INDEPENDENT REMEDIAL ACTION

AMEX TAX & DUTY FREE SHOPS WEST BLAINE, WASHINGTON

VGP*NW0363

Prepared For:

Ultra Tank Services P.O. Box 664 Bellingham, WA 98227



2138 Humboldt Street Bellingham, WA 98225 (360) 676-9589 (800) 859-5597 Fax (360) 676-4625 CIVIL • GEOTECHNICAL • ENVIRONMENTAL • WETLANDS

360-676-9589 • 425-258-2059

800-859-5597 • 800-835-4971

FAX 360-676-4625 • 425-258-5046

October 25, 1999

Ultra Tank Services P.O. Box 664 Bellingham, WA 98227

Attn: George Willet

Re: Independent Remedial Action Report - Voluntary Cleanup Program

Leaking Underground Storage Tank

Amex Tax and Duty Free Shops West (Ecology UST Site ID #11177)

253 C Street

Blaine, Washington

Dear Mr. Willet:

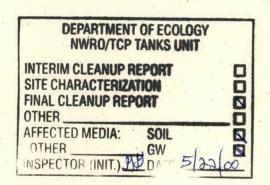
BEK Engineering is pleased to present this Independent Remedial Action report regarding the cleanup of contaminated soil related to the release of hydrocarbon products from underground storage tanks and associated pump islands at a gasoline service station at the above referenced property in Blaine, Washington. A copy of this report including all appendices and attachments has been transmitted to John Lillie in the Voluntary Cleanup Program at the Northwest Regional Office of the Washington State Department of Ecology (Ecology). We are requesting No Further Action for this site.

This report was completed in general accordance with Ecology's *Model Toxics Control Act Cleanup Regulation* (MTCA, Chapter 173-340 WAC).

SCOPE OF SERVICES

Our scope of services for this project included:

- 1. Supervised the excavation of hydrocarbon contaminated soil derived from underground storage tanks and adjacent pump islands at the subject property.
- 2. Completed field-testing and the collection of soil samples to confirm that all hydrocarbon contaminated soil had been removed.
- 3. Logged the subsurface geologic conditions encountered in the excavation.
- 4. Arranged for the transport of soil samples to the laboratory using proper chain-of-custody procedures.
- 5. Arranged for the analysis of soil for gasoline range hydrocarbons, BTEX and Lead using accepted methods at an Ecology accredited laboratory.
- 6. Completed this report, the Request for Assistance Form, and the Site Summary forms in accordance with the reporting requirements of Ecology's the Voluntary Cleanup Program.





INTRODUCTION

Four underground storage tanks (UST's) were removed from a single UST pit on August 9, 1999 by Ultra Tank Services, Inc. of Bellingham, Washington. The tanks had been used to store gasoline for a gasoline service station located at Amex Duty Free Shops West in Blaine, Washington. Following removal of the tanks, qualitative field testing and analytical results indicated that gasoline contaminated soil was present under the west part of the former pump island and within the tank pit.

This report provides a summary of our field observations during cleanup and removal of gasoline contaminated soil, and the analytical results for soil samples collected from the UST pit and adjacent pump islands to confirm that cleanup has been completed.

A report prepared by our firm entitled Site Check / Site Assessment (dated October 25, 1999) for Amex Tax and Duty Free Shops West discusses the closure by removal of the tanks and associated pump islands.

SITE VICINITY CHARACTERISTICS

The subject property is located at 253 C Street, in the City of Blaine (Figure 1 and Figure 2). The property lies approximately 1000 feet northeast of Semiahmoo Bay, at an elevation of approximately 50 feet MSL. The vicinity of the subject property is zoned UR-4, urban residential four units per acre. C Street and residential properties bound the subject property to the north. Second Street and commercial properties bound the subject property to the west. Denny's Restaurant bounds the subject property to the south. A motel bounds the subject property to the east.

The geologic conditions in the vicinity of the subject property are described in the Geologic Map of the Bellingham 1:100,000 Quadrangle, Washington (Pringle et al., 1994). According to that map, the subject property is underlain by a former outwash plain of the Sumas Stade. Deposits in the outwash plain consist of boulders, cobbles, and gravel near the Canadian border, grading southwestward to sand near Lynden. These sediments were deposited in outwash streams when the terminus of the continental icesheet was in the vicinity of Sumas, Washington. The outwash plain of the Sumas Stade forms a thin mantle over the thicker and more continuous silts and clays of the Bellingham Drift. The Bellingham Drift is derived from sediments melted out of floating glacial ice and deposited on the sea-floor, at a time when relative sea-level was higher than the present. In general, the Bellingham Drift (Drift) consists of poorly sorted and unstratified clayey silt, gravelly clay, and gravelly, sandy silt, with some cobbles and rare boulders. The upper part of the Drift (generally 0 feet to 15 feet below the ground surface) is commonly in a generally stiff condition, while the lower part of the Drift (generally greater than 15 feet below the ground surface) is commonly in a generally soft condition. In general, the Drift has low permeability, although permeability increases within the upper Drift due to desiccation cracks, and within coarser-grained lenses found throughout the drift.

FIELD OBSERVATIONS

BEK Engineering personnel were called to the site on August 9, 1999 to complete the site check/site assessment. At the time of our arrival the fuel pumps had already been removed, and the top of the UST's were exposed. We observed the removal of four UST's from the tank pit. The tanks were observed to be in good condition, with no visual evidence for pitting or corrosion.

Following removal of the tanks, the UST pit was observed to contain water. The water level was approximately 5.0 feet below the ground surface (Figure 3 and Figure 4). A hydrocarbon sheen was observed on the top of the water. Based on the presence of the sheen, Ultra Tank Services contracted

with Mar-Vac of Seattle to remove and properly dispose of the water from the tank pit. Approximately 24,400 gallons of water was removed from the pit by Mar-Vac on August 24 through August 26.

Following removal of the water, the tank pit backfill material was observed to consist of imported sandy gravel with some clay and silt. Approximately 1.5 feet of pea gravel was located at the bottom of the pit as bedding material for the tanks. The tank pit was inspected to evaluate the sidewall soil conditions. The upper 1.5 to 2.0 feet consisted of imported sandy gravel fill soil as a base course for the asphalt pavement. The fill soil was underlain to a total depth of approximately 6.0 feet by native, brown to gray silt with sand and clay that was observed to be in a damp condition. The silt was underlain by moist gray-blue silty clay to the base of the pit at approximately 14.0 feet.

Gasoline contaminated soil was removed by Ultra Tank Services on August 24 through August 27. Contaminated soil was limited to the granular soil used to backfill the pit, less than one foot of native soil from the pit sidewalls and floor, a small area below a catch basin, and granular fill and approximately two feet of native soil below the west part of the pump island. The extents of the excavation are indicated in Figure 2. Approximately 703 cubic yards of contaminated soil was removed and treated by thermal desorption by CSR Associated in Everett, Washington.

Confirmation sampling was completed on August 8 through August 27. Sample locations are indicated on Figure 2.

Two soil samples (080999-4 and -5) were collected from the east side of the dispenser pad at approximately 2.0 to 2.1 feet bgs. Three soil samples (082499-4, -5 and -6) were collected from excavated areas under the west part of the former pump island at approximately 5.5 to 6.5 feet bgs. Twelve soil samples (082699-1 through -9 and 082799-1 through -3) were collected from various locations inside the tank pit.

Based on the presence of water within the tank pit, we suspected that the pit intersected a shallow aquifer. However, no ground water was observed to be seeping into the pit (Figure 5 and Figure 6). The pit remained dry from the morning of August 26 through the evening of August 28. Based on these observations and the presence of relatively impermeable native soil in the pit sidewalls, we conclude that the pit did not intersect a shallow aquifer. Water in the tank pit apparently originated by infiltration through manways, through cracks in the overlying asphalt pavement, and through seams between asphalt pavement and concrete pavement.

ANALYTICAL RESULTS

Soil samples were collected from the UST pit and adjacent pump island at the locations indicated in Figure 2. Samples 080999-4 and -5 were analyzed for gasoline, BTEX and Lead by CCI Analytical Laboratories, Inc. (Everett, Washington), using the NWTPH-GX, EPA 8021 and EPA 7420 methods, respectively. The remaining samples were analyzed for gasoline range hydrocarbons and BTEX exclusively. The complete laboratory reports are included in Appendix II and the results are summarized in Table 1.

TABLE 1 Analytical Results – Soil Samples Collected 8/9/99 – 8/2699 – 8/27/99

		David	Field Scr Resu			(mg/kg) (mg	Gasoline	Volatile Aromatic Hydrocarbons (mg/kg)							
Sample #	Sample Location	Depth (feet)	Headspace Vapors (ppm)	Sheen	Fate		(mg/kg)	В	T	E	x				
080999-4	E. Pump Is.	2.1	5	NA	Residual	3	ND	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
080999-5	E. Pump Is.	2.0	2	NA	Residual	. 2	ND	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082499-4	Mid. Pump Is.	6.5	ND	NA	Residual	NA	ND	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082499-5	W. Pump Is.	5.5	ND	NA .	Residual	NA	ND	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082499-6	W. Pump Is.	6.0	ND	NA	Residual	NA	ND	ND<0.1	ND<0.1	·ND<0.1	ND<0.3				
082699-1	Pit Floor	14.0	ND	NA	Residual	NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082699-2	W. Sidewall	10.0	ND	NA	Residual	NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082699-3	Pit Floor	14.0	ND	NA	Residual	- NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082699-4	S. Sidewall	10.5	10	NA	Residual	NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082699-5	S. Sidewall	10.0	5	NA	Residual	NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082699-6	N. Sidewall	9.0	ND	NA	Residual	NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082699-7	Pit Floor	14.5	ND	NA	Residual	NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082699-8	S. Sidewall	10.5	ND	NA	Residual	NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082699-9	N. Sidewall	9.0	ND .	NA	Residual	NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082799-1	E. Sidewall	9.5	5	NA	Residual	NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082799-2	Pit Floor	13.0	3	NA	Residual	NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
082799-3	N. Sidewall	10.5	ND	NA	Residual	NA	ND<5	ND<0.1	ND<0.1	ND<0.1	ND<0.3				
Method A C	leanup Standard		1		11.	250	100	0.5	40	20	20				

Shaded analytical results exceed the Model Toxics Control Act Cleanup Regulation Method A recommended cleanup standards; mg/kg = parts-per-million; NA = not analyzed. B= Benzene, T= Toluene, E= Ethylbenzene, X= Xylene.

Sheen:

NS – No Sheen LS – Light Sheen MS – Moderate Sheen

HS - Heavy Sheen

Gasoline range hydrocarbon products and BTEX were not detected in any of the cleanup confirmation samples. Cleanup standards in the State of Washington are regulated under the *Model Toxics Control Act Cleanup Regulation* (MTCA, Chapter 173-340 WAC). Method A recommended cleanup standards as defined in the MTCA are generally applied to hydrocarbon products. The Method A cleanup standard for gasoline range hydrocarbon products is 100 mg/kg.

CONCLUSIONS

During removal of four UST's, a strong gasoline odor was encountered in the associated tank pit. A gasoline sheen was also observed on ponded water in the tank pit. Approximately 24,400 gallons of contaminated water was removed from the tank pit and disposed by Mar-Vac of Seattle, Washington. No ground water seeps were observed from the walls of the pit, and we conclude that the pit did not intersect a shallow water table and that ground water has not been impacted by the release. Approximately 703 cubic yards of contaminated soil was treated by thermal desorption at CSR Associated in Everett, Washington. Soil samples were collected from the tank pit and beneath the former pump island, and analytical results indicate that all petroleum contaminated soil has been removed.

Based on these analytical results, we conclude that independent cleanup efforts have successfully removed and treated the contaminated soil, and that the subject property does not present a threat to human health or the environment. We are therefore requesting a determination of "No Further Action" for this site.

INDEMNIFICATION AND LIMITATIONS

The analytical results, conclusions and recommendations within this report are based on the soil samples collected from the indicated locations at the time this report was prepared, and should not be construed as a warranty of the subsurface conditions throughout the site. No environmental investigation can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. An environmental investigation is intended to reduce, but not eliminate, uncertainty regarding the existence of recognized environmental conditions.

Within the limitations of scope, schedule and budget for our work, we warrant that our work has been done in accordance with our proposal and generally accepted environmental assessment practices followed in this area at the time the report was prepared. No other warranty, express or implied, is made.

October 25, 1999

Report - Independent Remedial Action (Amex Tax & Duty Free - 253 C Street)

We appreciate the opportunity to be of service to you. Should you have any questions concerning this report or require further information, please contact our office at (360)-676-9589 or (800)-859-5597.

Sincerely,

BEK ENGINEERING, INC.

Jon M. Einarsen, Ph.D., Principal

Geologist

WA UST Assessor and Decommissioning License #32-US-000684

Attach: APPENDIX I

Figure 1 – Site Vicinity Map

Figure 2 – Generalized Site Plan and Sample Locations

Figures 3 to 6 – Site Photographs

APPENDIX II

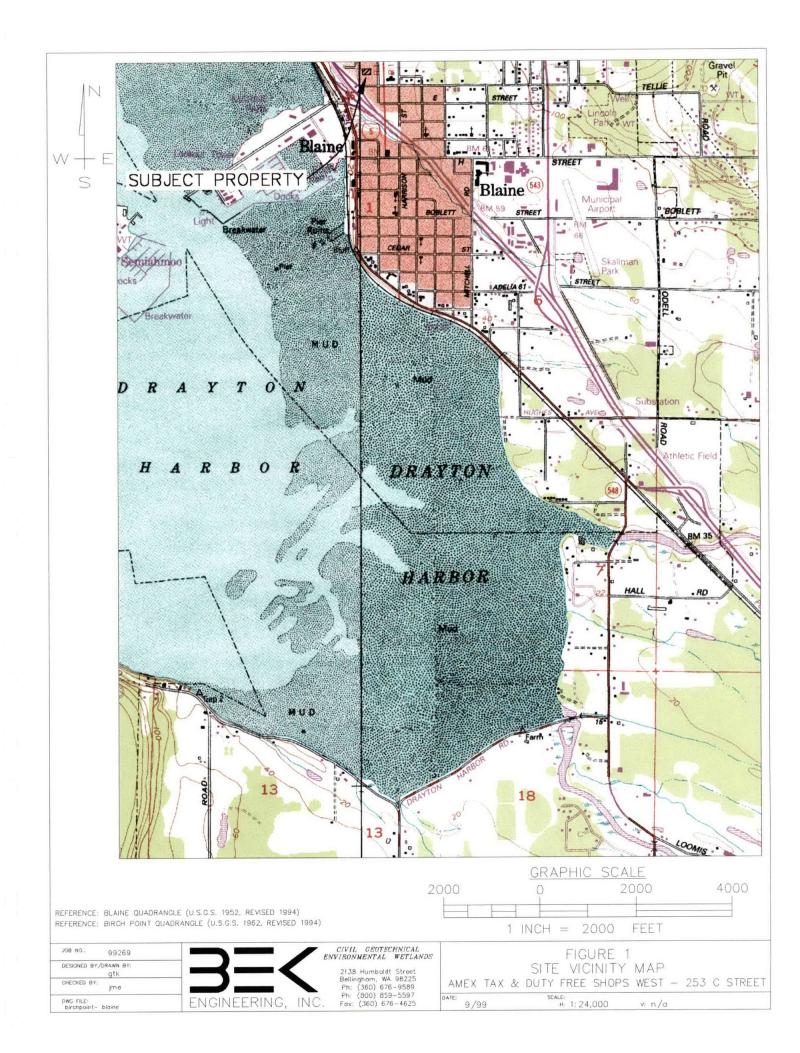
Laboratory Reports
Release of Liability / Certificate of Disposal

Attach: Voluntary Cleanup Program Request for Assistance Form Voluntary Cleanup Program Site Summary

6

APPENDIX I

Figure 1 – Site Vicinity Map
Figure 2 – Generalized Site Plan & Sample Locations
Figures 3 to 6 – Site Photographs



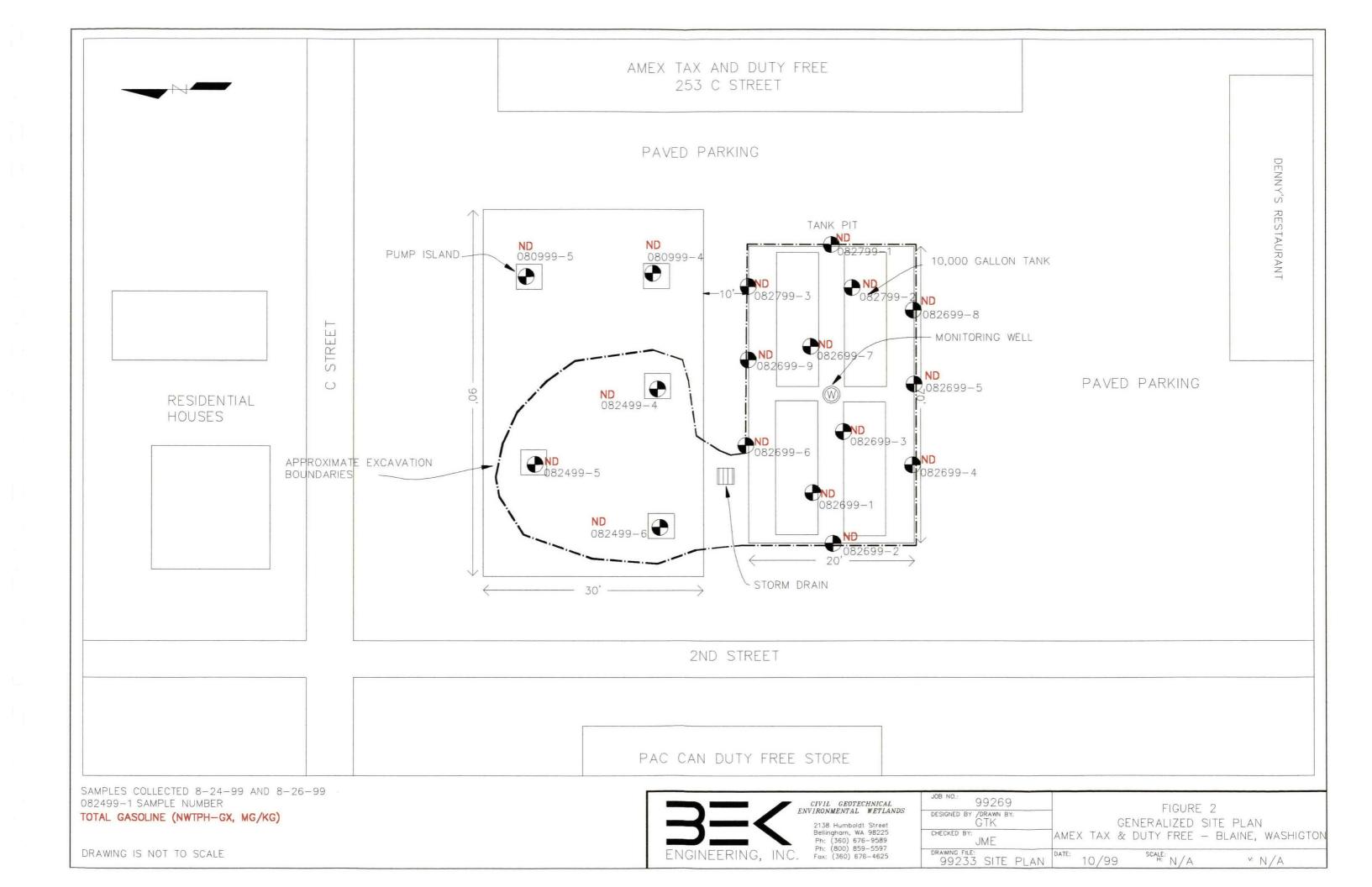




Figure 3. Subject property view to the west. Water in tank pit is approximately 5.0 feet below ground surface in this photograph.



Figure 4. Subject property view to the east. Photograph of water in the tank pit. Water in the foreground is at a deeper elevation due to a clay wall that was created to aid in excavation.



Figure 5. Photograph of west wall of tank pit after water was pumped out. Water at the bottom of the excavation originated from a 1.5 foot thick layer of pea gravel that was underlain by native blue clay.

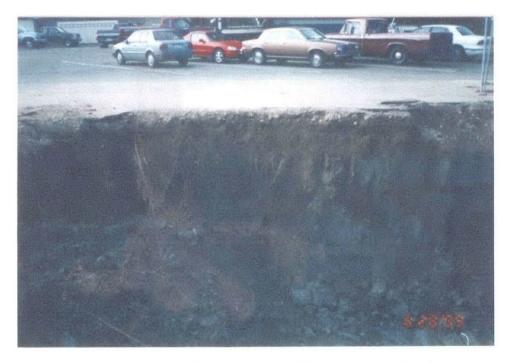


Figure 6. Photograph of the south wall of the excavation. Depth to pit bottom was approximately 14.0 feet.

APPENDIX II

Laboratory Reports Release of Liability / Certificate of Disposal

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ľ	Everett, WA 98201
ľ	Phone (425) 252-2620
_	(206) 292-9059 Seattle
	(425) 259-6289 Fax

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	* Turnaround Requests less than standard may incur Rush Charges.



CLIENT: BEK ENGINEERING

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9/1/99

2138 HUMBOLDT ST.

CCIL JOB #:

908099

BELLINGHAM, WA 98225

CCIL SAMPLE #:

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DATE RECEIVED:

8/25/99

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

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082499-4 8/24/99 13:00

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BENZENE	EPA-8021	ND(<0.1)	MG/KG	.5MG/KG	9/1/99	LAH		
TOLUENE	EPA-8021	ND(<0.1)	MG/KG	40MG/KG	9/1/99	LAH		
ETHYLBENZENE	EPA-8021	ND(<0.1)	MG/KG	20MG/KG	9/1/99	LAH		
XYLENES	EPA-8021	ND(<0.3)	MG/KG	20MG/KG	9/1/99	LAH		

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^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



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CCIL SAMPLE #:

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DATE RECEIVED:

8/25/99

WDOE ACCREDITATION #:

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CLIENT CONTACT: JON EINARSEN

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APPROVED BY:

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082499-6 8/24/99 13:30

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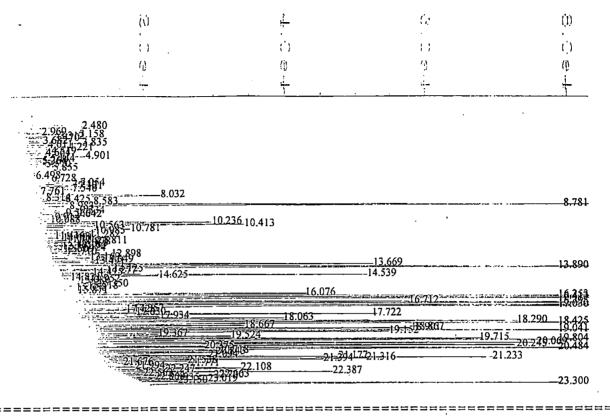
CLIENT PROJECT ID:

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QUALITY CONTROL RESULTS

SURROGATE RECOVERY								
CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV					
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908099-01	EPA-8021	TFT	91					
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908099-02	EPA-8021	TFT	66					
908099-03	NWTPH-GX	TFT	56					
908099-03	EPA-8021	TFT	74					
908099-04	NWTPH-GX	TFT	55					
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APPROVED BY:



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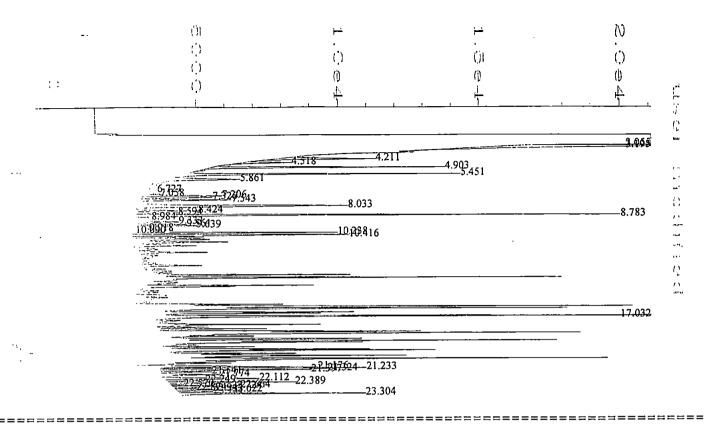
Sig. 2 in D:\HPCHEM\2\DATA\29083001\011R0301.D

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, ->							ĺ
7.054	36859	VV	0.086	1	0.189	Benzene	
8.781	452719	VV	0.074	1	9.086	TFT surrogate : 16 Mill = 91%	
10.781	82765	VV	0.092	1	0.416	Toluene	
13.669	217590	VV	0.069	1	1.561	Ethylbenzene	
13.890	587173	VV	0.074	1	2.753	M+P-Xylene	
14.539	167280	VV	0.057	1	0.924	O-Xylene	

B.T. < 0.1mg/kg = 1.56/ ug/L × 5mL × 0.011 = 0.1 mg/kg 0.1ml × 5.71g = 0.1 mg/kg = < 23mg/kg 0.3

Dry wt= 5.7/g

4- 9-1-991H



Arguired on : 30 Aug 99 03:22 PM Instrument Method: TPHG0699.MTH F port Created on: 01 Sep 99 02:04 PM Analysis Method : TPHG0899.MTH

Last Recalib on : 31 AUG 99 08:52 AM Sample Amount : 0
N ltiplier : 1 ISTD Amount :

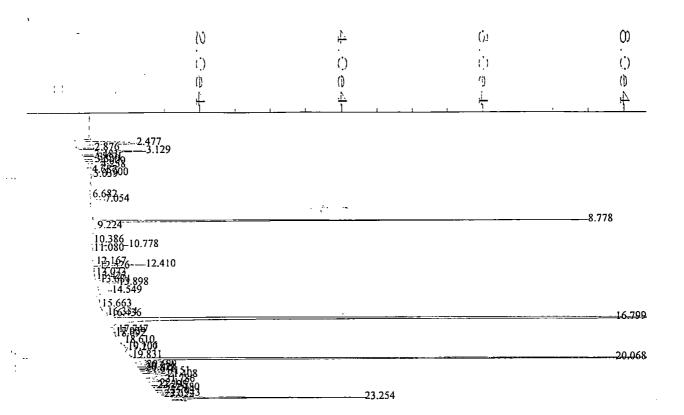
Sig. 1 in D:\HPCHEM\2\DATA\29083001\011F0301.D

				Width			Name
ľ							
	8.783	83671	VV	0.073	1	6.712	TFT-surrogate :10x100=677
- 1	17.032					230.756	gasoline envelop

User Modified

(705-230.756,49/L × 5mL × 0.01L = 20mg/kg washing gashing

9-1-99 LH



Data File Name : D:\HPCHEM\2\DATA\29083101\027R1401.D

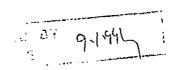
C erator : LAH Page Number : 1
1 strument : GAS/BTEX Vial Number : 27
Sample Name : 908099-2 100UL Injection Number : 1
1 n Time Bar Code: Sequence Line : 14

I st Recalib on : 18 AUG 99 01:03 PM Sample Amount : 0
Nultiplier : 1 ISTD Amount :

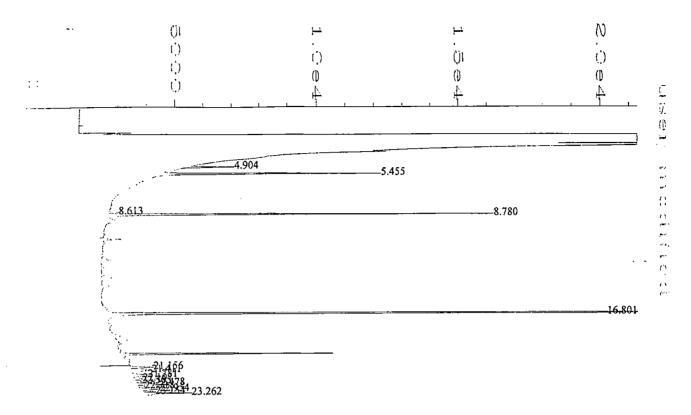
g. 2 in D:\HPCHEM\2\DATA\29083101\027R1401.D

; g. z m	D:\HPCHEM\Z	DAIA	/230031		KT40T.D		
ket Time			Width		_	Name	
1							
7.054	12462	$\nabla \nabla$	0.093	1		Benzene	
8.778	337617	BV	0.073	1	6.640	TFT surrogate : 10 x100=66%	
10.778	21940	BV	0.064	1	0.110	Toluene	
13.684	3084	PV	0.072	1	0.0191	Ethylbenzene	
13.898	19879	VV	0.092	1	0.0801	M+P-Xylene	
14.549	11208	BV	0.085	1	0.0619	O-Xylene	

BTE < C.lingling X < C.3 mg/kg



Dry Wt = 5.5%



*=====================================	=======================================

! ta File Name : D:\HPCHEM\2\DATA\29083101\027F1401.D

Operator : LAH Page Number : 1

T strument : GAS/BTEX Vial Number : 27

! mple Name : 908099-2 100UL Injection Number : 1

Run Time Bar Code: Sequence Line : 14

quired on : 01 Sep 99 01:36 AM Instrument Method: TPHG0899.MTH port Created on: 01 Sep 99 02:02 PM Analysis Method : TPHG0899.MTH

Last Recalib on : 31 AUG 99 08:52 AM Sample Amount : 0

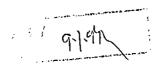
I ltiplier : 1 ISTD Amount

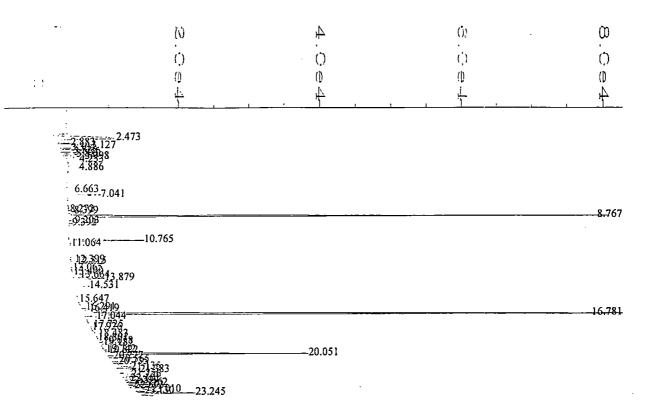
Sig. 1 in D:\HPCHEM\2\DATA\29083101\027F1401.D

: :t Time		Туре	Width			Name	
8.780	64478	 VF	0.072	1	5.173	TFT-surrogate :10 x166-52%	
16.801	435808					gasoline envelop	

Ther Modified

Gas < 5.0 mg/kg





: D:\HPCHEM\2\DATA\29083101\029R1401.D Data File Name Page Number : 1 : LAH * erator

Vial Number strument : GAS/BTEX : 908099-3 100UL Injection Number: 1 Sample Name

Sequence Line : 14 in Time Bar Code:

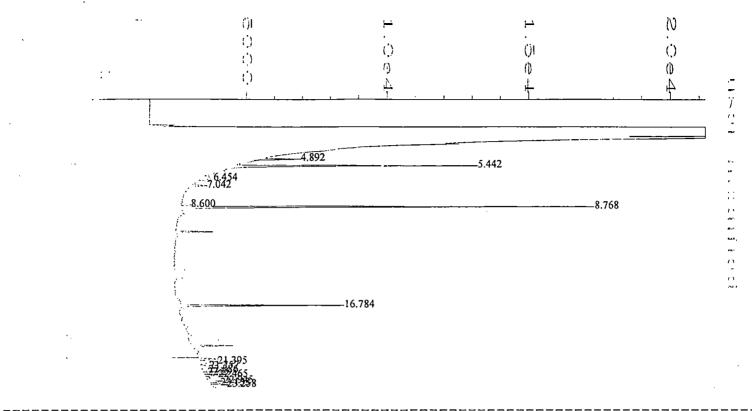
Instrument Method: TPHG0899.MTH acquired on : 01 Sep 99 02:40 AM Analysis Method : BTEX2899.MTH Report Created on: 01 Sep 99 03:03 AM

Sample Amount st Recalib on : 18 AUG 99 01:03 PM ISTD Amount multiplier

_	D:\HPCHEM\2\	•	-	•		
Ret Time	Area	Туре	Width	Ref#	ug/l	Name
` , 						
7.041	25214	VV	0.082	1	0.129	Benzene
8.767	374707	VV	0.074	1	7.428	TFT surrogate : 10 ×100-74%
10.765	44341	PV	0.062	1 .	0.223	Toluene
13.664	4692	PV	0.066	1	0.0290	Ethylbenzene
13.879	28262	VV	0.090	1 ·	0.114	M+P-Xylene
14.531	13382	VV.	0.091	1	0.0739	O-Xylene

BTE < C.ling lkg X < C.3 mg/kg

Dry W= 5.130



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Run Time Bar Code: Sequence Line : 14

quired on : 01 Sep 99 02:40 AM Instrument Method: TPHG0899.MTH port Created on: 01 Sep 99 02:03 PM Analysis Method : TPHG0899.MTH

Last Recalib on : 31 AUG 99 08:52 AM Sample Amount : 0

1 ltiplier : 1
ISTD Amount

Sig. 1 in D:\HPCHEM\2\DATA\29083101\029F1401.D

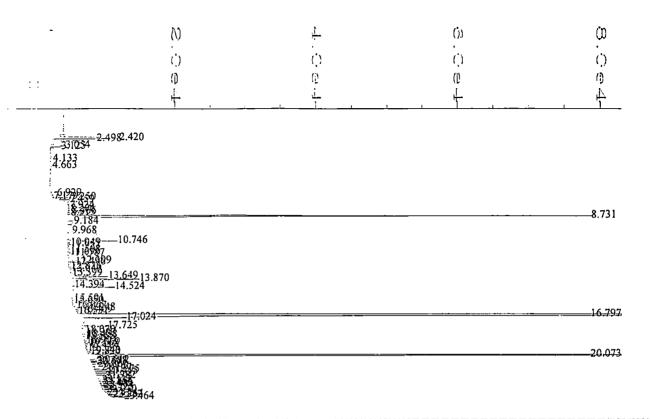
) t Time					•	Name	
=					-		
8.768	69263	VF	0.072	1	5.557	TFT-surrogate - 10 x100-56 %	
						2 1	

16.784 225943 MM 0.608 1 19.192 gasoline envelop

Ter Modified

Gas < 5.0 mg/kg

9-1-44



I ta File Name : D:\HPCHEM\2\DATA\29090101\006R0201.D

Page Number Operator : LAH strument : GAS/BTEX Vial Number : 908099-4 100UL Injection Number: 1 : mple Name Sequence Line : 2 Run Time Bar Code:

Instrument Method: TPHG0899.MTH I port Created on: 01 Sep 99 03:30 PM Analysis Method : BTEX2899.MTH

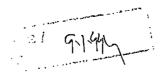
Last Recalib on : 18 AUG 99 01:03 PM Sample Amount ISTD Amount

! ltiplier

Sia.	2	in	D:\	HPCHEM\	2\	'ATAG	29090101	\006R0201.D
. 9.	~	-1-11	<i>-</i> - 1	, , , , , , , , , , , , , , , , , , , ,		\ <i>_</i>	123030202	(00010000000

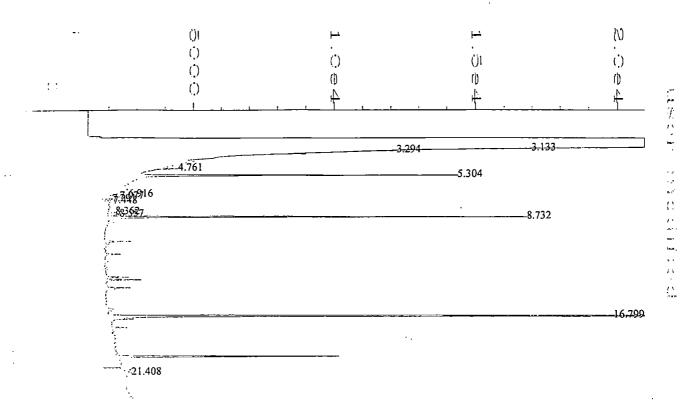
Sig. 2 in	1 D:\HPCHEM\2`	\DATA'	\290901	101/006	5R0201.D		
l t Time	Area	Type	Width	Ref#	ug/l	Name	
7.179	1615	·VV	0.117	1	0.00826		
8.731	353497	VV	0.072	1	6.978	TFT surrogate 10 ×100 = 76%	
10.746	29799	PV	0.063	1	0.150	Toluene	
13.649	21864	BV	0.061	1	0.135	Ethylbenzene	
13.870	44058	VV	0.067	1	0.178	M+P-Xylene	
14.524	24378	VV	0.060	1	0.135	O-Xylene	

BTE < 0.1 mg/kg × < 0.3 mg/kg



Dry W+=5.Cla;

1 . 11



Operator : LAH Page Number : 1
I strument : GAS/BTEX Vial Number : 6
5 mple Name : 908099-4 100UL Injection Number : 1

I ta File Name : D:\HPCHEM\2\DATA\29090101\006F0201.D

Run Time Bar Code: Sequence Line : 2

F quired on : 01 Sep 99 03:06 PM Instrument Method: TPHG0899.MTH F port Created on: 01 Sep 99 03:31 PM Analysis Method : TPHG0899.MTH

Last Recalib on : 31 AUG 99 08:52 AM Sample Amount : 0

N ltiplier : 1 ISTD Amount

Sig. 1 in D:\HPCHEM\2\DATA\29090101\006F0201.D

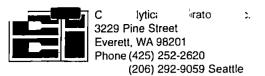
	Area		= '	Name
•				
8.732 16.799				TFT-surrogate - (CY(C)~55%

€ er Modified

Gas = 5. Cinglkg

9199

~ 1 ~ ^ 11



Laboratory Analysis Request

C(rator	Only	

(425) 259-6289 Fax	 Date <u>3/24/9/</u> Page	Of	/
99253	Dute (2/22//17) age	0	_

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PROJECT ID: 99233																			- , 		J			_		-
PROJECT ID: 99273 REPORT TO COMPANY: BEKE. G.	il wer ign		·		AN	VALY	SIS	BEC	UES	TED				-			OTF	IER (S	necify	/)						
PROJECT THE MANAGER:	arsen					1		1		1								(0		1						
ADDRESS: 2138 HU Bellingham PHONE: 360-676-95	m bold	1 54									,						Herb					Ì				
Bellingham	WA	782	26		1									t only	TAL											نے ا
PHONE: 360-676-95	59 FAX:	360-	176-4	1625	1] Pes	□								i			NO F
INVOICE TO COMPANY:					1									only	RCR		lov-in	<u> </u>							SHE	IDNC
Λ						8015 MODIFIED						8260		EPA 8080 🗌 608 🗍 PCB only 🗎 Pest only 🖰	Metals Priority Pollutant 🔲 RCRA	_	TCLP Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐								NIMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
ATTENTION: Sand					1	15 MC				0	<u> </u>	24	\ \ \ \ \		olluta	pecily	VOA[He				1			, N	, ŏ
10011230.					1		<u>~</u>		₽	EPA 8020 602	EPA 8010 601	EPA 8240 🗌 624 🗌	EPA 8270 □ 625 □	09	ority F	Metals Other (Specily)	□ st	i							O.	, ≧ . Ω
PO. NUMBER:	CCI QL	JOTE:			WTPH-G	WTPH-D	WTPH-418.1	_	WTPH-HCID	8020	8010	8240	8270	8080	als Pri	als Ott	P Meta	10/2/							ABE	, K
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	¥Ţ.	WTF	WTF	втех	¥	EPA	EPA	EPA	EPA	EPA	Meta	Meta	፬	~							Ž	<u> </u>
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Received By: _

SIGNATURES (Name, Company, Date, and Time):	
1. Relinquished By: 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Co
Received By:	-
2. Relinquished By:	

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

OTHER:

Fuels & Hydrocarbon Analysis

^{*} Turnaround Requests less than standard may incur Rush Charges.



CLIENT: BEK ENGINEERING

DATE:

9/3/99

2138 HUMBOLDT ST.

CCIL JOB #:

908112

BELLINGHAM, WA 98225

CCIL SAMPLE #:

DATE RECEIVED:

8/27/99

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

CLIENT SAMPLE ID:

082699-1 8/26/99 10:00

	DA	TA RESUL	TS			
				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		9/2/99	LAH
BENZENE	EPA-8021	ND(<0.1)	MG/KG	.5MG/KG	9/2/99	LAH
TOLUENE	EPA-8021	ND(<0.1)	MG/KG	40MG/KG	9/2/99	LAH
ETHYLBENZENE	EPA-8021	ND(<0.1)	MG/KG	20MG/KG	9/2/99	LAH
XYLENES	EPA-8021	ND(<0.3)	MG/KG	20MG/KG	9/2/99	LAH

^{* &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLO GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: BEK ENGINEERING

DATE:

9/3/99

2138 HUMBOLDT ST.

CCIL JOB #:

908112

BELLINGHAM, WA 98225

CCIL SAMPLE #:

2

DATE RECEIVED:

8/27/99

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

CLIENT SAMPLE ID:

082699-2 8/26/99 10:45

	DA	TA RESUL	TS			
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		9/2/99	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES	EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<0.1) ND(<0.1) ND(<0.1) ND(<0.3)	MG/KG MG/KG MG/KG MG/KG	.5MG/KG 40MG/KG 20MG/KG 20MG/KG	9/2/99 9/2/99 9/2/99 9/2/99	LAH LAH LAH LAH

^{* &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLO GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

APPROVED BY:

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: BEK ENGINEERING

DATE:

9/3/99

2138 HUMBOLDT ST.

CCIL JOB #:

908112

BELLINGHAM, WA 98225

CCIL SAMPLE #:

3

DATE RECEIVED:

8/27/99

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

CLIENT SAMPLE ID:

082699-3 8/26/99 11:00

	DA	TA RESUL	TS			
ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		9/2/99	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES	EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<0.1) ND(<0.1) ND(<0.1) ND(<0.3)	MG/KG MG/KG MG/KG MG/KG	.5MG/KG 40MG/KG 20MG/KG 20MG/KG	9/2/99 9/2/99 9/2/99 9/2/99	LAH LAH LAH LAH

^{• &}quot;ND" INDICATES ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLO GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

APPROVED BY

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: BEK ENGINEERING

DATE:

9/3/99

2138 HUMBOLDT ST. BELLINGHAM, WA 98225 CCIL JOB #:

908112

CCIL SAMPLE #:

DATE RECEIVED:

8/27/99

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

CLIENT SAMPLE ID:

082699-4 8/26/99 11:45

	DA [*]	A RESUL	TS			
-				•	Ļ	
				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	вү
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		9/2/99	LAH
BENZENE	EPA-8021	ND(<0.1)	MG/KG	.5MG/KG	9/2/99	LAH
TOLUENE	EPA-8021	ND(<0.1)	MG/KG	40MG/KG	9/2/99	LAH
ETHYLBENZENE	EPA-8021	ND(<0.1)	MG/KG	20MG/KG	9/2/99	LAH
XYLENES	EPA-8021	ND(<0.3)	MG/KG	20MG/KG	9/2/99	LAH

^{* &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLL(GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



BEK ENGINEERING CLIENT:

DATE:

9/3/99

2138 HUMBOLDT ST.

CCIL JOB #:

908112

BELLINGHAM, WA 98225

CCIL SAMPLE #:

DATE RECEIVED:

8/27/99

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

CLIENT SAMPLE ID:

082699-5 8/26/99 12:15

	DA	A RESUL	TS			
ANALYTE	METHOD	RESULTS'	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		9/2/99	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES	EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<0.1) ND(<0.1) ND(<0.1) ND(<0.3)	MG/KG MG/KG MG/KG MG/KG	.5MG/KG 40MG/KG 20MG/KG 20MG/KG	9/2/99 9/2/99 9/2/99 9/2/99	LAH LAH LAH LAH

^{* &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT, REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLL(GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

APPROVED BY:

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: BEK ENGINEERING

DATE:

9/3/99

2138 HUMBOLDT ST.

CCIL JOB #:

908112

BELLINGHAM, WA 98225

CCIL SAMPLE #:

DATE RECEIVED:

8/27/99

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

CLIENT SAMPLE ID:

082699-6 8/26/99 12:45

	DA	A RESUL	TS			
	METHOD	RESULTS*	UNITS**	ACTION	ANALYSIS DATE	ANALYSIS BY
ANALYTE	METHOD	RESULIS	Olitica			
TPH-VOLATILE RANGÉ	NWTPH-GX	ND	MG/KG		9/2/99	LAH
BENZENE	EPA-8021	ND(<0.1)	MG/KG	.5MG/KG	9/2/99	LAH
TOLUENE	EPA-8021	ND(<0.1)	MG/KG	40MG/KG	9/2/99	LAH
ETHYLBENZENE	EPA-8021	ND(<0.1)	MG/KG	20MG/KG	9/2/99	LAH
XYLENES	EPA-8021	ND(<0.3)	MG/KG	20MG/KG	9/2/99	LAH

^{• &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWARD GASOLINE (VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

APPROVED BY:

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: BEK ENGINEERING

DATE:

9/3/99

2138 HUMBOLDT ST.

CCIL JOB #:

908112

BELLINGHAM, WA 98225

CCIL SAMPLE #:

7

DATE RECEIVED:

8/27/99

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

CLIENT SAMPLE ID:

082699-7 8/26/99 13:00

	DA	IA RESUL	TS			
				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		9/2/99	LAH
BENZENE	EPA-8021	ND(<0.1)	MG/KG	.5MG/KG	9/2/99	LAH
TOLUENE	EPA-8021	ND(<0.1)	MG/KG	40MG/KG	9/2/99	LAH
ETHYLBENZENE	EPA-8021	ND(<0.1)	MG/KG	20MG/KG	9/2/99	LAH
XYLENES	EPA-8021	ND(<0.3)	MG/KG	20MG/KG	9/2/99	LAH

^{* &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLL(GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: BEK ENGINEERING

DATE:

9/3/99

2138 HUMBOLDT ST. BELLINGHAM, WA 98225 CCIL JOB #:

908112

CCIL SAMPLE #:

8

DATE RECEIVED:

8/27/99

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

CLIENT SAMPLE ID:

082699-8 8/26/99 13:30

	DA	TA RESUL	TS			
				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		9/3/99	LAH
BENZENE	EPA-8021	ND(<0.1)	MG/KG	.5MG/KG	9/3/99	LAH
TOLUENE	EPA-8021	ND(<0.1)	MG/KG	40MG/KG	9/3/99	LAH
ETHYLBENZENE	EPA-8021	ND(<0.1)	MG/KG	20MG/KG	9/3/99	LAH
XYLENES	EPA-8021	ND(<0.3)	MG/KG	20MG/KG	9/3/99	LAH

^{* &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLO GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: BEK ENGINEERING

2138 HUMBOLDT ST. BELLINGHAM, WA 98225

CCIL JOB #:

9/3/99 908112

CCIL SAMPLE #:

DATE:

DATE RECEIVED:

8/27/99

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID: CLIENT SAMPLE ID:

99233

082699-9 8/26/99 13:45

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		9/2/99	LAH
BENZENE TOLUENE ETHYLBENZENE XYLENES	EPA-8021 EPA-8021 EPA-8021 EPA-8021	ND(<0.1) ND(<0.1) ND(<0.1) ND(<0.3)	MG/KG MG/KG MG/KG MG/KG	.5MG/KG 40MG/KG 20MG/KG 20MG/KG	9/2/99 9/2/99 9/2/99 9/2/99	LAH LAH LAH LAH

^{* &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLO GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: BEK ENGINEERING

DATE: 9/3/99

2138 HUMBOLDT ST.

CCIL JOB #: 908112

BELLINGHAM, WA 98225

DATE RECEIVED: 8/2

8/27/99

WDOE ACCREDITATION #:

C142

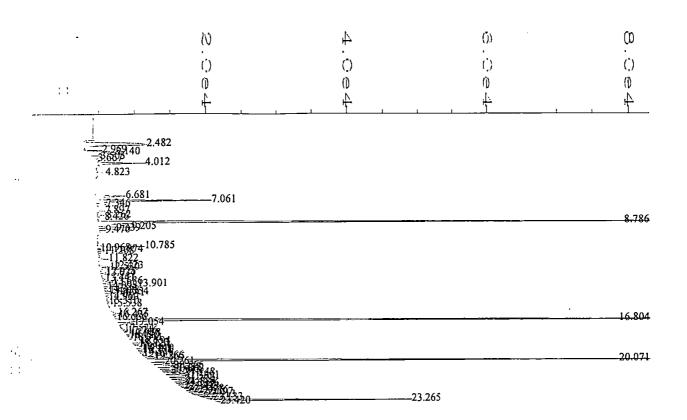
CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

QUALITY CONTROL RESULTS

	SURROGATE RE	COVERY	
CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
908112-01	NWTPH-GX	TFT	74
908112-01	EPA-8021	TFT	96
908112-02	NWTPH-GX	TFT	71
908112-02	EPA-8021	TFT	91
908112-03	NWTPH-GX	TFT	67
908112-03	EPA-8021	TFT	86
908112-04	NWTPH-GX	TFT	69
908112-04	EPA-8021	TFT	89
908112-05	NWTPH-GX	TFT	73
908112-05	EPA-8021	TFT .	95
908112-06	NWTPH-GX	TFT	64
908112-06	EPA-8021	TFT	81
908112-07	NWTPH-GX	TFT	58
908112-07	EPA-8021	TFT .	73
908112-08	NWTPH-GX	TFT	69
908112-08	EPA-8021	TFT	89
908112-09	NWTPH-GX	TFT	68
908112-09	EPA-8021	TFT	87



: D:\HPCHEM\2\DATA\29090201\015R0801.D 1 .ta File Name Page Number : LAH Operator Vial Number : 15 : GAS/BTEX ⊤nstrument : 908112-1 100UL Injection Number: 1 : mple Name Sequence Line : 8 Run Time Bar Code: Instrument Method: TPHG0899.MTH :quired on : 02 Sep 99 06:43 PM Analysis Method : BTEX2899.MTH :port Created on: 02 Sep 99 07:07 PM Last Recalib on : 18 AUG 99 01:03 PM Sample Amount ISTD Amount ıltiplier

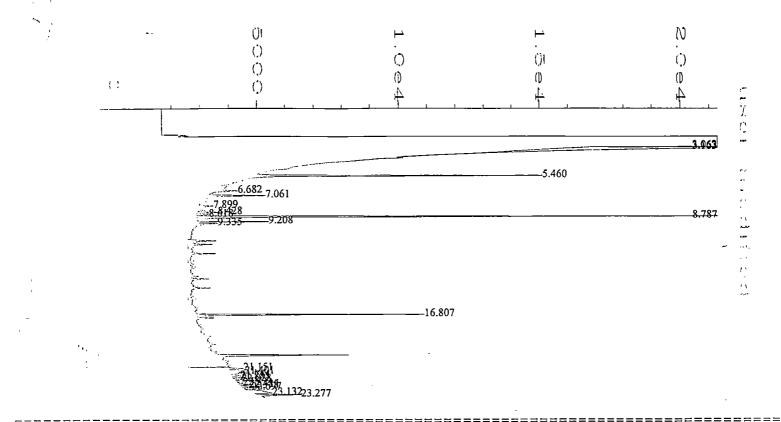
Sig. 2 in D:\HPCHEM\2\DATA\29090201\015R0801.D

Sig. 2 in	D: \HPCHEM\2	(DATA	\290902	SOT/OT:	OKOROT.D		
et Time	Area	Type	Width	Ref#	ug/l	Name	
7.061	89824	BV	0.084	1	0.459	Benzene	
8.786	476002	VV	0.073	1	9.581	TFT surrogate - 10 X100 -96 %	
10.785	31963	BV	0.069	1	0.161	Toluene	
13.686	7970	VV	0.082	1	0.0493	Ethylbenzene	
13.901	25772	VV	0.077	1	0.104	M+P-Xylene	
14.554	8542	VV	0.064	1	0.0472	O-Xylene	

BTG < 0.1mg/kg X < 0.3mg/kg

9-3946

Dry wt = 5.509



1 ta File Name : D:\HPCHEM\2\DATA\29090201\015F0801.D

Page Number Operator : LAH Vial Number : GAS/BTEX --strument ! mple Name : 908112-1 100UL Injection Number: 1 Sequence Line : 8

Run Time Bar Code:

Instrument Method: TPHG0899.MTH : 02 Sep 99 06:43 PM 1 quired on Analysis Method : TPHG0899.MTH port Created on: 03 Sep 99 08:39 AM

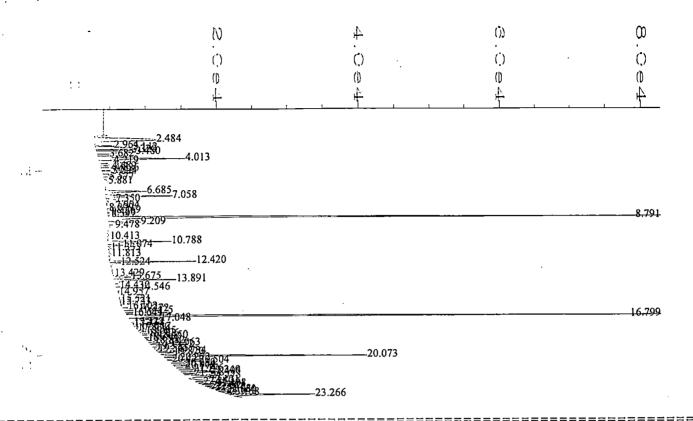
Sample Amount Last Recalib on : 31 AUG 99 08:52 AM ISTD Amount liltiplier

1 in D.\HPCHEM\2\DATA\29090201\015F0801.D

O-911	D. \111 C11D11 \2	12111	(250502			
	Area					Name
-				-		
8.787	92241	VV	0.072	1	7.400	TFT-surrogate 10400=74%
16 907	222010	MM	0 646	1	27 508	dasoline envelop

rer Modified

Gas < 5.0 mg/kg



: D:\HPCHEM\2\DATA\29090201\016R0801.D ta File Name Page Number : LAH Operator Vial Number : 16 : GAS/BTEX ıstrument : 908112-2 100UL Injection Number: 1 imple Name Run Time Bar Code: Sequence Line Instrument Method: TPHG0899.MTH : 02 Sep 99 07:15 PM guired on Analysis Method : BTEX2899.MTH port Created on: 02 Sep 99 07:39 PM Sample Amount Last Recalib on : 18 AUG 99 01:03 PM ISTD Amount ultiplier

Sia.	2	in	D:\HPCHEM\2\DATA\29090201\016R0801.D

19. Z 11	D. MECHEN Z	DUIL	(2)0)02	207 (07)	110001.5	
∍t Time	Area	Type	Width	Ref#	ug/l	Name
7.058	59998	VV	0.097	1	0.307	Benzene
8.791	453800	VV	0.073	1	9.109	TFT surrogate : 16×166-9190
10.788	41918	PV	0.068	1		Toluene
13.675	11571	VV	0.068	1	0.0716	Ethylbenzene
13.891	47738	VV	0.078	1	0.192	M+P-Xylene
14.546	20353	VV	0.084	1	0.112	O-Xylene
						•

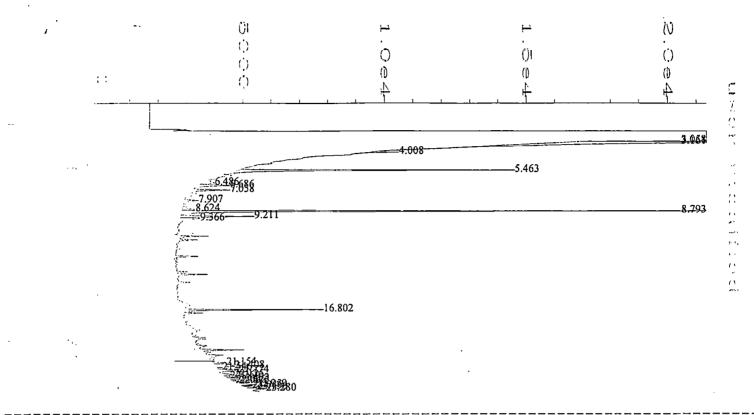
BTE < 0. ling/kg X < 0.3 mg/kg

1 0 0 0 1 9-394V

Dry wt=4.71g

< 129/ × 5ml × 0.01 < 0.1 mg/kg

01-2-991.H



ta File Name : D:\HPCHEM\2\DATA\29090201\016F0801.D

Operator : LAH Page Number : 1

istrument : GAS/BTEX Vial Number : 16

imple Name : 908112-2 100UL Injection Number : 1

Run Time Bar Code: Sequence Line : 8

equired on : 02 Sep 99 07:15 PM Instrument Method: TPHG0899.MTH port Created on: 03 Sep 99 08:40 AM Analysis Method : TPHG0899.MTH

Last Recalib on : 31 AUG 99 08:52 AM Sample Amount : 0

Iltiplier : 1 ISTD Amount

Sig. 1 in D:\HPCHEM\2\DATA\29090201\016F0801.D

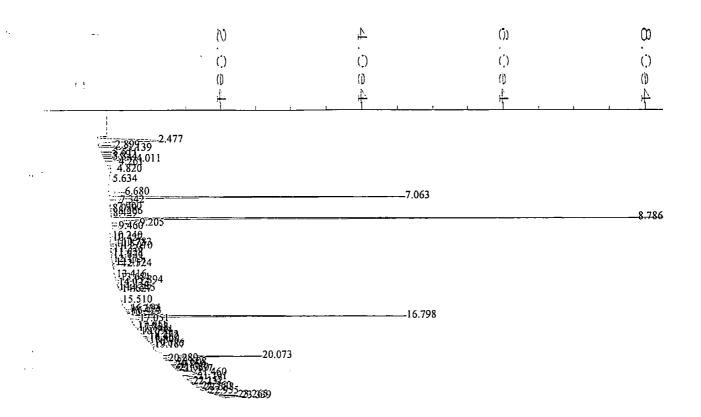
	Area	4 -			.	Name	
 -							ļ
8.793	88444	VV	0.072	1	7.095	TFT-surrogate -10/10-71%	
16 000	202617					angeline envelop	

16.802 292617 MM 0.918 1 24.855 gasoline envelop

er Modified

Gas < 5.0mg/kg

9.394



I ta File Name : D:\HPCHEM\2\DATA\29090201\019R0801.D

Operator : LAH Page Number : 1

T-strument : GAS/BTEX Vial Number : 19

mple Name : 908112-3 100UL Injection Number : 1

Run Time Bar Code: Sequence Line : 8

Last Recalib on : 18 AUG 99 01:03 PM Sample Amount : 0

ltiplier : 1 ISTD Amount :

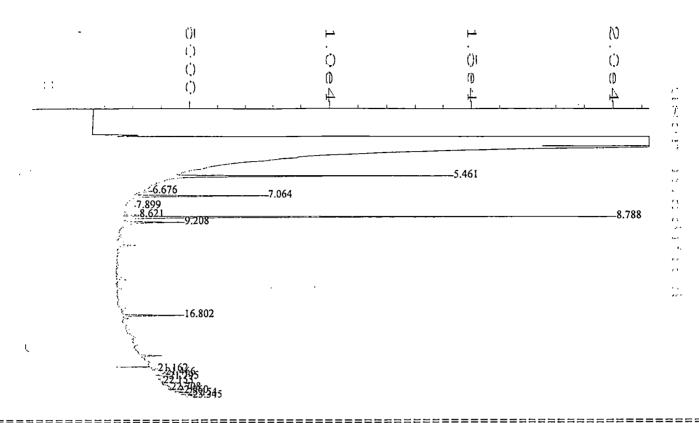
Sig. 2 in D:\HPCHEM\2\DATA\29090201\019R0801.D

519. Z III	D: /HPCHEM/Z	DAIN	(230302	SOT (OT)	KOOOT.D	
] t Time	Area	Type	Width	Ref#	ug/l	Name
ţ = 		-			-	
7.063	221881	VV	0.080	1		Benzene
8.786	429074	PV	0.074	1	8.584	TFT surrogate the the successful
10.783	6485	BV	0.060	1	0.0326	Toluene
13.681	3259	VV	0.070	1	0.0202	Ethylbenzene
13.894	12425	VV	0.076	1	0.0501	M+P-Xylene
14.545	3912	VV	0.059	1	0.0216	O-Xylene

BIE < C. linglikg X < C. 3 mg/kg

9-394

Dryw+=5.7:



l ta File Name : D:\HPCHEM\2\DATA\29090201\019F0801.D

Operator : LAH Page Number : 1
strument : GAS/BTEX Vial Number : 19
mple Name : 908112-3 100UL Injection Number : 1
Run Time Bar Code: Sequence Line : 8

quired on : 02 Sep 99 08:50 PM Instrument Method: TPHG0899.MTH Analysis Method : TPHG0899.MTH

Last Recalib on : 31 AUG 99 08:52 AM Sample Amount : 0

filtiplier : 1 ISTD Amount

Sig. 1 in D:\HPCHEM\2\DATA\29090201\019F0801.D

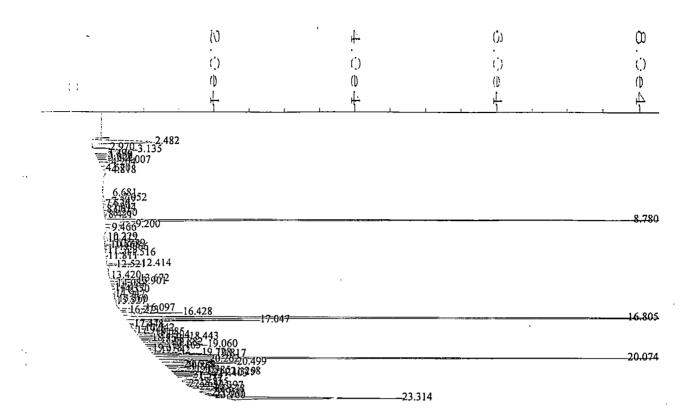
			Width			Name	
8.788	83972	VV	0.073	1	6.737	TFT-surrogate : 10x100=47%	
16.802	202156				17.171	gasoline envelop	

ser Modified

Cas x5.0 mg/kg

9-394

9-3-9961



```
: D:\HPCHEM\2\DATA\29090201\017R0801.D
l ta File Name
                : LAH
                                              Page Number
Operator
                : GAS/BTEX
                                              Vial Number
 strument
               : 908112-4 100UL
                                              Injection Number: 1
mple Name
Run Time Bar Code:
                                              Sequence Line
guired on
           : 02 Sep 99 07:47 PM
                                              Instrument Method: TPHG0899.MTH
port Created on: 02 Sep 99 08:10 PM
                                              Analysis Method : BTEX2899.MTH
Last Recalib on : 18 AUG 99 01:03 PM
                                              Sample Amount
                                                             : 0
```

ISTD Amount

Sia '	2	in	$D \cdot '$	чьснем/	. 2 \	/ מידעת	\29N9N2N1\	017R0801.D

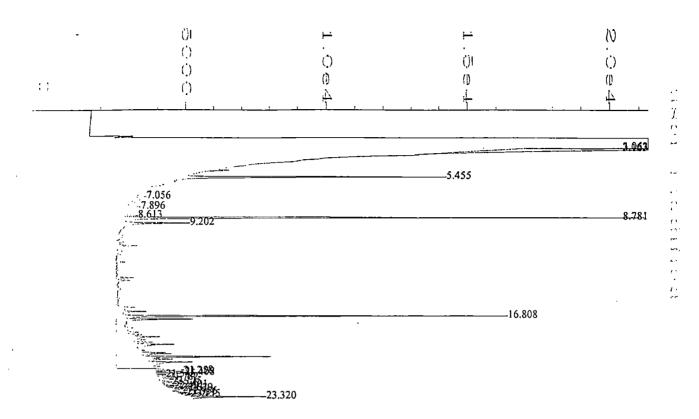
$\sim g$. $\sim 1 n$	D: \HPCHEM\2	/DATA	\290902	SOT/OT:	/K0801.D		
t Time	Area	Type	Width	Ref#	ug/l	Name	
7.052	18051	$\nabla \nabla$	0.096	1	0.0923	Benzene	
8.780	442524	VV	0.072	1	8.869	TFT surrogate : 10 LCO = 89%	
10.779	5882	PV	0.059	1		Toluene	
13.672	19282	VV	0.066	1	0.119	Ethylbenzene	
13.901	20110	VV	0.077	1	0.0811	M+P-Xylene	
14.550	9192	VV	0.120	1	0.0508	O-Xylene	

BTE < U. Img/kg X < U.3 mg/kg

lultiplier

9.399

Dry wt=5.950 5.900



Operator : LAH Page Number : 1
T strument : GAS/BTEX Vial Number : 17
! mple Name : 908112-4 100UL Injection Number : 1
Run Time Bar Code: Sequence Line : 8

I ta File Name : D:\HPCHEM\2\DATA\29090201\017F0801.D

Run Time Bar Code: Sequence Line : 8

i quired on : 02 Sep 99 07:47 PM Instrument Method: TPHG0899.MTH

l port Created on: 03 Sep 99 08:57 AM Analysis Method : TPHG0899.MTH Last Recalib on : 31 AUG 99 08:52 AM Sample Amount : 0

Last Recall on : 31 Aug 99 08:52 AM Sample Amount : Caltiplier : 1 ISTD Amount :

Sig. 1 in D:\HPCHEM\2\DATA\29090201\017F0801.D

	Area					Name	
(-							
8.781	85488	VV	0.071	1	6.858	TFT-surrogate	
16 808	354637	MM	0 424	1	30 123	dasoline envelop	

Fier Modified

Gas < 5.0mg/kg

9-3742

	O-Xylene	9910.0	T S	E80.0		7£ <u>₽</u> 8	₱98.₽1
	W+P-Xylene			770.0		45452	906.51
	Ethylbenzene	298.0	τ	190.0	$\mathtt{b}\mathtt{\Lambda}$	60585	LL9.ET _: _
	Toluene				${ t b}{ t \Lambda}$	66 <i>LL</i>	787.01
296=201K71;	TFT surrogate	₽8₽°6	T S	E70.0	$\Delta \Lambda$	£9#TL#	The second secon
,, - U	Benzene	SII.O				21816	090.7
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эше	N		#leA u				
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							_
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	JnuomA əlqms2						Last Recalib on
	Analysis Metho		## SP:				Ruport Created
	Instrument Met		:18 PM	80 66	₫əg		A quired on
8 :	Sequence Line					-	Run Time Bar Co
ex : 1	Injection Numb		ΊΓ	noot s			9msN əlqm 2
8T :	Vial Number			X	S/BTE		_ strument
τ:	Page Number					IAJ :	Operator
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	1	75.12		649644 7 -60+1-60-1	760	==== =	
	1	75.12		6406 667 -601-1605-0	760- 7807-		;;
	1	75.12	00.05 018.01.00.01	6700 677 -601-1200-1 -00200-1 -00200-1 -00200-1	76 C-		;;
108'91	0#0 :/ 1	75.12		6706 F73 -604 1603 -604 1603 -706 1864 6 +70 8 144	766- 18007 1-555-61 196-88-1		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
108'91	0+0:71	75.12		224.31_090 470.81_4 701_854.6 202_603 204_603.42 6268.42 6268.42	91 — 6	0E91=- 6688F1	::
108'91	0+0:41	75.12		221.31 000 100.81 10	906.E1=	0E9E 69E\$F ¹ tsp/th/	:======================================
108'91	0+0:71—	75.12		221.31 000 100.81 10		0E-91 65E-51 15E-51 15E-51 18E-51 18E-51	
108'91	0+0- <u>7</u> 1	75.12		221.31 000 100.81 10		0=91 6583 F H 1583 F H 1583 F H	;;
108'91	0+0: <u>71</u>	75.12		221.31 000 100.81 10		207.65.00 207.65.00	
·	0+0- <u>7</u> 1	75.12		221.31 000 100.81 10		165 E	
·	0+0:41	75.12		221.31 000 100.81 10		165 E	
·	0+0: <u>F1</u>	75.12		221.31 000 100.81 10		165 E	
·	0+0- <u>7</u> 1	75.12		221.31 000 100.81 10		112 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
·	0+0: <u>7</u> 1	75.12		221.31 000 100.81 10	906·E1 	112 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
982'8	0+0.71—	75.12		221.31 000 100.81 10	906·E1 	112 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
·	0+0·21	75.12		221.31 000 100.81 10	906·E1 	112 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
982'8	(;) () () () () () () () () ()	75.12		221.31 000 773.51- 610.503 700.1503 610.603 700.1503 610.603	906·E1 	112 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
982'8	0+0:71	75.12		221.31 000 773.51- 610.503 700.1503 610.603 700.1503 610.603	906·E1 	112 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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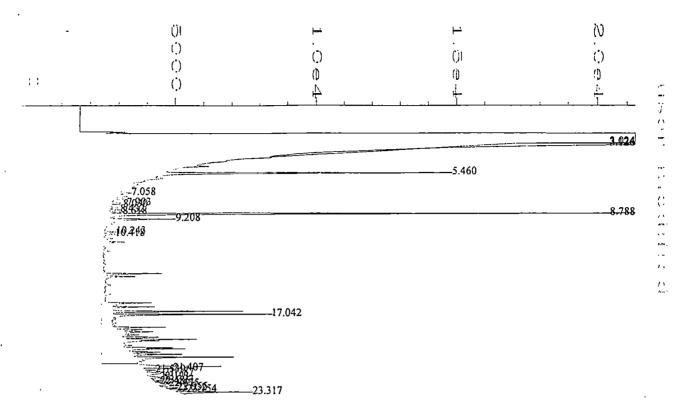
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67/6215.0> X

61/2/1/10> 2TE

HIbbでも

SEST-MMI



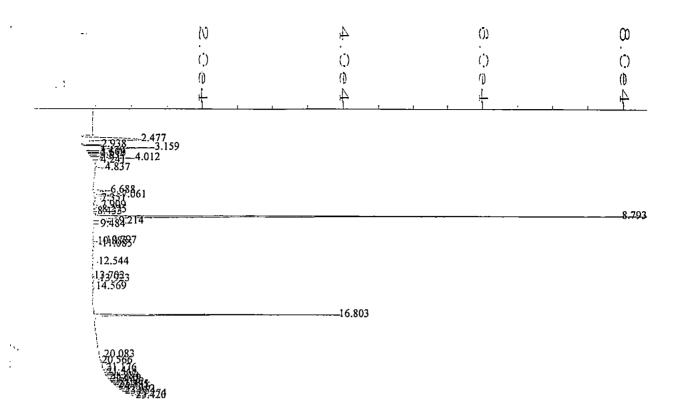
External Standard Report .______

```
! ta File Name : D:\HPCHEM\2\DATA\29090201\018F0801.D
                                       Page Number
Uperator
             : LAH
                                       Vial Number : 18
*-strument
             : GAS/BTEX
                                       Injection Number: 1
           : 908112-5 100UL
mple Name
                                       Sequence Line : 8
Run Time Bar Code:
                                       Instrument Method: TPHG0899.MTH
: quired on : 02 Sep 99 08:18 PM
port Created on: 03 Sep 99 08:41 AM
                                       Analysis Method : TPHG0899.MTH
Last Recalib on : 31 AUG 99 08:52 AM
                                       Sample Amount : 0
ltiplier
                                       ISTD Amount
Sig. 1 in D:\HPCHEM\2\DATA\29090201\018F0801.D
1 t Time Area Type Width Ref# ug/l
                                                 Name
· -----
```

91486 VV 0.072 1 7.339 TFT-surrogate : 16 Y100=73% 413735 MM 1.115 1 35.143 gasoline envelop 8.788

17.042

User Modified



Data File Name : D:\HPCHEM\2\DATA\29090201\021R1001.D (erator : LAH Page Number 1 strument : GAS/BTEX Vial Number : 908112-6 100UL Injection Number: 1 Sample Name F n Time Bar Code: Sequence Line : 10 Instrument Method: TPHG0899.MTH ! quired on : 02 Sep 99 09:56 PM Report Created on: 02 Sep 99 10:20 PM Analysis Method : BTEX2899.MTH I st Recalib on : 18 AUG 99 01:03 PM Sample Amount : 0 ISTD Amount Multiplier

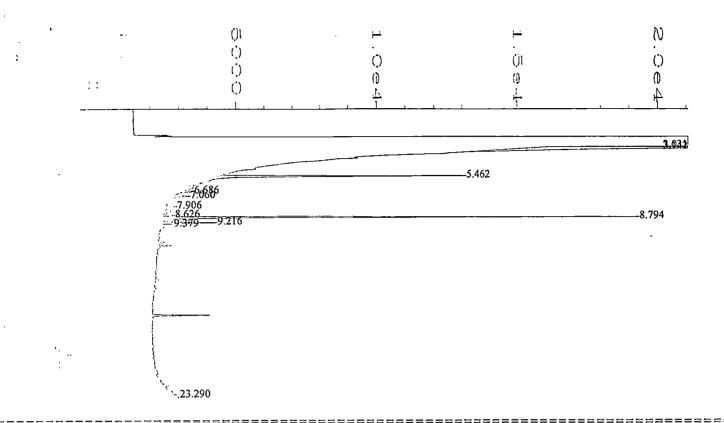
€ વ.	2 ir	D:\	HPCHEM\	۱2،	/ATAD	,29	09	902	01	\021R1001.D
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kēt Time	Area	Туре	Width	Ref#	ug/l	Name
'					 	
7.061	24487	VV	0.093	1		Benzene
8.793	407545	VV	0.074	1	8.126	TFT surrogate $\pm 10 \times 100 - 80\%$
10.797	7149	BV	0.058	1	0.0359	Toluene
13.702	1540	PV	0.075	1	0.00953	Ethylbenzene
13.923	7053	VB	0.098	1	0.0284	M+P-Xylene
14.569	2597	BB	0.082	1	0.0143	O-Xylene

X < 0.3 mg/kg

9-394

Dry wit - 4.70g



External Standard Report ______

```
I ta File Name : D:\HPCHEM\2\DATA\29090201\021F1001.D
```

```
Page Number
               : LAH
Operator
                                            Vial Number
                                                          : 21
               : GAS/BTEX
strument
              : 908112-6 100UL
                                            Injection Number: 1
mple Name
                                            Sequence Line : 10
Run Time Bar Code:
```

Instrument Method: TPHG0899.MTH guired on : 02 Sep 99 09:56 PM l_port Created on: 03 Sep 99 08:42 AM Analysis Method : TPHG0899.MTH

Last Recalib on : 31 AUG 99 08:52 AM Sample Amount

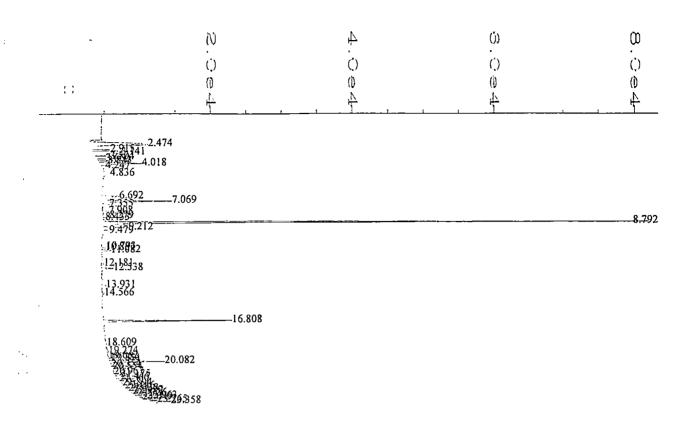
ISTD Amount iltiplier

```
Sig. 1 in D:\HPCHEM\2\DATA\29090201\021F1001.D
```

			Width		•	Name
						
8.794	79668	VV	0.072	1	6.391	TFT-surrogate - 11 4100 - 64%
16.802	* not found			1		gasoline envelop

ot all calibrated peaks were found

Gas < 5.0 mg/kg



```
. ------
```

```
Data File Name : D:\HPCHEM\2\DATA\29090201\023R1201.D

erator : LAH

strument : GAS/BTEX

Sample Name : 908112-7 100UL

n Time Bar Code: 

Sequence Line : 12 %

Figure 12 88
```

quired on : 02 Sep 99 11:03 PM — Instrument Method: TPHG0899.MTH Report Created on: 02 Sep 99 11:26 PM Analysis Method : BTEX2899.MTH

g. 2 in D:\HPCHEM\2\DATA\29090201\023R1201.D

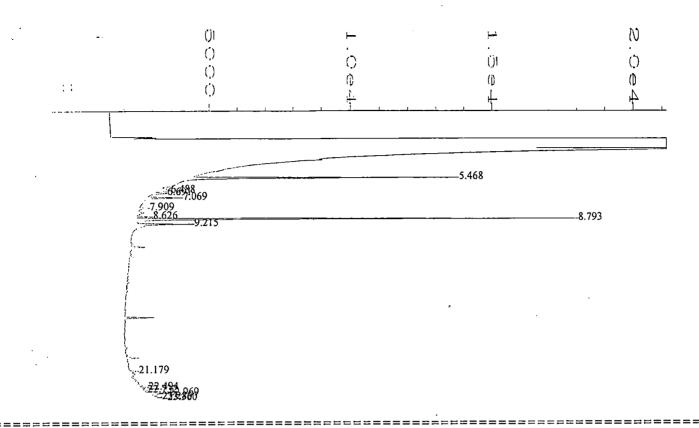
9. 2 111	g. 2 III D:\\\PCHEM\2\\DATA\29090201\\023\X1201.D										
ket Time	Area	Type	Width	Ref#	ug/l	Name					
!											
7.069	53405	BV	0.082	1		Benzene					
8.792	368705	VV	0.073	1	7.301	TFT surrogate : 16 ×100=73%					
10.793	2394	BV	0.058	1	0.0120	Toluene					
13.643	* not found :	*		1		Ethylbenzene					
13.931	4070	BV	0.099	1	0.0164	M+P-Xylene					
14.566	778	PV	0.052	1	0.00430	O-Xylene ·					

ot all calibrated peaks were found

BTE = C. Img/kg X = < C.3 mg/kg 9.344

Dy wt = 4.825

12001H



```
D :a File Name : D:\HPCHEM\2\DATA\29090201\023F1201.D
```

Operator : LAH Page Number : 1 I strument : GAS/BTEX Vial Number : 23 S nple Name : 908112-7 100UL Injection Number : 1 Run Time Bar Code: Sequence Line : 12

A quired on : 02 Sep 99 11:03 PM Instrument Method: TPHG0899.MTH Roport Created on: 03 Sep 99 08:43 AM Analysis Method : TPHG0899.MTH

Last Recalib on : 31 AUG 99 08:52 AM Sample Amount : 0 Miltiplier : 1 ISTD Amount :

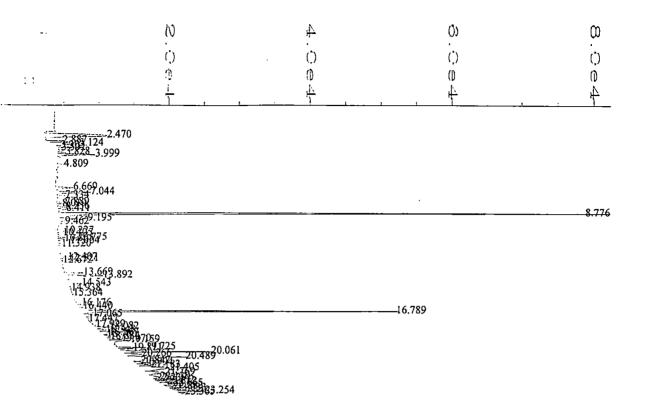
Sig. 1 in D:\HPCHEM\2\DATA\29090201\023F1201.D

F t Tir	e Area	Туре	Width	Ref#	Name
	·				
_	3 72875 2 * not found				TFT-surrogate \\ 10 \times 100 \times 58% gasoline envelop

1 t all calibrated peaks were found

Gas < 5.0 mg/kg

9-3941



=======

Lata File Name : D:\HPCHEM\2\DATA\29090201\026R1201.D Onerator : LAH Page Number : 1 strument : GAS/BTEX Vial Number Sample Name : 908112-8 100UL Injection Number: 1 Pun Time Bar Code: Sequence Line 00:38 AM Instrument Method: TPHG0899.MTH Report Created on: 03 Sep 99 01:01 AM Analysis Method : BTEX2899.MTH st Recalib on : 18 AUG 99 01:03 PM Sample Amount

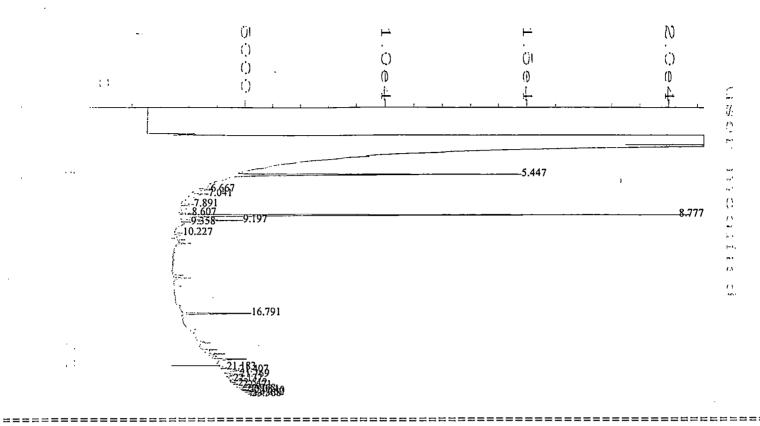
St Recallb on : 18 AUG 99 01:03 PM Sample Amount : 0

g. 2 in D:\HPCHEM\2\DATA\29090201\026R1201.D

9 2 111	, 9. 2 III D:\HPCHEM\2\DATA\2909020T\026KT20T.D										
list Time	Area	Type	Width	Ref#	ug/l	Name					
7.044	28319	VV	0.090	1	0.145	Benzene					
8.776	444033	BV	0.073	1	8.901	TFT surrogate 10x(00=899					
10.775	10652	PV	0.058	1		Toluene					
13.669	12198	PV	0.066	1	0.0755	Ethylbenzene					
13.892	34511	VV	0.091	1	0.139	M+P-Xylene					
14.543	16386	VV	0.111	1	0.0905	O-Xylene					

BTE < C. I mg/kg x < C. 3mg/kg

7·3 94



quired on : 03 Sep 99 00:38 AM Instrument Method: TPHG0899.MTH port Created on: 03 Sep 99 08:46 AM Analysis Method : TPHG0899.MTH

Last Recalib on : 31 AUG 99 08:52 AM Sample Amount : 0
1 ltiplier : 1 ISTD Amount :

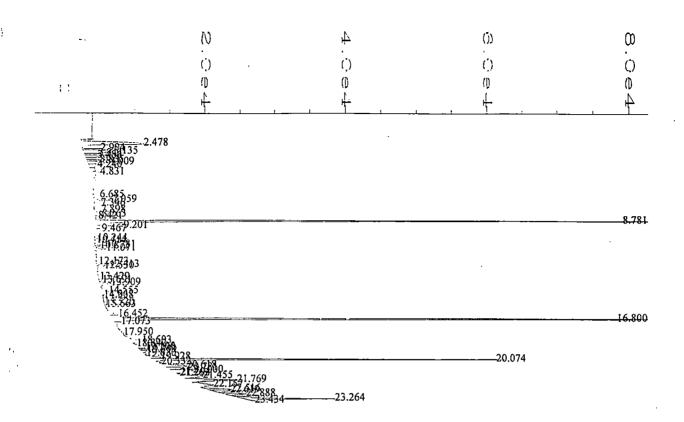
Sig. 1 in D:\HPCHEM\2\DATA\29090201\026F1201.D

	Area					Name
8.777	86046	\	0 072	1	6 903	TFT-surrogate = 11/4/10=69%
16.791						qasoline envelop

ser Modified

Cras < 50 mg/kg

9-394



Data File Name : D:\HPCHEM\2\DATA\29090201\024R1201.D

Cherator : LAH Page Number : 1 strument : GAS/BTEX Vial Number : 24 Sample Name : 908112-9 100UL Injection Number : 1 n Time Bar Code: Sequence Line : 12

equired on : 02 Sep 99 11:35 PM Instrument Method: TPHG0899.MTH Report Created on: 02 Sep 99 11:58 PM Analysis Method : BTEX2899.MTH

st Recalib on : 18 AUG 99 01:03 PM Sample Amount : 0 ltiplier : 1 ISTD Amount :

.g. 2 in D:\HPCHEM\2\DATA\29090201\024R1201.D

₌at Time	Area	Туре	Width	Ref#	ug/l	Name
<u> </u>						
7.059	14307	BV	0.084	1	0.0732	Benzene
8.781	434162	∇V	0.073	1	8.692	TFT surrogate -164100=379
- 10.781	6227	BV	0.061	1	0.0313	Toluene
13.691	2053	BV	0.070	1	0.0127	Ethylbenzene
13.909	12516	VV	0.112	1	0.0504	M+P-Xylene
14.555	14251	VV	0.177	1	0.0787	O-Xylene

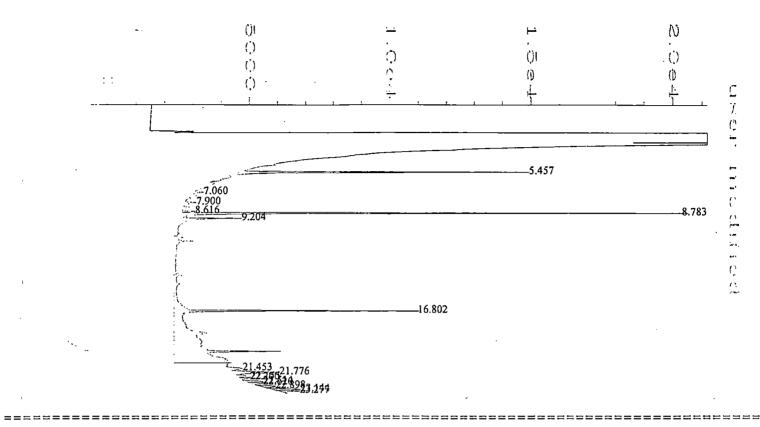
BTE C. Imglkg X - c. 3mglkg

9.3994

Drywt = 4.689

ingle Kisml x cilib = = C. I riglkg

9-3-9914



```
I ta File Name : D:\HPCHEM\2\DATA\29090201\024F1201.D

Cperator : LAH Page Number : 1

Instrument : GAS/BTEX Vial Number : 24

mple Name : 908112-9 100UL Injection Number : 1
```

Run Time Bar Code: Sequence Line : 12

Instrument Method: TPHG0899.MTH port Created on: 03 Sep 99 08:44 AM Analysis Method: TPHG0899.MTH

Last Recalib on : 31 AUG 99 08:52 AM Sample Amount : 0 ltiplier : 1 ISTD Amount :

Sig. 1 in D:\HPCHEM\2\DATA\29090201\024F1201.D

	t Time		- ~	Width			Name
ı							
	8.783	84456	VV	0.072	1	6.775	TFT-surrogate 104100=68%
	16.802	314307	MM	0.596	1	26.698	gasoline envelop

User Modified

Clas < 5.0 mg ilg

9-3 44



hai.. of Colod, . Laboratory Analysis Request

	C	J.	rato	Only	
ſ					
-					
- 1					

(206) 292-9059 Seattle (425) 259-6289 Fax		Date 3/30/%Page	Of /
ROJECT ID: 19235			
EPORT TO BEKEIGHT COMPANY: BEKEIGHT COMPANY:	ANALYSIS REQUESTED	OTHER (Specify)	
ROJECT			1 1 1 1

PROJECT ID: 7 7 L 3 3					-																						
REPORT TO REKENGING	:-				AN	ALY	SIS	RFQ	UES	TED							ОТІ	HER	(Spe	cify))	-					
PROJECT ID: 77 L37 REPORT TO REKEING ME COMPANY. REKEING ME COMPAN	<i>-</i>									Ī									1								
ADDRESS: 2135 HL	Lold-	1 54.					l							Q	$_{\Box}$		Herb	4	ļ								
Bellinkum, WA	987	2.5												st only]]		sa∏	~ F									<u>.</u>
PHONE: 4 >- 6 TC 7257	FAX:	7777-	671 -	1625		_								l e			ه ا	>.									Ę
NVOICE TO COMPANY:												ā		only	. R		mi-Vol	()					j	ļ		ERS	S S
ATTENTION:					ļ	8015 MODIFIED					_] 8260 🗌	_	EPA 8080 608 PCB only Pest only	Metals Priority Pollutant ☐ RCRA ☐ TAL	\$	TCLP Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herb ☐	_	į						ł	CONTAINERS	RECEIVED IN GOOD CONDITION?
ADDRESS:						015 M				602	EPA 8010 🗌 601 🗌	EPA 8240 ☐ 624 □	EPA 8270 🗌 625 🗍] 809	Pollut	Metals Other (Specify)	VO V	7.								ő	09 N
	NUMBER: CCI QUOTE:								吕		Ö				riority	ther (∐sla!	1						ı		R OF	<u> </u>
P.O. NUMBER:	T	WTPH-G	WTPH-D[WTPH-418.1	ВТЕХ	WTPH-HCID	EPA 8020	A 801	A 824	A 827	A 808	tals P	tals C	LP Me	1/11/					Ì			NUMBER	CEI			
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	₹	₹	≶	В	⋝	ដ	EP	EP	ᇤ	ᇤ	Σ	ž	2	- · · 7	_					_	 	Ž	ä
1 082749-1	8/27/49	8:00	50:1															\times									
1. <u>082719-1</u> 2. <u>082779-2</u>		8:30																X								(
3. 082799-3	1	8:45	4															X								/	
4																				-							
5																									 $\neg \neg$		\exists
6																									 		\dashv
7					ļ													_									
8																											
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10.																						,					
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SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, and Time):			
1. Relinquished By: FK	410/9	10:00	
Received By:	·		
2. Relinquished By:			
Received By:			

TURNAROUND REQUE	STED in Business Days*
Organic, Metals & Inorganic Analysis 10 5 3 2 1 Same Day Standard	OTHER: Specify:
Fuels & Hydrocarbon Analysis	

^{*} Turnaround Requests less than standard may incur Rush Charges.



CLIENT: BEK ENGINEERING

2138 HUMBOLDT ST. BELLINGHAM, WA 98225 DATE: 9/8/99 CCIL JOB #: 908122

CCIL SAMPLE #:

1

DATE RECEIVED:

WDOE ACCREDITATION #:

8/31/99 C142

CLIENT CONTACT:

JON EINARSEN

CLIENT PROJECT ID:

99233

CLIENT SAMPLE ID:

082799-1 8/27/99 8:00

	DA	TA RESUL	<u>rs</u>			
				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		9/8/99	LAH
BENZENE	EPA-8021	ND(<0.1)	MG/KG	.5MG/KG	9/8/99	LAH
TOLUENE	EPA-8021	ND(<0.1)	MG/KG	40MG/KG	9/8/99	<u>L</u> AH
ETHYLBENZENE	EPA-8021	ND(<0.1)	MG/KG	20MG/KG	9/8/99	LAH
XYLENES	EPA-8021	ND(<0.3)	MG/KG	20MG/KG	9/8/99	LAH
TPH-SEMIVOLATILE RANGE	NWTPH-DX	ND	MG/KG		9/2/99	СМН

^{* &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:

GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

DIESEL RANGE REPORTING LIMIT IS 25 MG/KG

MOTOR OIL RANGE REPORTING LIMIT IS 50 MG/KG

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: BEK ENGINEERING

2138 HUMBOLDT ST.

BELLINGHAM, WA 98225

DATE: 9/8/99

CCIL JOB #: 908122

CCIL SAMPLE #: 2
DATE RECEIVED: 8/31/99

WDOE ACCREDITATION #: C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

CLIENT SAMPLE ID:

082799-2 8/27/99 8:30

	DA	TA RESUL	<u>rs</u>			
				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		9/8/99	LAH
BENZENE	EPA-8021	ND(<0.1)	MG/KG	.5MG/KG	9/8/99	LAH
TOLUENE	EPA-8021	ND(<0.1)	MG/KG	40MG/KG	9/8/99	LAH
ETHYLBENZENE	EPA-8021	ND(<0.1)	MG/KG	20MG/KG	9/8/99	LAH
XYLENES	EPA-8021	ND(<0.3)	MG/KG	20MG/KG	9/8/99	LAH
TPH-SEMIVOLATILE RANGE	NWTPH-DX	ND	MG/KG		9/2/99	СМН

 [&]quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:
 GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG
 DIESEL RANGE REPORTING LIMIT IS 25 MG/KG
 MOTOR OIL RANGE REPORTING LIMIT IS 50 MG/KG

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: BEK ENGINEERING

2138 HUMBOLDT ST. BELLINGHAM, WA 98225 DATE: 9/8/99

CCIL JOB #: 908122 CCIL SAMPLE #: 3

DATE RECEIVED: 8/31/99

WDOE ACCREDITATION #: C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID:

99233

CLIENT SAMPLE ID:

082799-3 8/27/99 8:45

	DA	TA RESULT	rs			
				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	BY
TPH-VOLATILE RANGE	NWTPH-GX	ND	MG/KG		9/8/99	LAH
BENZENE	EPA-8021	ND(<0.1)	MG/KG	.5MG/KG	9/8/99	LAH
TOLUENE	EPA-8021	ND(<0.1)	MG/KG	40MG/KG	9/8/99	LAH
ETHYLBENZENE	EPA-8021	ND(<0.1)	MG/KG	20MG/KG	9/8/99	LAH
XYLENES	EPA-8021	ND(<0.3)	MG/KG	20MG/KG	9/8/99	LAH
TPH-SEMIVOLATILE RANGE	NWTPH-DX	ND	MG/KG		9/2/99	СМН

^{* &}quot;ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT CONCENTRATION ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES OR AS FOLLOWS:

GASOLINE(VOLATILE RANGE) REPORTING LIMIT IS 5 MG/KG

DIESEL RANGE REPORTING LIMIT IS 25 MG/KG

MOTOR OIL RANGE REPORTING LIMIT IS 50 MG/KG

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: BEK ENGINEERING

DATE: 9/8/99

2138 HUMBOLDT ST.

CCIL JOB #: 908122

BELLINGHAM, WA 98225

DATE RECEIVED: 8/31/99

WDOE ACCREDITATION #:

C142

CLIENT CONTACT:

JON EINARSEN

CLIENT PROJECT ID:

99233

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
908122-01	NWTPH-GX	TFT	72
908122-01	EPA-8021	TFT	100
908122-01	NWTPH-DX	C25	97
908122-02	NWTPH-GX	TFT	75
908122-02	EPA-8021	TFT	107
908122-02	NWTPH-DX	C25	101
908122-03	NWTPH-GX	TFT	73
908122-03	EPA-8021	TFT	104
908122-03	NWTPH-DX	C25	100

(i) (i) (i) (i) (ii) (ii) (ii) (iii)
External Standard Report

! ta File Name : D:\HPCHEM\2\DATA\29090801\005R0201.D : LAH Page Number Operator Vial Number : GAS/BTEX - strument Injection Number: 1 : 908122-1 100UL mple Name Sequence Line : 2 Run Time Bar Code: Instrument Method: TPHG0899.MTH : 08 Sep 99 10:06 AM guired on Analysis Method : BTEX0999.MTH Sport Created on: 08 Sep 99 10:29 AM Last Recalib on : 07 SEP 99 08:38 AM Sample Amount ISTD Amount liltiplier : 1

Sig. 2	in	D:\	HPCHEM\	2\	/ATAD	(29090801)	\005R0201.D
--------	----	-----	---------	----	-------	------------	-------------

5.9. Z II	I D: \necnen(2)	(DATA	\230300	30T (00-	JKUZUI.D		
et Time	Area	Туре	Width	Ref#	ug/l	Name	
							
7.069	7785	VV	0.083	1	0.0545	Benzene	
8.788	464546	BV	0.072	1	10.048	TFT surrogate 10 /4007 100%	
10.786	23145	BV	0.070	1	0.173	Toluene	
13.682	7185	BV	0.066	1	0.0607	Ethylbenzene	
13.902	24447	VV	0.086	1	0.0913	M+P-Xylene	
14.553	9816	VV	0.076	1	0.0521	O-Xylene	

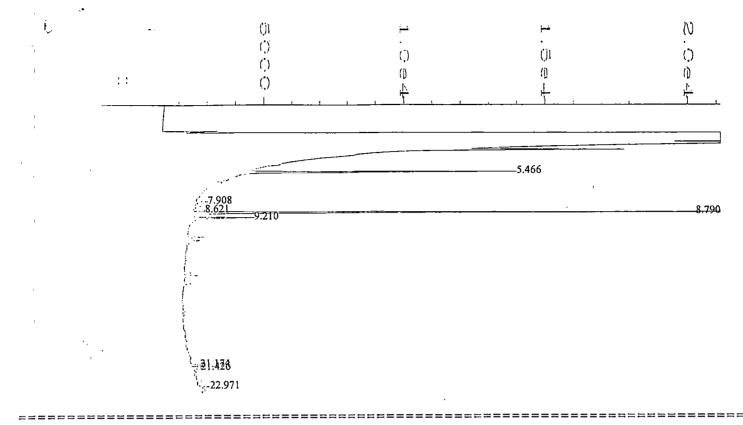
BIE Consiling

1824-190 BY 7.66944

Dry wt= 4.7%

= 12.9/ × 5ml × (...CIL = < C.lmg/kg

4-8-9911



```
! ta File Name : D:\HPCHEM\2\DATA\29090801\005F0201.D
```

Page Number Operator : LAH Vial Number : GAS/BTEX ⊤nstrument Injection Number: 1 : 908122-1 100UL mple Name Sequence Line : 2 Run Time Bar Code:

Instrument Method: TPHG0899.MTH required on : 08 Sep 99 10:06 AM Analysis Method : TPHG0899.MTH port Created on: 08 Sep 99 10:30 AM

Sample Amount Last Recalib on : 31 AUG 99 08:52 AM

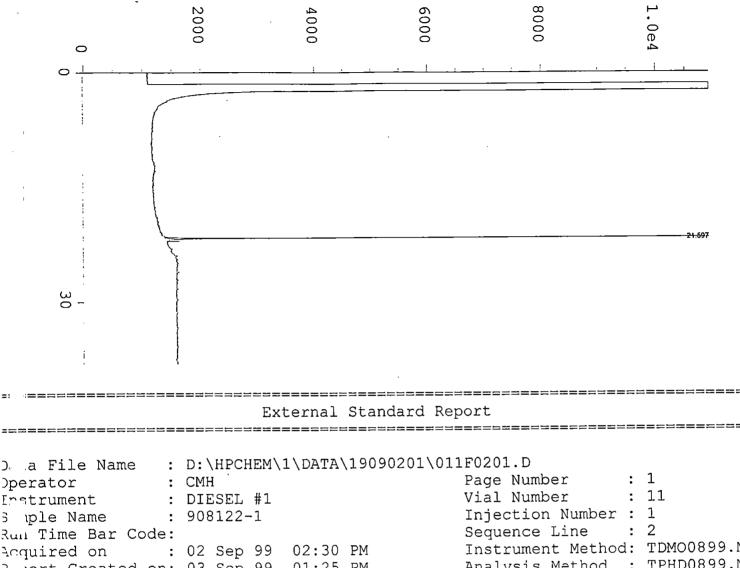
ISTD Amount lltiplier

Sig. 1 in D:\HPCHEM\2\DATA\29090801\005F0201.D

	t Time	Area	Type	Width	Ref#	ug/l	Name
ı			-				
	8.790	89217	VV	0.071	1	7.157	TFT-surrogate ,10400-727
	16 802	* not found ?	*		1		gasoline envelop

ot all calibrated peaks were found

Clas < 56 mg/kg



```
Operator
Instrument
3 ple Name
Run Time Bar Code:
                                            Instrument Method: TDMO0899.MTH
Acquired on : 02 Sep 99
                                            Analysis Method : TPHD0899.MTH
R port Created on: 03 Sep 99 01:25 PM
Lust Recalib on : 26 APR 99 11:54 AM
                                            Sample Amount
                                            ISTD Amount
Multiplier
S_{J}. 1 in D:\HPCHEM\1\DATA\19090201\011F0201.D
Ret Time Area Type Width Ref# ug/ml
                                                        Name
| ----|----|----|----|----|----|
                                            Diesel #2
 11.824 * not found *
                                       9.727 nC-25 surrogate \pm 1000 = 977
                         0.036 1
 21.597
              38314 BB
                                        G. Gay Ch
Not all calibrated peaks were found
```

D= 425 mg/kg

9.3.99CH

DRy W. = 19.6/19

External Standard Report

I ta File Name : D:\HPCHEM\2\DATA\29090801\006R0201.D Operator : LAH Page Number Vial Number : GAS/BTEX Instrument Injection Number: 1 E mple Name : 908122-2 100UL Run Time Bar Code: Sequence Line : 2 # quired on : 08 Sep 99 Instrument Method: TPHG0899.MTH 10:37 AM Analysis Method : BTEX0999.MTH F port Created on: 08 Sep 99 11:01 AM Last Recalib on : 07 SEP 99 08:38 AM Sample Amount ISTD Amount N ltiplier

Sig. 2 in D:\HPCHEM\2\DATA\29090801\006R0201.D

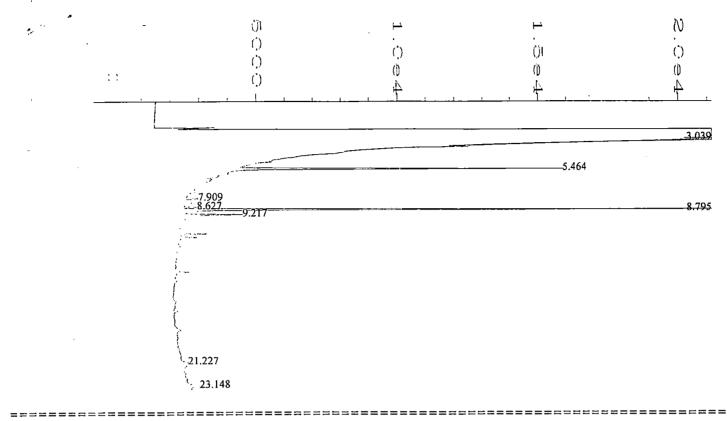
ΣT.	g. z 11	1 D: \HPCHEM\Z	DATA	\290900	OT /OO	OKUZUI.D	
F	t Time	Area	Туре	Width	Ref#	ug/l	. Name
ļ							
	7.076	11574	VV	0.087	1	0.0810	Benzene
	8.794	495063	VV	0.073	1	10.672	TFT surrogate ANGLE 107%
	10.797	35727	PV	0.068	1		Toluene
	13.699	5848	BV	0.066	1	0.0494	Ethylbenzene
	13.914	22829	VB	0.081	1	0.0853	M+P-Xylene
-	14.569	8056	BV	0.072	1	0.0428	O-Xylene

BIE = 0. mg/kg x < 0.3 mg/kg

9494

Drywt=5

9-8-99LH



```
L ta File Name : D:\HPCHEM\2\DATA\29090801\006F0201.D
```

Operator : LAH Page Number : 1
Instrument : GAS/BTEX Vial Number : 6
Somple Name : 908122-2 100UL Injection Number : 1
Run Time Bar Code: Sequence Line : 2

F quired on : 08 Sep 99 10:37 AM Instrument Method: TPHG0899.MTH F port Created on: 08 Sep 99 11:02 AM Analysis Method : TPHG0899.MTH

Last Recalib on : 31 AUG 99 08:52 AM Sample Amount : 0
N ltiplier : 1 ISTD Amount :

Sig. 1 in D:\HPCHEM\2\DATA\29090801\006F0201.D

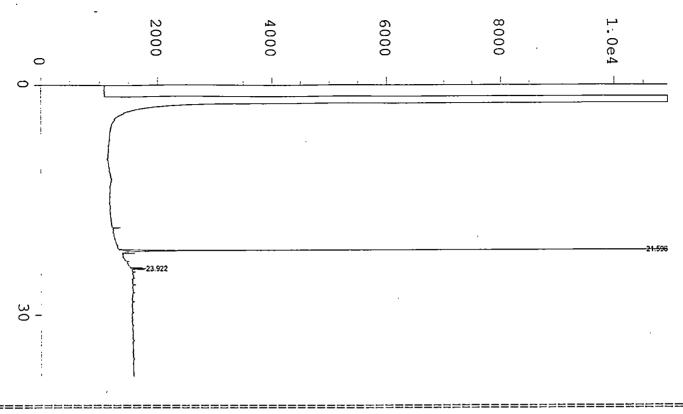
		Area					Name	
- - - } }	 3.795	93984	VV	0.071	1	7.540	TFT-surrogate 1000766	
1.6	5.802	* not found	*		1		qasoline envelop	

N t all calibrated peaks were found

9441

Cras <50 mg/kg

009916



```
D :a File Name
                : D:\HPCHEM\1\DATA\19090201\012F0201.D
                                               Page Number
Operator
                                               Vial Number
                : DIESEL #1
Instrument
                : 908122-2
                                               Injection Number: 1
3 nple Name
                                               Sequence Line
Run Time Bar Code:
                                               Instrument Method: TDMO0899.MTH
                : 02 Sep 99
                             03:14 PM
Acquired on
                                               Analysis Method : TPHD0899.MTH
Roort Created on: 03 Sep 99
Last Recalib on : 26 APR 99 11:54 AM
                                               Sample Amount
                                               ISTD Amount
Aultiplier
S J. 1 in D:\HPCHEM\1\DATA\19090201\012F0201.D
         Area
                     Type Width Ref# ug/ml
| -----|-----|----|----|-----|-----|
                                               Diesel #2
 11.824 * not found *
                                        10.116 nC-25 surrogate - 10 x 100 = 101/
               39872 BV
 21.596
                          0.034
Not all calibrated peaks were found
```

D=425 mg/kg

9.3.99 CH

DRUWH. = 20.6/3)

I ta File Name : D:\HPCHEM\2\DATA\29090801\007R0201.D

Operator : LAH Page Number : 1
I strument : GAS/BTEX Vial Number : 7
S mple Name : 908122-3 100UL Injection Number : 1
Run Time Bar Code: Sequence Line : 2

2 in D.\HPCHEM\2\DATA\29090801\007R0201.D

7. 9. 2 III D. (III CIBITAL (DIVITAL (DIVITAL COLICE COLIC										
I t Time					_	Name				
										
7.063	22250	BV	0.090	1	0.156	Benzene				
8.797	481610	VV	0.073	1	10.397	TFT surrogate - ICACC-ICULY				
10 001	21167	T) \$ 7	0 071	7	0 150	Toluone				

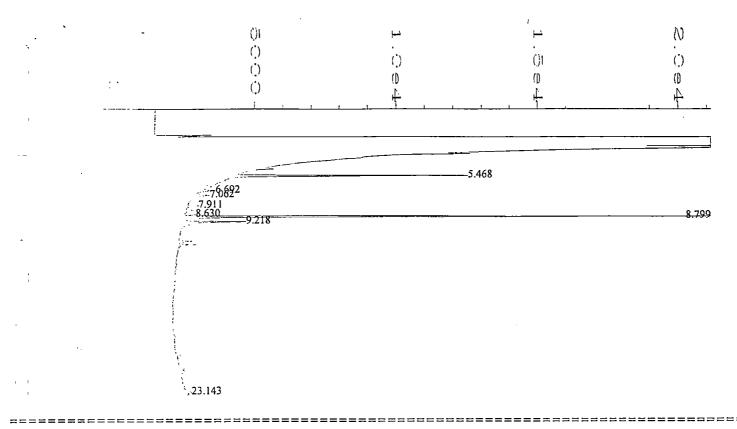
10.801 21167 PV 0.071 1 0.158 Toluene 13.700 2927 BV 0.072 1 0.0247 Ethylbenzene 13.921 11838 VV 0.094 1 0.0442 M+P-Xylene

14.569 6035 VB 0.081 1 0.0320 O-Xylene

3TE = 0.1 mg/kg X = 0.3 mg/kg

7-699

Dry wt=5.170,



External Standard Report ______

```
I ta File Name : D:\HPCHEM\2\DATA\29090801\007F0201.D
                 : LAH
                                               Page Number
Operator
```

Vial Number : GAS/BTEX I strument : 908122-3 100UL Injection Number: 1 9 mple Name

Sequence Line : 2 Run Time Bar Code:

Instrument Method: TPHG0899.MTH ? quired on : 08 Sep 99 11:09 AM F port Created on: 08 Sep 99 Analysis Method : TPHG0899.MTH 11:33 AM

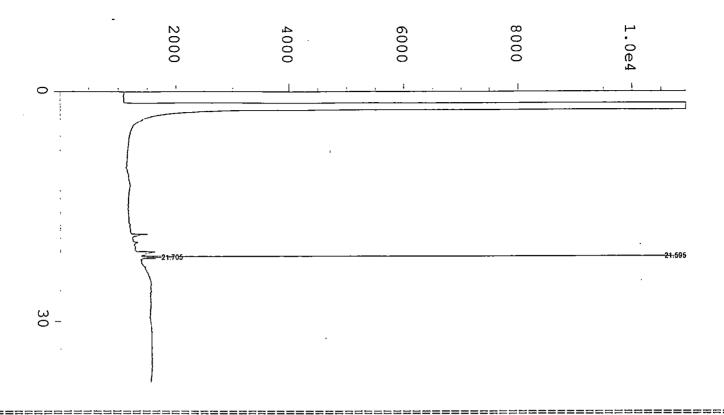
Sample Amount Last Recalib on : 31 AUG 99 08:52 AM

ISTD Amount 1 ltiplier : 1

Sig. 1 in D:\HPCHEM\2\DATA\29090801\007F0201.D

I t Time						Name
ï						
8.799	90759	VV	0.072	1	7.281	TFT-surrogate FIL ALU=73%
16.802	* not found *	k		1		gasoline envelop

I t all calibrated peaks were found



```
: D:\HPCHEM\1\DATA\19090201\013F0201.D
D :a File Name
Operator
               : CMH
                                          Page Number
Instrument
               : DIESEL #1
                                          Vial Number
            : 908122-3
                                          Injection Number: 1
S nple Name
                                          Sequence Line : 2
Run Time Bar Code:
                                          Instrument Method: TDMO0899.MTH
Acquired on : 02 Sep 99
                          03:58 PM
                                          Analysis Method : TPHD0899.MTH
Robort Created on: 03 Sep 99 01:25 PM
I st Recalib on : 26 APR 99 11:54 AM
                                          Sample Amount
Multiplier
                                          ISTD Amount
S g. 1 in D:\HPCHEM\1\DATA\19090201\013F0201.D
Ret Time Area Type Width Ref# ug/ml
11.824 * not found *
                                          Diesel #2
                                    10.009 nC-25 surrogate +10 x100 = (00)/.
 21.595
             39444 PV
                       0.031 1
Not all calibrated peaks were found
```

D= <25 mg/kg

Dry Wt. = 23.989

9.3.99 CH



Release of Liability/Certificate of Disposal

ULTRA TANK SERVICES INC. AND THEIR CLEINT: are released from liability for all petroleum contaminated soil originating from:

JOB # 99233, WORLD WIDE DUTY FREE 253 C STREET BLAINE WA.

and transported to:

CSR - Associated Sand & Gravel Company Inc. 6300 Glenwood Ave. Everett WA 98203

On 08/25/1999 THROUGH 08/27/1999

A total of 917.50 tons of class 3 petroleum contaminated soil were transported to the above facility. The material was treated and disposed of in the following manner:

Thermal Desorption/Landfill for Reclamation

Treatment/Disposal of the contaminated soil was performed in accordance with all applicable federal, state, and local laws and regulations.

Signed:

Date 09/01/1999

Larry W. Baker

Operations Manager, Soil Remediation Division

CSR Associated. 6300 Glenwood Avenue. Everett, WA 98203 PO Box 2037. Everett, WA 98203. Telephone Everett (425) 355-2111. Telephone Seattle (206) 624-0301