Part 3

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Eramclaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE	SAMPLE ID	SAMPLE DATE		Ethy! Benzene	2-Hexanone	Methylene Chloride	4-Methyl- 2-Pentanon	Styrene	1,1,2.2- Tetra- chloro-	Tetra- chlor- ethylene	Toluene	1,1,1-Tri- chioro- ethana	chioro-
LS-PON)	LEP-86016	49.44.404	-!	(ug/L)	(ug/L)	(ug/L)	(Ug/L)	(ug/L)	ethane (ug/L)	(ug/L)	(U)(L)	(na\r)	ethane (ug/L)
LS-POND LS-POND	LEP-87505 LEP-89310	05/05/87		38 35 < 1	118 13 < 3	208 77 < 1	309 140 < 3	< 3 < 2.7 < 1	< 2 < 2.1 < 3	< 1 < 1.2 < 1	534 1100 < 1	< 1 < 1.6 < 1	< 2. < 1.6

DATA REPORTED FROM MAY 1, 1985 TO MARCH 31, 1989 Enumciam Landfili --- LEACHATE CONTACT PERSON: Sendy Jimenez, (205) 296-4411

\$17.5 [D		SAPLE DATE	Trichloro- ethene	Vinyl Acetate	Vinyl Chloride	Total Xylenes	Chloro- metliane	
	***********		(ug/L)	(vg/L)	(ug/t)	(ug/L)	(U(;/L)	
LS-POND LS-POND LS-POND	LEP-86016 LEP-87505 LEP-89310	05/05/87	2 ?.2 < 1	< 6 < 5.8 < 1	11 14 < 1	129 105 2	< 3 < 3.2 < 1	

Indicator Parameters --- Part 1

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enumctaw Lendfill --- LEACHATE COMTACT PERSON: Sendy Jimenez, (206) 296-4411

SITÉ ID		SAMPLE	SAMPLE	1	ρH	Conduct-	Total	Total	**************************************					
Σ .		ID	DATE		(Lab)	ance (Lab)	Solids (TS)	Dissolved Solids (TDS)	Total Suspended Solida	Chemical Oxygen Demand	Total Organic Carbon	Total Organic Halogens	Biological Oxygen Demand	Oxygen, Dissolved
					std units	UNIOE/CM	(mg/L)	(mg/L)	(mg/L)	(COD) (mg/L)	(TOC) (@g/L)	(YOX)	(800)	
LS-POHD LS-POND	/	LEP-86514	05/14/83	1	7.7	1644	1342	1341	0.7			(FQ/L)	(mg/()	(8Q/L)
LS-POND		LEP-86N05 LEP-89310	11/05/86 03/10/89		6.3 7.1	/00		1241	0.3 370	714 1309				
				,	,	49°	300		23	28	9	0.05	6	
((

Indicator Parameters --- Part 2

DATA REFORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enumclaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (2C6) 296-441:

SITE	SAMPLE	SAMPLE					• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • •		1.
10	10	DATE	Coliform, Total	Coliforms Total	Coliform, Fecal	Hardness	Turbidity	Polar Fats,	Non-Polar Fats,	Total Fats,	
******			MPN/ 100 mLs	CFU/ 100 mLs	MPN/ 100 mls	(mg/L)	NTU	Oils, & Grease (mg/L)	Oils, & Grease (mg/L)	Oils, & Grease (mg/L)	
LS-POND LS-POND LS-POND LS-POND	LEP-8601 LEP-8750	4 05/14/86 6 12/16/86 5 05/05/87 0 03/10/89	130 500 1600		2	490	********				

Mon-Metals --- Part 1

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 ERLENCIAN Landfil! --- LEACHA!E CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE IO	SAMPLE SAMPLE ID DATE	Alkalinity (HCO3)	Alkalinity Total (CaCO3)	Associa -N	Ciloride	Cyanide	Fluoride	Nitrate	Mitrice	
LS-POND	LEP-86514 05/14/86	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)		- 緒	
LS-POND LS-POND	LEP-86016 12/16/86 LEP-89310 03/10/89			22.6	436.2	< 0.01	< 0.05	(mg/L)	(8g/L)	*************************
				7.2	20	< 0.005	< 0.2	1.5	0.016	

Non-Metals --- Part 2

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1982 Enumclaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (203) 296-4411

SITE	SAMPLE ID	SAMPLE DATE	Phosphate, Ortho	Phosphate, Total	Sulfate (\$04)	Sulfide, otal	Sulfur, Total	Sulfide, Soluble	Total Kjeldahl N	Total Mitrogen
			(mg/L)	(mg/L)	(mg/L)	(sig/L)	(mg/L)	(mg/L)	(mg/L)	
LS-POND LS-POND	LEP-8651	05/14/86 0 03/10/89	< 0.005	ម.1 0.054	36 40		17		37.8	***************************************

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enumclaw Lendfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE	SAMPLE SAMPLE ID DATE	Arsenic	Barium	Codniun	Chromium (Total)	Copper	Iron	Lead	Manganese	****
		(hg/L	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
LS-POND LS-POND LS-POND	LEP-86514 05/14/80 LEP-86N05 11/05/80 LEP-86016 12/16/80	3	0.122	< 0.004 < 0.002	< 0.02 0.022	< 0.02 0.03	45.2 46	0.04	4.05	
LS-POND	LEP-87505 05/05/87 LEP-89310 03/10/89	< 0.002	9.46 0.06	< 0.01 < 0.002	< 0.01 < 0.02 < 0.005	0.02 0.014	129 286 3	< 0.005 < 0.002 < 0.01	7.4 19.3 1	

Total Metals --- Part 2

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enunciam Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE ID	SAMPLE ID	SAMPLE DATE	Mercury	Nickel	Selenium	Silver	Zinc	 	
***			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)		
LS-POND LS-POND LS-POND LS-POND LS-POND	LEP-86514 LEP-86N09 LEP-86016 LEP-87509 LEP-89310	12/16/86 05/05/87	0.0033 < 0.0005 < 0.0002 < 0.001	< 0.02 0.02 < 0.04 0.02	< 0.005 < 0.002 < 0.005	< 0.004 < 0.005 < 0.01 < 0.002	1.181 0.16 0.02 0.02 0.02		······································

Herbicides, Pesticides, and Radioactivity

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enumclaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-441%

SITE ID	SAMPLE ID	SAMPLE CATE	2,4-0	2,4,5-TP (Silvex)	Endrin	l indene	Methoxy- chlor	Toxa- phene	Gross Alpha Activity	Gross Beta	Radium 226	Radium 228
****			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(nâ\r)	(ug/L)	pCi/L	pCi/L	pCi/L	pCi/L
LS-POND LS-POND	LEP-86016 LEP-87505 LEP-87310		< 1 < 0.50	< 0.50	< 0.10 < 1 < 0.10	< 0.05 < 1 < 0.05	< 0.50 < 1 < 0.50	< 1.0 < 4 < 1.00	< 2	· · · · · · · · · · · · · · · · · · ·	< 0.6	< 1

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enumclew Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296- 111

SITE ID	SAMPLE ID	DATE :	Acetone	Benzene	Bromo-	Bromoforu						
	••	DATE			dichloro- methane	DI CHOTOTA	Bromo- methane	2-Butanone	Carbon Disulide	Carbon Tetra-	Chloro- benzene	Chloro- ethane
S-POND			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)		chloride	•	
S-POND	LEP-86016 LEP-87505		6200 5050	< 2	< 1	< 2	< 4	• • • • • • • • • • • • • • • • • • • •	(ug/L)	(ug/L)	(ug/L)	(ug/L)
S-POND	LEP-89310	03/10/89	12	24 < 1	< 1.3 < 1	< 1.9 < 1	< 4.2 < 1	4400 4560 < 3	< 2 < 2.0 < 1	< 2 < 1.7 < 1	< 1 < 1.3	15 16

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enumclaw Landfill --- LEACHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE ID	SAMPLE SAMPLE ID DATE	Chlerofor	m Dibromo- chloro- methane	p-Dichloro benzene	1,1-Dichlo ethane	1,2-Dichlo ethane	1,2-Dichlo ethene, total	5,1-Dichlo ethene	1,2-Dichlo propane	cis-1,3- Dichloro- propene	trans-1,3- Oichloro- propene	
		(Ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(Ug/L)	(Ug/L)	(ug/L)	(ug/L)	(n8\r)	
LS-POND LS-POND LS-POND	LEP-86016 12/16/86 LEP-87505 05/05/87 LEP-89310 03/10/89	< 3 4 2.5 < 1	< 2 < 1.6 < 3	< 1,	19 62 < 1	< 2 < 2.3 < 1	50 90 < 1	< 5 < 4.5 < 1	< 2 < 1.6 < 1	< 2 < 1.7 < 3	< 2 < 1.7 < 3	

DATA REPORTED FROM MAY 1, 1986 TO MARCH 31, 1989 Enumolaw Landfill --- LEAUHATE CONTACT PERSON: Sendy Jimenez, (206) 296-4411

SITE ID	SAMPLE ID	SAMPLE DATE	Ethyl Benzene	2-Mexanone	Methylene Chloride	4-Kethyl- 2-Pentanon	Styrere	1,1,2,2- Tetra- chloro-	Tetra- chlor- ethylene	Toluene	1,1,1-Tri- chloro- ethane	1,1,2-Tri- chloro- ethane
**************************************			 (ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	ethane (ug/L)	(ug/L)	(ug/L)	(ug/L)	(Ug/L)
LS-POND LS-POND LS-POND	LEP-86016 LEP-87505 LEP-89310	,,	38 35 < 1	118 13 < 3	208 77 < 1	309 140 < 3	< 3 < 2.7 < 1	< 2 < 2.1 < 3	< 1 < 1.2 < 1	534 1100 < 1	< 1.6	< 2 < 1.6

DATA REPORTED FROM MAT 1, 1986 TO MARCH 31, 1989 Enumctaw Landfill — LEACHATE CONTACT PERSON: Sermy Jimenez, (206) 296-4411

SITE	SAMPLE SAMPLE ID DATE	Trichloro- ethene	Vinyl Acetate	Vinyl Chloride	Total Xylenes	Chloro- methane	
*		(ug/L)	(Ug/L)	(ug/L)	(ug/L)	(ug/L)	
LS-POND LS-POND LS-POND	LEP-3016 12/16/86 LEP-3005 05/05/87 LEP-3010 03/10/89	2 2.2 < 1	< 5 < 5.8 < 1	11 14 < 1	129 105 2	< 3 < 3.2 < 1	

04/30/93

KING COUNTY SOLID WASTE DIVISION

Page 1

 Site Number
 Zone Onsite
 Sitename
 GSE
 YOC
 Depth
 X
 Y

 S-POND
 Y
 LEACHATE POND NORTH
 0.00
 0.00
 0.00
 0.000
 0.000

ENUMCLAW LEACHATE FOND (NORTH) DATA

04/30/93

KING COUNTY SOLID WASTE DIVISION

Page 1

Site : LS-POND

10 : LEP-86514

Constituent Name	Units	Results	Limit	Qual
Barium, total	mg/L	0.122	0	
Cadmium, total	mg/L	< 0.004	0.004	
Chioride	mg/L	436.2	0	
Chromium, total	M3/L	< 0.02	0.02	
Copper, total	mg/L	< 0.02	0.02	
Fluoride	mg/L	< 0.05	0.05	
Iron, total	rg/L	45.2	- 0	
Lead, total	mg/L	0.04	0	
Manganese, total	mg/L	4.050	8	
Hercury, total	mg/L	0.0003	0	
Mickel, total	mg/L	< 0.02	0.02	
Potessium	mg/L	43.2	0	
Silver, total	mg/L	< 0.004	0.004	
Zinc, total	eg/L	1.181	0	
Assachia, (NH3)	mg/L	22.6	0	
Phosphate, total	mg/L	8.10	0	
Sulfate (SO4)	ng/L	36	0	
Chemical Oxygen Demand	mg/L	714	0	
Conductance	nq/L	1644	e	
Suspended Solids	mg/L	0.3	0	
Total Dissolved Solids	eg/L	1341	0	
Nardness	mg/L	490	0 ·	•
Total Kjeldahl N	mg/L	37.8	. 0	
Total Solids	mg/L	1342	0	
pil	std. units	7.70	0 ·	
Biological Oxygen Demand	mg/L	184	0	
Volatile Suspended Solids	mg/L	327	. 0	
	mg/L	572	. 0	

KING COUNTY SOLID WASTE DIVISION

Page 1

Site : LS-POND

ID : LEP-86N05

Constituent Name	Units	Results	Limit	oual
Cadmium, total	mg/L	< 0.002	0.002	
Chromium, total	mg/L	0.022	0 .	
Copper, total	mg/L	0.030	Ó	
Iron, total	mg/L	46	Ō	
Lead, total	mg/L	0.02	0	
Mickel, total	mg/L	0.02	Ó	
Zinc, total	ng/L	0.16	0	
Chemical Oxygen Demand	mg/L	1300	0	
Suspended Solids	mg/L	370	0	
ph .	std units	6.3	ŏ ·	
Biological Oxygen Demand	mg/L	840	Ú	

A CANADA STANDARD CONTRACTOR OF THE STANDARD CON

04/30/93

KING COUNTY SOLID WASTE DIVISION

Page '

Site : LS-POND

10 : LEP-36016

Constituent Hame	Units		Results	Limit	Qual
Antimony, total	mg/L	· <	0.005	0.005	
Arsenic, total	mg/L		0.005	0	
Beryllium, total	rg/L	<	0.005	0.005	
Cadmium, total	mg/L	∢	0.01	0.01	
Chromium, total	sg/L	<	0.01	0.01	
Copper, total	ag/L		0.02	0	
Cyanida	mg/L	<	0.01	0.01	
Iron, total	mg/L		129	. 0	
Lead, total	mg/L	<	0.005	0.005	
Manganese, total	mg/L		7.4	0	
Mercury, total	mg/L	<	0.0005	0.0005	
Mickel, total	æg/L	<	0.04	0.04	
Selenium, total	mg/L	<	0.005	0.005	
Silver, total	Eg/L	<	0.005	0.005	
Thellium, total	mg/L	<	0.002	0.002	
Zinc, total	mg/L		0.02	0	
Coliform, total	HENTROO INT		180	0	
Aldrin	ug/L	<	0.05	0.05	
Arcelor 1016	ug/L	<	0.50	0.50	
Aroclor 1221	Ug/L	·<	0.50	0.50	
Aroclor 1232	ug/L	<	0.50	0.50	
Aroclor 1242	ug/L	<	0.50	0.50	
Aroctor 1248	Ug/L	<	0.50	0.50	
Aroctor 1254	ug/L	<	0.50	0.50	
Aroctor 1260	ug/L	<	1.0	1.0	
Chlordene	ug/L	<	0.50	0.50	٠.
Dieldrin	ug/L	<	0.10	0.10	
Endooulfan Sulfata	ug/L	<	0.10	0.10	
Endrin	ug/L	<	0.10	0.10	
Endrin Ketone	ug/L	` <	0.10	0.10	
Neptechlor Epuxide	ug/L	<	0.05	0.05	
Weptachlor	ug/L	<	0.05	0.05	
Methoxychlor	ug/L	< .	0.50	0.50	
4,41 000	ug/L	<	0.10	0.10	
4,4° DOE	Ug/L	< .	0.10	0.10	
4,4' 001	ug/L	<	0.10	0.10	
Toxaphene	ug/L	<	1.0	1.0	
Alpha BKC	ug/L	< -	0.05	C.05	
Beta JHC	ug/L	<	0.05	0.05	
Delta BHC	ug/L	∢	0.05	0.05	
Endosul fan	ug/L	< .	0.05	0.05	
	-				

KING COUNTY SOLID WASTE DIVISION

Page 2

Site : LS-POND

ID : LEP-86016

Constituent Name	Units	Results	Limit	Qual
Endosulfan II	ug/L	< 0.10	0.10	
Lindone	ug/L	< 0.05	0.05	
1,1,1-Trichloroethane	ug/L	< 1	1	
1,1,2,2-Tetrachloroethane	ug/L	< 2	2	
1,1,2-Trichloroethane	ug/L	< 2	2	
1.1-Dichloroethene	ug/L	. 19	Ö	
1.1-Dichloroethene	Ug/L	< 5	5	
1.2-Dichloroethane	ug/L	< 2	2	
1.2-Dichloropropane	ug/L	< 2	2	
2-Butanone	ug/L	4400	0	•
4-Methyl-2-Pentenone	ug/L	309	Ö	
Benzene	ug/L	< ?.	2	
Bromodichloromathane	ug/L	< 1	. 1	
Brosoforz	· Um/L	< 2	2	
Brozomethane	ug/L	< 4	2 4	
Carbon Disulfide	uq/L	< 2	2	
Carbon Tetrachloride	ug/L	< 2	2	
Chlorobenzene	ug/L	< 1	. 1	
Chloroethane	ug/L	15	0	
Chlorofora	ug/L	< 3	3	
Chloromethane	ug/L	< 3	3	
1.1.3-Dichloropropene	ug/L	< 2	. 2	
Dibromochleromathana	ug/L	< 2	2	
Ethylbenzene	ug/L	38	0	
Methylene Chloride	ug/L	208	0	
Styrene	uc/L	< 3	3	
Tetrachloroethylene	ug/L	< 1	1	
Toluene	ug/L	534	0	
trans-1,3-Dichloropropene	ug/L	< 2	2	
Trichloroethene	ug/L	2	0	
Vimyl Acetete	ug/L	< 6	6	
V'nyl Thioride	ug/L	11	0	
iotal Xylenes	ug/L	129	3	
1.2-aichlorocthene, total	ug/L	50	0	
2-Chleroethylvinylether	ug/L	< 3	3	
2-Hexanone	ug/L	112	0	
2-Methylphenol	ug/L	100	0	
4-Methylphenol	ug/L	3700	å	
bizzihyl Phthalate	ua/L	130	o o	
Phenol	Ug/L	55)	ã	
Acetone	Ug/L	6200	0	
e processo se nero PNA	~3,5		•	

Page 1

Site : LS-POND

ID : LEP-87505

the second second second second			•	
Constituent Neme	Units	Results	Limit	Qual
Arsenic, total	mg/L	< 0.002	0.002	
Barium, total	mg/L	0:46	0	
Cadeius, total	mg/L	< 0.01	0.01	
Chremium, total	mg/L	< 0.02	0.02	
iron, total	mg/L	286	. 0	
Lead, total	≋g/L	< 0.002	0.002	
Manganese, total	mg/L	19.3	0	
Mercury, total	mg/L	< 0.0002	0.0002	
Selenium, total	mg/L	< 0.002	0.002	٠,
Silver, total	mg/L	< 0.01	0.01	
Zinc, total	mg/L	0.02	0	
Coliform, total	MPN/100 ml	1600	Ŏ	
2,4,5-T Methyl Ester	Ug/L	< 1	1	
2,4-D	· ug/L	< 1	į	
Endrin	ug/L	< 1	1	
Wethoxychlor	ug/L	< 1	•	
Toxaphene	ug/L	< 4	6	
Lindane	ug/L	< 1	. 1	
1,1,1-Trichloroethane	ug/L	< 1.6	1.6	
1,1,2,2-Tetrachlorcethene	ug/L	< 2.1	2.1	
1,1,2-Trichleroethane	∪g/L	< 1.6	1.6	
1,1-Dichloroethane	ug/L	62	0	
1,1-Dichlornathene	ug/L	< 4.5	4.5	
1,2-Dichlornethane	ug/L	< 2.3	2.3	
1,2-Dichtoropropene	ug/L	< 1.6	.6	
2-3utanone	ug/L	4560	0	
4-Methyl-2-Pentanone	LEJ/L	140	0	
Senzano	ug/L	24	Ö	
groundichloromethane	ug/L	< 1.3	1.3	
Bromoform	ug/i.	< 1.9	1.9	
* Brosowethone	vg/L	< 4.2	4.2	
Carbon Disulfide	√g/L	< 2.0	2.0	
Carbon Tetrachloride	ug/L	< 1.7	1.7	
Chlorobenzene	ug/L	< 1.3	1.3	
Chloroethane	u⊊/L	16	0	
Chloroform	ug/	< 2.5	2.5	
Chloromethane	ug/L	< 3.2	3.2	
cis-1,3-Dichloropropens	ug/L	< 1.7	1.7	
Dibroachlorosettane	ug/L	< 1.6	1.6	
Ethy benzane	ug/L	35	0	
Nethylene Unioride	ug/L	77	Ö	
	*-		•	

04/30/93

KING COUNTY STAID WASTE DIVISION

Page :

Site : LS-POM

10 : LEP-87505

Constituent Name	Units			
Styrene		Results	Limit	Guat
Tetrachtoroethylene	Ug/L	< 2.7	2.7	
Toluene	ug/L	< 1.2	1.2	
	∪g/L	1100	1.2	
trans-1,3-Dichloropropens	ug/L		0	
/richloroethene	ug/i	< 1.7	1.7	
/Inyl Acctate	-	2.2	0	
/imy! Chloride	-g/L	< 5.8	5.8	
Total Xylenes	ug/L	14	6	;
1 2-Dichlesses	. ug/L	105		
1,2-Dichloroethene, total	Ug/L	90	9	
2-Chloroethylvinylether	ug/L		0	
2-dexanone	ug/L		2.6	
Acetone		13	0	
	ug/L	5050	ň.	

04/30/93

KING COUNTY SOLID WASTE DIVISION

Page 1

Site : LS-POND

ID : LEP-89310

		10 - FEB-932	10 .	
Constituent Name	Unita	. Pan la		
Arsenic, total	mg/L	Fesults	Limit	Qual
Barium, total	mg/L	< 0.005	0.005	and the same of th
Cachnium, total		0.06	0 .	
Chloride	mg/L	< 0.002	0.002	•
Chromium, total	RQ/L	20	0	
Copper, total	mg/L	< 0.005	0.005	
Cyanide	⊅g/L	0.014	0	
Fluoride	mg/L	< 0.305	0.005	
Iron, total	mg/L	< .0.2	0.2	
Lead, total	my/L	3.0	0.	
Manganese, total	EQ/L	< 0.01	0.01	
Mercury, total	mg/L	1.0	0.01	
Mickel, total	mg/L	< 0.001	0.001	
Selenium, total	®g/L	0.02	0.001	
Silver, total	mg/l	< 0.005	0.005	
Sulfide	mg/L	< 0.002		
Zinc, total	™g/L	7 0.1	0.002	
Ammonia, (NH3)	ng/L	0.020	- 0.1	
Mitrate, (MO3)	Eg/!	7.2	0	
Witrite, (MG2)	Mail	1.5	0 .	
Phosphate, ortho	mg/L	0.016	. 0	
Phosphate, total	Rg/L	< 0.305	e .	
Sulfate (SO4)	mg/L	0.054	0.005	
Sulfur, total	mg/L	40	0	
Sulfate (S)	Pg/L	17	0	
Chamiani O	₩g/L	13	0	
Chemical Oxygen Demand	mg/L	23	. 0	
Coliform, total	MPN/100 Ed	> 1600	0	*
Coliform, fecal	MPN/100 mL	2	0	
Conductance	unhos/ca	470	ð	
Suspended Solids	mg/L	23	0	
Total Organic Carbon	ma/L		0	
Total Solids	mg/L	9.0	0	
Total Organic Halogens	mg/L	300	0	
PN	std. units	0.05	3	
Radium 228	pC1/L	7.1	0	
Radium 226	pCi/L	4 1	1	
Gross Alpha Activity	pCi/L	< 0.6	0.6	
Blological Oxygen Demand - E de.		< 2	2	
トッツィノーIU 所受[ffV! Feter	mg/L	6	ō .	
<,4-D	Ug/L	< 0.50	0.50	
Endrin	L编/L	·: 0.50	0.50	
the second secon	ug/L	< 0.10	0.10	
		- Northeath of Said		

04/30/93

KING COUNTY SOLID WASTE DIVISION

Page 2

				Page 2
Site: LS-POND		10 : LEP-89310		-
Constituent Wame	Units			
lethoxychlor	n3/F	R :ults	Limit	Qual
foxsphene .	ug/L	0,50	0.50	
.indane	ug/L	< 1.00	1.00	
1,1,1-Trichloroethane	ug/L	< 0.05	0.05	
1,1,2,2-Tetrachloroethane	ug/L	< 1	1	
1,1,2-Trichloroethane		< 3	. 3	
1,1-Dichloroethane	ug/L	< i	1 .	
1,1-Dichloroethene	ug/L	< . 1	1	
1,2-Dichloroethane	ug/L	< 1	1	
1,2-Dichloropropane	ug/L	< 1	1	
o-Dichtorobenzene	ug/L	< . 1	1	
2-Butanone	ug/L	< 1	1	
4-Methyl-2-Pentanone	ug/L	< 3	3	
Benzene	ug/L	< 3	3	
3romodichloromethere	ug/L	< 1	1	
Gromororm	ug/L	< 1	i	
6: omomethene	ug/L	< 1	i	
Carbon Disulfide	ug/L	< 1	1	
Carbon Tetrachloride	ug/L	< 1	1	
Chlorobenzene	Ug/L	< 1	1	
Chloroethane	ug/L	< 3	3	
Chloroform	ug/L	< 3	3	
Chloromethane	ug/L	< 1	1	
cis-1,3-Dichloropropens	ug/L	< 1	1	
Dibromochloromethene	ug/L	< 3	3	
Ethylbenzene	ug/L	< 3	7	
Methylene Chloride	ug/L	< 1	1	
Styrene	ug/L	< 1	1	
fitrachloroethene	ug/L	< 1	1	
Toluens	ug/L	< 1.	4	
trans-1,2-Dichloroethene	Ug/L	< 1	,	
trans-1,3-9ichloropropene	ug/L	< 1	;	
Trichloroethene	ug/L	< 3	3	
Vinyl Acetete	ug/L	< 1	1	
Vinyt Chloride	ug/L	< 1	1	
Total Xylenes	ug/L	< 1	1	
cis-1,2-Dichloroethene	ug/L	2	ó	
1,2-Dichloroethene, total	ug/L	< 1	1	
2-Mexanone	Ug/L	< 1	i	
icetone	ug/L	< 3	3	
	ua/I	(3	-	

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Chamistry Microbiology and Technical Services

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Date: \$2-	28-90		en e	rikatifirihilgengir periti sulten anda sulpu asumbatua dilili	如下GC的的APPA的APPAPAPAPAPAPAPA
RE: Your File	- further found of the local section of the section			saket en pen hylytelskippen som en en en en et en	and a second control of the second control o
Our File	9.9713	entropies and the second secon	Congress of the second	MANAGE SZEGLE GET LEGET SERVICE CONTROL CONTRO	
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LABORATORY NO. 99713

DATE: Dec. 11, 1986

PO #B22769B

940 South Harney St., S.

Washington 98108 (206)767-5060

Chemistry Microbiology ar 1 Technical Services

CLIENT: King County Division of Solid Waste

419 Occidental Ave. South 601 F.X. McRory Building Seattle, WA 98104 ATTN: Barbara Zaroff

REPORT ON: WATER

SAMPLE

IDENTIFICATION: Submitted 11/5/86 and identified as shown:

E. Leachate Enumclaw Pond (from Trailer) D. Nyblom

11-5-86 2:00 pm G. Anabele

TESTS PERFORMED AND RESULTS:

pH, glass electrode @ 25 degrees C

6.3

parts per million (mg/L)

Total Cadmium Total Chromium Total Copper Total Lead Total Iron Total Zinc Total Nickel	L/0.002 0.022 0.030 0.02 46. 0.16 0.02
Chemical Oxygen Demand	1300.
5-day Biochemical Oxygen Demand	840.
Total Suspended Solids	370.



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940 South Harney St. Seattle Washington 98108 (12067/67-5060)

Chemistry Microbiology and Technical Services

CLIENT: King County Division of Solid Waste

419 Occidental Ave. South 601 F.X. McPory Building Seattle, WA 98104 ATTN: Barbara Zaroff LABORATORY NO. 99713

DATE: Dec. 11, 1986

90 #922769B

REPORT ON: WATER

SAMPLE

IDENTIFICATION: Submitted 11/5/86 and identified as show:

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11-5-86 2:00 pm G. Anabele

TESTS PEDFYRMED AND RESULTS:

pA. glass electrode @ 25 degrees C

6.3

parts per million (mg/L)

Total	Cadmium			* 40 000
	Chronium		+	L/0.002
	Copper			
				0.030
	Lead		*	0.02
Total	Iron			46.
Total	Zinc -			0.15
	Mickel			0. d2
Chemia	cal Oxygen	Demand		1300.

5-day Biochemical Oxygen Demand 840. Total Suspended Solids 270.



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King County Division of Solid Waste



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PAGE NO. 2

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Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Carons

JMD: vag



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Chemistry Microbiology and Technical Services

King County Division of Solid Waste

PAGE NO. 2

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Key

L/ = less than

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO: veg



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ENUMCLAW

LEACHATE

Doval Enumelan Cedar Falla Hobort

Project B

684.2300

KING COUNTY SOLID WASTE

Ente

Sample S/12 S/13 S/14 S/14 S/19 S/20	ANALYTICAL DATA	Heavy Me	etals		Month	May	No de la constante de la const	Year 86
Sample Location		1 5/30	-			while		
Location		2/12	5/13	5/13	5/14		5/19	5/20
As Ba	Location	DWW#2	EMW#1	EMW#3	HMM #2		CFMW#3	STA CHS-E
Ba .021 .051 .011 <.005	Ag dissolved?	<.004	<.004	<.004	< .004	< .004	< .004	< .004
Cd	As					19		
Cd < .004	Ba	.021	.051	.011	< .005	.122	-009	.009
Cr 03 <.02	Cd	< .004	<.004	< -004	< .004	< 1004	<.004	
Fe	Cr	_03	< .02	<.02	<.02	< 02	.003	
Hg0003	Cu	< .02	<.02	<.02	<.02	< .02	< .01	<.01
Mn <.005	Fe	< .02	18.C	< .02	.16	45.2	< .02	
Ni	Hg	.0003	< .0002	.0002	.0004	.0003	.0002	.0002
Pt	Mn	< .005	48.40	.023	1.350	4.050	<.005	< .005
Se	Ni	< .02	<.02	<.02	< .02	< .02	.03	<.02
Se 2n 2.010 .012 2.010 .013 1.181 2.006 2.005 人 .55 4.72 .70 .35 43.2 .30 .29	PL	<.02	.05	< .02	<.02	.04	<.001	< .001
	Se							
人 .55 4.72 .70 .35 43.2 .30 .29 <td< td=""><td>Zn</td><td><.010</td><td>.012</td><td>< .010</td><td>.013</td><td>1.181</td><td>< .006</td><td><.005</td></td<>	Zn	<.010	.012	< .010	.013	1.181	< .006	<.005
	K	.55	4.72	.70	.35	43.2	.30	
			,					

Note: All parameters are expressed as mg/l. 1340-1 (7/84)

REF:hh 6/84

Ray Dul 87 684-2323

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SINETEC

KING COUNTY SOLID WASTE

ANALYTICAL DATA	Convent	ional Pe	rameters	Month	May		Year 86
Sample Date	5/12	5/13	5/13	5/14	5/14	5/19	5/20
Sample Location	DMW#2	EMW#1	EMW#3	HMW#2	Leachate	CFMW#3	STA CHS-E
Hq	7.40	6.97	6.72	6.02	7.70	7.69	6.85
COD	12	740	14	12	714	9	11
BOD ₅	< .1	560	2.9	<.1	184	<.1	2.2
S.S.	<.1	20.5	1.7	.3	.3	0.9	:09
V.S.S.	< .1	9.7	1.7	498	327	0.2	.09
T.S.	90	1920	68	55.8	1342	91	100
T.V.S. Total	26	1199	36	18.7	572	26	32
Dissolved Solids	90	1900	66	56	1341	90	100
Total Kjeldehl Nitrogen	.33	.97	.40	.42	37.8	<.20	.31
Total PO ₄ -P	.18	.11	.04	-03	8.10	.02	.02
SO ₄	< 5	< 5	< 5	< 5	36	< 5	11
(CaCO ₃) T. Hardness	spilled lost	1390	39	26.5	490	52	32
Specific Conduct.	spilled	2541	113	89	1644	151	112
NH3-N	.19	.07	.19	.06	22.6	.02	.23
Fluoride	<.05	<.05	< .05	< .05	< .05	< .05	< .05
Chloride	1.8	161.5	4.8	4.6	436.2	4.9	6.9
	DE/DA/.	<u></u>					

Note: All parameters are expressed as mg/l except for pH which is unitless.

1340 (7/84)

REF: hh 6/84

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