Chevron

Chevron U.S.A. Products Company
20500 Richmond Beach Drive NW
Seattle, WA 98177
Phone 206 542 9720

OCTOBER 4, 1993

RE: STAGE II VAPOR RECOVERY
SYSTEM INSTALLATION
1018 PLUM STREET
OLYMPIA, WASHINGTON

MR. THOMAS TODD
WASHINGTON DEPARTMENT OF ECOLOGY
7272 CLEANWATER LANE
MAIL STOP LU-11
OLYMPIA, WASHINGTON 98504-6811

Dear Mr. Todd,

Enclosed in an August 4, 1993, Pacific Environmental Group Inc., report describing environmental related issues associated with installation of Stage II Vapor Recovery equipment at the above referenced site.

Should you have any questions regarding this project please contact E.K. (Keith) Kringlen at (206) 546-0530.

Sincerely,

E.K. (Keith) Kringlen
Senior Project Manager

Enclosure

PACIFIC
ENVIRONMENTAL
GROUP, INC.

4516
SL
SR

August 4, 1993
Project 520-25.24

Mr. Keith Kringlen
Chevron U.S.A. Products Company
20500 Richmond Beach Dr. NW
Seattle, WA 98177

Re: Stage II Vapor Recovery System Installation
Chevron Service Station No. 9-5311
1018 Plum Street
Olympia, Washington

Dear Mr. Kringlen:

This letter presents the results of an environmental investigation conducted by Pacific Environmental Group, Inc. (PACIFIC) at Chevron U.S.A. Service Station 9-5311, located at 1018 Plum Street in Olympia, Washington (Figure 1). The purpose of this investigation was to assess and document soil quality with respect to petroleum hydrocarbons at the site during Stage II vapor recovery equipment retrofit. Services were provided by PACIFIC under Chevron Contract No. P16CNW01819X, Release No. 9462730.

The scope of work for the environmental investigation consisted of the following tasks:

- Field screening and segregation of soils stockpiled from the trenching operations using a photolonization detector (PID).
- Collecting soil samples from trench locations where PID screening concentrations exceeded background levels.
- Collect stockpile samples in accordance with Washington State Department of Ecology requirements.
- Submitting soil samples and appropriate documentation to a Chevron approved laboratory for analysis.
- Preparation of this letter report.

4020 148th Avenue N.E., Suite B, Redmond, Washington 98052 (206) 869-5099 FAX (206) 869-5639
4000 Kruse Way Place, #2-225 Lake Oswego, Oregon 97035 (503) 636-5636 FAX (503) 636-0585

Site Description

The Chevron site is situated on the northeast corner at the intersection of Plum Street and Union Avenue in the city of Olympia (Figure 1). Three 10,000-gallon underground storage tanks (USTs) are located in the eastern portion of the service station property and store regular leaded\, regular unleaded, and supreme unleaded gasoline.

Stage II Vapor Recovery Retrofit

During the week of May 24, 1993, SME Corporation (SME) performed a Stage II vapor recovery retrofit. The scope of work performed by SME included vapor recovery line-trenching, system installation, line-testing, and backfilling.

Trench Excavation

Trenches for vapor recovery lines were excavated along each pump island and extended to join the USTs in an excavation uncovering a portion of the tank complex (Figure 1). The trenching was approximately three feet wide and depths ranged from approximately two to three feet deep. Approximately 36 cubic yards of soil and pea-gravel were excavated from the trenches and tank complex and stockpiled on-site.

Excavated soils from the trenches consisted of silty gravelly sand. The fill around the USTs consisted of pea-gravel.

Soil Screening and Sampling

Following excavation of the trenches, soils in the trenches were screened for the presence of volatile organic compounds (VOCs) using a Thermo Environmental Instruments Inc. Model 580B photo-ionization detector. Soil sampling and PID field screening methodology is presented in Attachment A.

Soils with PID readings above background levels were identified at four areas within the trenches. The areas were adjacent to three of the fuel dispensers, the northernmost section of trenching, and at the fill areas of the three USTs (Figure 1). Soil sample T-1 was collected between the southernmost fuel dispensers. Samples T-2 and T-3 were collected approximately 3 feet west and 3 feet east of Sample T-1, respectively. Samples T-2 and T-3 were taken as confirmation samples to verify the lateral extent of the VOCs identified near Sample T-1. Sample T-7 was collected directly beneath the central pump island fuel dispensers. Sample T-11 was collected directly beneath the northwest pump island dispensers. Samples T-8 and T-9 were collected in the trenching adjacent to the northern pump island. Samples T-4 and T-6 were collected from the trenching south of the sales building. Samples T-10 and T-5 were collected from the

trenching north of the station building. All of the trench samples were collected from an approximate depth of 2 feet.

Approximately 36 cubic yards (CY) of soil in two stockpiles (SP1 and SP2) excavated from the Stage II trench operations were field screened with a PID. Stockpile SP2 was not sampled as it consisted solely of pea-gravel. Three samples were collected from Stockpile SP1 (SP1-A, SP1-B, and SP1-C).

The trenches were backfilled with clean imported material and surfaced with asphalt or concrete.

Analytical Parameters

Based on field PID readings and discussions with Chevron, PACIFIC submitted 11 samples (T-1, T-3, T-4, T-6 through T-9, T-11, and SP1-A through SP1-C) for analysis by a state certified laboratory. Soil samples were analyzed for the following parameters:

PARAMETER	METHOD
Total Petroleum Hydrocarbons as gasoline (TPH-gasoline)	Washington Method WTPH-G
Benzene, toluene, ethylbenzene and xylenes (BTEX compounds)	EPA Method 8020
Total Lead	EPA Method 7420

The soil samples were analyzed by Analytical Technologies, Inc. of Renton, Washington.

Soil Analytical Results

Soil sample analytical results are presented in Table 1. Laboratory methods, analytical reports, and chain-of-custody documentation are contained in Attachment B.

Conclusions

Analytical results for trench Samples T-1, T-8, T-9 and T-11 indicated that TPH-gasoline concentrations were above Washington State Model Toxics Control Act (MTCA) Method A cleanup levels.

While analytical results for trench sample T-1 indicate a xylenes concentration above the MTCA Method A cleanup level, results of BTEX analyses for all remaining trench samples (T-3, T-4, T-6 through T-9, and T-11) were below MTCA Method A cleanup levels.

The results for Samples T-3, T-4, T-6, and T-10 suggests the affected hydrocarbon soils are localized around the pump islands.

Results of lead analyses for all trench samples analyzed (T-1, T-3, T-4, T-6 through T-9, and T-11) were below MTCA Method A cleanup levels.

Stockpile samples (SP1-A through SP1-C) were below MTCA Method A cleanup levels for TPH-gasoline, BTEX and lead.

PACIFIC appreciates this opportunity to be of continuing service. If you have any questions regarding the contents of this report, please call.

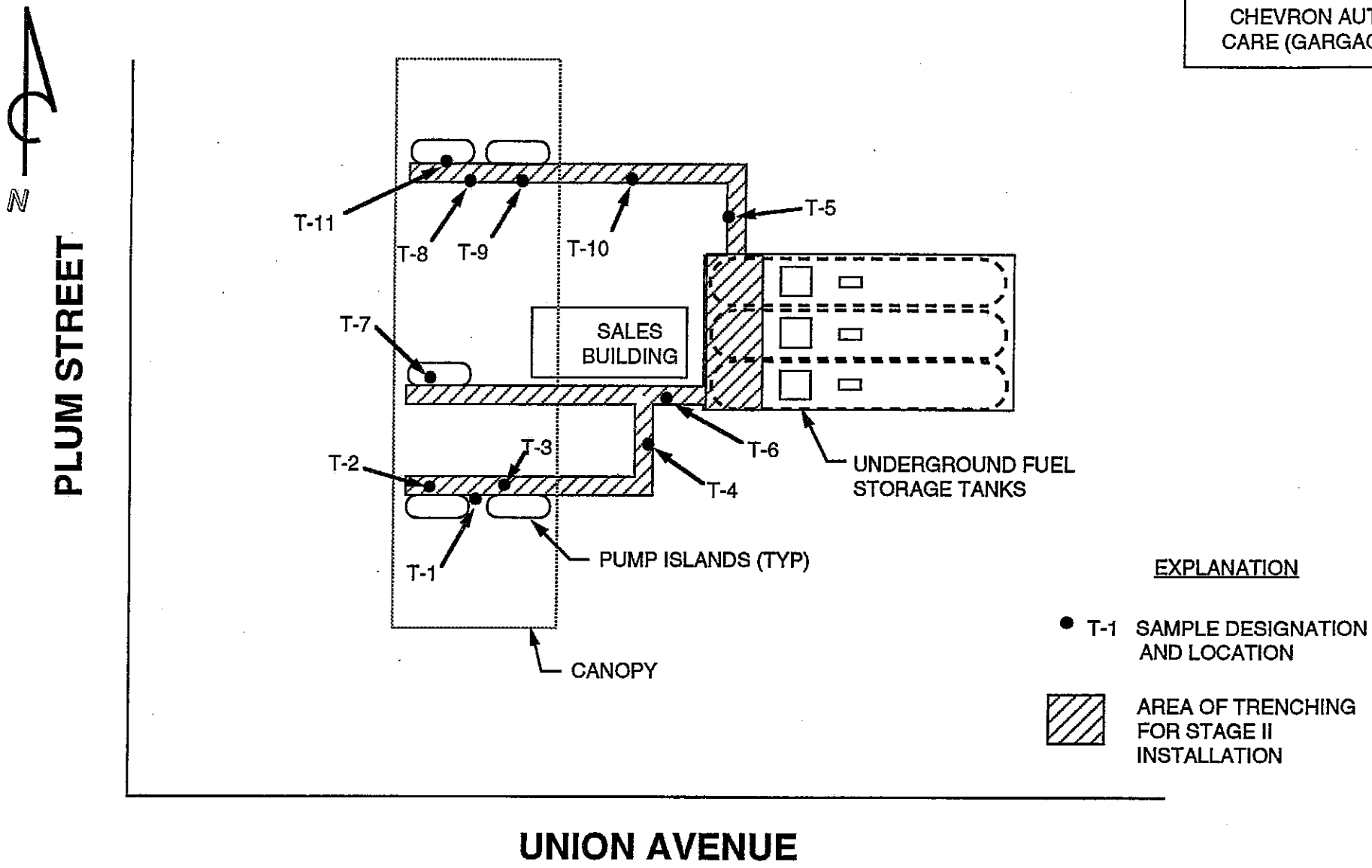
Sincerely,

Pacific Environmental Group, Inc.

Les Brewer
Staff Geologist

John Johnson
Project Manager

Attachments: Table 1
Figure 1
Attachments A and B



PACIFIC ENVIRONMENTAL GROUP, INC.

CHEVRON SERVICE STATION #9-5311
1018 Plum Street
Olympia, Washington

SITE MAP

FIGURE: 1

PROJECT: 520-25.24

TABLE 1
SOIL ANALYTICAL RESULTS
CHEVRON U.S.A. SERVICE STATION 9-5311

TPH as Gasoline - Washington Method WTPH-G
BTEX Compounds - EPA Method 8020
Total Lead - EPA Method 7420
Concentrations in mg/kg (ppm)

				PARAMETER					
Sample I.D.	Location	Date	Depth (feet)	TPH-Gasoline	Benzene	Toluene	Ethyl Benzene	Xylenes	Total Lead
T-1	Southern Pump Island Trench	5/27/93	2 feet	1,700	N.D.	N.D.	N.D.	84.0	N.D.
T-3	Southern Pump Island Trench	5/27/93	2 feet	N.D.	N.D.	N.D.	N.D.	N.D.	8.6
T-4	Trench South of Station Bldg.	5/27/93	2 feet	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
T-6	Trench South of Station Bldg.	5/27/93	2 feet	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
T-7	Central Pump Island	5/27/93	2 feet	N.D.	N.D.	0.047	N.D.	0.03	N.D.
T-8	Northern Pump Island Trench	5/27/93	2 feet	180	0.039	0.12	1.7	6.9	46.0
T-9	Northern Pump Island Trench	5/27/93	2 feet	210	N.D.	0.047	0.1	6.5	86.0
T-11	Northwest Pump Island	5/27/93	2 feet	210	0.039	0.047	0.11	5.0	60.0
SP1-A	Stockpile SP1	5/27/93	2 feet	N.D.	N.D.	N.D.	N.D.	N.D.	8.9
SP1-B	Stockpile SP1	5/27/93	2 feet	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SP1-C	Stockpile SP1	5/27/93	2 feet	N.D.	N.D.	N.D.	N.D.	N.D.	9.0
Detection Limits:		-	-	**5 - 6**	**0.25-0.28**	**0.25-0.28**	**0.25-0.28**	**0.25-0.28**	**5.0-5.7**

NOTES: N.D. - Not detected
Sample locations are shown on Figure 2.
Certified Analytical Results are attached

ATTACHMENT A

INVESTIGATIVE PROCEDURES

ATTACHMENT A

Soil Sampling Procedures

Soil samples for chemical analysis were collected by scraping aside approximately three inches of soil and then collecting a sample to place in a stainless steel liner. The liners were capped with Teflon squares and plastic end caps, labeled, and sealed in ziplock bags. Samples were placed on ice for transport to the laboratory accompanied by chain-of-custody documentation.

Organic Vapor Screening

Soil samples were screened in the field for ionizable organic compounds using a Thermo Environmental Instruments Inc. Model 580B photo-ionization detector with a 10.0 eV lamp. The test procedure involved collecting a discrete soil sample from the trenches or stockpiles, and placing it in a zip-lock bag. The bag was allowed to warm to ambient temperature for approximately twenty minutes, then the bag was pierced and the head-space within the bag was tested for total organic vapor, measured in parts per million, (ppm;volume/volume). The instrument was previously calibrated using a 100 ppm isobutylene standard (in air) and a sensitivity factor of 0.56, which relates the photo-ionization sensitivity of benzene to the sensitivity of isobutylene. The detection limit of the instrument ranges from 0.1 ppm to 2,000 ppm. It should be noted that the PID measurements are considered semi-quantitative data since the instrument detects all organic compounds with ionization potentials less than 10 electron volts (eV).

ATTACHMENT B

LABORATORY ANALYTICAL MENTHODS AND REPORTS

CHAIN-OF-CUSTODY DOCUMENTATION

ATTACHMENT B

Laboratory Analytical Methods

Analysis for TPH-gasoline was performed according to WTPH-G. Benzene, toluene, ethylbenzene, and xylenes analysis was performed in accordance with EPA Method 8020. A methanol solvent extraction was used for the TPH analysis with final detection by gas chromatography using a flame-ionization detector. A headspace or purge and trap technique was utilized for BTEX analysis. Final detection was by gas chromatography using a photoionization detector.

Samples were tested for Total Lead using modified EPA Method 7420.

Analytical Technologies, Inc.
560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
Karen L. Mixon, Laboratory Manager

ATI I.D. # 9305-292

June 16, 1993

Pacific Environmental Group
4020 148th Avenue N.E.
Suite B
Redmond WA 98052

Attention : John Johnson

Project Number : 520-25.24

Project Name : Chevron-Plum Street, Olympia

Dear Mr. Johnson:

On May 28, 1993, Analytical Technologies, Inc. (ATI), received 11 samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Please note that this report has a summary report for the fuels analyses. If you have any questions, please call.

Sincerely,

Donna M. McKinney
Senior Project Manager

DMM/hal/ff

Enclosure

Analytical Technologies, Inc.

ATI I.D. # 9305-292

SAMPLE CROSS REFERENCE SHEET

CLIENT : PACIFIC ENVIRONMENTAL GROUP
PROJECT # : 520-25.24
PROJECT NAME : CHEVRON-PLUM STREET, OLYMPIA

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9305-292-1	T-1	05/27/93	SOIL
9305-292-2	T-3	05/27/93	SOIL
9305-292-3	T-4	05/27/93	SOIL
9305-292-4	T-6	05/27/93	SOIL
9305-292-5	T-7	05/27/93	SOIL
9305-292-6	T-8	05/27/93	SOIL
9305-292-7	T-9	05/27/93	SOIL
9305-292-8	T-11	05/27/93	SOIL
9305-292-9	SP1-A	05/27/93	SOIL
9305-292-10	SP1-B	05/27/93	SOIL
9305-292-11	SP1-C	05/27/93	SOIL

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	11

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

Analytical Technologies, Inc.

ATI I.D. # 9305-292

ANALYTICAL SCHEDULE

CLIENT : PACIFIC ENVIRONMENTAL GROUP
PROJECT # : 520-25.24
PROJECT NAME : CHEVRON-PLUM STREET, OLYMPIA

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-G	R
LEAD	AA/F	EPA 7420	R
MOISTURE	GRAVIMETRIC	CLP SOW ILM01.0	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

Analytical Technologies, Inc.

ATI I.D. # 9305-292

METALS ANALYSIS

CLIENT : PACIFIC ENVIRONMENTAL GROUP MATRIX : SOIL
PROJECT # : 520-25.24
PROJECT NAME : CHEVRON-PLUM STREET, OLYMPIA

ELEMENT	DATE PREPARED	DATE ANALYZED
LEAD (SAMPLES -9 THROUGH -11)	06/01/93	06/01/93
LEAD (SAMPLES -1 THROUGH -8)	06/07/93	06/08/93

Analytical Technologies, Inc.

ATI I.D. # 9305-292

METALS ANALYSIS
DATA SUMMARY

CLIENT : PACIFIC ENVIRONMENTAL GROUP MATRIX : SOIL
PROJECT # : 520-25.24
PROJECT NAME : CHEVRON-PLUM STREET, OLYMPIA UNITS : mg/Kg
RESULTS ARE CORRECTED FOR MOISTURE CONTENT

ATI I.D. #	CLIENT I.D.	LEAD
9305-292-1	T-1	<5.4
9305-292-2	T-3	8.6
9305-292-3	T-4	<5.7
9305-292-4	T-6	<5.6
9305-292-5	T-7	<5.3
9305-292-6	T-8	46
9305-292-7	T-9	86
9305-292-8	T-11	60
9305-292-9	SP1-A	8.9
9305-292-10	SP1-B	<5.3
9305-292-11	SP1-C	9.0
METHOD BLANK	-	<5.0
METHOD BLANK	-	<5.0

Analytical Technologies, Inc.

ATI I.D. # 9305-292

METALS ANALYSIS
QUALITY CONTROL DATA

CLIENT : PACIFIC ENVIRONMENTAL GROUP MATRIX : SOIL
PROJECT # : 520-25.24
PROJECT NAME : CHEVRON-PLUM STREET, OLYMPIA UNITS : mg/Kg

ELEMENT	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
LEAD	9305-292-1	<5.4	<5.3	NC	52.7	54.9	96
LEAD	9305-292-11	9.0	6.3	35	57.1	51.0	94
LEAD	BLANK	<5.0	N/A	N/A	48.5	50.0	97
LEAD	BLANK	<5.0	N/A	N/A	46.5	50.0	93

NC = Not Calculable.

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.

ATI I.D. # 9305-292

GENERAL CHEMISTRY ANALYSIS

CLIENT : PACIFIC ENVIRONMENTAL GROUP MATRIX : SOIL
PROJECT # : 520-25.24
PROJECT NAME : CHEVRON-PLUM STREET, OLYMPIA

PARAMETER	DATE ANALYZED
MOISTURE	06/01/93

Analytical Technologies, Inc.

ATI I.D. # 9305-292

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARY

CLIENT : PACIFIC ENVIRONMENTAL GROUP MATRIX : SOIL
PROJECT # : 520-25.24
PROJECT NAME : CHEVRON-PLUM STREET, OLYMPIA UNITS : %

ATI I.D. #	CLIENT I.D.	MOISTURE
9305-292-1	T-1	5.3
9305-292-2	T-3	9.8
9305-292-3	T-4	8.6
9305-292-4	T-6	7.7
9305-292-5	T-7	3.9
9305-292-6	T-8	6.9
9305-292-7	T-9	7.2
9305-292-8	T-11	5.2
9305-292-9	SP1-A	4.4
9305-292-10	SP1-B	4.6
9305-292-11	SP1-C	5.3

Analytical Technologies, Inc.

ATI I.D. # 9305-292

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATA

CLIENT : PACIFIC ENVIRONMENTAL GROUP MATRIX : SOIL
PROJECT # : 520-25.24
PROJECT NAME : CHEVRON-PLUM STREET, OLYMPIA UNITS : %

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
MOISTURE	9305-292-3	8.6	8.9	3	N/A	N/A	N/A
MOISTURE	9305-292-11	5.3	5.1	4	N/A	N/A	N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

AnalyticalTechnologies, Inc. ATI Reference: 9305-292

Analytical Summary Report

Client: Pacific Environmental Group **Project: Chevron-Plum Street, Olympia**

Analysis: WA DOE WTPH-G - 8020(BETX) **Matrix: SOIL** **Units: mg/Kg (Dry Weight Basis)**

ATI Sample #:	0		1		2		3	4	5
Client ID:	Method Blank		T-1		T-3		T-4	T-6	T-7
Date Sampled:	05/27/93		05/27/93		05/27/93		05/27/93	05/27/93	05/27/93
Date Extracted:	05/29/93		05/29/93		05/29/93		05/29/93	05/29/93	05/29/93
Date Analyzed:	05/29/93		05/30/93		05/30/93		05/29/93	05/29/93	05/30/93
Benzene	<0.025		<0.26	D4	<0.028		<0.027	<0.027	<0.026
Ethylbenzene	<0.025		<0.26	D4	<0.028		<0.027	<0.027	<0.026
Toluene	<0.025		<0.26	D4	<0.028		<0.027	<0.027	0.047
Total Xylenes	<0.025		84	D4	<0.028		<0.027	<0.027	0.030
Gasoline (Toluene to Dodecane)	<5		1700	D4	<6		<6	<5	<5
Surrogate Recoveries (%)									
Bromofluorobenzene	84		132	FD4	90		88	77	80
Trifluorotoluene	93		100	D4	92		94	86	87

ATI Sample #:	6		7		8		9	10	11
Client ID:	T-8		T-9		T-11		SP1-A	SP1-B	SP1-C
Date Sampled:	05/27/93		05/27/93		05/27/93		05/27/93	05/27/93	05/27/93
Date Extracted:	05/29/93		05/29/93		05/29/93		05/29/93	05/29/93	05/29/93
Date Analyzed:	05/30/93		05/30/93		05/30/93		05/29/93	05/30/93	05/30/93
Benzene	0.039		<0.027		0.039		<0.026	<0.026	<0.026
Ethylbenzene	1.7		0.10		0.11		<0.026	<0.026	<0.026
Toluene	0.12		0.047		0.047		<0.026	<0.026	<0.026
Total Xylenes	6.9	D4	6.5		5.0		<0.026	<0.026	<0.026
Gasoline (Toluene to Dodecane)	180		210		210	D4	<5	<5	<5
Surrogate Recoveries (%)									
Bromofluorobenzene	93		96		102		88	83	85
Trifluorotoluene	85		89		85		90	87	90

Surrogate Limits: (BFB:52-116 TFT:50-150)
D4 Value from a ten fold diluted analysis.
F Out of limits due to matrix interference.

Analytical Technologies, Inc. ATI Reference: 9305-292

Quality Control Summary Report

Client: Pacific Environmental Group **Project: Chevron-Plum Street, Olympia**

Analysis:WA DOE WTPH-G - 8020(BETX) Matrix: SOIL Units: mg/Kg Matrix Spike/Matrix Spike Duplicate

Extracted: 05/29/93 **Analyzed: 05/30/93** **Sample ID: 9305-292-5**

Compound	Sample Result	Duplicate Result	RPD	Spike Added	Spike Result	Spike %Rec	Spike Dup. Result	Spike Dup. %Rec	RPD	Limits %Rec	Limits RPD
GASOLINE	<5.00	<5.00	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20

Quality Control Surrogate Recoveries (%)

Compound	Sample	Sample Dup.	Spike Dup.	Limits
TRIFLUOROTOLUENE	87	86	N/A	50-150

Analysis:WA DOE WTPH-G - 8020(BETX) Matrix: SOIL Units: mg/Kg Matrix Spike/Matrix Spike Duplicate

Extracted: 05/29/93 **Analyzed: 05/29/93** **Sample ID: 9305-292-3**

Compound	Sample Result	Duplicate Result	RPD	Spike Added	Spike Result	Spike %Rec	Spike Dup. Result	Spike Dup. %Rec	RPD	Limits %Rec	Limits RPD
BENZENE	<0.0250	N/A	N/A	1.00	0.864	86	0.865	87	0	35-113	20
TOLUENE	<0.0250	N/A	N/A	1.00	0.921	92	0.909	91	1	43-107	20
TOTAL XYLENES	<0.0250	N/A	N/A	2.00	1.82	91	1.76	88	3	46-114	20
GASOLINE	<5.00	<5.00	NC	50.0	46.5	93	48.4	97	4	50-112	20

Quality Control Surrogate Recoveries (%)

Compound	Sample	Spike	Spike Dup.	Limits
BROMOFLUOROBENZENE	88	80	80	52-116
TRIFLUOROTOLUENE	94	67	75	50-150

Analysis: WA DOE WTPH-G - 8020(BETX) Matrix: SOIL Units: mg/Kg Blank Spike/Blank Spike Duplicate

Extracted: 05/29/93 **Analyzed: 05/29/93** **Sample ID: Blank**

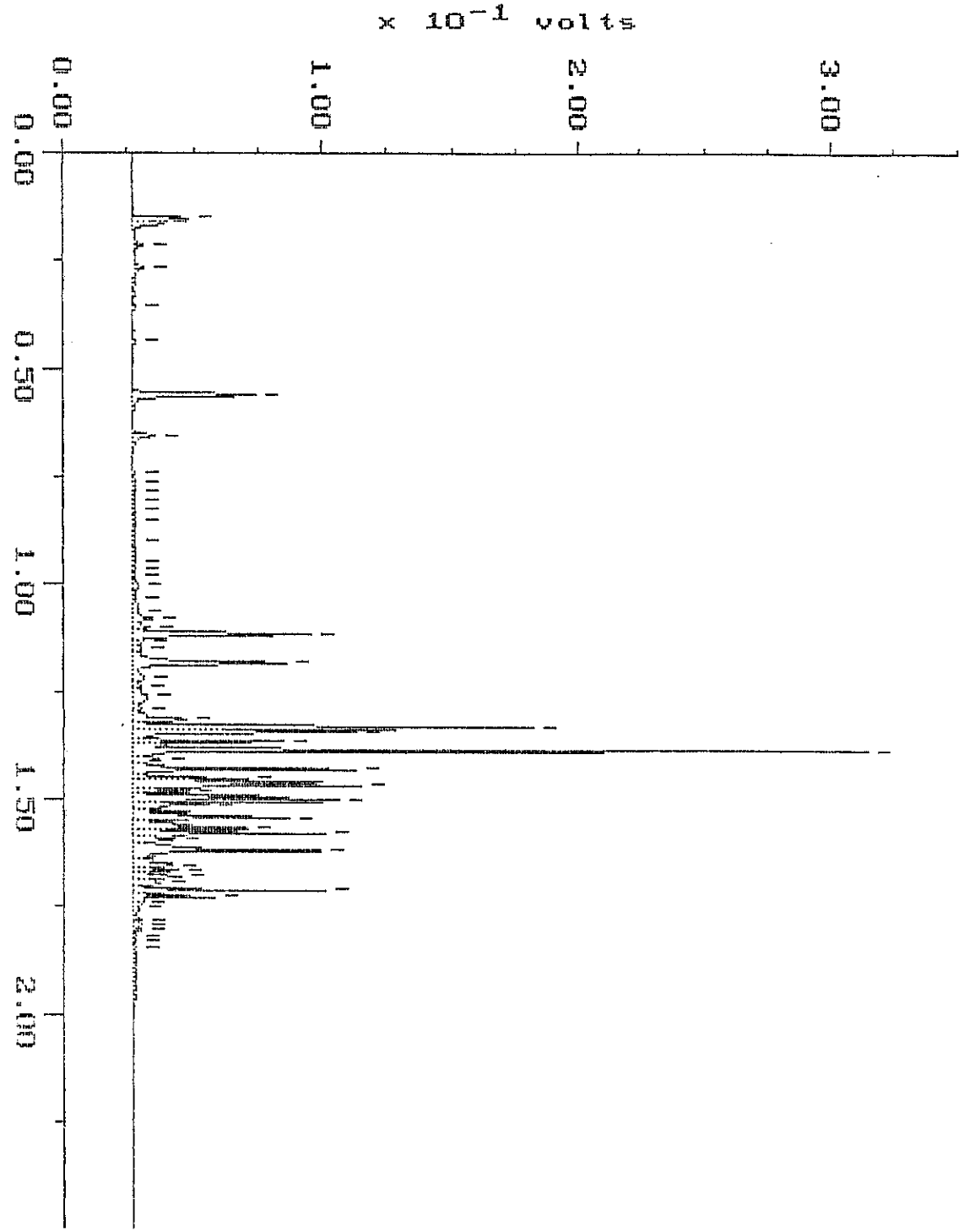
Compound	Sample Result	Duplicate Result	RPD	Spike Added	Spike Result	Spike %Rec	Spike Dup. Result	Spike Dup. %Rec	RPD	Limits %Rec	Limits RPD
BENZENE	<0.0250	N/A	N/A	1.00	0.931	93	N/A	N/A	N/A	63-115	20
TOLUENE	<0.0250	N/A	N/A	1.00	0.967	97	N/A	N/A	N/A	75-110	20
TOTAL XYLENES	<0.0250	N/A	N/A	2.00	1.87	94	N/A	N/A	N/A	79-109	20
GASOLINE	<5.00	N/A	N/A	50.0	47.0	94	N/A	N/A	N/A	80-119	20

Quality Control Surrogate Recoveries (%)

Compound	Sample	Spike	Spike Dup.	Limits
BROMOFLUOROBENZENE	84	86	N/A	52-116
TRIFLUOROTOLUENE	93	92	N/A	50-150

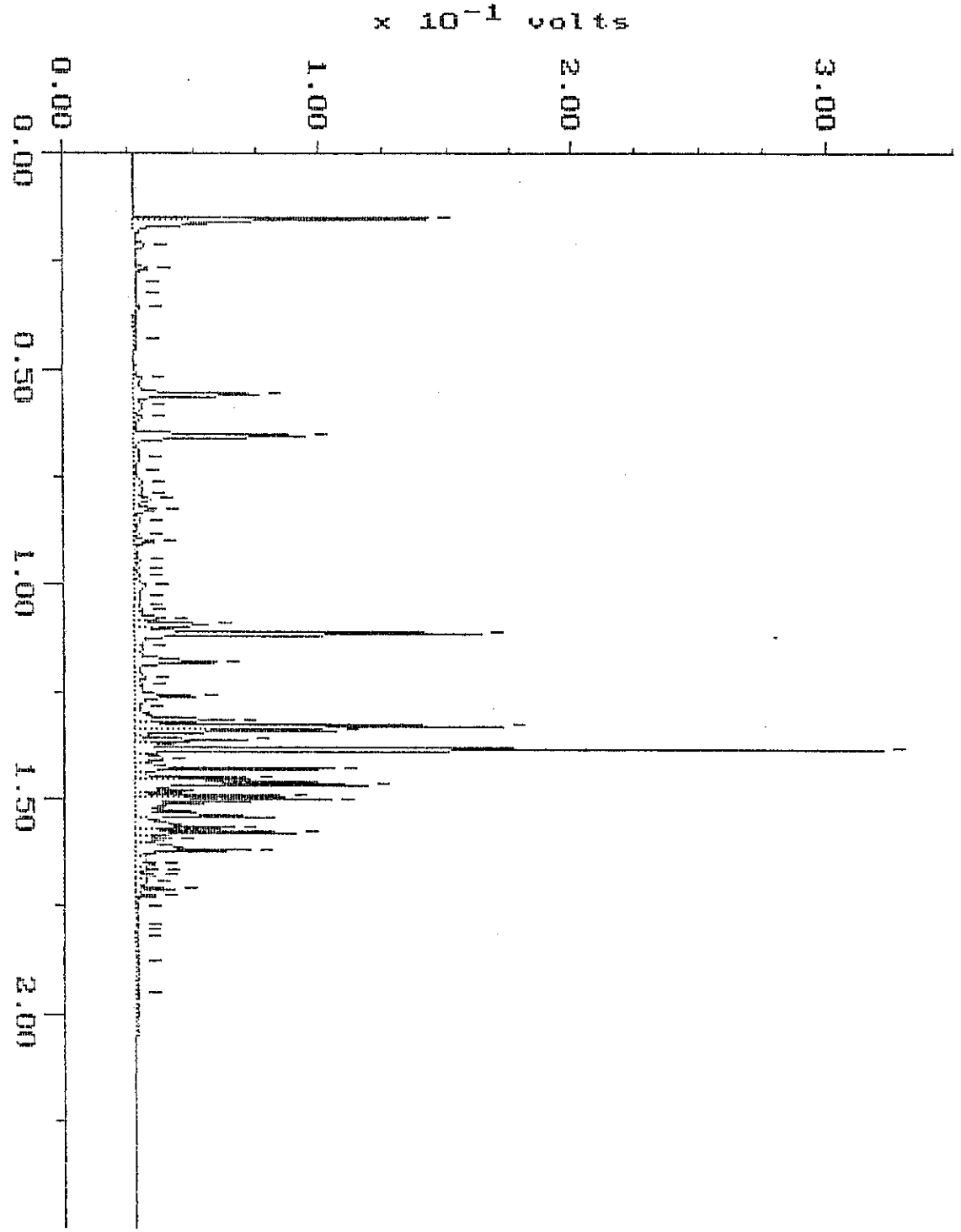
WA DOE WTPH-G

Sample: 9305-292-1 DIL Channel: FID Filename: R5309G20
Acquired: 30-MAY-93 21:53 Method: F:\BRO2\MAXDATA\GLAD\053093GS Operator: ATI
Dilution: 1 : 10.000
Comments: ATI : A COMMITMENT TO QUALITY



W^ DOE WTPH-G

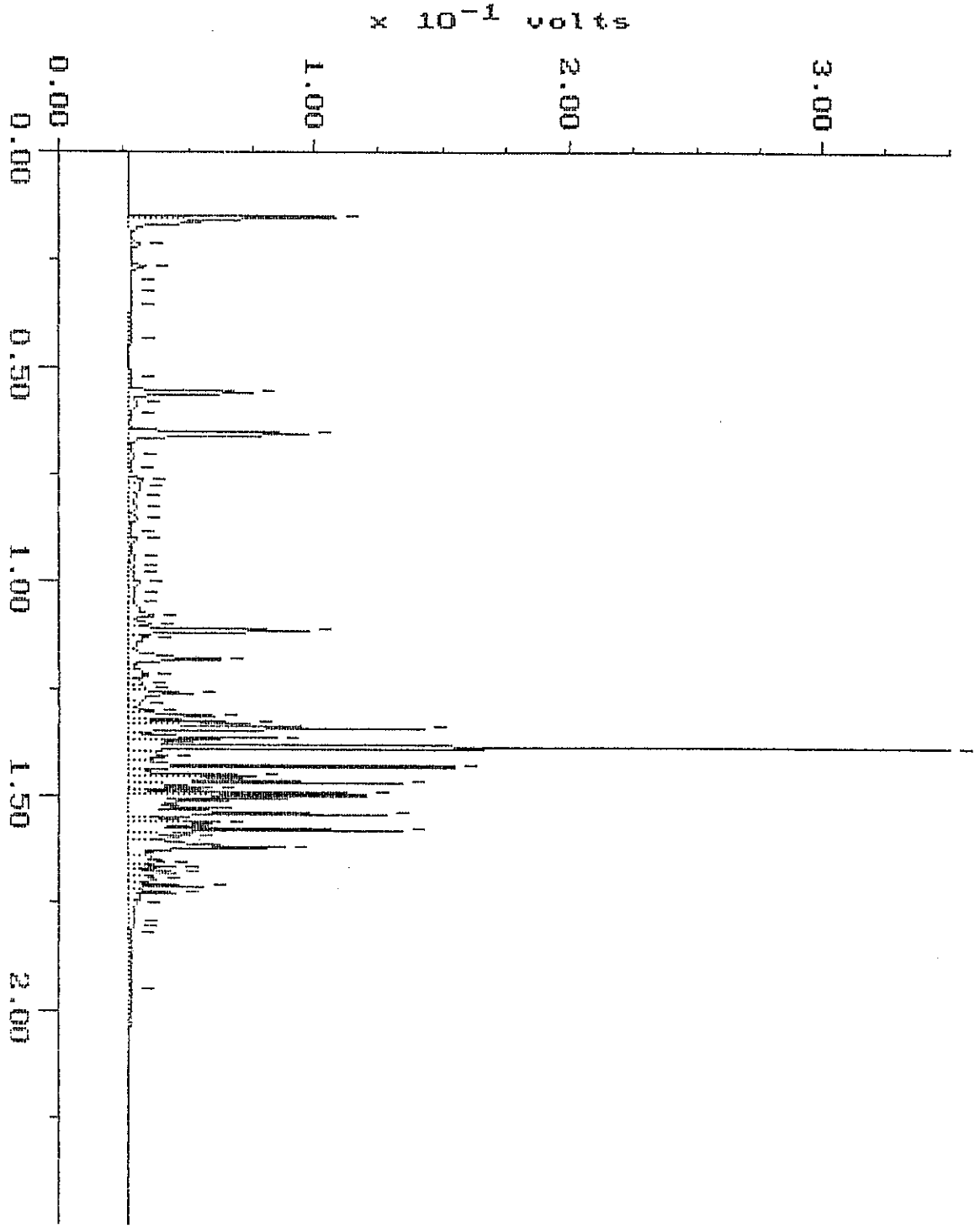
Sample: 9305-292-6 Channel: FID Filename: R5309G17
Acquired: 30-MAY-93 20:27 Method: F:\BR02\MAXDATA\GLAD\053093GS Operator: ATI
Comments: ATI : A COMMITMENT TO QUALITY



WA DOE WTPH-G

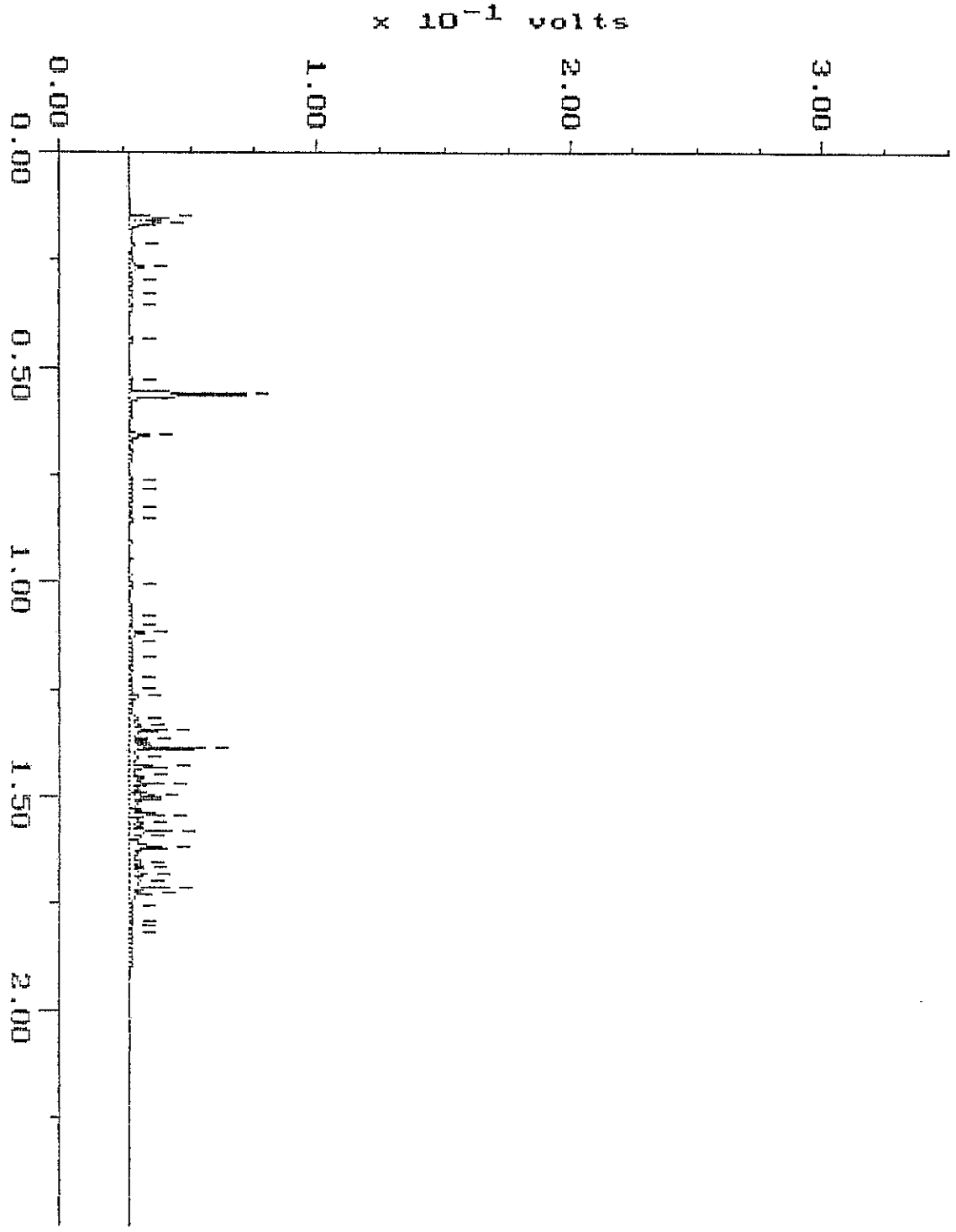
Sample: 9305-292-7 Channel: FID
Acquired: 30-MAY-93 20:55 Method: F:\BRO2\MAXDATA\GLAD\053093GS
Comments: ATI : A COMMITMENT TO QUALITY

Filename: R5309G18
Operator: ATI



WA DOE WTPH-G

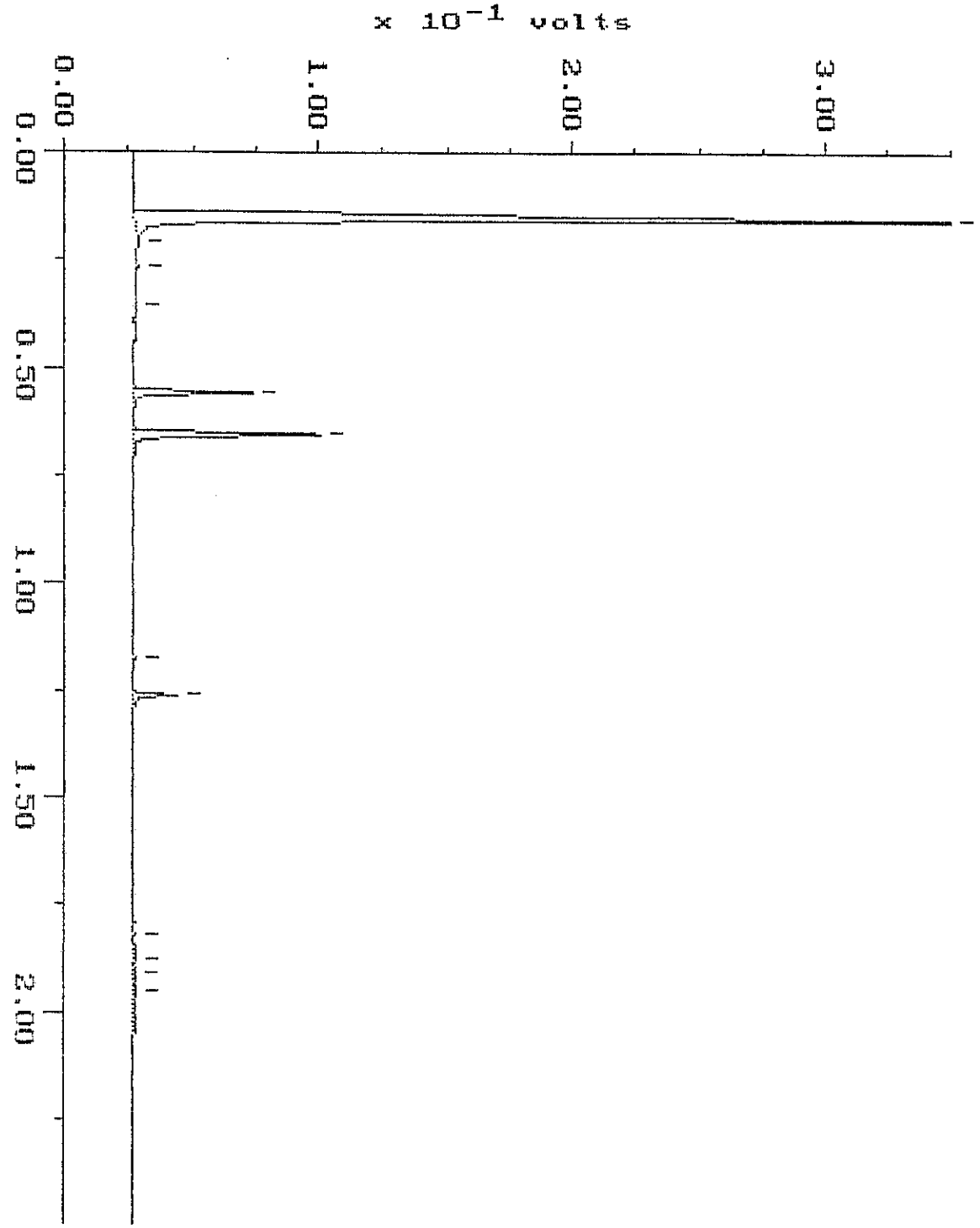
Sample: 9305-292-8 DIL Channel: FID Filename: R5299G27
Acquired: 30-MAY-93 0:13 Method: F:\BR02\MAXDATA\GLAD\052993GS Operator: ATI
Dilution: 1 : 10.000
Comments: ATI : A COMMITMENT TO QUALITY



WA DOE WTPH-G

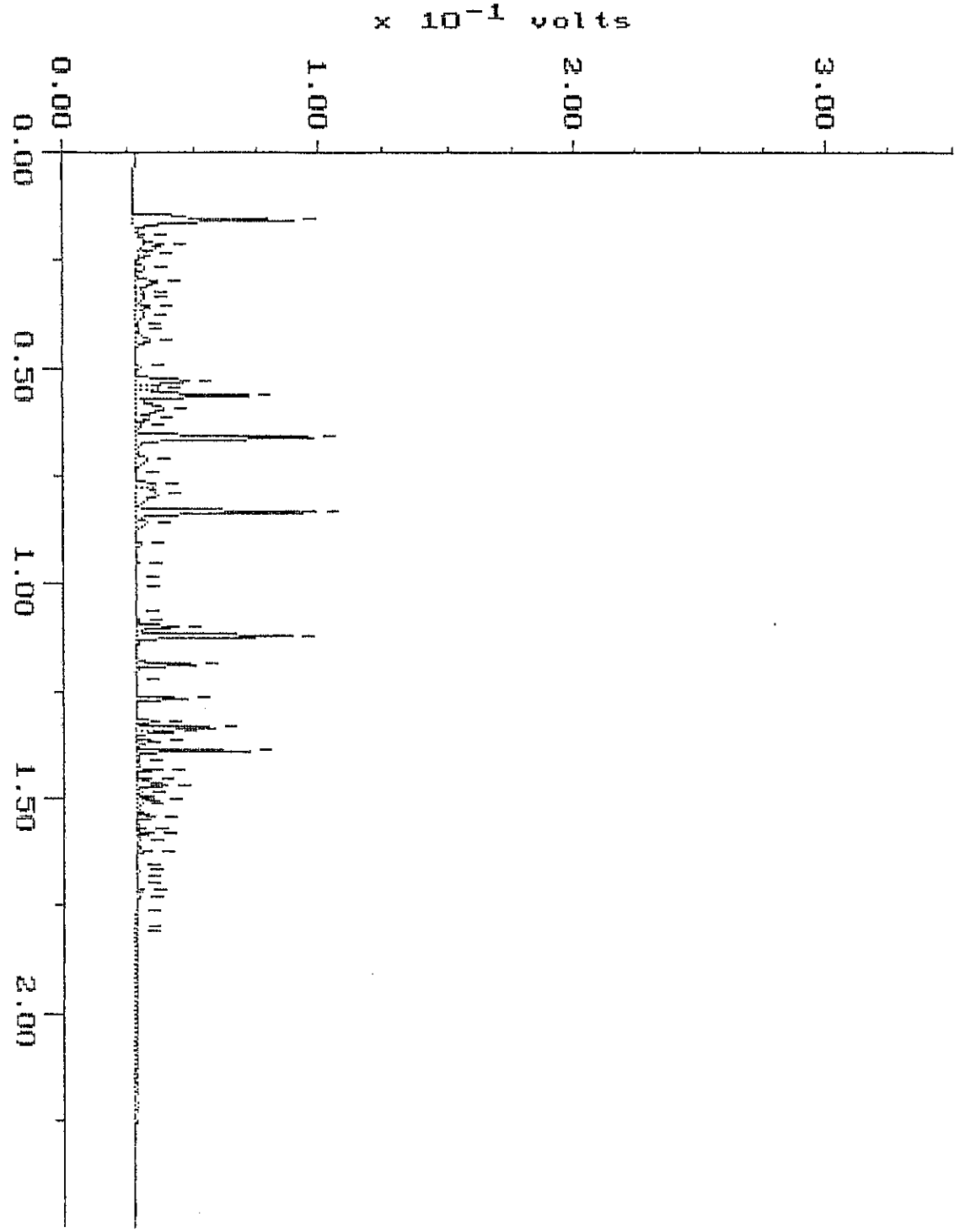
Blank

Sample: SRB-B 5-29 Channel: FID Filename: R5299606
Acquired: 29-MAY-93 13:28 Method: F:\BRO2\MAXDATA\GLAD\052993GS Operator: ATI
Comments: ATI : A COMMITMENT TO QUALITY



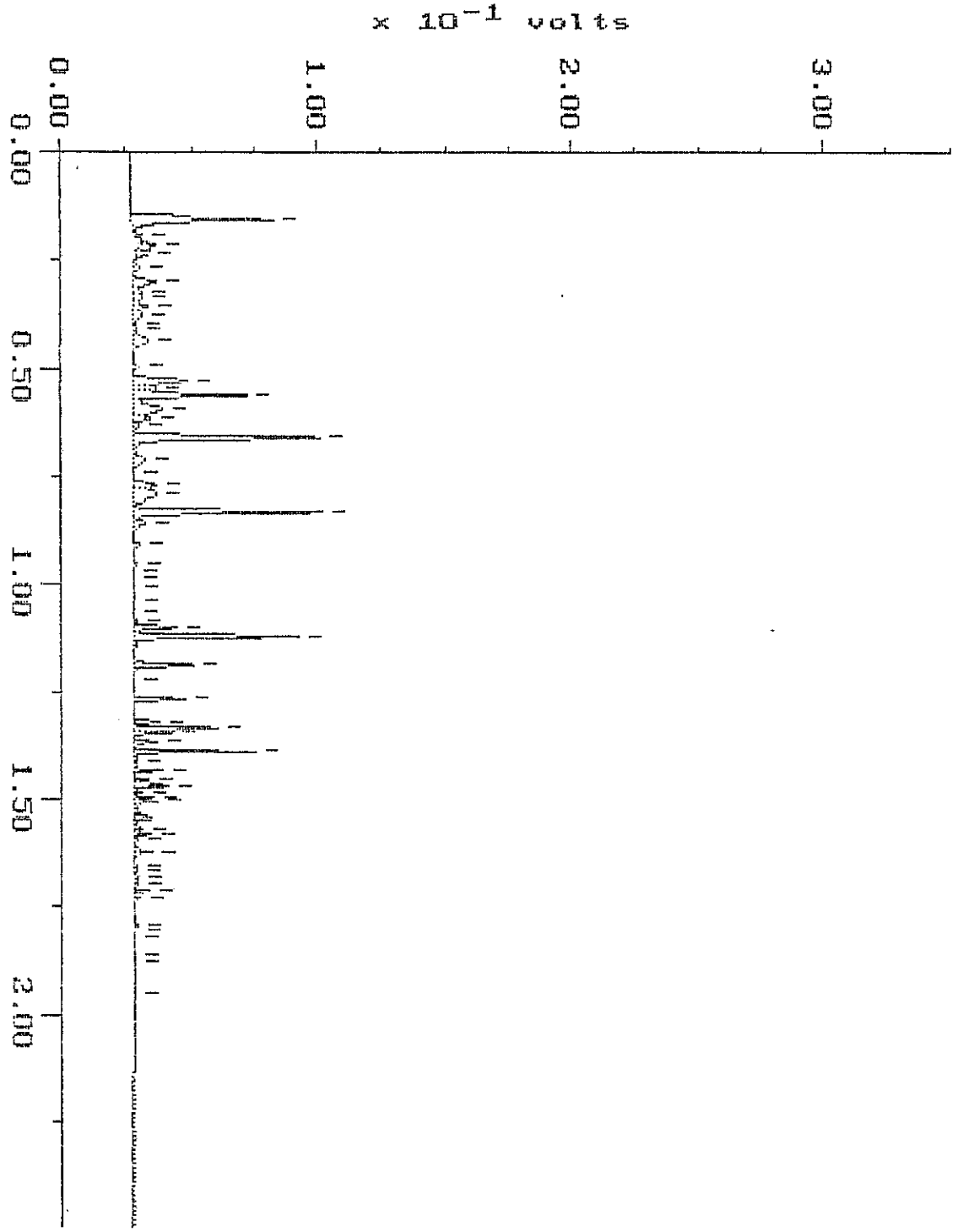
Continuing Calibration

Sample: STD C 6 Channel: FID Filename: RS299601
Acquired: 29-MAY-93 8:51 Method: F:\BRO2\MAXDATA\GLAD\052993GS Operator: ATI
Comments: ATI : A COMMITMENT TO QUALITY



WA DOE WTPH-G

Sample: STD-C G Channel: FID Filename: R5309G01
Acquired: 30-MAY-93 11:44 Method: F:\BRO2\MAXDATA\GLAD\053093GS Operator: ATI
Comments: ATI : A COMMITMENT TO QUALITY



PROJECT No. 520-25.24

Chain of Custody

PACIFIC ENVIRONMENTAL GROUP, INC
4020 148th Avenue N.E., Suite B
Redmond, WA 98052
(206) 869-5099 FAX (206) 869-5639

Facility no.: Chevron # 95311
Facility Address: 1018 Plum St, Olympia
Billing reference number: 9462770 per J.J. 5/28/93
CLIENT engineer: Keith Kinglen
PACIFIC Project Contact: John Johnson
Sampler: Les Brewer
Laboratory name: ATI

Sample I.D.	Lab No.	Container no.	Container type/size	Sample Preservation	Matrix S = Soil A = Air W = Water C = Charcoal	TYPE G = Grab C = Comp. D = Discrete	Sampling date	Sampling time	TPH-Gasoline/BTEX (WTPH-G/8015/8020)	TPH Diesel (WTPH-D/Mod. EPA 8015)	TPH-418.1 (EPA 418.1)	Polychlorinated Bipenyls (EPA 8080)	Hydrocarbon Identification (TPH-HCID)	Volatile Organics (EPA 624/8240)	Polynuclear Aromatics (PAHs-EPA 8100/610)	Metals ☐ Total ☐ Dissolved	Total Lead (EPA 7420/7421)	24 hr turnaround	
T-1	9305-292-1	1	Stainless Steel Rings	NONE	S	G	5-27-93		X								X		
T-3	2	↓	↓	↓	↓	↓	↓		↓								↓		
T-4	3																		
T-6	4																		
T-7	5																		
T-8	6																		
T-9	7																		
T-11	8																		
SPI-A	9																	X	
SPI-B	10																	X	
SPI-C	11	↓	↓	↓	↓	↓	↓		↓								↓	X	

Comments: 9305-292

Condition of sample: intact
Temperature received: 6°C

	Date	Time		Date	Time
Relinquished by Sampler	5/28/93	8:52	Received by	5/28/93	9:12
Relinquished by	5/28/93	10:05	Received by	5/28/93	10:08
Relinquished by	Date	Time	Received by laboratory	Date	Time

Turnaround time
- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- (Standard) 10 Business Days ☐ to faxed data
- As Contracted ☒