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TIME OIL CO.

2737 WEST COMMODORE WAY
P.O. BOX 24447

SEATTLE, WA 98199-1233
SEATTLE, WA 98124-0447

PHONE (206) 285-2400
FAX (206) 283-8036

4069/5488

March 22, 1999

RECEIVED

MAR 23 1999

DEPT OF ECOLOGY

Mr. John Bales
Washington State Department of Ecology
Northwest Region
3190 160th SE
Bellevue, Washington 98008-5452

RE: Submittal of "Groundwater Status Report (January 15, 1999)" for
Jackpot Food Mart, 10315 Highway 532 (26923 - 104th Drive NE), Stanwood, Washington
Time Oil Co. Property No. 01-162, Site ID No. 4069

Dear Mr. Bales,

During a facility upgrade at the above-referenced site, hydrocarbon-impacted soils and groundwater were discovered in the vicinity of the underground storage tanks. Because field observations indicated the need for additional investigation, a soil and groundwater screening survey was implemented in May 1996. Based on the results of the screening survey, a site assessment was initiated in June 1996 to determine the extent of impacts. Groundwater monitoring has been implemented to further evaluate hydrocarbon-impacts at the subject site.

Enclosed you will find a copy of AGRA Earth and Environmental's (AGRA) "Groundwater Status Report (January 15, 1999) dated March 5, 1999. This report presents analytical results and field observations collected during groundwater sampling activities at the subject site in January 1999. For your convenience, a summary of previous site activities is attached.

Groundwater Monitoring: January 1999

On January 15, 1999, samples were collected from each of the groundwater monitoring and observation wells with the exception of OW-2 (MW-1 through MW-9, and OW-1) at the subject site by a representative of AGRA. OW-2 could not be sampled, as swelling of the ORC socks prevented their removal from the well. AGRA estimates that the swelling of the ORC will decrease sufficiently in cooler weather to permit their removal. Prior to purging, the depth to water in each well was measured to evaluate elevation, flow direction, and gradient. As noted in the attached report, groundwater was encountered in the wells at depths of 1.62 feet to 2.58 feet below ground surface (bgs). Based on these measurements, flow direction was determined to be to the west-southwest with a gradient of 0.013 ft./ft. Groundwater elevation contours are illustrated on Figure 2 of the attached report, and Table 1 summarizes contains historic groundwater levels.

From July 10, 1998 (when groundwater levels were last measured), to January 15, 1999, groundwater elevation decreased by 0.09 feet in MW-9 while it increased in the remainder of the wells by 0.32 feet to 2.02 feet. These changes resulted in an overall average groundwater elevation increase of 0.88 feet across the site. Changes in groundwater elevation are most likely due to seasonal variation. Groundwater flow direction and gradient remained consistent with previously collected data.

Analyses identified concentrations of hydrocarbons exceeding MTCA Method A cleanup levels in the groundwater samples collected from MW-2 (15.6 ppb benzene), MW-3 (529 ppb gasoline, 22.9 ppb benzene,

1.64 ppb toluene, 1.05 ppb ethylbenzene, and 13.8 ppb xylenes), MW-4 (697 ppb gasoline, 67 ppb benzene, 3.03 ppb toluene, 6.97 ppb ethylbenzene, and 126 ppb xylenes), and OW-1 (4,360 ppb gasoline, 5.610 ppb benzene, 78.3 ppb toluene, 103 ppb ethylbenzene, 667 ppb xylenes). Residual concentrations of hydrocarbons were identified in the samples collected from MW-1 (4.93 ppb benzene), MW-5 (172 ppb gasoline, 2.54 ppb benzene, 1.79 ppb ethylbenzene, and 12.7 ppb xylenes), and MW-7 (60 ppb gasoline and 0.58 ppb benzene). Samples collected from MW-6, MW-8, and MW-9 did not contain detectable concentrations of hydrocarbons. Table 2 in the attached report summarizes groundwater analytical data and laboratory reports are included as Appendix A.

Data indicate that soils and groundwater beneath the subject site contain concentrations of gasoline and BTEX which exceed MTCA Method A cleanup standards. Soil impacts appear to be well defined and limited to the area immediately to the east of the tank bed. The plume of impacted groundwater appears to be slightly larger than the plume of impacted soil; however, it does not appear as gasoline-impacted groundwater has migrated offsite. Since the previous sampling event, hydrocarbon concentrations have generally decreased across the site.

I hope that the information contained in this report is sufficient for your records. If you have any questions regarding this letter, or the information contained within, please contact me at (206) 286-4495.

Sincerely,
Time Oil Co.



Anastasia E. Duarte-Wilkinson
Environmental Toxicologist



4069/5488

RELEASE TO
TIME OIL
STANWOOD

DEPARTMENT OF ECOLOGY
NWRO/TCP TANKS UNIT

INTERIM CLEANUP REPORT
 SITE CHARACTERIZATION
 FINAL CLEANUP REPORT
 OTHER Monitoring
 AFFECTED MEDIA: SOIL
 OTHER GW
 INSPECTOR (INIT) JB DATE 3/29/99

AGRA Earth & Environmental, Inc.
 11335 NE 122nd Way
 Suite 100
 Kirkland, Washington
 USA 98034-6918
 Tel (425) 820-4669
 Fax (425) 821-3914

March 5, 1999
 6-92M-01394-0

Time Oil Co.
 2737 W. Commodore Way
 Seattle, Washington 98199-1233

Attention: Ms. Anne Wilkinson

RECEIVED
 MAR 23 1999
 DEPT. OF ECOLOGY

Subject: Groundwater Status Report (January 15, 1999)
 Time Oil Co. Property No. 01-162
 10315 Highway 532
 Stanwood, Washington



Dear Ms. Wilkinson:

AGRA Earth & Environmental, Inc. (AGRA) is pleased to present Time Oil Co. with the following *Groundwater Status Report*. The contents of this report include AGRA's observations of groundwater conditions, analytical results of the groundwater samples collected on January 15, 1999, and AGRA's conclusions based upon these findings.

INTRODUCTION

The site is currently branded as a Shell service station, located at 10315 Highway 532, in Stanwood, Washington (Figure 1). The site features currently include: a mini-mart/sales building, two pump islands with three dispensers per island; and three underground storage tanks (USTs) containing leaded and unleaded gasoline (Figure 2). The site was purchased by Time Oil Co. in 1970, and has been utilized as a gasoline service station since 1971. Evidence of a petroleum hydrocarbon release from the UST system was discovered during a system upgrade on the product piping in October 1994. During this upgrade approximately 30 cubic yards of petroleum impacted soil was removed to Associated Sand & Gravel of Everett, Washington for treatment and disposal. The soil was generated while performing shallow excavations (less than 3 feet) during replacement of product piping and pump islands. Groundwater was encountered at an approximate depth of 3 feet below ground surface and reportedly exhibited a moderate hydrocarbon sheen. Approximately 1,600 gallons of groundwater was pumped from the excavation areas and transported to Northwest Enviroservice of Seattle, Washington for treatment and disposal.

In May 1996, AGRA was contracted by Time Oil Co. to perform a subsurface petroleum hydrocarbon assessment at the subject site for the purpose of evaluating the site for the presence or absence of petroleum hydrocarbons and the lateral and vertical extent of their impact on the affected media (soil and groundwater). AGRA also performed limited remedial feasibility testing



including vapor extraction, air sparging, limited aquifer testing, and a bioremediation nutrient analysis. The results of the investigation indicated that the area along the east side of the existing UST tank field contains soil with petroleum hydrocarbon concentrations exceeding the Washington Model Toxics Control Act (MTCA) Method A cleanup criteria. Concentrations of petroleum hydrocarbons in groundwater which exceeded the MTCA Method A cleanup criteria were detected in monitoring wells MW-2 through MW-5 as well as in observation wells OW-1 and OW-2. The results of the limited remedial feasibility testing indicated that neither air sparging nor vapor extraction technologies appeared to be viable remedial alternatives. The feasibility testing also indicated that the wells could not sustain a 0.5 gallon per minute (gpm) flow rate which indicated the shallow water bearing unit is not a potential drinking water source (WAC 173-340-720(1)). AGRA's report entitled *Subsurface Petroleum Hydrocarbon Assessment and Remedial Investigation* (November 1996) should be referenced for more specific details with respect to the site conditions.

AGRA began a quarterly monitoring and sampling event and monthly groundwater monitoring program for the site in November 1996 until April 1997 when AGRA completed a second phase of site characterization. The purpose of the second phase of site characterization was to estimate the extent of petroleum hydrocarbon impact to both soil and groundwater. Based upon the data collected, the lateral extent of petroleum hydrocarbon impact appears to be limited to the subject site. The groundwater monitoring and sampling frequency was reduced to a semi-annual basis due to minimal risk of contaminant migration associated with the relatively slow groundwater velocities calculated for the site. The June 30, 1997 report *Additional Subsurface Petroleum Hydrocarbon Assessment* and subsequent *Groundwater Status Reports* should be consulted for more specific details.

JANUARY 15, 1999 MONITORING AND SAMPLING RESULTS

AGRA visited the subject site on January 15, 1999 to perform semiannual groundwater monitoring and sampling. The wells were allowed to equilibrate for approximately one-half hour prior to taking water level measurements to accommodate the rising water levels associated with the release of confining pressure upon opening the wells. Water levels ranged from 1.62 feet (MW-2) to 2.58 feet (MW-4) below the top of the well casings. The average depth to water was approximately 2.17 feet below the top of the well casings.

The calculated groundwater elevation data indicated a groundwater flow direction to the west/southwest at an average hydraulic gradient of 0.013 feet/foot. The water level/elevation data is summarized in Table 1. A groundwater contour map depicting the inferred direction of groundwater flow is presented as Figure 2.

Observation well OW-2 was not monitored or sampled due to the swelling of the oxygen releasing compounds (ORCs) in the well. The ORCs were unable to be removed from the well during this sampling event.



Groundwater Analytical Results

Groundwater samples were obtained from ten of the monitoring/observation wells (MW-1 through MW-9, and OW-1) following the purging of approximately 3 to 4 well casing volumes of groundwater. Approximately 63 gallons of purge water were generated during this sampling event. All purge water was transported to AGRA's Kirkland, Washington office for subsequent treatment and disposal.

The groundwater samples were collected in laboratory prepared containers and preserved accordingly. All samples were transported to North Creek Analytical, Inc. of Bothell, Washington for analytical testing of:

- Gasoline range petroleum hydrocarbons (GRPH) by Ecology Method WTPH-G; and
- Volatile aromatic hydrocarbons (benzene, toluene, ethylbenzene, and xylenes (BTEX)) by EPA Method 8021B.

Laboratory analytical data indicated that the samples collected from MW-3, MW-4, MW-5, MW-7, and OW-1 contained detectable GRPH concentrations of 529 parts per billion (ppb), 697 ppb, 172 ppb, 59.8 ppb, and 4,360 ppb respectively. The GRPH value for OW-1 exceeds the MTCA Method A cleanup level of 1,000 ppb.

Groundwater samples collected from wells MW-1 through MW-5, MW-7, and OW-1 contained detectable concentrations of one or more of the volatile aromatic hydrocarbons (BTEX). Concentrations of benzene exceeded the MTCA Method A cleanup level of 5.0 ppb in samples collected from MW-2 (15.6 ppb), MW-3 (22.9 ppb), MW-4 (67.0 ppb), and OW-1 (5,610 ppb). Total xylenes concentrations exceeded the MTCA Method A cleanup level of 20 ppb in samples collected from wells MW-4 (126 ppb) and OW-1 (667 ppb). The sample collected from OW-1 also contained concentrations of toluene (78.3 ppb) and ethylbenzene (103 ppb) exceeding the MTCA Method A cleanup levels of 40 ppb and 30 ppb respectively.

Quality control/quality assurance (QA/QC) testing performed by North Creek Analytical included surrogate recoveries, matrix spike/duplicates, and a laboratory control standard. All QA/QC data was within acceptable ranges of tolerance. AGRA submitted one duplicate sample of MW-1 (01/15/99-Q). The analytical results from this sample were also within an acceptable range of tolerance.

Groundwater analytical data is summarized in Table 2 and on Figure 2. Laboratory analytical certificates for this sampling event are presented as an attachment to this report.

CONCLUSIONS

Based upon AGRA's field observations and analytical laboratory results obtained during this monitoring and sampling event, petroleum hydrocarbon impact continues to be restricted to the confines of the subject site. The perimeter wells (MW-6, MW-7, MW-8, and MW-9) contained either



no detectable concentrations of petroleum hydrocarbons (MW-6, MW-8, and MW-9), or concentrations near the laboratory detection limits (MW-7).

Based on the historical groundwater analytical data from June 1996 to January 1999, no significant increases in petroleum hydrocarbon concentrations have been observed. The data does indicate a general decrease in petroleum concentrations for all wells which petroleum hydrocarbon concentrations have been detected.

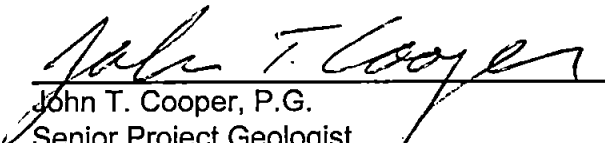
The ORCs in OW-1 were removed in July 1998; however, the ORCs in OW-2 could not be removed during either the July 1998, or January 1999 groundwater sampling events due to expansion within the well. Since the ORCs do not present a threat to the environment, and OW-2 is not a critical monitoring point, AGRA recommends the well remain undisturbed until which time the ORCs are able to be removed or the well is abandoned.

AGRA appreciates the opportunity to be of service to the Time Oil Co. If there are any additional questions or comments regarding either the contents of this report, or any other aspects of this assessment, please feel free to contact our office at your earliest convenience.

Sincerely,



Jeffrey Kaspar
Project Environmental Geologist



John T. Cooper, P.G.
Senior Project Geologist

JK/JTC/clt

Enclosures: Table 1 — Summary of Fluid Level Measurements
Table 2 — Summary of Analytical Results: Groundwater
Figure 1 — Location Map
Figure 2 — Groundwater Contour Map For July 10, 1998
Laboratory Test Certificates



Table 1:

**Summary of Fluid Level Measurements
 Time Oil Co. Property No. 01-162
 Stanwood, Washington
 AGRA Earth & Environmental, Inc. Project No. 6-92M-01394-0**

Well I.D./ Top of Casing Elevation (feet)	Date Collected	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1/ 98.46	06/28/96	2.78	95.68
	08/07/96	3.13	95.33
	11/12/96	2.48	95.98
	12/17/96	2.15	96.31
	01/21/97	1.43	97.03
	02/14/97	1.77	96.69
	03/28/97	1.87	96.59
	05/19/97	2.56	95.90
	08/20/97	3.04	95.42
	01/12/98	2.15	96.31
	07/10/98	2.72	95.74
	01/15/99	2.00	96.46
MW-2/ 98.48	06/28/96	2.58	95.90
	08/07/96	2.67	95.81
	11/12/96	3.42	95.06
	12/17/96	2.11	96.37
	01/21/97	0.92	97.56
	02/14/97	1.27	97.21
	03/28/97	1.36	97.12
	05/19/97	2.22	96.26
	08/20/97	3.47	95.01
	01/12/98	1.67	96.81
	07/10/98	3.25	95.23
	01/15/99	1.62	96.86
MW-3/ 99.43	06/28/96	3.18	96.25
	08/07/96	3.75	95.68
	11/12/96	2.83	96.60
	12/17/96	2.26	97.17
	01/21/97	1.76	97.67
	02/14/97	1.94	97.49
	03/28/97	2.01	97.42
	05/19/97	2.71	96.72
	08/20/97	5.66	93.77
	01/12/98	2.14	97.29
	07/10/98	2.88	96.55
	01/15/99	2.14	97.29

Table 1:

**Summary of Fluid Level Measurements
 Time Oil Co. Property No. 01-162
 Stanwood, Washington
 AGRA Earth & Environmental, Inc. Project No. 6-92M-01394-0**

Well I.D./ Top of Casing Elevation (feet)	Date Collected	Depth to Water (feet)	Groundwater Elevation (feet)
MW-4/ 99.64	06/28/96	3.19	96.45
	08/07/96	3.64	96.00
	11/12/96	3.31	96.33
	12/17/96	2.78	96.86
	01/21/97	2.09	97.55
	02/14/97	2.45	97.19
	03/28/97	2.54	97.10
	05/19/97	2.58	97.06
	08/20/97	3.28	96.36
	01/12/98	2.68	96.96
	07/10/98	2.93	96.71
01/15/99	2.58	97.06	
MW-5/ 98.92	06/28/96	3.93	94.99
	08/07/96	3.33	95.59
	11/12/96	3.28	95.64
	12/17/96	2.79	96.13
	01/21/97	2.01	96.91
	02/14/97	2.49	96.43
	03/28/97	2.52	96.40
	05/19/97	2.57	96.35
	08/20/97	3.12	95.80
	01/12/98	2.61	96.31
	07/10/98	2.87	96.05
01/15/99	2.44	96.48	
MW-6/ 99.03	05/19/97	2.47	96.56
	08/20/97	2.95	96.08
	01/12/98	2.07	96.96
	07/10/98	2.46	96.57
	01/15/99	2.14	96.89
MW-7/ 100.06	05/19/97	3.43	96.63
	08/20/97	4.48	95.58
	01/12/98	2.74	97.32
	07/10/98	3.57	96.49
	01/15/99	2.71	97.35

Table 1:

**Summary of Fluid Level Measurements
 Time Oil Co. Property No. 01-162
 Stanwood, Washington
 AGRA Earth & Environmental, Inc. Project No. 6-92M-01394-0**

Well I.D./ Top of Casing Elevation (feet)	Date Collected	Depth to Water (feet)	Groundwater Elevation (feet)
MW-8/ 98.43	05/19/97	1.85	96.58
	08/20/97	NM	NM
	01/12/98	1.01	97.42
	07/10/98	1.71	96.72
	01/15/99	1.80	96.63
MW-9/ 98.05	05/19/97	2.55	95.50
	08/20/97	2.73	95.32
	01/12/98	2.63	95.42
	07/10/98	2.79	95.26
	01/15/99	2.47	95.58
OW-1/ 99.20	06/28/96	3.06	96.14
	08/07/96	3.81	95.39
	11/12/96	2.94	96.26
	12/17/96	2.13	97.07
	01/21/97	1.52	97.68
	02/14/97	1.78	97.42
	03/28/97	1.87	97.33
	05/19/97	3.81	95.39
	08/20/97	NM	NM
	01/12/98	2.71	96.49
	07/10/98	4.04	95.16
	01/15/99	2.02	97.18
OW-2/ 98.94	06/28/96	2.83	96.11
	08/07/96	3.33	95.61
	11/12/96	2.63	96.31
	12/17/96	1.92	97.02
	01/21/97	1.26	97.68
	02/14/97	1.49	97.45
	03/28/97	1.62	97.32
	05/19/97	4.40	94.54
	08/20/97	NM	NM
	01/12/98	2.99	95.95
	07/10/98	NM	NM
	01/15/99	NM	NM

Table 1:**Summary of Fluid Level Measurements
Time Oil Co. Property No. 01-162
Stanwood, Washington
AGRA Earth & Environmental, Inc. Project No. 6-92M-01394-0**

SP-1/ 99.26	06/28/96	4.16	95.10
	08/07/96	4.21	95.05
	11/12/96	10.52	88.74
	12/17/96	3.01	96.25
	01/21/97	2.18	97.08
	02/14/97	2.43	96.83
	03/28/97	2.27	96.99
	05/19/97	3.08	96.18
	08/20/97	3.92	95.34
	01/12/98	2.18	97.08
	07/10/98	3.26	96.00
	01/15/99	1.92	97.34

Notes:

Casing and groundwater elevations are based upon an arbitrary datum of 100.00 feet.
NM = Not measured.

**Table 2: Summary of Analytical Results: Groundwater
Time Oil Co. Property No. 01-162
Stanwood, Washington
AGRA Earth & Environmental, Inc. Project No. 6-92M-01394-0**

Sample I.D.	Date Collected	WTPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	Total Lead (ppb)	Dissolved Lead (ppb)
MW-1	06/28/96	<50	<0.5	<0.5	<0.5	<0.5	<5	<5
	11/12/96	<50	<0.5	<0.5	<0.5	<0.5	NT	NT
	02/14/97	<50	7.45	<0.5	<0.5	<1.0	NT	NT
	05/19/97	<50	11.4	<0.5	<0.5	<1.0	NT	NT
	01/12/98	<50	5.11	<0.5	<0.5	<1.0	NT	NT
	07/10/98	<50	1.56	<0.5	<0.5	<1.0	NT	NT
	01/15/99	<50	4.93	<0.5	<0.5	<1.0	NT	NT
MW-2	06/28/96	380	170	<0.5	0.91	6.1	<5	<5
	11/12/96	<50	2.9	<0.5	<0.5	<0.5	NT	NT
	02/14/97	<50	98.5	<0.5	<0.5	<1.0	NT	NT
	05/19/97	<100	192	<1.0	1.28	9.15	NT	NT
	01/12/98	63.6	74.4	<0.5	<0.5	2.75	NT	NT
	07/10/98	<50	28.5	<0.5	<0.5	1.83	NT	NT
	01/15/99	<50	15.6	<0.5	<0.5	<1.0	NT	NT
MW-3	06/28/96	1,800	92	7.5	104	110	<5	<5
	11/12/96	1,120	69	<0.5	26	31	NT	NT
	02/14/97	776	55	3.14	15.4	35.2	NT	NT
	05/19/97	1,260	91.9	5.61	42.9	81.3	NT	NT
	01/12/98	613	35.2	2.82	2.42	20.1	NT	NT
	07/10/98	964	38.2	3.02	10.7	33.5	NT	NT
	01/15/99	529	22.9	1.64	1.05	13.8	NT	NT
MW-4	06/28/96	2,300	54	1.9	25	210	<5	<5
	11/12/96	480	9	<0.5	7.1	9.8	NT	NT
	02/14/97	839	70.3	4.01	14.4	110	NT	NT
	05/19/97	589	56.6	2.57	10.8	91.1	NT	NT
	01/12/98	655	52.4	2.73	8.94	97.5	NT	NT
	07/10/98	913	25.4	1.72	12.9	96.5	NT	NT
	01/15/99	697	67	3.03	6.97	126	NT	NT

**Table 2: Summary of Analytical Results: Groundwater
Time Oil Co. Property No. 01-162
Stanwood, Washington
AGRA Earth & Environmental, Inc. Project No. 6-92M-01394-0**

Sample I.D.	Date Collected	WTPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	Total Lead (ppb)	Dissolved Lead (ppb)
MW-5	28-Jun-96	800	210	0.89	10	62	<5	<5
	11/12/96	550	24.8	<0.5	9.7	18.6	NT	NT
	02/14/97	803	233	<2.5	13.2	76.9	NT	NT
	05/19/97	820	183	1.23	10.6	46.4	NT	NT
	01/12/98	630	166	<1.25	4.87	53.4	NT	NT
	07/10/98	537	162	<2.5	4.57	51.9	NT	NT
	01/15/99	172	2.54	<0.5	1.79	12.7	NT	NT
MW-6	05/19/97	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
	01/12/98	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
	07/10/98	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
	01/15/99	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
MW-7	05/19/97	67	<0.5	<0.5	<0.5	1.27	NT	NT
	01/12/98	92.4	<1.0	<0.5	<0.5	<1.0	NT	NT
	07/10/98	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
	01/15/99	60	0.58	<0.5	<0.5	<1.0	NT	NT
MW-8	05/19/97	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
	01/12/98	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
	07/10/98	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
	01/15/99	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
MW-9	05/19/97	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
	01/12/98	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
	07/10/98	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
	01/15/99	<50	<0.5	<0.5	<0.5	<1.0	NT	NT

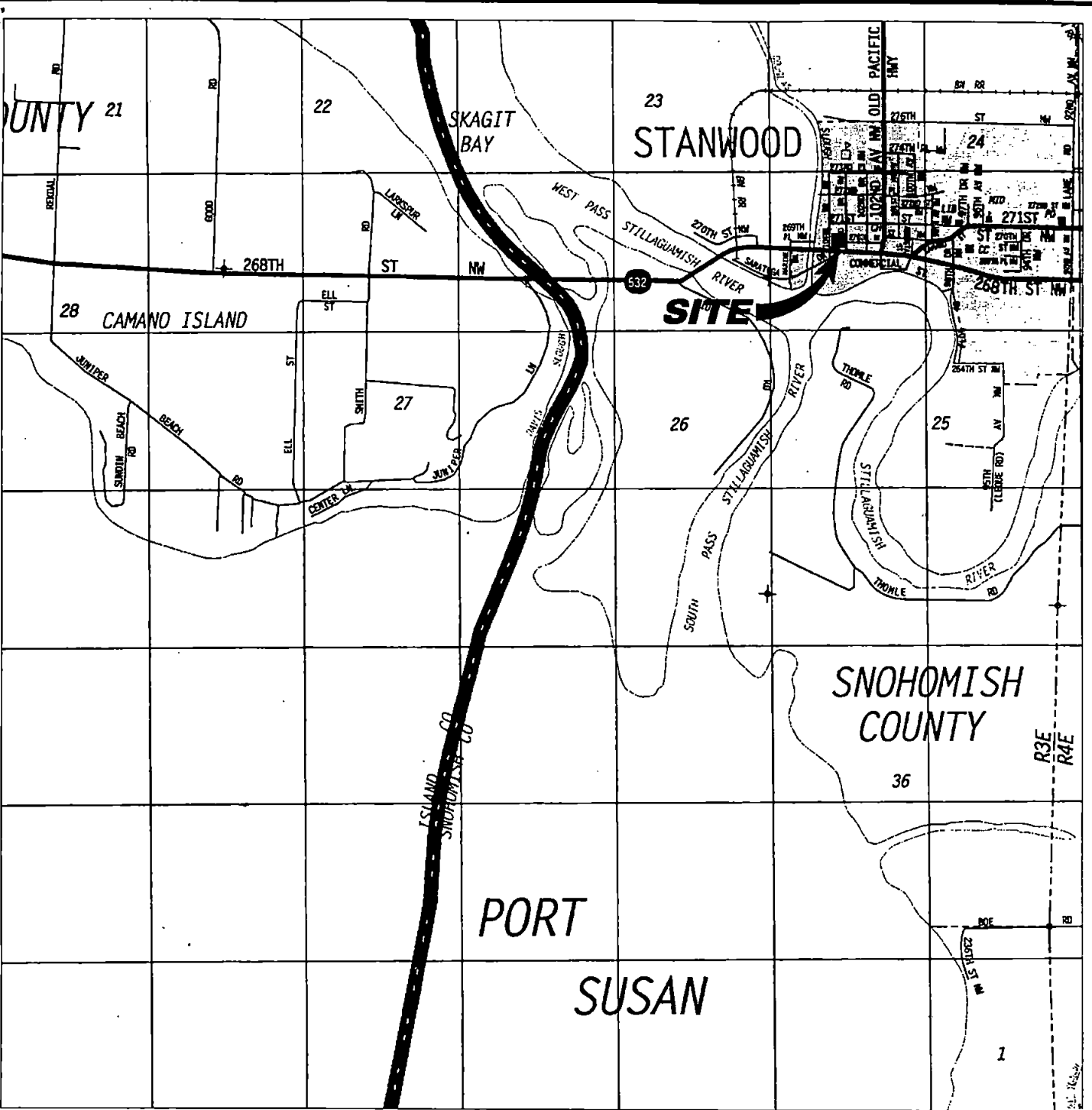
**Table 2: Summary of Analytical Results: Groundwater
Time Oil Co. Property No. 01-162
Stanwood, Washington
AGRA Earth & Environmental, Inc. Project No. 9-92M-01394-0**

Sample I.D.	Date Collected	WTPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	Total Lead (ppb)	Dissolved Lead (ppb)
OW-1	06/28/96	20,000	6,200	560	390	2,700	<5	<5
	11/12/96	21,000	5,900	480	450	3,100	NT	NT
	02/14/97	11,000	5,490	118	263	1,300	NT	NT
	05/19/97	6,240	5,990	188	163	1,240	NT	NT
	01/12/98	6,280	6,040	226	177	1,200	NT	NT
	07/10/98	7,970	4,140	236	278	1,190	NT	NT
	01/15/99	4,360	5,610	78.3	103	667	NT	NT
OW-2	06/28/96	1,600	220	40	61	240	<5	<5
	11/12/96	1,700	240	50	70	300	NT	NT
	02/14/97	4,510	754	35.3	231	680	NT	NT
	05/19/97	3,640	697	70.7	164	668	NT	NT
	01/12/98	4,650	742	70.6	212	887	NT	NT
	07/10/98	NT	NT	NT	NT	NT	NT	NT
	01/15/99	NT	NT	NT	NT	NT	NT	NT
TRIP BLANK	07/10/98	<50	<0.5	<0.5	<0.5	<1.0	NT	NT
MTCA Method "A" Cleanup Level		1,000	5	40	30	20	5	5

Notes:

WTPH-G = Total petroleum hydrocarbons, gasoline range (C7-C12), by Washington State Method WTPH-G.
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX), by EPA Method 602.
Total and Dissolved Lead by EPA Method 6010.
NT = Sample was not tested for this specific compound.
MTCA = Washington State, Model Toxics Control Act, Method "A" Cleanup Guidelines.
2,700 = indicated concentration is above stated MTCA Method "A" cleanup level.
All concentrations are expressed in parts per billion (ppb) (ug/L).

JOB NO.: 9-92M-01394-0-08 | DWG DATE: 02-08-99 | SCALE: N.T.S. | DESIGN BY: JK | FILE NAME: LOCATION.DWG



N.T.S.

AGRA
 ENGINEERING GLOBAL SOLUTIONS
 11335 N.E. 122nd Way, Suite 100
 Kirkland, WA, U.S.A. 98034-6918

LOCATION MAP

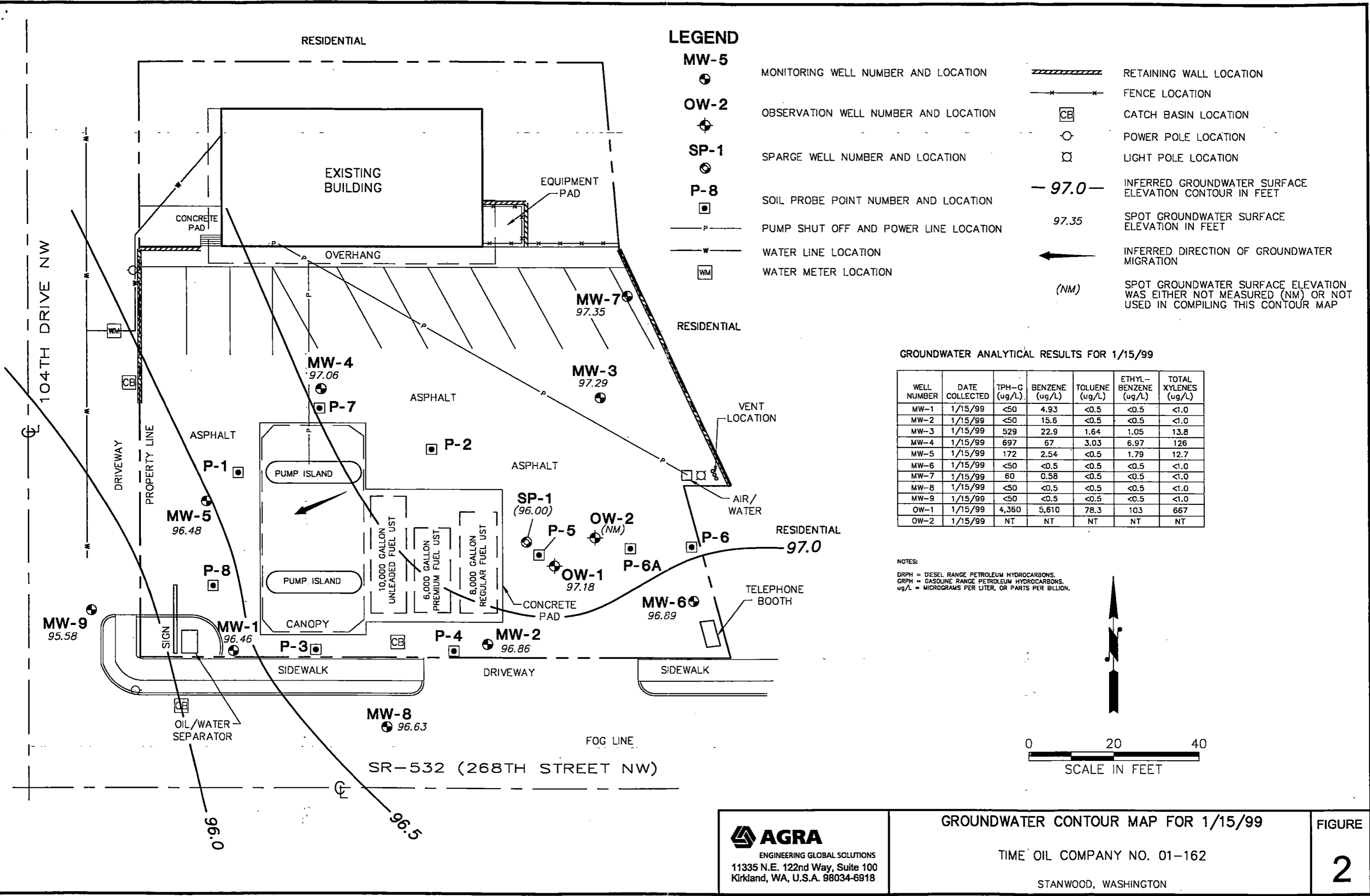
TIME OIL COMPANY NO. 01-162

STANWOOD, WASHINGTON

FIGURE

1

JOB NO.: 9-92M-01394-0-08 | DWG DATE: 02-08-99 | SCALE: 1"=20' | DESIGN BY: JK | FILE NAME: GW9901.DWG



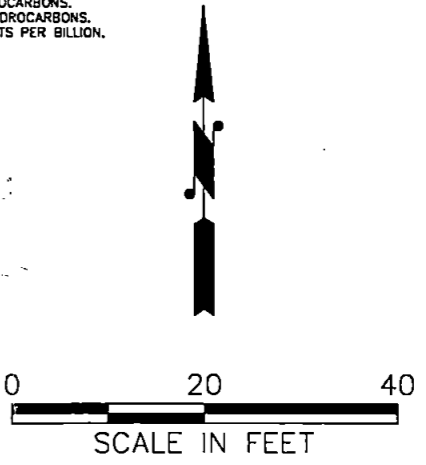
LEGEND

- MW-5 MONITORING WELL NUMBER AND LOCATION
- OW-2 OBSERVATION WELL NUMBER AND LOCATION
- SP-1 SPARGE WELL NUMBER AND LOCATION
- P-8 SOIL PROBE POINT NUMBER AND LOCATION
- PUMP SHUT OFF AND POWER LINE LOCATION
- WATER LINE LOCATION
- WATER METER LOCATION
- RETAINING WALL LOCATION
- FENCE LOCATION
- CATCH BASIN LOCATION
- POWER POLE LOCATION
- LIGHT POLE LOCATION
- 97.0 INFERRED GROUNDWATER SURFACE ELEVATION CONTOUR IN FEET
- 97.35 SPOT GROUNDWATER SURFACE ELEVATION IN FEET
- INFERRED DIRECTION OF GROUNDWATER MIGRATION
- (NM) SPOT GROUNDWATER SURFACE ELEVATION WAS EITHER NOT MEASURED (NM) OR NOT USED IN COMPILING THIS CONTOUR MAP

GROUNDWATER ANALYTICAL RESULTS FOR 1/15/99

WELL NUMBER	DATE COLLECTED	TPH-G (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL-BENZENE (ug/L)	TOTAL XYLENES (ug/L)
MW-1	1/15/99	<50	4.93	<0.5	<0.5	<1.0
MW-2	1/15/99	<50	15.6	<0.5	<0.5	<1.0
MW-3	1/15/99	529	22.9	1.64	1.05	13.8
MW-4	1/15/99	697	67	3.03	6.97	126
MW-5	1/15/99	172	2.54	<0.5	1.79	12.7
MW-6	1/15/99	<50	<0.5	<0.5	<0.5	<1.0
MW-7	1/15/99	60	0.58	<0.5	<0.5	<1.0
MW-8	1/15/99	<50	<0.5	<0.5	<0.5	<1.0
MW-9	1/15/99	<50	<0.5	<0.5	<0.5	<1.0
OW-1	1/15/99	4,360	5,610	78.3	103	667
OW-2	1/15/99	NT	NT	NT	NT	NT

NOTES:
 DRPH = DIESEL RANGE PETROLEUM HYDROCARBONS.
 GRPH = GASOLINE RANGE PETROLEUM HYDROCARBONS.
 ug/L = MICROGRAMS PER LITER, OR PARTS PER BILLION.



<p>AGRA ENGINEERING GLOBAL SOLUTIONS 11335 N.E. 122nd Way, Suite 100 Kirkland, WA, U.S.A. 98034-6918</p>	<p>GROUNDWATER CONTOUR MAP FOR 1/15/99</p>	<p>FIGURE</p>
	<p>TIME OIL COMPANY NO. 01-162</p>	<p>2</p>
	<p>STANWOOD, WASHINGTON</p>	

LABORATORY ANALYTICAL CERTIFICATES



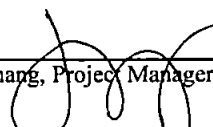


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Agra Earth and Environmental - Seattle 11335 NE 122nd Way, Ste 100 Kirkland, WA 98034	Project: Time Oil Co. 01-162 Project Number: 691M 01394 Project Manager: Jeff Kaspar	Sampled: 1/15/99 Received: 1/15/99 Reported: 1/26/99 11:38
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ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	B901242-01	Water	1/15/99
MW-2	B901242-02	Water	1/15/99
MW-3	B901242-03	Water	1/15/99
MW-4	B901242-04	Water	1/15/99
MW-5	B901242-05	Water	1/15/99
MW-6	B901242-06	Water	1/15/99
MW-7	B901242-07	Water	1/15/99
MW-8	B901242-08	Water	1/15/99
MW-9	B901242-09	Water	1/15/99
OW-1	B901242-10	Water	1/15/99
11599-Q	B901242-11	Water	1/15/99


 Joy B Chang, Project Manager



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**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1				B901242-01			Water	
Gasoline Range Hydrocarbons	0190386	1/18/99	1/18/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	4.93	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		92.1	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		102	"	
MW-2				B901242-02			Water	
Gasoline Range Hydrocarbons	0190386	1/18/99	1/18/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	15.6	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		96.9	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		101	"	
MW-3				B901242-03			Water	
Gasoline Range Hydrocarbons	0190386	1/18/99	1/18/99		50.0	529	ug/l	
Benzene	"	"	"		0.500	22.9	"	
Toluene	"	"	"		0.500	1.64	"	
Ethylbenzene	"	"	"		0.500	1.05	"	
Xylenes (total)	"	"	"		1.00	13.8	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		122	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		106	"	
MW-4				B901242-04			Water	
Gasoline Range Hydrocarbons	0190386	1/18/99	1/18/99		50.0	697	ug/l	
Benzene	"	"	"		0.500	67.0	"	
Toluene	"	"	"		0.500	3.03	"	
Ethylbenzene	"	"	"		0.500	6.97	"	
Xylenes (total)	"	"	"		1.00	126	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		121	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		109	"	
MW-5				B901242-05			Water	
Gasoline Range Hydrocarbons	0190386	1/18/99	1/18/99		50.0	172	ug/l	
Benzene	"	"	"		0.500	2.54	"	

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.

Joy B Chang, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



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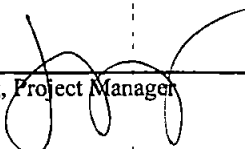
Agra Earth and Environmental - Seattle 11335 NE 122nd Way, Ste 100 Kirkland, WA 98034	Project: Time Oil Co. 01-162 Project Number: 691M 01394 Project Manager: Jeff Kaspar	Sampled: 1/15/99 Received: 1/15/99 Reported: 1/26/99 11:38
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**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-5 (continued)				B901242-05			Water	
Toluene	0190386	1/18/99	1/18/99		0.500	ND	ug/l	
Ethylbenzene	"	"	"		0.500	1.79	"	
Xylenes (total)	"	"	"		1.00	12.7	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		105	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		107	"	
MW-6				B901242-06			Water	
Gasoline Range Hydrocarbons	0190386	1/18/99	1/18/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		95.0	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		97.3	"	
MW-7				B901242-07			Water	
Gasoline Range Hydrocarbons	0190386	1/18/99	1/18/99		50.0	59.8	ug/l	
Benzene	"	"	"		0.500	0.580	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		100	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		103	"	
MW-8				B901242-08			Water	
Gasoline Range Hydrocarbons	0190386	1/18/99	1/18/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		95.8	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		99.4	"	
MW-9				B901242-09			Water	
Gasoline Range Hydrocarbons	0190386	1/18/99	1/18/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	

North Creek Analytical - Bothell

*Refer to end of report for text of notes and definitions.


 Joy B Chang, Project Manager

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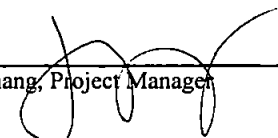
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Agra Earth and Environmental - Seattle 11335 NE 122nd Way, Ste 100 Kirkland, WA 98034	Project: Time Oil Co. 01-162 Project Number: 691M 01394 Project Manager: Jeff Kaspar	Sampled: 1/15/99 Received: 1/15/99 Reported: 1/26/99 11:38
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**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-9 (continued)				B901242-09			Water	
Xylenes (total)	0190386	1/18/99	1/18/99		1.00	ND	ug/l	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		94.0	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		96.0	"	
OW-1				B901242-10			Water	
Gasoline Range Hydrocarbons	0190386	1/18/99	1/18/99		250	4360	ug/l	
Benzene	"	"	"		50.0	5610	"	
Toluene	"	"	"		2.50	78.3	"	
Ethylbenzene	"	"	"		2.50	103	"	
Xylenes (total)	"	"	"		5.00	667	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		120	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		78.5	"	
11599-Q				B901242-11			Water	
Gasoline Range Hydrocarbons	0190386	1/18/99	1/18/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	4.54	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		94.2	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		99.8	"	

Joy B Chang, Project Manager





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**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B/Quality Control
 North Creek Analytical - Bothell**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0190386			Date Prepared: 1/18/99			Extraction Method: EPA 5030B (P/T)				
Blank			0190386-BLK1							
Gasoline Range Hydrocarbons	1/18/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	1.00				
Surrogate: 4-BFB (FID)	"	48.0		41.8	"	50.0-150	87.1			
Surrogate: 4-BFB (PID)	"	48.0		46.2	"	50.0-150	96.3			
LCS			0190386-BS1							
Gasoline Range Hydrocarbons	1/18/99	500		502	ug/l	70.0-130	100			
Surrogate: 4-BFB (FID)	"	48.0		51.8	"	50.0-150	108			
Duplicate			0190386-DUP1 B901242-03							
Gasoline Range Hydrocarbons	1/18/99		529	396	ug/l			25.0	28.8	1
Surrogate: 4-BFB (FID)	"	48.0		42.9	"	50.0-150	89.4			
Duplicate			0190386-DUP2 B901242-08							
Gasoline Range Hydrocarbons	1/18/99		ND	ND	ug/l			25.0		
Surrogate: 4-BFB (FID)	"	48.0		43.1	"	50.0-150	89.8			
Matrix Spike			0190386-MS1 B901242-06							
Benzene	1/18/99	10.0	ND	10.2	ug/l	70.0-130	102			
Toluene	"	10.0	ND	10.5	"	70.0-130	105			
Ethylbenzene	"	10.0	ND	10.5	"	70.0-130	105			
Xylenes (total)	"	30.0	ND	30.8	"	70.0-130	103			
Surrogate: 4-BFB (PID)	"	48.0		49.5	"	50.0-150	103			
Matrix Spike Dup			0190386-MSD1 B901242-06							
Benzene	1/18/99	10.0	ND	9.80	ug/l	70.0-130	98.0	15.0	4.00	
Toluene	"	10.0	ND	10.1	"	70.0-130	101	15.0	3.88	
Ethylbenzene	"	10.0	ND	10.1	"	70.0-130	101	15.0	3.88	
Xylenes (total)	"	30.0	ND	29.5	"	70.0-130	98.3	15.0	4.67	
Surrogate: 4-BFB (PID)	"	48.0		48.8	"	50.0-150	102			



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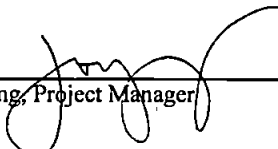
Notes and Definitions

#	Note
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- 1 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference

North Creek Analytical - Bothell

Joy B Chang, Project Manager



North Creek Analytical, Inc.
Environmental Laboratory Network

CHAIN OF CUSTODY REPORT

Work Order # B901242

REPORT TO: <u>AGRA Earth and Environmental, Inc.</u>	INVOICE TO: <u>Time Oil Co.</u>
ATTENTION: <u>Jeff Kaspar</u>	ATTENTION: <u>Anne Wilkinson</u>
ADDRESS:	ADDRESS:
PHONE: <u>(425) 820-4669</u> FAX: <u>(425) 821-3914</u>	P.O. NUMBER: NCA QUOTE #:
PROJECT NAME: <u>Time oil 01-162</u>	Analysis Request: <u>WPH-6/BTEX</u>
PROJECT NUMBER: <u>691M 01394</u>	
SAMPLED BY: <u>Jeff Kaspar</u>	

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses

10	7	5	4	3	2	1	Same Day
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Fuels & Hydrocarbon Analyses

<input checked="" type="checkbox"/>	3-4	2	1	Same Day
-------------------------------------	-----	---	---	----------

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	Analysis Request: <u>WPH-6/BTEX</u>										MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS																																																																																																																																																										
1. MW-1	<u>1/15/99 1:30</u>	<u>B901242-01</u>	X														2. MW-2		<u>02</u>	X														3. MW-3		<u>03</u>	X														4. MW-4		<u>04</u>	X														5. MW-5		<u>05</u>	X														6. MW-6		<u>06</u>	X														7. MW-7		<u>07</u>	X														8. MW-8		<u>08</u>	X														9. MW-9		<u>09</u>	X														10. OW-1	<u>1/15/99 2:30</u>	<u>10</u>	X													
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RELINQUISHED BY (Signature): <u>Jeff Kaspar</u>	DATE: <u>1/15/99</u>	RECEIVED BY (Signature): <u>Cathy Nichols</u>	DATE: <u>1/15/99</u>
PRINT NAME: <u>Jeffrey Kaspar</u>	FIRM: <u>AGRA</u>	PRINT NAME: <u>Cathy Nichols</u>	FIRM: <u>NCA</u>
RELINQUISHED BY (Signature):	DATE:	RECEIVED BY (Signature):	DATE:
PRINT NAME:	FIRM:	PRINT NAME:	FIRM:

ADDITIONAL REMARKS: 11. 11599-Q - 1/15/99 2:30 X (WPH-6/BTEX) - 11 WPH-6/BTEX 2

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