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ANNUAL MONITORING REPORT

Humboldt Bulk Facility
Highway 75 & Kittson County Road 6
Humboldt, MN

MPCA Site ID: LEAK00005361 WCEC Project: 92-405-30

November 11, 2004



Leaking Petroleum Storage Tanks

Minnesota Pollution Control Agency

http://www.pca.state.mn.us/programs/lust_p.html

Annual Monitoring Report

Fact Sheet 3.26

Worksheet along with this worksheet. annually. If a remedial system has been installed, submit fact sheet 3.31 CAD System Monitoring After the Corrective Action Design (CAD) has been approved, update and submit this worksheet

according to fact sheet 3.25, Quarterly Monitoring Report. submittal of the monitoring information on a quarterly schedule. Under certain circumstances Minnesota Pollution Control Agency (MPCA) staff may request This should be conducted

MPCA Site ID: Leak0005361

Date: October 4, 2004

Responsible Party: Co-op Services (dissolved)
Arlene Furseth, MPCA contact

R.P. phone #: NA (218) 846-0732

Consultant: West Central Environmental
Consultants, Inc. (WCEC)

Consultant phone #: (320) 589-2039

Consultant Project #: 92-405-30

Facility Name: Humboldt Bulk Facility

Facility Address: Hwy. 75 and Kittson County Road 6 City: Humboldt

County: Kittson Zip Code: 56731

data standards, or http://mac.usgs.gov/mac/isb/pubs/factsheets/fs15799.html for more information about UTM Coordinates. http://www.ot.state.mn.us/ot files/handbook/standard/std17-1.html for Minnesota spatial Site location: The required coordinate scheme for reporting site location is Universal Transverse Mercator (UTM), Extended Zone 15, 1983 North American Datum (NAD83). Refer to

Y coordinate (Northing) X coordinate (Easting) 5420336 meters 639597 meters

> 5426662.73 200068.56

source area, etc. Please describe) What feature does the coordinate represent? (i.e. center of parcel, approximate center of

The UTM coordinates represent the center of the parcel

interpolation, address matching, etc. Please describe) What method was used to determine the coordinate? (i.e. GPS receiver, map

the Humboldt Quad map and the UTM coordinates were recorded. TopoZone was used to view the USGS Humboldt Quad. The site was identified on

site location, please provide the scale of the map or photo (i.e. 1:24,000, etc.) If a paper map, digital map, aerial photo or digital orthophotoquad was used to find the

1:24K/25K Series Topo map. View Scale is 1:24000.

Section 1. GROUND WATER MONITORING

If purged, indicate purging method. report submitted. Indicate whether samples were purged or unpurged (see fact sheet 3.23). analytical results, performed since the remedial investigation (RI) report or the last progress Discuss the groundwater monitoring results, including water level measurements and

dissolved. Therefore, no further investigation or remediation of the site was conducted until the MPCA took over the investigation. Services (the Responsible Party) experienced financial difficulties and was eventually proposed to the MPCA to address the free product. However, after 1995, Co-op 1995. Free product thicknesses ranged from 0.6" to 6.0". Remedial actions were monitoring well MW2 during 8 events between September of 1993 and December of detected in monitoring wells MW1 and MW3, however free product was observed in December 1995. During this period no significant contaminant concentrations were Twelve quarterly monitoring events were conducted at this site from March 1993 to

were deemed necessary. Results are included in the "Site Status Report" dated assessment did not reveal any potential risks to water supply wells (Kittson County free product was observed in any of the borings or monitoring wells and the risk extent of contamination and free product, and conducted another risk assessment. No determine what, if any, remedial actions should be taken. WCEC advanced additional Rural Water is utilized by everyone within 500' of the site). No remediation efforts Geoprobe borings and free-product-assessment hand auger borings to re-assess the WCEC was contracted by the MPCA in 2002 to continue the site investigation and

site was inspected. Upon observation by WCEC personnel, it was determined that the GRO, and DRO. Laboratory analysis detected 4.0 ppb tetrahydrofuran. drinkable. garden. Mrs. Diamond indicated that the alkalai water collecting in the cistern is not "well" is located in the basement and is actually a cistern that is used to water the "well" that had been identified at the Dennis Diamond residence located south of the During the risk assessment conducted in 2003, a walking survey was performed. A A water sample was collected and was sent to NTS for analysis of VOCs,

since the last Site Status Report dated 06/30/03. Monitoring wells MW1, MW2, and GRO, DRO, BTEX, and MTBE. MW3 were sampled on 12/11/03, 03/09/04, 06/07/04, and 09/07/04 and analyzed for Four rounds of groundwater monitoring have been completed by WCEC personnel

sample. An attempt was made to purge the required amount of water from the well obtained. Water samples were analyzed for BTEX, MTBE, GRO, and DRO by during all events. Approximately one gallon was purged on 06/07/04 before a sample events for MW1. Monitoring well MW1 has heaved significantly and is difficult to parameters were below the laboratory reporting limits for MW1. DRO (300, 220, 220 and 120 ppb) in MW1 during this reporting period. All other Northeast Technical Services (NTS). The laboratory detected small concentrations of was obtained and one well volume was purged on 09/07/04 before a sample was Groundwater elevations were below the screened interval during all of the monitoring

40, 50, and 22 ppb), GRO (9500, 2100, 3500, and 2300 ppb), and DRO compounds toluene (<10, 5.0, <20, and 2.7 ppb), ethylbenzene (15, 4.4, 21 and 3.8 ppb), xylenes (53, for all sampling events. Water samples were analyzed for BTEX, MTBE, GRO, and 09/07/04. A minimum of 3 well volumes were purged with a plastic bailer from MW2 MW2 were below their HRLs. HRL (10 ppb) in MW2 during all sampling events. All other contaminants found in below reporting limits in MW2 during this reporting period. Benzene was above the (28,000, 12,000, 53,000, and 19,000 ppb) during this monitoring period. MTBE was DRO. In monitoring well MW2, NTS detected benzene (250, 240, 110, and 170 ppb), Groundwater elevations were above the screen interval in MW2 on 06/07/04 and

for this reporting period. sampling events. Water samples were analyzed for BTEX, MTBE, GRO, and DRO. minimum of 3 well volumes were purged with a plastic bailer from MW3 for all Groundwater elevations were above the screen interval in MW3 only on 06/07/04. Laboratory analysis of the samples from MW3 were below laboratory reporting limits \triangleright

0.0159 to 0.0223. determined to be to northeasterly to northwesterly (Figures 3a - 3d) at gradients from Groundwater flow direction was calculated using water level elevations and was

Section 2. VAPOR IMPACT MONITORING

method. vapor monitoring. Include in your discussion the sampling instrument and sampling If vapor impacts were detected during previous assessments, discuss the results of follow-up

utilities that could be impacted by this release. No vapor monitoring has been done at this site since there are no basements or nearby

(Greater Minnesota). TTY users call 651/297-5353 (V/TTY) or 1-800/627-3529 (V/TTY). Duty Officer (24 hours) at 651/649-5451 (metro and outside Minnesota) or 1-800/422-0798 building and contact the local fire department immediately. Then contact the Minnesota NOTE: If vapor concentrations exceed 10 percent of the lower explosive limit, exit the

Section 3. RECOMMENDATIONS

Discuss your recommendations. Leaking Underground Storage Tank Program. Your recommendation should be based on fact sheet #3.1,

If additional corrective action is recommended, please provide your justification.

No additional corrective action is recommended.

for the reduction or termination of corrective actions may be presented If significant reduction of risk has been achieved at the site, recommendations and rationale

deposits at and around the site. contamination migrating further should be limited by the clay-rich soil and lacustrine confined to the former AST storage and loading areas. The potential for extent of soil contamination appears to be localized, with the highest concentrations There are low risks associated with remaining soil contamination. The horizontal

is not discharging to any surface waters. There is little risk associated with impacted groundwater. Contaminated groundwater

descending to a deeper aquifer. near the site are connected to the Kittson County Rural Water supply. The high clay industrial or municipal wells within $\frac{1}{2}$ mile of the site. All residences and businesses content of lacustrine deposits and soil prevent contaminated ground water from There are no domestic water supply wells within 500 feet of the release source, and no

frequency. If additional monitoring is recommended, indicate the proposed monitoring schedule and

No additional monitoring is recommended. WCEC

site specific risk issues have been adequately addressed or minimized to acceptable low risk If closure is recommended, summarize significant site investigative events and describe how levels

slightly higher contaminant concentrations than previously estimated in the area around test hole TH13, which causes the contaminant plume to be elongated more to the exception of the area around test hole TH13. No test holes were advanced in this the southeast. location during the 1993 investigation. Results from the previous investigation indicate concentrations appear to be consistent with the results of the 1993 investigation with water samples collected for the Site Status Report dated 06/30/03, contaminant Based on field and laboratory analyses of soil samples and laboratory analyses of

analysis of VOCs, GRO, and DRO. Laboratory analysis detected 4.0 ppb the cistern is not drinkable. A water sample was collected and was sent to NTS for observation by WCEC, it was determined that the well located in the basement is tetrahydrofuran. actually a cistern that is used to water the garden, and the alkalai water collecting in was identified at the Dennis Diamond residence, located south of the site. Upon utilized by everyone within 500 feet of the site. During the walking survey, a "well" Report. Kittson County Rural Water was contacted and verified that rural water is groundwater receptor survey were completed for this site for the last Site Status There are no surface waters within 1/4 mile of the site. A 500-foot walking survey and

and there are minimal risks from this release, WCEC recommends closure of the site. the site has been eliminated. Since free product is no longer being detected at the site contamination levels suggest that the contamination may be stabilizing. The tanks observed in monitoring well MW2 during this reporting period, and further, contamination concentrations in the monitoring wells on site. No free product has been have been removed from the site, therefore the potential for further contamination of The main concern at this site has been the presence of free product and the

Table 2
Water Level Measurements

09/ 12/7 05/0 12/7 03/0 06/0	05/ 05/ 12/ 05/ 03/ 03/	12/ 05/(12/	12/3	12/:	1/60	1 200	06/0	03/2	12/2	09/	06/2	03/2	12/	09/	06/	MW2 03/	09/	06/	03/	12/	05/	12/	09/	06/	03/	12/	09/	/60	03/	12/	/60	/90	MW1 03/	Yaniibei Da	_	
12/11/03 03/09/04 06/07/04	11/03	11/03		05/07/03	12/11/95	09/19/95	06/08/95	03/28/95	12/20/94	09/20/94	06/20/94	03/23/94	12/15/93	09/14/93	06/10/93	03/11/93	09/07/04	06/07/04	03/09/04	2/11/03	05/07/03	12/11/95	09/19/95	06/08/95	03/28/95	12/20/94	09/20/94	06/20/94	03/23/94	12/15/93	09/14/93	06/10/93	03/11/93	Sampicu 1		
2.89		9.02	7.96	4.59	Free Product	Free Product	Free Product	3.9	Free Product	9.68	5.00	4.02	8.03	8.56	5.65	6.90	5.02	4.61	6.54	6.21	4.45	4.12	8.63	7.89	4.54	3.61	7.65	Hom Top of Misci	Depth of Water							
Petro odor	٠٠٠٠ ، ١٠٠١	Petro odor	Petro odor	Petro odor	4.80	2.16	2.40	Petro odor	5.40	2.40	0.06	3.60	3.96	6.00	0.24	Petro odor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(in)	Product	
0.28		6.41	5.35	1.98				1.29								7.07	1.62	0.64	4.65	5.18	2.27	3.52	1.64	1.23	3.16	2.83	1.07	0.74	5.25	4.51	1.16	0.23	4.27	Below Grade	Depth of	
100.12	100 13	93.99	95.05	98.42				99.11								93.33	97.62	98.60	94.59	94.06	96.97	95.72	97.60	98.01	96.08	96.41	98.17	98.50	93.99	94.73	98.08	99.01	94.97	Elevation	Relative	
	Y	Z	Z	Z				Y	C							Z	Z	z	z	z	z	Z	z	z	z	z	Z	z	Z	z	z	Y	Z	(Y/N)	Water Level	

Table 2 Cont.
Water Level Measurements

																MW3		Number	Well
09/07/04	06/07/04	03/09/04	12/11/03	05/07/03	12/11/95	09/19/95	26/80/90	03/28/95	12/20/94	09/20/94	06/20/94	03/23/94	12/15/93	09/14/93	06/10/93	03/11/93		Sampled	Date
5.14	4.2	7.73	7.89	5.49	7.2	5.31	5.16	6.07	8.59	4.89	4.39	9.13	7.43	4.97	4.08	7.89		from Top of Riser	Depth of Water
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(in)	Thickness	Product
1.6	0.66	4.19	4.35	1.95	3.66	1.77	1.62	2.53	5.05	1.35	0.85	5.59	3.89	1.43	0.54	4.35	Below Grade	Water	Depth of
98.00	98.94	95.41	95.25	97.65	95.94	97.83	97.98	97.07	94.55	98.25	98.75	94.01	95.71	98.17	99.06	95.25	Elevation	Groundwater	Relative
Z	Y	Z	N	Z	Z	Z	N	Z	Z	Z	Y	Z	Z	Z	Y	Z	(Y/N)	Above Screen	Water Level

Notes:

Results reported in feet unless otherwise noted.

Empty Spaces = Not Applicable due to the presence of free product.

Table 3
Analytical Results of Water Samples

0	0	0	1		1	0	0	0	. 1	0	0	06	0	1	0	0	MW2 0	0	0	0		0	1	0	0	0	1	0	0	0		C)	-	Number S
09/07/04	06/07/04	03/09/04	12/11/03	05/07/03	12/11/95	09/19/95	06/08/95	03/28/95	12/20/94	09/20/94	06/20/94	06/20/94@	03/23/94	12/15/93	09/14/93	06/10/93	03/11/93	09/07/04	06/07/04	03/09/04	12/11/03	05/07/03	12/11/95	09/19/95	06/08/95	03/28/95	12/20/94	09/20/94	06/20/94	03/23/94	12/15/93	09/14/93	06/10/93	03/11/93	Sampled
170	110	240	250	150	Free	Free	Free	851	Free	Free	15.4	460	Free	Free	Free	245	79.3	<2	<2	2	2	<1.0**	BDL	BQL	BQL	BQL									
2.7	<20	∪r	<10	<5.0	Product	Product	Product	BDL	Product	Product	BDL	BDL	Product	Product	Product	7	4.5	\$	<2	2	2	<1.0**	BDL	BDL	2.3	BDL	BDL	BDL	BDL	BDL	BDL	BQL	BQL	BQL	
3.8	21	4.4	15	<5.0				BDL			BDL	BDL				6.6	3	<1.4	<1.4	<1.4	<1.4	<1.0**	BDL	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BQL	BQL	BQL	benzene
22	50	40	53	61				202.5			8.5	452				239	51.9	4	4	4	<4	<3.0**	BDL	BDL	4.6	BDL	BDL	BDL	BDL	BDL	TOB	BQL	TOB	BQL	
<2.3	<23	<4.6	<12	<5.0				BDL			NΑ	BDL				BQL	BQL	<2.3	<2.3	<2.3	<2.3	<1.0	NA	BQL											
2300	3500	2100	9500	2400				4300			1640	NA				4800	1100	<100	<100	<100	<100	<60	BDL	BQL	200	вQL									
19000	53000	12000	28000	35000*				656000			3700	AN		28.0		5900	BQL	120	220#	220	300#	150	NA	BDL	BDL	BQL	5600	BQL							
Fixed	Fixed	Fixed	Fixed	Fixed				Fixed			Fixed	Fixed				Fixed	Type																		

Table 3 Cont.

Analytical Results of Water Samples

Votes: Pesul														Trip Blank			Dup of MW2	MW4																	MW3	Number	AACII
Notes: Results reported in wall	06/07/04	03/09/04	12/11/03	05/07/03	12/11/95	09/19/95	06/08/95	03/28/95	12/20/94	09/20/94	06/20/94	03/23/94	12/15/93	09/14/93	09/07/04	06/07/04	03/09/04	12/11/03	09/07/04	06/07/04	03/09/04	12/11/03	05/07/03	12/11/95	09/19/95	06/80/95	03/28/95	12/20/94	09/20/94	06/20/94	03/23/94	12/15/93	09/14/93	06/10/93	03/11/93	Sampled	Date
1 1	۵	<2	<2	<1.0	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BQL	170	110	240	250	<2	<2	<2	<1.0	<1.0	BDL	BQL	BQL	3.4		Denzene								
RDI denotes Relaw Detectable Limits	۵	2	2	<1.0	BDL	BDL	2.6	NA	BDL	BDL	BDL	BDL	BDL	BQL	2.4	<20	4.8	<10	<2	<2	<2	<2	<1.0	BDL	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BQL	1.5		Tornene
<1.4	<1.4	<1.4	<1.4	<1.0	BDL	BDL	1.1	NA	BDL	BDL	BDL	BDL	BDL	BQL	3.2	1.9	4.6	13	<1.4	<1.4	<1.4	<1.4	<1.0	BDL	ВQL	BQL	BQL	benzene	Eulyi								
-	4	4	<4	<3.0	BDL	BDL	3.6	NA	BDL	BDL	BDL	BDL	BDL	BQL	21	43	40	46	<4	<4	<4	<4	<3.0	BDL	BQL	BQL	BQL		Ayrenes								
CL.3	<2.3	<2.3	<2.3	<1.0	NA	NA	NA	NA	NA	AN	NA	NA	NA	NA	<2.3	<23	<4.6	<12	<2.3	<2.3	<2.3	<2.3	<1.0	NA	NA	NA	AN	NA	AN	AN	AN	AN	AN	NA	BQL		MILDE
Relow	<u>^1</u> 00	<100	<100	<60	BDL	BDL	100	NA	BDL	BDL	BDL	BDL	BDL	BQL	2200	2700	2200	7000	<100	<100	<100	<100	<60	BDL	вот	BQL	BQL		GRO								
ROI denotes Relow Quantifiable Level	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AN	AN	BDL	BQL	NA	24000	16000	44000	<110	<100#	<100	<100	<100	NA	NA	NA	NA	AN	NA	NA	NA	NA	AN	BQL	BQL		DRO
Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	NA	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Type	Lab

Notes: Results reported in ug/L. BDL denotes Below Detectable Limits. BQL denotes Below Quantifiable Level. NA denotes Not Analyzed. * denotes sample preserved at pH of 3. ** denotes Laboratory Control Spike not within control limits. @ denotes samples were sent to Energy Labs for separate analysis.

Table 4
Other Contaminants Detected in Water Samples
(Petroleum or Non-petroleum Derived)

Compound	1,2-Dichloroethane	Chloroethane	Ethyl ether	1,2-Dichloropropane	Methyl isobutyl ketone	n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene 300	p-Isopropyltoluene	n-Propylbenzene	Naphthalene 300	tert-Butylbenzene	Tetrahydrofuran	1,2,4-Trimethylbenzene	1 3 6 Think Liberton
03/11/03	9.4					34.6			1.9	1.2	3.6	1.3		6.2	68.8
06/10/03 M	18.3	13	25.4	1.2	14.5	37.4		9.1	4	6	87.6	2.5		100	46.2
MW2	43					24			13					36	120
03/28/05	35.3				712	45.8					111			83.9	36.8
05/07/03	23					75	13	14	9.5	14	60		57	34	18

Notes: Results reported in ug/L.

Table 5 Natural Attenuation Parameters

Not Applicable

Table 6
Results of Vapor Monitoring

Not Applicable

Attach Figures:

acceptable. Figures - (all maps are to include a north arrow, scale and legend) Approximate scales are not

- and identify the name of the 7.5 minute quadrangle. (Figure 1) Site location map. Adapt this map from a U.S. Geological Survey 7.5 minute quadrangle
- Site map showing the locations of all ground water and vapor monitoring points (Figure 2)
- elevations at each data point used for contouring. (Figure 3) differentiate wells constructed in different aquifers. water level measurements since the last report. Show all wells at the site, and Updated ground water contour maps, using water level elevations from all rounds of Label ground water contours and
- Hydrograph for all monitoring and recovery wells. (Figure 4)
- wells. (Figure 5) Graph(s) showing contaminant concentrations over time for all monitoring and recovery

Attach Appendices:

completed since the last report. All reproduced data must be legible. The appendix section of the report contains sufficient information to document all activities

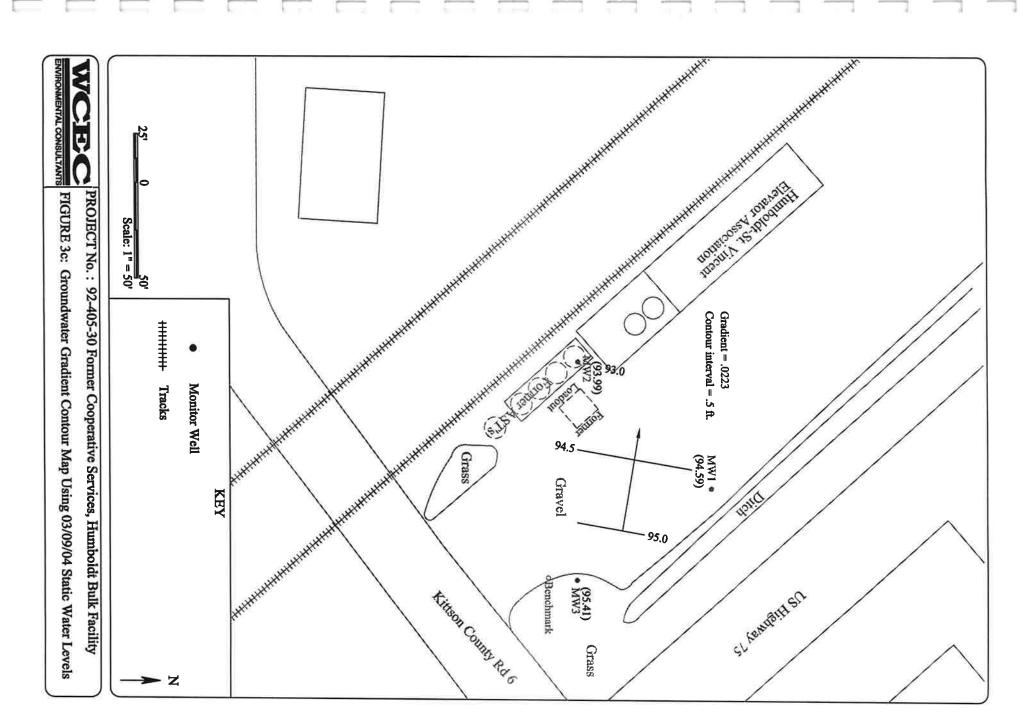
- Copies of most recent laboratory reports for ground water analyses, including a copy of the Chain of Custody and the MDH laboratory certification number.
- Sample collection information, including procedure, equipment, and decontamination.
- Field or sampling data sheets.

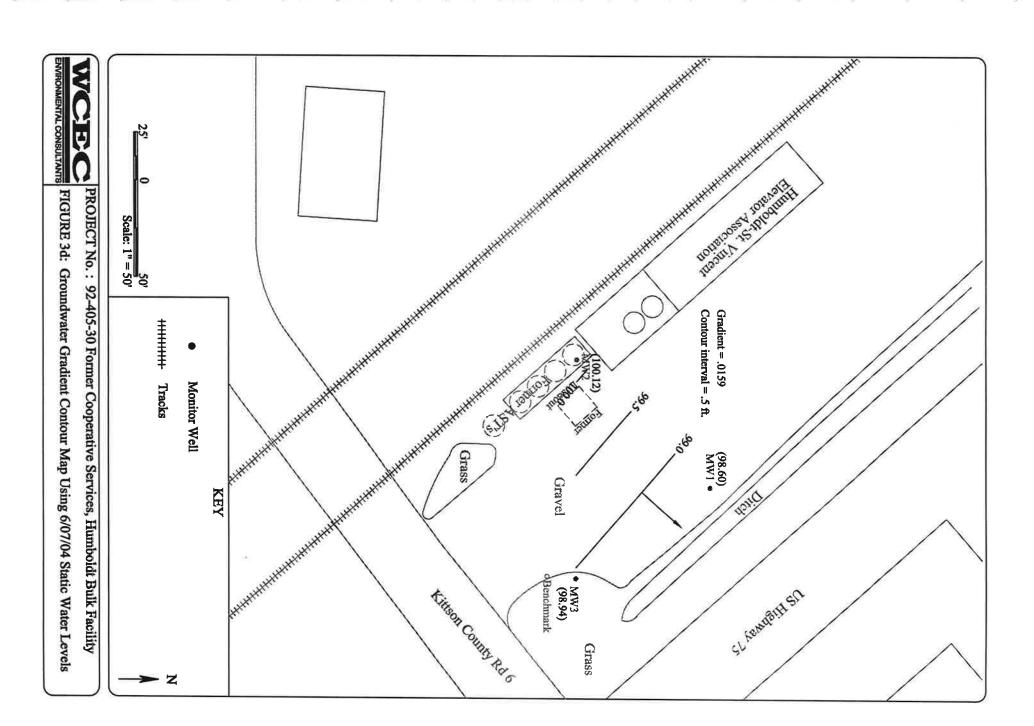
Web pages and phone numbers

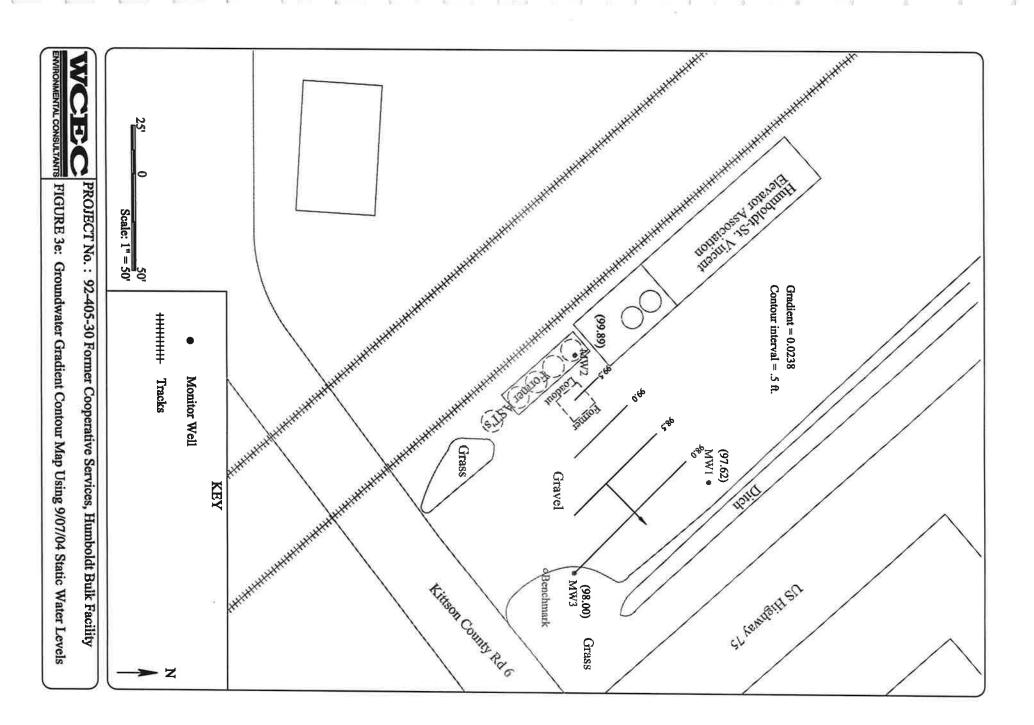
MPCA toll free
LUST web page
MPCA Infor. Request
PetroFund Web Page
PetroFund Phone
State Duty Officer

MPCA staff

http://data.pca.state.mn.us/pca/emplsearch.html
1-800-657-3864
http://www.pca.state.mn.us/programs/lust_p.html
http://www.pca.state.mn.us/programs/lust_p.html
http://www.commerce.state.mn.us/mainpf.htm
651-297-1119, or 1-800-638-0418
651-649-5451 or 1-800-422-0798

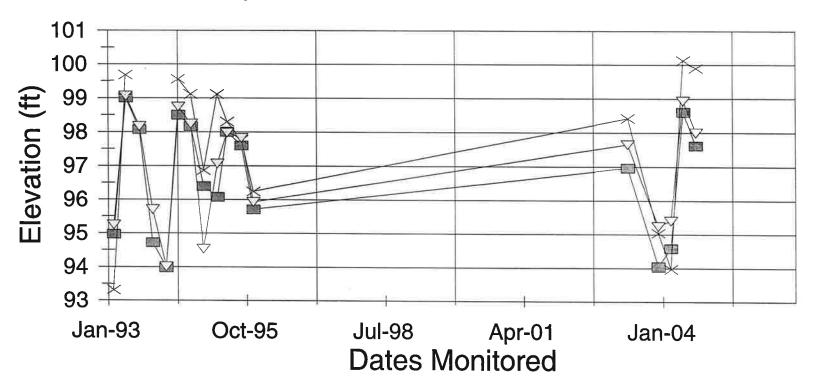








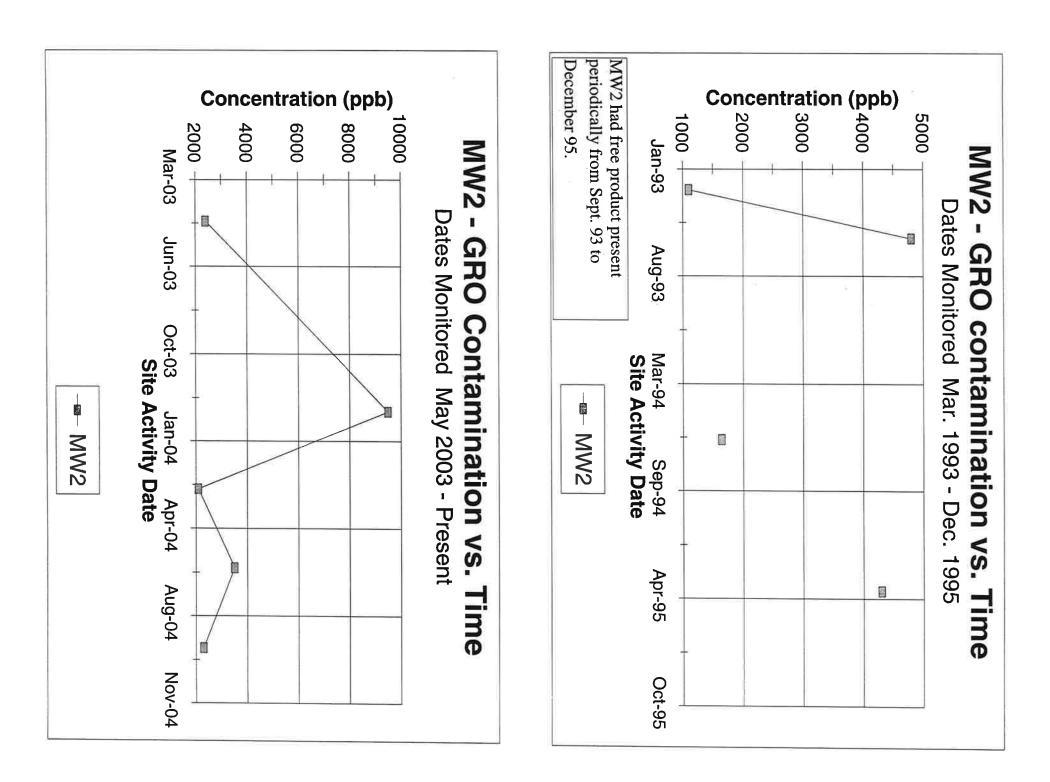
Co-op Service Bulk - Humboldt, MN

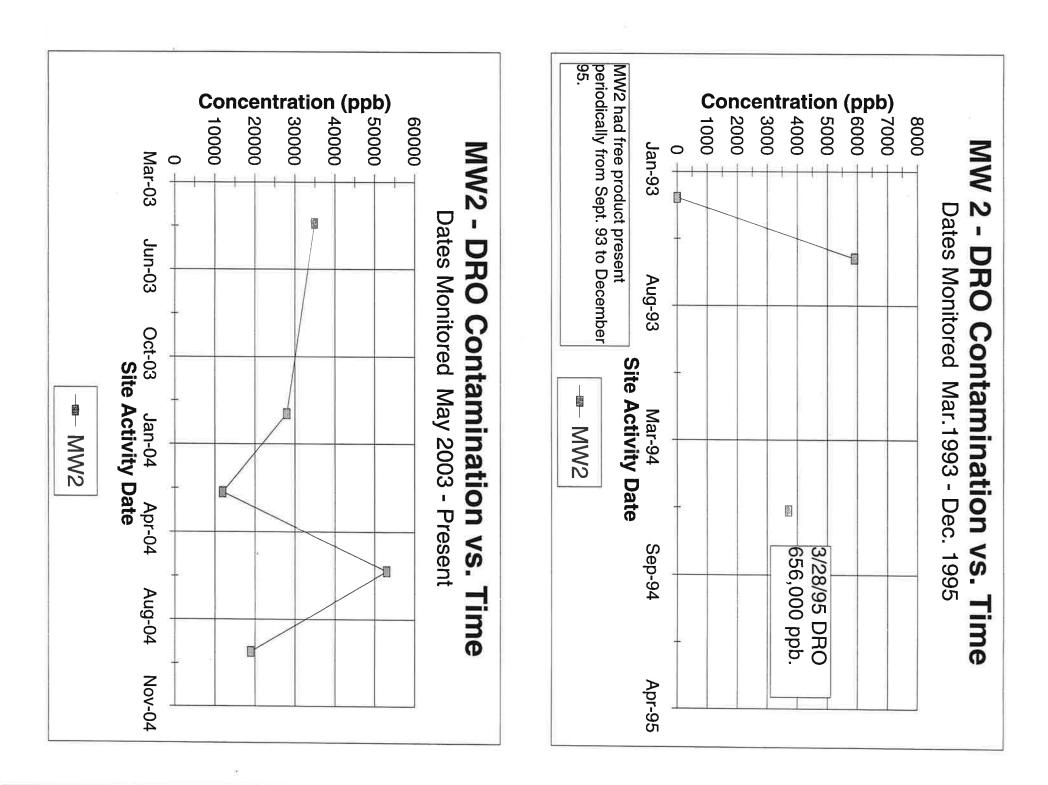


— MW1 → MW2 → MW3

FIGURE 5

Graphs Showing Contaminant Concentrations Over Time





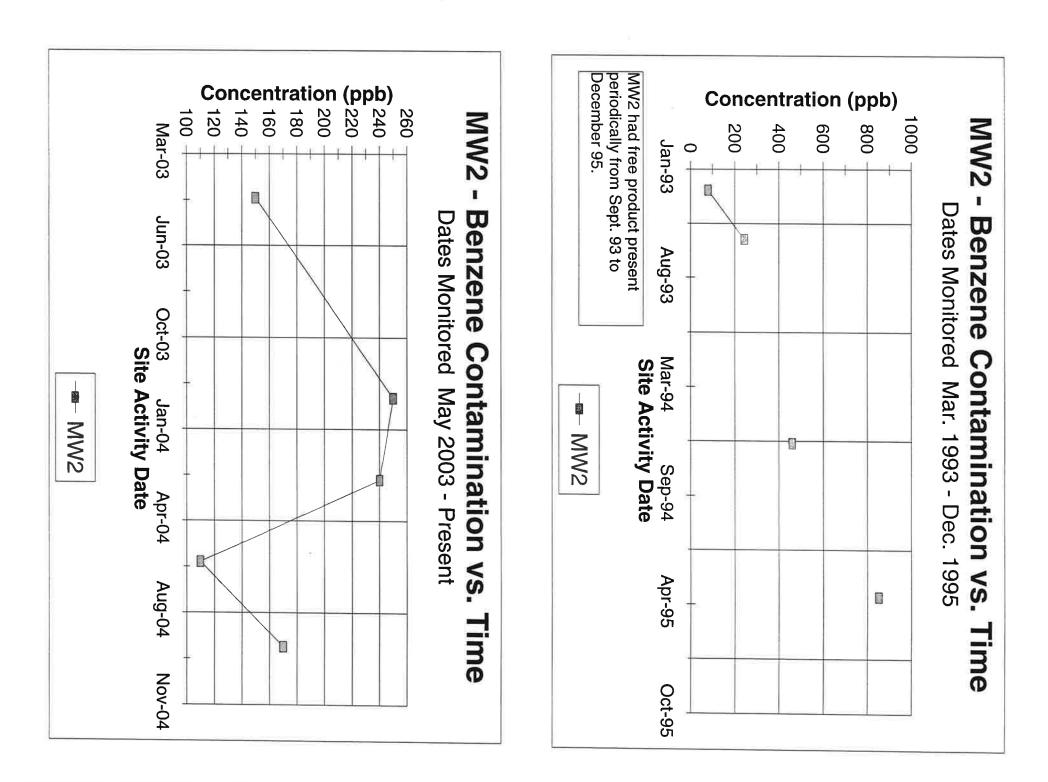


FIGURE 6

Geologic Cross Sections

Not Applicable

APPENDIX A

Laboratory Analytical Reports



MDH Laboratory # 027-137-157

Client: Study: Sample ID: WCEC-Morris S042581648 Project #: 5527 Status: Normal NTS COC No: 43929 Sampler: Client

Descript: Consultant WCEC, Morris #405

Location: MW1-405-H2O-17

02:10 PM

Matrix: Liquid Type: Grab

Sampled: 9/7/2004 (Completed: 09/22/2004

Notes:

DRO extraction date: 09/14/04

* Heavy hydrocarbon compounds detected outside the DRO window.

Analyte	Analysis Date	Result	Units	RL.	Method
	9/17/2004	* 0.12	mg/L	0.1	WI Method
Cho Cho	0/15/2004	<0.1	mg/L	0.1	WI Method
GRO	7/ X 2/ Z/ C/ C	- 01.5	0		20017/201/202
Benzene	9/15/2004	<2	ug/L	2	8021B/601/602
Ethyl Renzene	9/15/2004	<1.4	ug/L	1.4	8021B/601/602
Mother tort butul other	9/15/2004	<2.3	ug/L	2.3	8021B/601/602
Macing a coat wanty a common	0/15/2004	<2	ug/L	2	8021B/601/602
Totalene	, , , , , , , , , , , , , , , , , , ,				9021D/201/202
Total Xvlenes	9/15/2004	<4	ug/L	4	8021B/601/602

Approved By:



Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

Northeast Technical Services, Inc. makes no warranty except that the analysis has been made upon the samples received in accordance with generally accepted testing laboratory principles and practices. The results of the analysis may not be characteristic of the whole from which the sample was taken. This warranty is in lieu of all other warranties either expressed or implied.

Thursday, September 23, 2004

NTS Laboratory Data Base System

Page 1 of 5



MDH Laboratory # 027-137-157

Study: Client: Descript: Sample ID: Consultant WCEC, Morris #405 WCEC-Morris S042581650 Project #: | 5527 Status: Normal NTS COC No: 43929 Sampled: 9/7/2004 (Completed: 09/22/2004 Sampler: Client 02:40 PM Matrix: Liquid Type: Grab

Notes:

Location:

MW2-405-H2O-17

DRO extraction date: 09/14/04

p DRO sample pH 7

Analyte	Analysis Date	Result	Units	굗	Method
Allalyte				•	MIN Maked
nno N	9/17/2004	p 19	mg/L	2	WI Method
DRO	// E. ()	-		2	WIT Mathod
CBO	9/16/2004	2.3	mg/L	0.1	A I Mainaid
GNO			7	د	0021B/601/602
Banzana	9/16/2004	170	ug/L	^	00210001/002
No.	9/16/2004	3.8	ug/L	1.4	8021B/601/602
Etnyl Denzene	27 1 27 2 2 2			2	9001 D/601/600
Methyl tert-butyl ether	9/16/2004	<2.3	ug/L	2.3	9021D/001/002
arabenja sent ward	7000/31/0	27	ll/gu	2	8021B/601/602
Toluene	7/10/2007	t	,		9021D/601/602
	0/16/2004	22	ug/L	4	\$021B/001/002

Approved By:

Project Manager:

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Thursday, September 23, 2004

NTS Laboratory Data Base System

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MDH Laboratory # 027-137-157

Client: Study: Sample ID: WCEC-Morris Project #: 5527 Status: Normal NTS COC No: 43929 Sampler: Client Matrix: Liquid Type: Grab

Study: Consultant
Descript: WCEC, Morris #405
Location: MW3-405-H2O-17

\$105 Sampled: 9/7/2004 01:30 PM 7 Completed: 09/22/2004

Notes:

DRO extraction date: 09/14/04

c The RL was raised due to insufficient sample volume.

Analyte	Analysis Date	Result	Units	쿈	Method
	9/16/2004	c < 0.11	mg/L	0.11	WI Method
Chic	V00C/51/0	<0.1	mø/L	0.1	WI Method
GRO	7/13/2004	70.1	9		20015/201/200
Benzene	9/15/2004	<2	ug/L	2	8021B/601/602
Ethyl Benzene	9/15/2004	<1.4	ug/L	1.4	8021B/601/602
Mathed tout hutal other	9/15/2004	<2.3	ug/L	2.3	8021B/601/602
Manual ter transportation	0/15/2004	^>	11/0/1	2	8021B/601/602
Lotuene), rolling.	t	,		000110/01/000
Total Xvlenes	9/15/2004	<4	ug/L	4	8021B/601/602

Approved By:

Project Manager:

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Thursday, September 23, 2004

NTS Laboratory Data Base System

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MDH Laboratory # 027-137-157

Cilent: Study: Descript: Sample ID: Consultant WCEC, Morris #405 WCEC-Morris S04258165A | Project #: | 5527 Status: Normal NTS COC No: 43929 Sampled: 9/7/2004 Completed: 09/17/2004 Sampler: Client 03:00 PM Matrix: Liquid Type: Grab

Notes:

Location:

MW4-405-H2O-17

Analida	Analysis Date	Result	Units	RL.	Method
Analyte	Alialyon Date				uu ve u / / . J
CBO	9/16/2004	2.2	mg/L	0.1	WI Method
GNO			-	د	002110/c01/c02
Benzene	9/16/2004	170	ug/L	1	200717007
EdlI Donzono	9/16/2004	3.2	ug/L	1.4	8021B/601/602
Emyr Denzene				3	0001D/601/600
Mothyl tert-hutyl ether	9/16/2004	<2.3	ug/L	2.3	9021B/001/002
Macing a contract of the	0/16/200/	24	T/øn	2	8021B/601/602
Toluene	2/10/2007	t: .			00010/01/00
Total Vulance	9/16/2004	21	ug/L	4	80218/001/002
TOTAL ASSERTS					

Approved By:

Project Manager:

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Thursday, September 23, 2004

NTS Laboratory Data Base System

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MDH Laboratory # 027-137-157

Client: Study: Descript: Location: Sample ID: WCEC-Morris Consultant WCEC, Morris #405 TB-405 Project #: 5527 Status: Normal NTS COC No: 43929 Sampled: 9/7/2004 Completed: 09/17/2004 Sampler: Client Matrix: Liquid Type: Grab

Notes:

Analyte	Analysis Date	Result	Units	몬	Method
Allaiyee					00015/001/000
Renzene	9/15/2004	<2	ug/L	2	8021B/601/602
Denzene			ī		9001 D/201/200
Ethyl Benzene	9/15/2004	<1.4	ug/L	1.4	80218/601/602
which was a second		5	77	၁	8021B/601/602
Methyl tert-butyl ether	9/15/2004	<2.3	ug/L	2.3	00210/001/002
Toluene	9/15/2004	<2	ug/L	2	8021B/601/602
Totache	0115000		I/mil	4	8021B/601/602
Lotal Aylenes	711512001				

Approved By:

Project Manager:

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Thursday, September 23, 2004

NTS Laboratory Data Base System

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External Standard Report

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Totals

1.23312e-1

Results obtained with enhanced integrator!

* 11 End of Report **

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Report



Northeast Technical Services, Inc.

315 Chestnut Street P.O. Box 1142 Virginia, Minnesota 55792 Phone: 218-741-4290 Fax: 218-742-1010 *Multisite/Spector

coc# 43929

Page ______ of _____ Date Due: _____

CHAIN OF CUSTODY RECORD

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Northeast Technical Services Environmental Laboratory Sample Receiving Non-Conformity Checklist

COC Date	COC #: 43929 Date received: 9-10-04	Proj Rece	Project#: SS27 Received by: C ρ
	Samples not received at 2-6 °C Rece	Received @_	@°C
	Samples not received on ice		
	Temperature blank not included		
	COC documents not included		PM notified
	Sampling date/time not complete		PM notified
R	Required signatures not complete		PM notified
	Custody tape/seals not intact		PM notified
	Samples and COC did not match		PM notified
	Samples not intact		PM notified
	Requires quick turn around analysis		Lab notified
	Short hold time tests		Lab notified
	Samples near expiration of hold time		Lab notified
	Samples were past holding time		PM notified
	Filtration/preservation by lab required		Lab notified
	Preservation of samples not correct		PM notified
	Sample volumes not adequate		PM notified
	VOCs not free of headspace		PM notified
*	Sample did not relinavist samples.	£	sample s.



MDH Laboratory # 027-137-157

Study: Client: Sample ID: Consultant WCEC, Morris #92-405-30 WCEC-Morris S041631102 Project #: 5527 Status: Normal NTS COC No: 41802 Sampler: Client 02:25 PM Matrix: Liquid Type: Grab

Sampled: 6/7/2004 Completed: 06/18/2004

Notes:

Location: Descript:

MW1-405-H20-16

DRO extraction date: 06/14/04
* Heavy hydrocarbon compounds detected outside the DRO window.

Anglyte	Analysis Date	Result	Units	RL	Method
Allalyte	a mineral person				WITH A - J
DRO	6/17/2004	* 0.22	mg/L	0.1	WI Method
DIVO			7/	2	W/I Method
CRO	6/11/2004	<0.1	mg/L	0.1	ANT INICITION
Danzono	6/11/2004	<2	ug/L	2	SW846 8021
Denzene			1/2	1 /	SW846 8021
Ethyl Benzene	6/11/2004	<1.4	ug/L	1.4	1200 040 040
Mothyl tort hutyl other	6/11/2004	<2.3	ug/L	2.3	SW846 8021
Methyl tert-putyl ctuck				,	CM/0//C 0001
Toluene	6/11/2004	<2	ug/L	2	SW840 8021
Total Yvienes	6/11/2004	<4	ug/L	4	SW846 8021
I A Court was a constant					

Approved By:

Project Manager:

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Wednesday, June 23, 2004

NTS Laboratory Data Base System

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MDH Laboratory # 027-137-157

Client: Study: Descript: Sample ID: D: S041631106 Project #: 5527
WCEC-Morris
Consultant
WCEC, Morris #92-405-30 Status: Normal NTS COC No: 41802 Sampled: 6/7/2004 Completed: 06/18/2004 Sampler: Client 03:00 PM Matrix: Liquid Type: Grab

Notes:

Location:

MW2-405-H20-16

DRO extraction date: 06/14/04

p-DRO sample pH= 7

Analyte	Analysis Date	Result	Units	RL	Method
	6/16/2004	p 53	mg/L	0.1	WI Method
GRO	6/14/2004	3.5	mg/L	0.1	WI Method
Renzene	6/14/2004	110	ug/L	2	SW846 8021
Ethyl Bonzono	6/14/2004	21	ug/L	1.4	SW846 8021
тиут реплене	0111100		,		2000
Methyl tert-butyl ether	6/14/2004	<23	ug/L	2.3	SW846 8021
Toluene	6/14/2004	<20	ug/L	2	SW846 8021
Total Vulance	6/14/2004	50	ug/L	4	SW846 8021
A CHILLED TORRES					

Approved By:

Project Manager:

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Wednesday, June 23, 2004

NTS Laboratory Data Base System

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MDH Laboratory # 027-137-157

Client: Study: Sample ID: Consultant WCEC, Morris #92-405-30 MW3-405-H20-16 WCEC-Morris S041631107 | Project #: | 5527 Sampler: Client Status: Normal NTS COC No: 41802 Matrix: Liquid Type: Grab

Sampled: 6/7/2004 Completed: 06/18/2004 02:00 PM

Descript:

* Heavy hydrocarbon compounds detected outside the DRO window.

Location:	Location: MW3-405-H20-16	Compieses, our solution.
Notes:		
DRO extra	DRO extraction date: 06/14/04	

Analyte	Analysis Date	Result	Units	RL	Method
manyo				2	Will Mathad
DRO	6/15/2004	* < 0.1	mg/L	0.1	WI Method
DING		•	7	21	WI Method
GRO	6/11/2004	<0.1	mg/L	0.1	AN INCHION
Ponzono	6/11/2004	<2	ug/L	2	SW846 8021
Delizence	611 600	211	1/2011	1 4	SW846 8021
Ethyl Benzene	6/11/2004	1.4	n An		20001
Mother tort-hutel other	6/11/2004	<2.3	ug/L	2.3	SW846 8021
Michiga ter t-purya conca			77	٥	1008 978/03
Toluene	6/11/2004	<2	ug/L	7	1700 040 MC
Total Vylenes	6/11/2004	<4	ug/L	4	SW846 8021
A Otal Any Ivanos					

Approved By:

Project Manager:

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MDH Laboratory # 027-137-157

Sample ID: S04163110A Project #: 5527
Client: WCEC-Morris
Study: Consultant
Descript: WCEC, Morris #92-405-30 Status: Normal NTS COC No: 41802 Sampled: 6/7/2004 03:15 PM Completed: 06/18/2004 Sampler: Client Matrix: Liquid Type: Grab

Notes:

Location:

MW4-405-H20-16

DRO extraction date: 06/14/04

p-DRO sample pH= 7

Analyte	Analysis Date	Result	Units	몬	Method
	6/16/2004	p 24	mg/L	0.1	WI Method
DAVO		,	7.		WI Mathad
GRO	6/14/2004	2.7	mg/L	0.1	W1 Method
Benzene	6/14/2004	110	ug/L	2	SW846 8021
Ethyl Benzene	6/14/2004	1.9	ug/L	1.4	SW846 8021
Advanta de la companya de la company	6114/2004	/33	1/2/1	22	SW846 8021
Methyl tert-butyl ether	6/14/2004	<23	ug/∟	2.3	1700 040 AA C
Toluene	6/14/2004	<20	ug/L	2	SW846 8021
Total Xvlenes	6/14/2004	43	ug/L	4	SW846 8021

Approved By:

Project Manager:

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Wednesday, June 23, 2004

NTS Laboratory Data Base System

Page 4 of 5



Client: Study:

Sample ID:

Notes:

Location: Descript:

Trip Blank

"Solutions for Technical Concerns"

MDH Laboratory # 027-137-157

D: S04163110B Project #: 5527
WCEC-Morris
Consultant
WCEC, Morris #92-405-30 Status: Normal NTS COC No: 41802 Sampler: Client

> Matrix: Liquid Type:

Grab

Sampled: 6/7/2004

Completed: 06/16/2004

Total Xylenes Toluene Methyl tert-butyl ether Ethyl Benzene Benzene GRO Analyte Analysis Date 6/11/2004 6/11/2004 6/11/2004 6/11/2004 6/11/2004 6/11/2004 Result 4 2 <2.3 <1.4 **^2** <0.1 ug/L ug/L ug/L mg/L ug/L ug/L Units 2.3 0.1 1.4 꼰 4 2 2 SW846 8021 SW846 8021 SW846 8021 SW846 8021 SW846 8021 WI Method Method

Approved By:

Project Manager

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NTS Laboratory Data Base System

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MDH Laboratory # 027-137-157

Consultant WCEC, Morris #92-405-30 WCEC-Morris S041631102 | Project #: 5527 Status: Normal NTS COC No: 41802 Sampler: Client Matrix: Liquid Type: Grab

Sampled: 6/7/2004 Completed: 06/18/2004

02:25 PM

Notes:

Location: Descript:

MW1-405-H20-16

Client: Study:

Sample ID:

DRO extraction date: 06/14/04
* Heavy hydrocarbon compounds detected outside the DRO window.

Analyte	Analysis Date	Result	Units	RL	Method
	6/17/2004	* 0.22	mg/L	0.1	WI Method
CaO	6/11/2004	<0.1	mg/L	0.1	WI Method
ONO				,	CW9 16 9021
Benzene	6/11/2004	<2	ug/L	2	SW846 8021
Ethyl Benzene	6/11/2004	<1.4	ug/L	1.4	SW846 8021
Mathel tast butyl other	6/11/2004	<2.3	ug/L	2.3	SW846 8021
Arabita and a series	(111/2007	2	ma/I	2	SW846 8021
Toluene	6/11/2004	1	ug/L	,	200000000000000000000000000000000000000
Total Xvlenes	6/11/2004	<4	ug/L	4	SW846 8021

Approved By:

Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

Northeast Technical Services, Inc. makes no warranty except that the analysis has been made upon the samples received in accordance with generally accepted testing laboratory principles and practices. The results of the analysis may not be characteristic of the whole from which the sample was taken. This warranty is in lieu of all other warranties either expressed or implied.

Friday, June 18, 2004

NTS Laboratory Data Base System

Page 1 of 5



MDH Laboratory # 027-137-157

Study: Descript: Client: Location: Sample ID: D: S041631106 | Project #: 5527 WCEC-Morris Consultant WCEC, Morris #92-405-30 MW2-405-H20-16 Status: Normal NTS COC No: 41802 Sampled: 6/7/2004 (Completed: 06/18/2004 Sampler: Client 03:00 PM Type: Grab Matrix: Liquid

Notes:

DRO extraction date: 06/14/04

				!	
Analyte	Analysis Date	Result	Units	2	Meniod
	6/16/2004	53	mg/L	0.1	WI Method
DNO					WI Mathad
GRO	6/14/2004	3.5	mg/L	0.1	MI METHOD
Danish	6/14/2004	110	ug/L	2	SW846 8021
Denzene	6/14/2004	21	J/gu	1.4	SW846 8021
Ethyl Denzene	0, 1, 1, 1, 0, 0, 1			3	CVIV9 AC 9001
Methyl tert-butyl ether	6/14/2004	<23	ug/L	2.3	SW846 8021
Toluene	6/14/2004	<20	ug/L	2	SW846 8021
Actual	711412004	40	Il/DII	4	SW846 8021
Total Aylenes	0,1,1,000		,		

Approved By:

Project Manager:

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Friday, June 18, 2004

NTS Laboratory Data Base System

Page 2 of 5



MDH Laboratory # 027-137-157

Client: Study: Sample ID: D: S041631107 | Project #: 5527 WCEC-Morris Consultant WCEC, Morris #92-405-30 Status: Normal NTS COC No: 41802 Sampler: Client Matrix: Liquid Type: Grab

Sampled: 6/7/2004 Completed: 06/18/2004 02:00 PM

Notes:

Location: Descript:

MW3-405-H20-16

DRO extraction date: 06/14/04

* Heavy hydrocarbon compounds detected outside the DRO window

Analyte	Analysis Date	Result	Units	RL	Method
	6/15/2004	*<0.1	mg/L	0.1	WI Method
DIVO					Lada-Maria
GRO	6/11/2004	<0.1	mg/L	0.1	WI Method
Renzene	6/11/2004	<2	ug/L	2	SW846 8021
Ethyl Renzene	6/11/2004	<1.4	ug/L	1.4	SW846 8021
Total I was a second		5		3	1 CUN 3 7 8 7 1 1 1
Methyl tert-butyl ether	6/11/2004	<2.3	ug/L	2.3	SW846 8021
Toluene	6/11/2004	<2	ug/L	2	SW846 8021
Total Xvienes	6/11/2004	<4	ug/L	4	SW846 8021

Approved By:

Project Manager:

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Friday, June 18, 2004

NTS Laboratory Data Base System

Page 3 of 5



MDH Laboratory # 027-137-157

Client: Study: Descript: Sample ID: WCEC-Morris Consultant WCEC, Morris #92-405-30 S04163110A | Project #: 5527 Status: Normal
NTS COC No: 41802
Sampled: 6/7/2004 0:
Completed: 06/18/2004 Sampler: Client 03:15 PM Matrix: Liquid Type: Grab

Location: MW4-405-H20-16

Notes:

DRO extraction date: 06/14/04

				2	Ad - Alica d
Analyte	Analysis Date	Result	Units	7	Method
	6/16/2004	24	mg/L	0.1	WI Method
DKO	O TOLDOO.				Trans. March - J
CaO	6/14/2004	2.7	mg/L	0.1	WI Method
GNO				,	CW/9// 9001
Renzene	6/14/2004	110	ug/L	2	SW840 8021
N-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	6/14/2004	1 9	J/gu	1.4	SW846 8021
Euryl Denzeue	O' L THOO!		,		GTT 10 1001
Mathyl fart-hutyl ether	6/14/2004	<23	ug/L	2.3	SW846 8021
Tracing to be ward - come.			7	,	CM70 AC 0001
Toluene	6/14/2004	<20	ug/L	2	SW846 8021
			. //	`	CM/8/16 8001
Total Xvlenes	6/14/2004	43	ug/L	4	SW840 8021

Approved By:

Project Manager:

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Friday, June 18, 2004

NTS Laboratory Data Base System

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MDH Laboratory # 027-137-157

wanx. Liquid	NTS COC No: 41802 NTS COC No: 41802 Sampled: 6/7/2004 Completed: 06/16/2004	0	#92-405-3(Client: WCEC-Morris Study: Consultant Descript: WCEC, Morris #92-405-30 Location: Trip Blank	Client: Study: Descript: Location:
lype: Grab	Sampler: Client	5527	Project #:	Sample ID: S04163110B Project #: 5527	Sample ID:

Notes:

Analyte	Analysis Date	Result	Units	RL	Method
CRO ,	6/11/2004	<0.1	mg/L	0.1	WI Method
ONO					GXY 10 17 0001
Benzene	6/11/2004	<2	ug/L	2	SW846 8021
Ethyl Benzene	6/11/2004	<1.4	ug/L	1.4	SW846 8021
Methyl tert-hutyl ether	6/11/2004	<2.3	ug/L	2.3	SW846 8021
ATACOMA ACCOUNT	7111/2004	۵	1/2/1	J	SW846 8021
Toluene	6/11/2004	<2	ug/L	2	SW 640 6021
Total Xvlenes	6/11/2004	< 4	ug/L	4	SW846 8021

Approved By:

Project Manager:

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Friday, June 18, 2004

NTS Laboratory Data Base System

Page 5 of 5

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Injection Date
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ysis Method : D:\HPCHEM\7\METHODS\D041304L.M

changed : 05/26/2004 8:39:49 AM by csd

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Results obtained with enhanced integrator!
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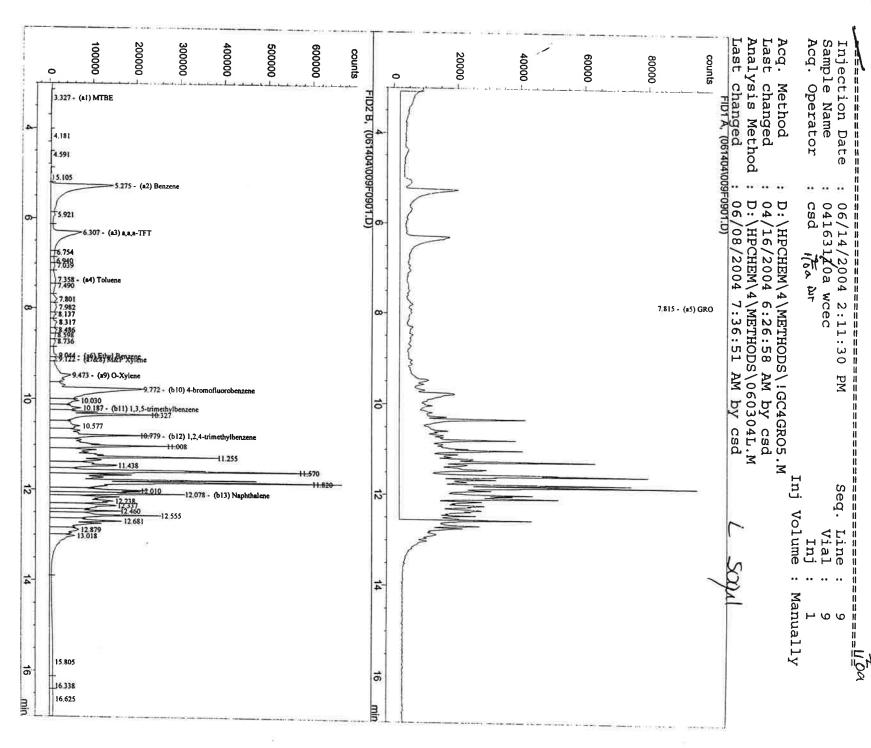
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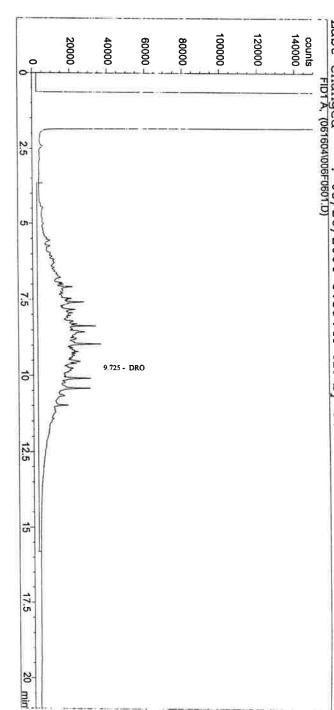
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External Standard Report

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External 43 andard Report

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Totals

Results 11 11 obtained with enhanced integrator!

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End of Report



Northeast Technical Services, Inc.

* Milks te/Superful

coc# 41802

Page	of
Date Due:	

315 Chestnut Street P.O. Box 1142 Virginia, Minnesota 55792 Phone: 218-741-4290 Fax: 218-742-1010

CHAIN OF CUSTODY RECORD

Client Information Client: WCEC Contact Person: Maff Address: 14 Green Rive Nerris MN Phone: (340) 589 - 201 Fax: (320) 589 - 281 Project Information: 405 - Humboldt	Johnson er Road 56267	Address:	Mett. WEC Slelà WE	n 6-es	e			₽.			Cho.		10.0						
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MDH Laboratory # 027-137-157

Sample ID: WCEC-Morris Consultant WCEC, Morris #92-405-30 MW1-405-H20-15 S040711616 | Project#: | 5527 Sampler: Client Matrix: Liquid Type: Grab

Status: Normal NTS COC No: 39904 Sampled: 3/9/2004 0: Completed: 03/25/2004 02:00 PM

Notes:

Location: Descript: Study: Cllent:

DRO extraction date: 03/15/04
p DRO sample pH 7
* Heavy hydrocarbon compounds detected outside the DRO window.

Analyte	Analysis Date	Result	Units	RL	Method
DRO	3/15/2004	p * 0.22	mg/L	0.1	WI Method
GRO	3/17/2004	< 0.1	mg/L	0.1	WI Method
Benzene	3/17/2004	<2	ug/L	2	SW846 8021
Ethyl Benzene	3/17/2004	<1.4	ug/L	1.4	SW846 8021
Methyl tert-butyl ether	3/19/2004	<2.3	ug/L	2.3	SW846 8021
Toluene	3/17/2004	<2	ug/L	2	SW846 8021
Total Xylenes	3/17/2004	<4	ug/L	4	SW846 8021

Approved By:

Project Manager:

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Friday, March 26, 2004

NTS Laboratory Data Base System

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Project #: 5527

MDH Laboratory # 027-137-157

Sampler: Client
Status: Normal
NTS COC No: 39904
Sampled: 3/9/2004
Completed: 03/25/2004 Matrix: Liquid Type: Grab

02:30 PM

Notes:

Location:

Client: Study: Descript:

WCEC-Morris Consultant WCEC, Morris #92-405-30 MW2-405-H20-15

Sample ID:

DRO extraction date: 03/15/04 p DRO sample pH 7

Analyte	Analysis Date	Result	Units	몬	Method
Oau	3/16/2004	p 12	mg/L	1	WI Method
DIVO		-			WIT Made d
GRO	3/19/2004	2.1	mg/L	0.2	WI Method
	7/10/2017	OVC	IIo/I	4	SW846 8021
Denzene	UI LUI BOO .	1:0	,		20001
Ethyl Renzene	3/19/2004	4.4	ug/L	2.8	SW846 8021
Diny a Denizone			7		CM/0// 0001
Methyl tert-butyl ether	3/19/2004	<4.6	ug/L	4.6	SW846 8021
	2/10/2004	٠	1/2011	4	SW846 8021
Toluene	3/19/2004	e l	ng) r		
T-4-1 V-domos	3/19/2004	40	ug/L	8	SW846 8021

Approved By:

Project Manager:

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Friday, March 26, 2004

NTS Laboratory Data Base System

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MDH Laboratory # 027-137-157

Sample ID: S04071161B | Project#: | 5527 Sampler: Client
Status: Normal
NTS COC No: 39904
Sampled: 3/9/2004 03
Completed: 03/25/2004

Descript: WCEC-Morris Consultant WCEC, Morris #92-405-30 MW2B-405-H20-15

02:30 PM

Matrix: Liquid Type: Grab

Study:

Location:

Notes:

DRO extraction date: 03/15/04 p DRO sample pH 7

Anglyto	Analysis Date	Result	Units	몬	Method
Citalyto					TTT 1 1
DRO	3/16/2004	p 16	mg/L	_	WI Method
GRO	3/19/2004	2.2	mg/L	0.2	WI Method
Parsons	3/19/2004	240	ug/L	4	SW846 8021
Dentence					C1170 47 9001
Ethyl Benzene	3/19/2004	4.6	ug/L	2.8	SW846 8021
Mother tout hutel other	3/19/2004	<4.6	ll/gu	4.6	SW846 8021
INTERINATION COMENT COME.	0		,		CIVID 47 0001
Toluene	3/19/2004	4.8	ug/L	4	SW846 8021
Total Xvienes	3/19/2004	40	ug/L	∞	SW846 8021
* ()					

Approved By:

Project Manager:

Analyses were performed by methods approved by the U.S. Environmental Protection Agency and the Minnesota Department of Health.

Northeast Technical Services, Inc. makes no warranty except that the analysis has been made upon the samples received in accordance with generally accepted testing laboratory principles and practices. The results of the analysis may not be characteristic of the whole from which the sample was taken. This warranty is in lieu of all other warranties either expressed or implied.

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MDH Laboratory # 027-137-157

Client: Study: Sample ID: S040711621 Project #: 5 WCEC-Morris Consultant WCEC, Morris #92-405-30 Project #: 5527 Status: Normal NTS COC No: 39904 Sampler: Client Matrix: Liquid Type: Grab

Completed: 03/25/2004 Sampled: 3/9/2004

01:30 PM

Location: MW3-405-H20-15

Descript:

Notes:

DRO extraction date: 03/15/04

Analyte	Analysis Date	Result	Units	RL	Method
	3/15/2004	<0.1	mg/L	0.1	WI Method
Cao	3/18/2004	<0.1	mg/L	0.1	WI Method
GRO	0,10,100			·	CVV70 47 0001
Benzene	3/18/2004	<2	ug/L	2	SW846 8021
Ethyl Renzene	3/18/2004	<1.4	ug/L	1.4	SW846 8021
Emyl Denzene			77	3	1008 9V8/MS
Methyl tert-butyl ether	3/19/2004	<2.3	ug/L	2.3	SW840 8021
Toluene	3/18/2004	<2	ug/L	2	SW846 8021
T-tal V-lamas	3/18/2004	<4	ug/L	4	SW846 8021

Approved By:

Project Manager:

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MDH Laboratory # 027-137-157

Notes: Client: Study: GRO Location: Descript: Sample ID: WCEC-Morris Consultant WCEC, Morris #92-405-30 Trip Blank Analyte S04071162A Project #: 5527 Analysis Date 3/18/2004 Result Status: Normal NTS COC No: 39904 <u>^0.1</u> Sampled: 3/9/2004 Completed: 03/25/2004 Sampler: Client mg/L Units 0.1 꼰 Matrix: Liquid Type: Grab WI Method Method

Toluene Total Xylenes Methyl tert-butyl ether

3/18/2004 3/19/2004

<1.4 <2.3

ug/L

2

ug/L

SW846 8021 SW846 8021 3/18/2004

5

ug/L

2

SW846 8021 SW846 8021 SW846 8021

ug/L

ug/L

2.3

3/18/2004 3/18/2004

۸4

Benzene Ethyl Benzene

Approved By:

Project Manager:

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Sample

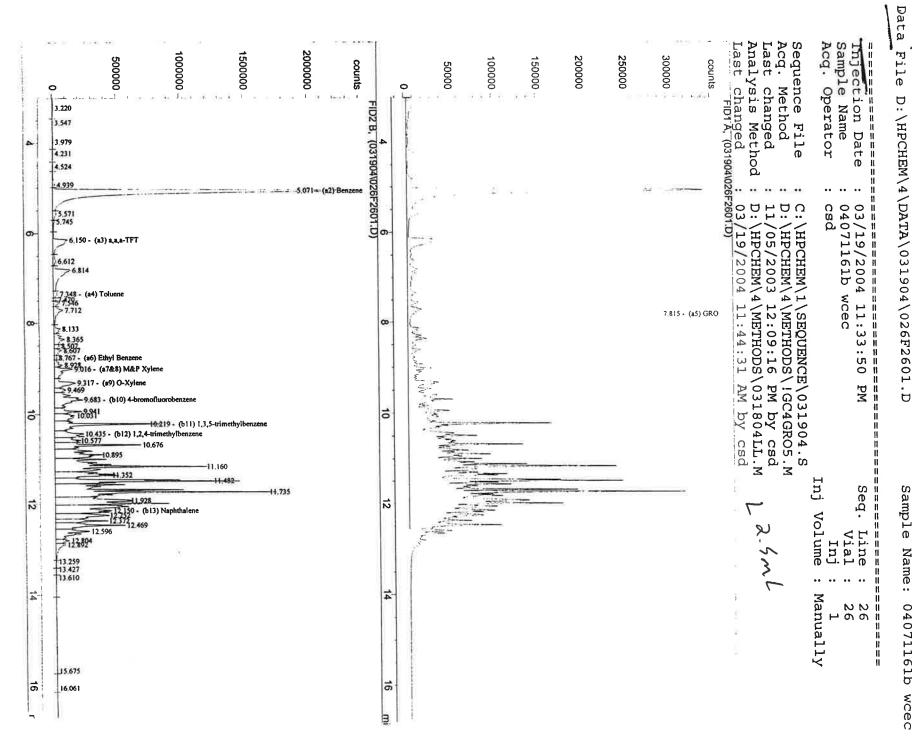
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