



FLUOR DANIEL GTI

Received Sept. 12, 1997

September 8, 1997

Ms. Janet Thompson-Lee
Washington Department of Ecology
3190 160th Avenue SE
Bellevue, WA 98008

**Subject: Hydraulic Lift Removal Activities
Sears Facility #1069
2200 148th Avenue, NE
Redmond, King County, Washington
Fluor Daniel GTI Project 02060.0432**

Dear Ms. Thompson-Lee:


On behalf of Sears, Roebuck and Co. (Sears), Fluor Daniel GTI, Inc. (Fluor Daniel GTI) has prepared this letter to request an extension of the due date for the required 30-day release report documenting the removal of five hydraulic lift systems at the above-referenced site.

Fluor Daniel GTI is currently awaiting final soil disposal and subsequent disposal documentation to complete the report. Once this information is obtained, the report will be finalized and submitted for review. The final report will be submitted within 45 days of the date of this letter.

Should you have any questions or comments regarding this correspondence, please contact Jessica Nichols at (770) 499-9000.

Sincerely,

FLUOR DANIEL GTI, INC.


Jessica A. Nichols, CHMM
Lead Environmental Engineer
Lift Program Technical Specialist

NFA letter?

c: Mr. David J. Clauson, Sears, Roebuck and Co., Hoffman Estates, Illinois
Project Files, Fluor Daniel GTI, Inc., Lenexa, Kansas

C:\SEARS\STATES\WA\1069EXT.LTR



FLUOR DANIEL GTI

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DEPT OF ECOLOGY

October 21, 1997

Ms. Janet Thompson-Lee
Washington Department of Ecology
3190 160th Avenue SE
Bellevue, WA 98008

**Subject: Hydraulic Lift Removal Activities
Sears Facility #1069
2200 148th Avenue, NE
Redmond, King County, Washington
Fluor Daniel GTI Project 02060.0432**

Dear Ms. Thompson-Lee:

On behalf of Sears, Roebuck and Co. (Sears), Fluor Daniel GTI, Inc. (Fluor Daniel GTI) has prepared this report to document the removal of five hydraulic lift systems at the above-referenced site and to summarize the associated environmental investigation. A site layout sketch is presented on **Figure 1**.

SCOPE OF WORK

Sears initiated this environmental investigation to assess the potential impact of hydraulic fluid on the site's subsurface soil and/or groundwater.

Based on discussions with a representative from the Washington Department of Ecology (WDOE), no specific regulations governing the removal of hydraulic lifts are published at this time. Hydraulic lift systems are not regulated as underground storage tank (UST) systems by WDOE. However, releases of hydraulic fluid are regulated. In general, analysis by United States Environmental Protection Agency (EPA) Method 418.1 is appropriate for detection of hydraulic fluid as total recoverable petroleum hydrocarbons (TRPH). Based upon information from a representative of WDOE, a cleanup goal of 200 milligrams per kilogram (mg/kg) has been set by WDOE for releases of hydraulic fluid.

Because soil concentrations of TRPH were detected in excess of the 200 mg/kg cleanup goal, submittal of this report is necessary for WDOE review.

Soil Assessment Activities

Soil samples were collected from hand-augered borings and/or backhoe excavations at locations where releases are considered most likely to occur (e.g. hydraulic cylinders [posts]; hydraulic fluid

pipng connections; underground/aboveground reservoirs; control valve assemblies). Total depth of each boring was generally based upon one or more of the following:

- concrete support pads or other types of structures in the hydraulic lift bay
- depth at which groundwater was encountered
- depth at which auger refusal was encountered
- field observations indicating the presence or lack of impacted soil (e.g. staining, odor)
- analytical data from an on-site mobile analytical laboratory

For specific information regarding the number of borings advanced, soil samples collected, and depth of each soil sample, please refer to **Table 1** and **Figures 2, 3 and 4**.

Groundwater Assessment Activities

Groundwater was not encountered during this assessment. However, trapped water was observed in the Lift A excavation. The equalization tray associated with the lift was noted to be in poor condition and the water in the excavation is likely from liquids that entered the tray via surface infiltration (e.g. water generated during floor cleaning activities). Water was not noted in other excavations at similar depths.

CHRONOLOGY

Field activities and lift removal assessment events are listed chronologically below:

- **August 5, 1997** - Fluor Daniel GTI personnel were on site to meet with the site contact and the subcontractor, Glacier Environmental Services, Inc. (Glacier). Fluor Daniel GTI personnel observed the initiation of the removal of the abovegrade lift components and concrete demolition in lift areas A, C, D and E. The locations of each lift and excavation are shown on **Figure 2**.
- **August 6, 1997** - Fluor Daniel GTI removal the evacuation of hydraulic fluid from lift systems A and D and their subsequent removal from the subsurface. The evacuated hydraulic fluid was pumped into properly labeled 55-gallon drums and stored on site, pending removal by Sears. Surface concrete demolition was completed in the area of Lift B.
- **August 7-8, 1997** - Began excavating and removing Lift B, C and D. The piping was drained of residual hydraulic fluid and placed into 55-gallon drums and stored on site, pending removal by Sears. Soil sampling commenced in locations beneath the aboveground hydraulic fluid reservoirs, piping, cylinders, and equalizer boxes (located between/adjacent to the cylinders). Samples were submitted to the on site mobile laboratory, Transglobal Environmental Geosciences, Inc. (TEG), for analysis. Overexcavation was required in areas associated with the Lift A and E aboveground hydraulic fluid reservoirs and Lift A and B lift cylinders. Overexcavation reached a total depth of approximately 8.5 feet below ground

surface (bgs) in lift excavations B and E. No overexcavation was conducted at Lifts C and D. An estimated 40 cubic yards of soil was generated from the hydraulic lift removals. Soil sample analytical results are summarized in **Table 1** and on **Figures 3** and **4**.

- **September 24, 1997** - Stockpiled soil generated during this investigation was disposed of by Strategic Environmental Solutions (SES) of Denver, Colorado. Soil disposal documentation is included in **Attachment A**.

FIELD OBSERVATIONS

Soil encountered during the soil sample collection and soil excavation was brown and gray silty sand with trace gravel to a depth of 8.5 feet bgs (the limit of excavation). Groundwater was not encountered during the investigation.

ANALYTICAL PROGRAM

Soil samples collected during the assessment were analyzed by an on-site mobile analytical laboratory provided by TEG. Soil samples were analyzed according to EPA Method 418.1 for TRPH. The soil sample exhibiting the highest concentration of TRPH by EPA Method 418.1 was also analyzed for polychlorinated biphenyls (PCBs) according to EPA Method 8080. The composite soil sample collected from the stockpiled soils generated during hydraulic lift system excavation activities was submitted to TEG's fixed base laboratory in Lacey, Washington, and analyzed according to the following EPA Method 418.1 for TRPH.

Also, because TRPH concentrations above cleanup levels were left in place at Lift A, a soil sample from this area was also analyzed by the following methods to further characterize the soils:

- EPA Method 8020 for benzene, toluene, ethylbenzene and xylenes (BTEX); and
- EPA 8015 for TPH-D extended

Analytical laboratory reports and chain-of-custody documentation are included as **Attachment B** and summarized in **Tables 1** and **2** and on **Figures 3** and **4**.

DISCUSSION OF ANALYTICAL RESULTS

Analytical results for soil samples collected during the hydraulic lift removals indicated a maximum concentration of 11,000 mg/kg TRPH under the Lift E piping elbow from the AST (E-1-1.5). Overexcavation in this area was not possible as a building foundation footer was encountered at 2 feet bgs. Therefore, soil was removed from the area east of soil sample location E-1, along the side of the footer, and a soil sample was obtained at a depth of 3.0 feet bgs. Results indicate a TRPH

concentration of 43 mg/kg (E-3-3.0), which is below the applicable cleanup levels. Lift A also had detected TRPH concentrations beneath its piping elbow at concentrations above cleanup levels (1,000 mg/kg in soil sample A-1-2.0). Overexcavation of impacted soil in this area of Lift A piping resulted in a concentration detected at 4.5 feet of 27 mg/kg (A-1-4.5), below the applicable cleanup levels.

The analytical results for lift B indicated TRPH impact under the lift system at 220 mg/kg (soil sample B-2-8.0). Overexcavation in this area and subsequent sampling indicated concentrations at 8.5 feet bgs of 24 mg/kg (B-2-8.5), and below the applicable cleanup levels.

Results for soil samples collected in the under the single post cylinders for Lifts C and D were below cleanup levels (C-1-8.0 at 11 mg/kg and D-1-8.0 at 53 mg/kg). Therefore, additional excavation was not performed in these lift areas.

Results from the Lift A cylinder excavation reported elevated TRPH concentrations of 630 mg/kg (A-2-8.0). Due to excavation constraints, primarily sloughing of sidewalls and undermining of concrete flooring, no overexcavation in this area was performed. In order to better classify the remaining impacted soils, soil sample A-2 obtained from 8.0 feet bgs was also analyzed for BTEX and TPH-D extended. Results indicate that BTEX constituents were not detected in the sample. Petroleum hydrocarbons were identified in the sample as diesel at 49 mg/kg and as oil at 480 mg/kg. This is relatively consistent with hydraulic fluid impact.

CONCLUSIONS AND RECOMMENDATIONS

Soil assessment activities in the area of the former hydraulic lift systems have been completed, and impacted soils have been excavated to the extent safe and feasible. However, impacted soil remains in-place at the former location of the Lift A cylinder. Analytical results and field observations pertaining to site soils obtained from the assessment do not indicate that groundwater at the site has been impacted by a release of hydraulic fluid. A monitoring well is proposed in the former area of Lift A where appropriate sampling should negate the need for further investigation or remediation relative to the lift removal activities at this site.

Should you have any questions or comments please contact Jessica Nichols at (770) 499-9000.

Sincerely,


FLUOR DANIEL GTI, INC.

Prepared by:


Aaron S. Vernik
Staff Geologist

Reviewed by:


Eileen Brennan
Zone Project Manager


Jessica A. Nichols
Lead Environmental Engineer
Lift Program Technical Specialist

c: Mr. David J. Clauson, Sears, Roebuck and Co., Hoffman Estates, Illinois
Project Files, Fluor Daniel GTI, Inc., Lenexa, Kansas

Attachments:

Figures

Tables






A. Soil Disposal Documentation

B. Analytical Laboratory Reports and Chain-of-Custody Documentation



FIGURES

LEGEND

-  AREA OF EXCAVATION
-  LIFT POST/CYLINDER LOCATION
-  LIFT POST/CYLINDER LOCATION WITH UNDERGROUND RESERVOIR
-  BAY NUMBERS
-  ABOVEGROUND RESERVOIR



NOT TO SCALE



1281 KENNESTONE CIRCLE
MARIETTA, GA 30066
(770) 499-9000

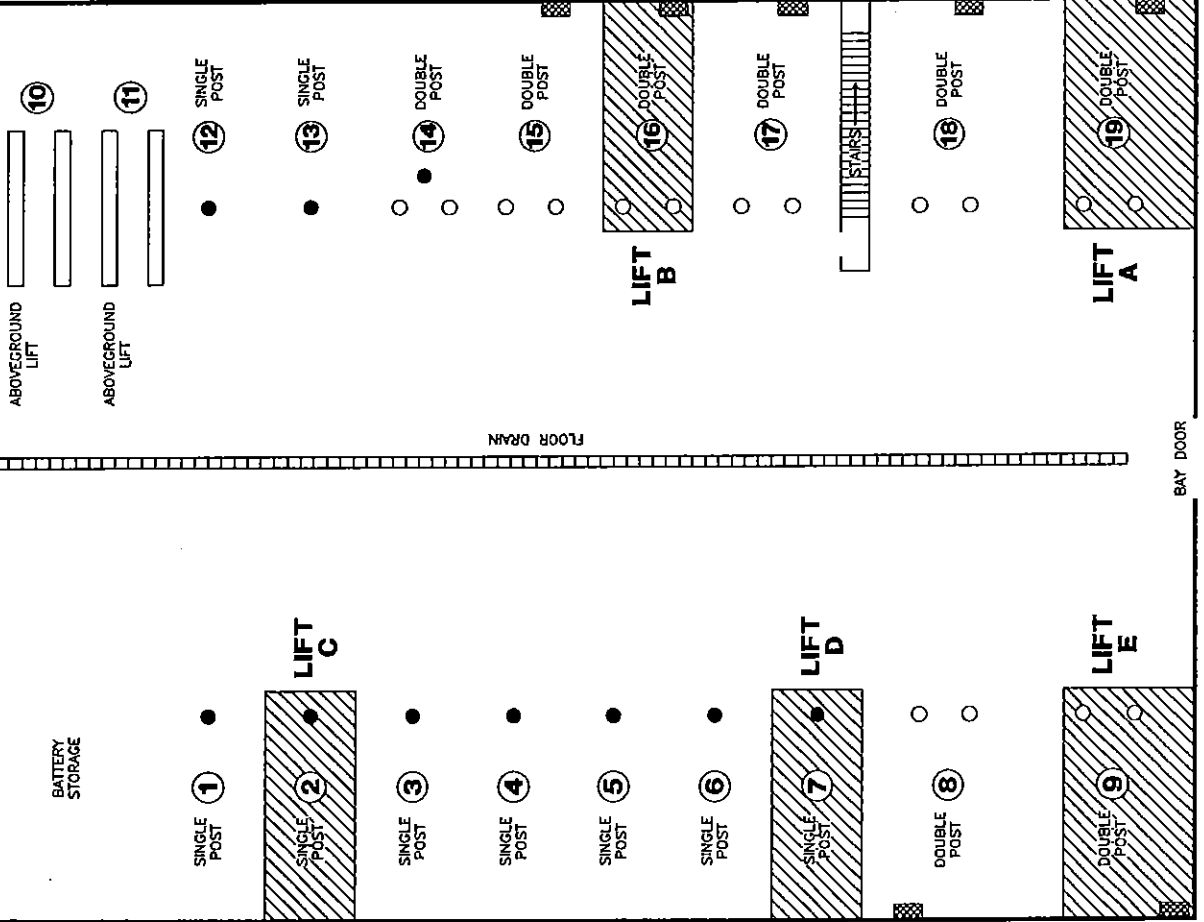
FLUOR DANIEL GTI

| | | |
|---------------|------------------------|---------------------|
| REVISION: *** | DRAWING DATE: 09-10-97 | ACAD FILE: 0432SITE |
|---------------|------------------------|---------------------|

SITE LAYOUT

| | | | |
|-----------|---|--------------|------------|
| CLIENT: | SEARS, ROEBUCK AND CO. FACILITY #1069 | PM: | EB |
| LOCATION: | 2200 148 AVENUE N.E. REDMOND, WASHINGTON | PE/RG: | *** |
| DESIGNED: | — | DETAILED: | RMS |
| | | PROJECT NO.: | 02060.0432 |
| | | FIGURE: | 1 |

BAY DOOR



BAY DOOR

BAY DOOR

LEGEND

- ⊗ SOIL SAMPLE LOCATION
- LIFT POST/CYLINDER LOCATION
- LIFT POST/CYLINDER LOCATION WITH UNDERGROUND RESERVOIR
- ① BAY NUMBERS
- ▣ ABOVEGROUND RESERVOIR



NOT TO SCALE



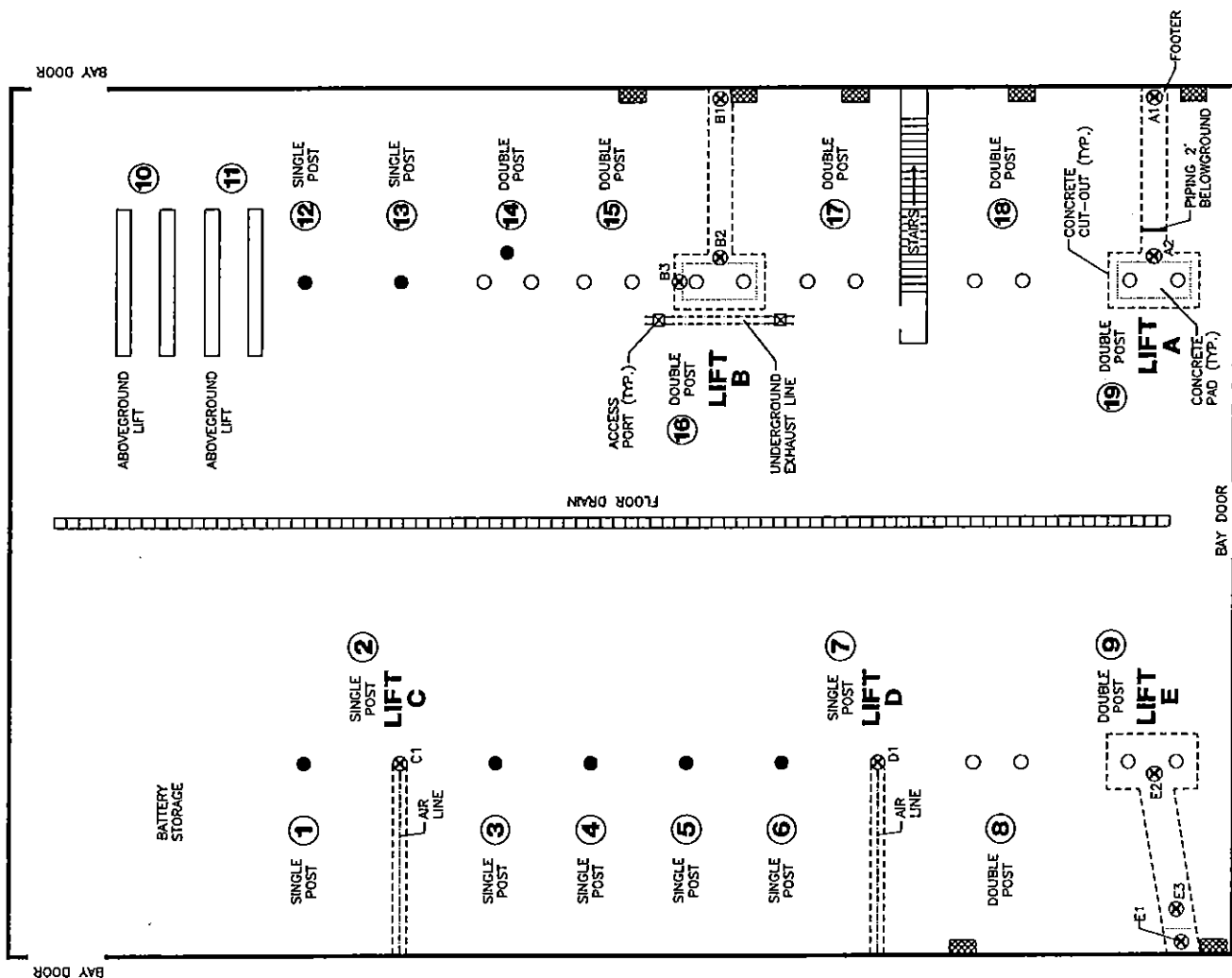
FLUOR DANIEL GTI

1281 KENNESTONE CIRCLE
MARIETTA, GA 30066
(770) 499-9000

| | | |
|---------------|------------------------|---------------------|
| REVISION: *** | DRAWING DATE: 09-10-97 | ACAD FILE: 0432SOIL |
|---------------|------------------------|---------------------|

SOIL SAMPLE LOCATION MAP

| | |
|---|---------------|
| CLIENT: SEARS, ROEBUCK AND CO. FACILITY #1069 | PM: EB |
| LOCATION: 2200 148 AVENUE N.E. REDMOND, WASHINGTON | PE/RG: *** |
| DESIGNED: - | Detailed: RMS |
| PROJECT NO.: 02060.0432 | FIGURE: 2 |



MAP SOURCE: FLUOR DANIEL GTI PERSONNEL FIELD SKETCH

LEGEND

- ⊗ SOIL SAMPLE LOCATION
 - LIFT POST/CYLINDER LOCATION
 - ① BAY NUMBERS
 - UNDERGROUND RESERVOIR
 - ▤ ABOVEGROUND RESERVOIR
- | SAMPLE ID AND DATE | |
|--------------------|---------|
| DEPTH | RESULTS |
| 2.0' | 1000 |
- DEPTH (feet bgs) AND TRPH CONCENTRATION (mg/kg)
- bgs
- mg/kg
- TRPH
- BELOW GROUND SURFACE
- MILLIGRAMS PER KILOGRAM
- TOTAL RECOVERABLE PETROLEUM HYDROCARBONS BY EPA METHOD 418.1



NOT TO SCALE



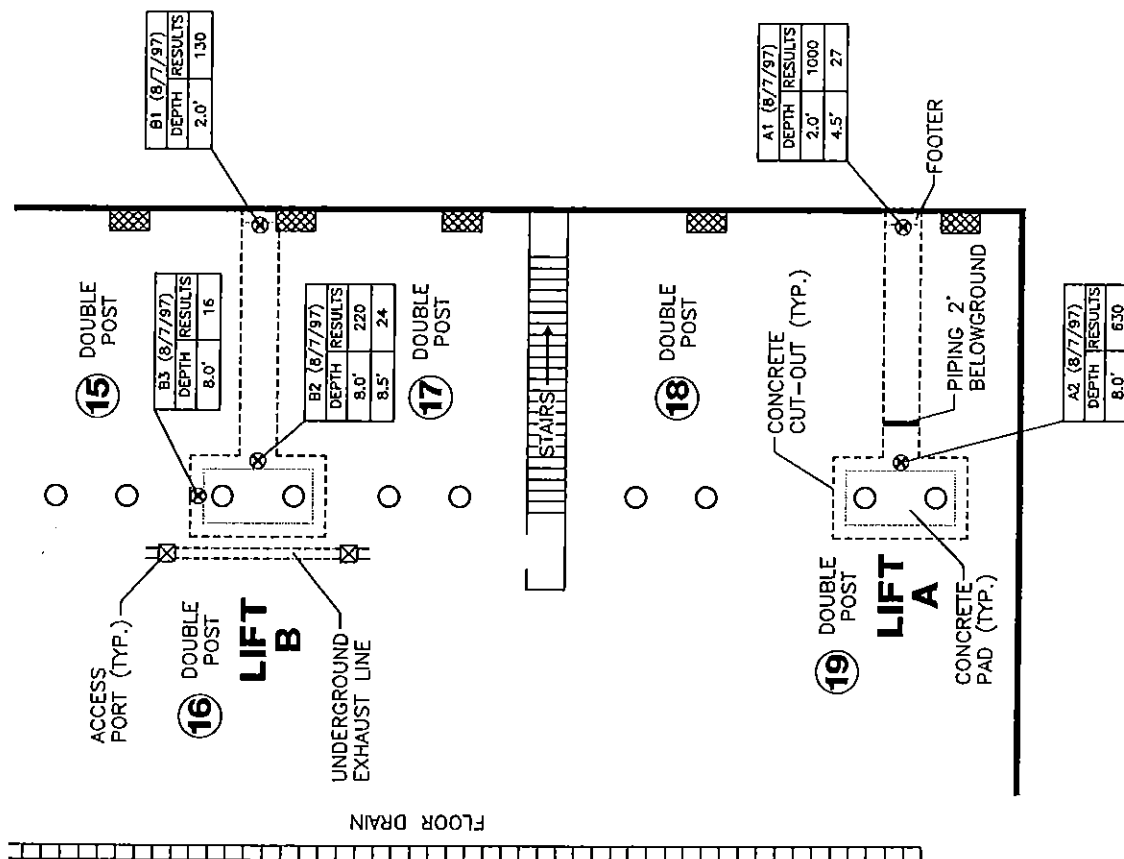
FLUOR DANIEL GTI

1281 KENNEDY STREET
MARIETTA, GA 30066
(770) 499-9000

| | | |
|---------------|------------------------|---------------------|
| REVISION: *** | DRAWING DATE: 09-10-97 | ACAD FILE: 0432SANL |
|---------------|------------------------|---------------------|

SOIL SAMPLE ANALYTICAL MAP

| | |
|---|--------------------------------------|
| CLIENT: SEARS, ROEBUCK AND CO. FACILITY #1069 | PM: EB |
| LOCATION: 2200 148 AVENUE N.E. REDMOND, WASHINGTON | PE/RG: *** |
| DESIGNED: — RMS | PROJECT NO.: 02060.0432 FIGURE: 3 |



LEGEND

- ⊗ SOIL SAMPLE LOCATION
- LIFT POST/CYLINDER LOCATION
- LIFT POST/CYLINDER LOCATION WITH UNDERGROUND RESERVOIR
- ⑦ BAY NUMBERS
- ▣ ABOVEGROUND RESERVOIR

| C1 (8/7/97) | | |
|-------------|---------|--|
| DEPTH | RESULTS | |
| 8.0' | 11 | |

bgs BELOW GROUND SURFACE
 mg/kg MILLIGRAMS PER KILOGRAM
 TRPH TOTAL RECOVERABLE PETROLEUM HYDROCARBONS BY EPA METHOD 418.1



NOT TO SCALE



FLUOR DANIEL GTI

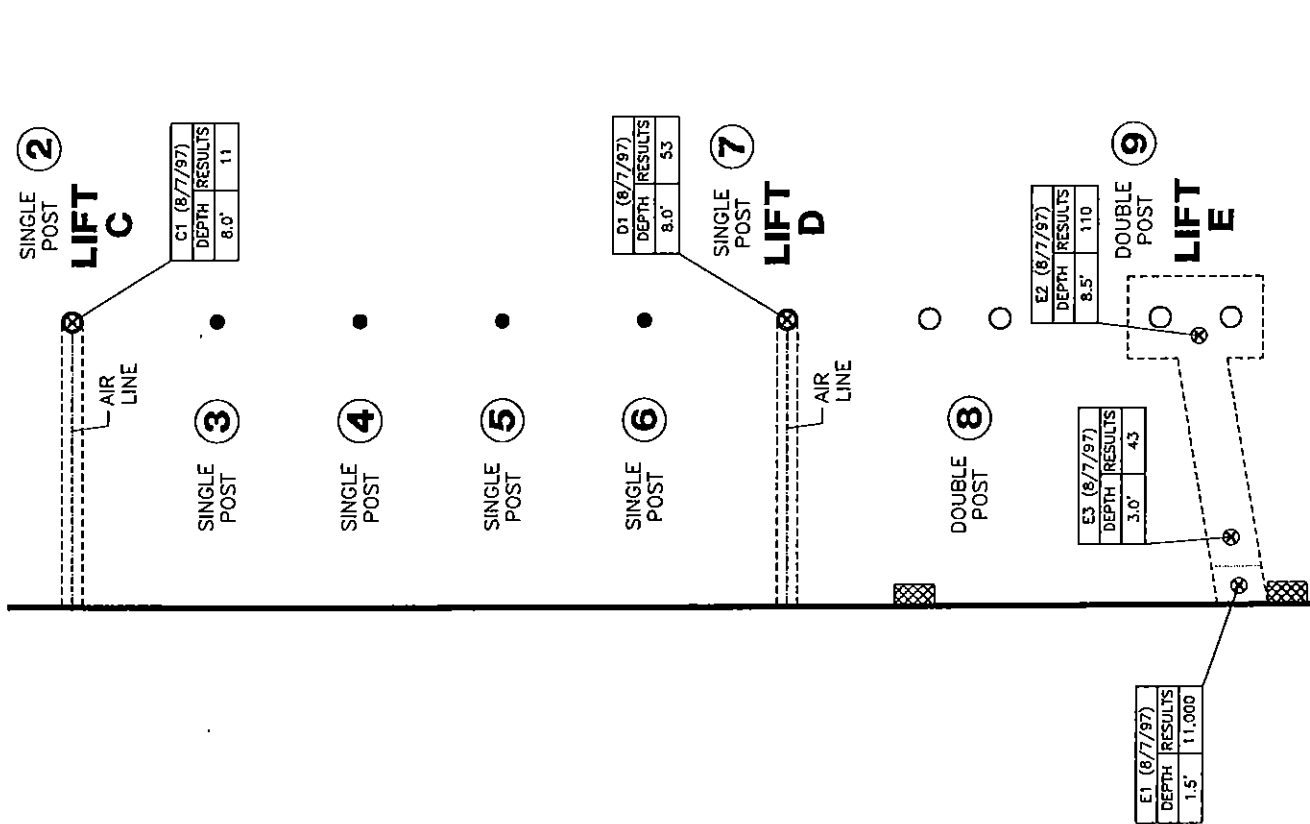
1281 KENNESTONE CIRCLE
MARIETTA, GA 30066
(770) 499-9000

| | | |
|---------------|------------------------|---------------------|
| REVISION: *** | DRAWING DATE: 09-10-97 | ACAD FILE: 0432SAN2 |
|---------------|------------------------|---------------------|

SOIL SAMPLE ANALYTICAL MAP

| | |
|---|---------------|
| CLIENT: SEARS, ROEBUCK AND CO. FACILITY #1069 | PM: EB |
| LOCATION: 2200 148 AVENUE N.E. REDMOND, WASHINGTON | PE/RC: *** |
| DESIGNED: — | DETAILED: RMS |
| PROJECT NO.: 02060.0432 | FIGURE: 4 |

FLOOR DRAIN



MAP SOURCE: FLUOR DANIEL GTI PERSONNEL FIELD SKETCH

TABLES



TABLE 1
Soil Sample Analytical Results

(Results expressed as milligrams per kilogram)

Sears Facility 1069
Redmond, Washington

| Lift System | Sample ID | Sample Date | Sample Depth | TRPH ^a | PCBs ^b | BTEX ^c | TPH-D ^d (diesel) | TPH-D ^d (oil) |
|-------------|-----------|-------------|--------------|-------------------|-------------------|-------------------|-----------------------------|--------------------------|
| A | 1 | 8/7/97 | 2.0 | 1,000 | NA | NA | NA | NA |
| | | | 4.5 | 27 | NA | NA | NA | NA |
| | 2 | 8/7/97 | 8.0 | 630 | NA | ND | 49 | 480 |
| B | 1 | 8/7/97 | 2.0 | 130 | NA | NA | NA | NA |
| | 2 | 8/7/97 | 8.0 | 220 | NA | NA | NA | NA |
| | | | 8.5 | 24 | NA | NA | NA | NA |
| | 3 | 8/7/97 | 8.0 | 16 | NA | NA | NA | NA |
| C | 1 | 8/7/97 | 8.0 | 11 | NA | NA | NA | NA |
| D | 1 | 8/7/97 | 8.0 | 53 | NA | NA | NA | NA |
| E | 1 | 8/7/97 | 1.5 | 11,000 | ND | NA | NA | NA |
| | 2 | 8/7/97 | 8.5 | 110 | NA | NA | NA | NA |
| | 3 | 8/7/97 | 3.0 | 43 | NA | NA | NA | NA |

Source: TEG/Northwest, Lacey, Washington, 1997.

Notes: Depths listed in feet below ground surface (bgs). "NA" indicates the soil sample was not analyzed for that specific method/constituent. "ND" indicates constituents not detected at or above the laboratory reporting limit.

^a total recoverable petroleum hydrocarbons, according to EPA Method 418.1

^b polychlorinated biphenyls, according to EPA Method 8080

^c total benzene, toluene, ethylbenzene and xylenes, according to EPA Method 8020

^dTPH-D extended, according to EPA method 8015

TABLE 2
Composite Soil Sample Analytical Results
(Results expressed as milligrams per kilogram)

Sears Facility #1069
Redmond, Washington

| Sample ID | Sample Date | TRPH ^a |
|-----------|-------------|-------------------|
| Soil Pile | 8/8/97 | 8,400 |

Source: TEG/Northwest, Inc., Lacey, Washington, 1997.

^a total recoverable petroleum hydrocarbons, according to EPA Method 418.1

ATTACHMENT A
SOIL DISPOSAL DOCUMENTATION

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Manifest

TPS Technologies Soil Recycling

Non-Hazardous Soils

↓ Manifest # ↓

| | | | | | |
|-------------------|---|----------------------|---------------------------|-------------------------------|-----------------------|
| Date of Shipment: | Responsible for Payment: Consultant | Transporter Truck #: | Facility #: A03 | Given by TPS: 01409 | Load #: 001 |
|-------------------|---|----------------------|---------------------------|-------------------------------|-----------------------|

| | | |
|---|---|---|
| Generator's Name and Billing Address: SEARS, ROEBUCK & CO. 3333 BEVERLY ROAD HOFFMAN ESTATES, IL 60179 USA | Generator's Phone #: (847) 286-7199 | Generator's US EPA ID No.: |
| | Person to Contact: DAVE CLAUSON | |
| | FAX#: | Customer Account Number with TPS: 3SEARSR |

| | | |
|--|--|---|
| Consultant's Name and Billing Address: STRATEGIC ENVIRO. SOLUTIONS 1800 - 15th STREET SUITE 203 DENVER, CO 80202 USA | Consultant's Phone #: (303) 572-1100 | |
| | Person to Contact: ROSS THOMPSON | |
| | FAX#: (303) 572-1106 | Customer Account Number with TPS: 1002965 |

| | | |
|--|--|--------------|
| Generation Site (Transport from): (name & address) SEARS #1069 2200 - 148th AVENUE NE REDMOND, WA 00000 USA | Site Phone #: (425) 644-6528 | BTX Levels: |
| | Person to Contact: MANAGER | TPH Levels: |
| | FAX#: (425) - | AVG. Levels: |

| | | |
|---|--|--------------------------|
| Designated Facility (Transport to): (name & address) TPS Technologies Inc. 2800 - 104th Street Court South Lakewood, WA 98444-6766 USA | Facility Phone #: (253) 584-8430 | Facility Permit Numbers: |
| | Person to Contact: Renee Avelino | |
| | FAX#: (253) 584-8309 | |

| | | |
|---|---|---|
| Transporter Name and Mailing Address: JLA CONSTRUCTION 17404 MERIDIAN EAST SUITE #F121 PUYALLUP, WA 98375 USA | Transporter's Phone #: (253) 531-9571 | Transporter's US EPA ID No.: |
| | Person to Contact: SCOTT TALERICO | Transporter's DOT No.: |
| | FAX#: (253) 846-2553 | Customer Account Number with TPS: 3JLACON |

| Description of Soil | Molature Content | Contaminated by: | Approx. Qty: | Description of Delivery | Gross Weight | Tare Weight | Net Weight |
|--|--|---|--------------|-------------------------|--------------|-------------|------------|
| Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/> | 0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/> | Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/> | | | 118000 | 37680 | 80320 |
| Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/> | 0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/> | Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/> | | NET TONS= | 40.16 | | |

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐ Signature and date: _____ Month _____ Day _____ Year _____

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Don Mummie Signature and date: Don Mummie Month 9 Day 24 Year 97

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: RENEE AVELINO - CSM Signature and date: Renee Avelino 9/24

Please print or type.

109,180

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

| | | | | | |
|-------------------|---|----------------------|---------------------------|-------------------------------|-----------------------|
| Date of Shipment: | Responsible for Payment: Consultant | Transporter Truck #: | Facility #: A03 | Given by TPS: 01409 | Load #: 002 |
|-------------------|---|----------------------|---------------------------|-------------------------------|-----------------------|

| | | |
|--|---|---|
| Generator's Name and Billing Address: SEARS, ROEBUCK & CO. 3333 BEVERLY ROAD HOFFMAN ESTATES, IL 60179 USA | Generator's Phone #: (847) 286-7199 | Generator's US EPA ID No.: |
| | Person to Contact: DAVE CLAUSON | |
| | FAX #: | Customer Account Number with TPS: 3SEARSR |

| | | |
|--|--|---|
| Consultant's Name and Billing Address: STRATEGIC ENVIRO. SOLUTIONS 1800 - 15th STREET SUITE 203 DENVER, CO 80202 USA | Consultant's Phone #: (303) 572-1100 | |
| | Person to Contact: ROSS THOMPSON | |
| | FAX #: (303) 572-1106 | Customer Account Number with TPS: 1002965 |

| | | |
|---|--|--------------|
| Generation Site (Transport from): (name & address) SEARS #1069 2200 - 148th AVENUE NE REDMOND, WA 00000 USA | Site Phone #: (425) 644-6528 | BTEX Levels: |
| | Person to Contact: MANAGER | TPH Levels: |
| | FAX #: (425) - | AVG. Levels: |

| | | |
|--|--|-------------------------|
| Designated Facility (Transport to): (name & address) TPS Technologies Inc. 2800 - 104th Street Court South Lakewood, WA 98444-6766 USA | Facility Phone #: (253) 584-8430 | Facility Permit Number: |
| | Person to Contact: Renee Avelino | |
| | FAX #: (253) 584-8309 | |

| | | |
|---|---|---|
| Transporter Name and Mailing Address: JLA CONSTRUCTION 17404 MERIDIAN EAST SUITE #F121 PUYALLUP, WA 98375 USA | Transporter's Phone #: (253) 531-9571 | Transporter's US EPA ID No.: |
| | Person to Contact: SCOTT TALERICO | Transporter's DOT No.: |
| | FAX #: (253) 846-2563 | Customer Account Number with TPS: 3JLACON |

| Description of Soil | Moisture Content | Contaminated by: | Approx. Qty: | Description of Delivery | Gross Weight | Tare Weight | Net Weight |
|--|-------------------------------------|---------------------------------|--------------|-------------------------|--------------|--------------|--------------|
| Sand <input type="checkbox"/> Organic <input type="checkbox"/> | 0 - 10% <input type="checkbox"/> | Gas <input type="checkbox"/> | | | | | |
| Clay <input type="checkbox"/> Other <input type="checkbox"/> | 10 - 20% <input type="checkbox"/> | Diesel <input type="checkbox"/> | | | | | |
| | 20% - over <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | |
| Sand <input type="checkbox"/> Organic <input type="checkbox"/> | 0 - 10% <input type="checkbox"/> | Gas <input type="checkbox"/> | | | | | |
| Clay <input type="checkbox"/> Other <input type="checkbox"/> | 10 - 20% <input type="checkbox"/> | Diesel <input type="checkbox"/> | | | | | |
| | 20% - over <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | |
| NET TONS= | | | | | 69100 | 24320 | 44780 |
| | | | | | 22.39 | | |

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

| | | | |
|---------------------------------|---|---------------------|-------------------|
| Print or Type Name: X | Generator <input type="checkbox"/> Consultant <input checked="" type="checkbox"/> | Signature and date: | Month: Day: Year: |
|---------------------------------|---|---------------------|-------------------|

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

| | | |
|--|---------------------|-------------------|
| Print or Type Name: JOHN S BARBERA | Signature and date: | Month: Day: Year: |
|--|---------------------|-------------------|

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

| | | |
|---|---------------------|-------------------|
| Print or Type Name: RENEE AVELINO - CSM | Signature and date: | Month: Day: Year: |
|---|---------------------|-------------------|

ATTACHMENT B
ANALYTICAL LABORATORY REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION

Client: GTI
Lab: TEGMW Seattle
Lab Job #: S70808-2
Spreadsheet File Name: S70808-2.wk1

Project: SEARS 1069 Redmond, WA
Project#: 08/12/97 12:39 PM
Printed: 08/12/97 12:39 PM

| Compound | MTM BLK | LCS | A2-8' | Dupl A2-8' | RPD A2-8' | E1-1.5' | Dupl E1-1.5' | RPD E1-1.5' | SOIL PILE | Dupl SOIL PILE |
|--------------------------------|----------|----------|----------|---------------|--------------|----------|-----------------|----------------|-----------|-------------------|
| Matrix | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| % Moisture | 08/08/97 | 08/08/97 | 08/08/97 | 08/08/97 | 08/08/97 | 08/08/97 | 08/08/97 | 08/08/97 | 08/08/97 | 08/08/97 |
| TPH-D in mg/kg or mg/L (ppm) | | | | | | | | | | |
| TPH-D, C12 > C24 (Diesel) | 20 U | 95% | 49 | 45 | 9% | | | | 5% | 5% |
| TPH-D, C24 > C37, (Oil) | 50 U | | 480 | 470 | 2% | | | | | |
| 2-Fluorobiphenyl (surr #1) | 78% | C | 93% | 96% | | | | | | |
| o-Terphenyl (surr #2) | 66% | C | 93% | 97% | | | | | | |
| Hexacosane - nC26 (surr #3) | 90% | 102% | 90% | 89% | | | | | | |
| 8020 VOA, µg/kg or µg/L (ppb) | | | | | | | | | | |
| Benzene | 50 U | | 50 U | 50 U | | | | | | |
| Toluene | 50 U | | 50 U | 50 U | | | | | | |
| Ethylbenzene | 50 U | | 50 U | 50 U | | | | | | |
| Xylenes | 50 U | | 50 U | 50 U | | | | | | |
| a,a,a-Trifluorotoluene (surr) | 98% | | 92% | 96% | | | | | | |
| 1,2-Bromofluorobenzene (surr) | 111% | | 100% | 105% | | | | | | |
| TPH-418.1, mg/kg or mg/L (ppm) | | | | | | | | | | |
| TPH (418.1) | 50 U | 92% | | | | | | | 8,400 | 9,300 |
| PCB in µg/kg or µg/L (ppb) | | | | | | | | | | |
| A1016 | 200 U | | 200 U | 200 U | | | | | | |
| A1221 | 500 U | | 500 U | 500 U | | | | | | |
| A1232 | 500 U | | 500 U | 500 U | | | | | | |
| A1242 | 200 U | | 200 U | 200 U | | | | | | |
| A1248 | 200 U | | 200 U | 200 U | | | | | | |
| A1254 | 200 U | | 200 U | 200 U | | | | | | |
| A1260 | 200 U | | 200 U | 200 U | | | | | | |
| Tetrachloro-m-xylene (surr) | 90% | 102% | 108% | 100% | | | | | | |
| Decachlorobiphenyl (surr) | 68% | 96% | 82% | 85% | | | | | | |

FILE COPY

☐ Project Management ☐ Reports
☐ Correspondence ☐ Safety
☐ Permits/Licenses ☒ Data
☐ Other 1069 LIFT

PRELIMINARY DATA-
NOT VALIDATED



Midwest Region

4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

August 1, 1997

Jessica Nichols
FLUOR DANIEL GTI
1281 Kennestone Circle Nw
Suite 100
Marietta, GA 30066

| | |
|-------------------------|--|
| RE: NEI/GTEL Client ID: | 020600411 |
| Login Number: | W7070595 |
| Project ID (number): | 020600411 |
| Project ID (name): | SEARS/2371/1400 DELL RANGE/CHEYENNE/WY |

Dear Jessica Nichols:

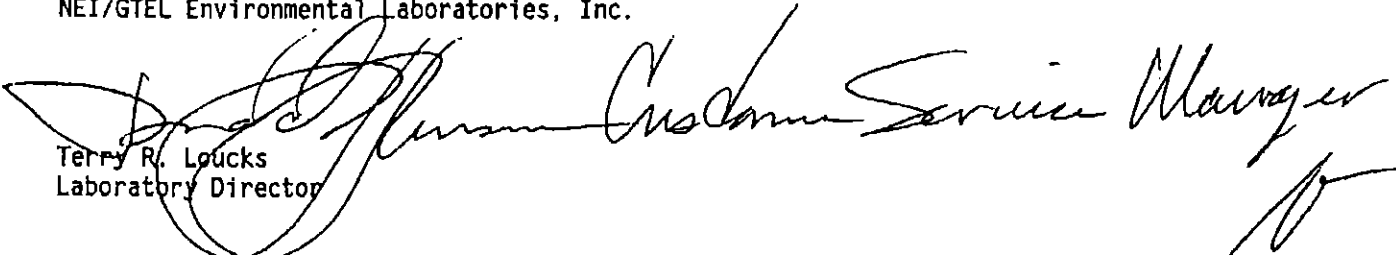
Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 07/31/97 under Chain-of-Custody Number(s) 35803.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the State of Kansas under Certification Number E-10103.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.


Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: 020600411

Login Number: W7070595

Project ID (number): 020600411

Project ID (name): SEARS/2371/1400 DELL RANGE/CHEYENNE/WY

Method: See Below
Matrix: Solids

| | | | | |
|------------------------|-----------------|----------|----|----|
| NEI/GTEL Sample Number | W7070595-01 | .. | .. | .. |
| Client ID | SOIL PILE | .. | .. | .. |
| Date Sampled | 07/30/97 | .. | .. | .. |
| ASTM D93 | Date Analyzed | 07/31/97 | .. | .. |
| ASTM D93 | Dilution Factor | 1.00 | .. | .. |
| EPA 9010A | Date Prepared | 07/31/97 | .. | .. |
| EPA 9010A | Date Analyzed | 07/31/97 | .. | .. |
| EPA 9010A | Dilution Factor | 1.00 | .. | .. |
| EPA 9045B | Date Analyzed | 07/31/97 | .. | .. |
| EPA 9045B | Dilution Factor | 1.00 | .. | .. |
| EPA SW846, CH.7 | Date Prepared | 08/01/97 | .. | .. |
| EPA SW846, CH.7 | Date Analyzed | 08/01/97 | .. | .. |
| EPA SW846, CH.7 | Dilution Factor | 1.00 | .. | .. |

| Analyte | Reporting | Limit | Units | Concentration:Wet Weight |
|-------------------------|---------------------|-------|-------|--------------------------|
| Inorganics (MT, WC) | | | | |
| Total Cyanide | EPA 9010A | 4.0 | mg/kg | < 4.0 |
| Flashpoint (Closed Cup) | ASTM D93 | 70.0 | deg F | > 200. |
| pH | EPA 9045B | 0.0 | pH | 10.0 |
| Reactive Sulfide | EPA SW 846, CH. 250 | mg/kg | < 250 | |
| Percent Solids | | % | 87.2 | |

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

ASTM D93:

Annual Book of ASTM Standards, 1983 Revision.

EPA 9010A, EPA 9045B, EPA SW846, CH.7:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods". SW-846. Third Edition including Update 2.

35803

CHAIN-OF-CUSTODY RECORD
& ANALYSIS REQUEST

OTHER

ANALYSIS REQUEST

4080 PIKE LANE, SUITE C
CONCORD, CA 94520
(510) 685-7852
(800) 423-7143



Company Name: **FD6TE**
Phone #: (510) 310-3990
FAX #:
Site Location:
Company Address: **Maricopa, AZ**
1600 Dell Raye, Chyenne
Client Project ID: #10200-0411-01
Project Manager: **Jessica Nichols**
INAMEL Slows # 2371 Chyenne, WY
Filene Brothers
Sampler Name (Print): **Aaron S. Verndt**
I attest that the proper field sampling procedures were used during the collection of these samples.

| Field Sample ID | GTel Lab # (Lab Use only) | Matrix | | Method Preserved | | Sampling | |
|-----------------|---------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------|
| | | WATER | SOIL | GLUEG | PRODUCT | OTHER | DATE |
| Soil Pile | W7-07-0595 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 7/30/97 |

| | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|--|--|---|--|--|--|---|---|--|---|---|--|---|--|---------------------------------------|---|
| <input type="checkbox"/> BTEX 402 <input type="checkbox"/> 8020 <input type="checkbox"/> with MTBE | <input type="checkbox"/> BTX/Gas Hydrocarbons PID/FID <input type="checkbox"/> with MTBE | <input type="checkbox"/> Hydrocarbon Fractions (EIM/MS) | <input type="checkbox"/> Q3 and Grease 413 <input type="checkbox"/> 418.2 <input type="checkbox"/> SM-503 | <input type="checkbox"/> TPH/PAH 418.1 <input type="checkbox"/> SM-503 | <input type="checkbox"/> EDB by 604 <input type="checkbox"/> DECP by 604 | <input type="checkbox"/> EPA 503.1 <input type="checkbox"/> EPA 502.2 | <input type="checkbox"/> EPA 801 <input type="checkbox"/> EPA 8010 | <input type="checkbox"/> EPA 402 <input type="checkbox"/> EPA 8020 | <input type="checkbox"/> EPA 808 <input type="checkbox"/> 8080 <input type="checkbox"/> PCB only | <input type="checkbox"/> EPA 824/PPL <input type="checkbox"/> 8240/TAL <input type="checkbox"/> NBS (+19) | <input type="checkbox"/> EPA 823/PPL <input type="checkbox"/> 8270/TAL <input type="checkbox"/> NBS (+25) | <input type="checkbox"/> EPA 810 <input type="checkbox"/> 8310 | <input type="checkbox"/> EPA TOX Metals <input type="checkbox"/> Pesticides <input type="checkbox"/> Herbicides | <input type="checkbox"/> TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> SEM-VOA <input type="checkbox"/> Part <input type="checkbox"/> Heavy | <input type="checkbox"/> EPA Metals - Priority Pollutants <input type="checkbox"/> TAL <input type="checkbox"/> RCRA | <input type="checkbox"/> CAM Metals <input type="checkbox"/> TLOC <input type="checkbox"/> STLC | <input type="checkbox"/> Lead 23P-2 <input type="checkbox"/> 200.7 <input type="checkbox"/> 7420 <input type="checkbox"/> 7421 <input type="checkbox"/> 6010 | <input type="checkbox"/> Organic Lead | <input checked="" type="checkbox"/> Asbestos <input type="checkbox"/> High Point <input checked="" type="checkbox"/> Resiliency |
|--|--|---|---|--|--|---|--|--|--|---|---|--|---|---|--|---|--|---------------------------------------|---|

REMARKS: **File results to Jessica Nichols at (770) 499-9933** **24 hr. TAT**

Lab Use Only Lot #: **Storage Location**

Work Order #:

SPECIAL DETECTION LIMITS

SPECIAL REPORTING REQUIREMENTS

FAX ☐

Special Handling: **GTel Contact**
Priority (24 hr) ☒ GTel Contact
Excluded (48 hr) ☐ Contact/Contact #
7 Business Days ☐ Confirmation #
Other: ☐ P.O. #

QA/QC Level: **Blue** ☐ **CUP** ☐ **Other** ☐

Field/In-house by Sample: **Aaron S. Verndt**
Relinquished by: **Aaron S. Verndt**
Refrinquired by:

Received by: **7/30/97 10:30**
Received by: **7/30/97 10:30**
Received by Laboratory: **7-31-97 8:35**
Waybill # **Don Brumator**

CUSTODY RECORD

COPY

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

**7110 38th Drive SE
Lacey, Washington 98503**

**Mobile Environmental Laboratories
Environmental Sampling Services**

**Telephone: 360-459-4670
Fax: 360-459-3432**

August 20, 1997
RECEIVED

AUG 25 1997

Eileen Brennan
Fluor Daniel GTI
757 Arnold Drive
Suite D
Martinez, CA 94553

Re: Purchase Order No. 043155

Dear Ms. Brennan:

Please find enclosed an analytical report for the work done at the Sears Store No. 1069 located at 2200 148th Avenue Northeast in Redmond, Washington. Soil samples were analyzed at the project site on August 7 and 8, 1997, for Heavy Petroleum Hydrocarbons by WTPH-418.1.

The results of the analyses are summarized in the attached table. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to Fluor Daniel GTI for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

cc: JN + AY 8/26

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/-accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4° C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

TPH-Heavy Fuel Hydrocarbons (EPA 418.1, WTPH-418.1)

Calibration plot values must produce a best fit line, with known values deviating from the plot by less than 10%. Prior to sample run, a blank, a calibration standard, and a method blank are run. One method blank per 10 samples is prepared. A sample duplicate is prepared for each 10 samples to be run per day.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

SEARS #1069 PROJECT

Redmond, Washington

Fluor Daniel GTI

Heavy Petroleum Hydrocarbons in soil by WTPH-418.1

| Sample Number | Date | TPH mg/kg |
|------------------------|----------|--------------|
| Meth. Blank | 08/07/97 | nd |
| A1 (2') | 08/07/97 | 1000 |
| B1 (2') | 08/07/97 | 130 |
| D1 (8') | 08/07/97 | 53 |
| E1 (1.5') | 08/07/97 | 11000 |
| E2 (8.5') | 08/07/97 | 110 |
| E3 (3') | 08/07/97 | 43 |
| E3 (3') Dup | 08/07/97 | 26 |
| B2 (8') | 08/07/97 | 220 |
| B3 (8') | 08/07/97 | 16 |
| A1 (4.5') | 08/07/97 | 27 |
| C1 (8') | 08/07/97 | 11 |
| B2 (8.5') | 08/07/97 | 24 |
| A2 (8') | 08/07/97 | 630 |
| A2 (8') Dup | 08/07/97 | 920 |
| Method Detection Limit | | 10 |

"nd" Indicates not detected at the listed detection limit.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

SEARS #1069 PROJECT

Redmond, Washington

Fluor Daniel GTI

Heavy Petroleum Hydrocarbons in soil by WTPH-418.1

| Sample Number | Date | TPH mg/kg |
|------------------------|----------|--------------|
| Meth. Blank | 08/07/97 | nd |
| A1 (2') | 08/07/97 | 1000 |
| B1 (2') | 08/07/97 | 130 |
| D1 (8') | 08/07/97 | 53 |
| E1 (1.5') | 08/07/97 | 11000 |
| E2 (8.5') | 08/07/97 | 110 |
| E3 (3') | 08/07/97 | 43 |
| E3 (3') Dup | 08/07/97 | 26 |
| B2 (8') | 08/07/97 | 220 |
| B3 (8') | 08/07/97 | 16 |
| A1 (4.5') | 08/07/97 | 27 |
| C1 (8') | 08/07/97 | 11 |
| B2 (8.5') | 08/07/97 | 24 |
| A2 (8') | 08/07/97 | 630 |
| A2 (8') Dup | 08/07/97 | 920 |
| Method Detection Limit | | 10 |

"nd" Indicates not detected at the listed detection limit.

09/08/97 11:02 FAX 206 251 8452
08/15/97 FRI 15:22 FAX

GROUNDWATER TECH →→ MARIETTA
GROUNDWATER →→ KENT

002/005
002

AUG-12-1997 15:59 FROM HART CROWSER

TO

15103703991

P.01

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.



TEG Northwest - Olympia Office:

7110 38 DR SE, Lacey WA 98503-7174
(360) 459-4670; Fax: (360) 459-3432

TEG Northwest - Seattle Office:

(Temporary Location)
1910 Fairview Ave. E, Seattle WA 98102-3699
(206) 324-9530; Fax (206) 328-5581

FAX TRANSMITTAL

DATE: 8/12/97

TOTAL PAGES SENT: 2

TO: Eileen Brennan

*Copy/fax to Jessica N. Manetta
Aaron V. Kent*

ADDRESS: FD GTI

8/15

FAX #: (510) 370-3991
(972) 341-8366

PHONE #: (510) 370-3990
(972) 341-8251

FROM: Brian Van Yserloo

TEG NORTHWEST, INC. - Seattle Office

COMMENTS: Results for PCB, 418.1 and TPH-D/G/BTEX

*1069
Seaus Redmond*

CLIENT: Fluor Daniel GTI
 ADDRESS: 757 Arnold Dr. Martinez, CA
 PHONE: (510) 370-3390 FAX:
 CLIENT PROJECT #: PROJECT MANAGER: Mike Brennan

DATE: 8/17/97 PAGE 1 OF 1
 PROJECT NAME: Sears 1067
 LOCATION: Redmond WA
 COLLECTOR: Arven & Vandy

| Sample Number | Depth | Time | Sample Type | Container Type | ANALYSES | VOA 801/8010 | VOA 602/8020 | VOA 624/8240 | Semi Vol 625/8270 | TPH 418.1 | TPH 8015 (gasoline) | TPH 8015 (diesel) | TPH 8015 (g & d) | PEST/PCBs 8080 | HEX CHROME | ORGANIC LEAD | TOTAL LEAD | PH | ASBESTOS | FIELD NOTES | Total Number of Containers | Note Number |
|---------------|-------|------|-------------|----------------|----------|--------------|--------------|--------------|-------------------|-----------|---------------------|-------------------|------------------|----------------|------------|--------------|------------|----|----------|-------------|----------------------------|-------------|
| 1 | 2' | 1300 | Soil | 402 Glass | | | | | | | | | | | | | | | | | | |
| 2 | 2' | 1340 | | | | | | | | | | | | | | | | | | | | |
| 3 | 8' | 1335 | | | | | | | | | | | | | | | | | | | | |
| 4 | 1.5' | 1325 | | | | | | | | | | | | | | | | | | | | |
| 5 | 8.5' | 2240 | | | | | | | | | | | | | | | | | | | | |
| 6 | 3' | 2245 | | | | | | | | | | | | | | | | | | | | |
| 7 | 8' | 2305 | | | | | | | | | | | | | | | | | | | | |
| 8 | 8' | 2315 | | | | | | | | | | | | | | | | | | | | |
| 9 | 4.5' | 2335 | | | | | | | | | | | | | | | | | | | | |
| 10 | 8' | 0050 | | | | | | | | | | | | | | | | | | | | |
| 11 | 8.5' | 0100 | | | | | | | | | | | | | | | | | | | | |
| 12 | 8' | 0320 | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY (Signature) Arven S. Vandy DATE/TIME 8/17/97 0400 RECEIVED BY (Signature) Brian Van Hulse DATE/TIME 8/17/97 0400

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS
☐ TEG DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT
 TOTAL NUMBER OF CONTAINERS
 CHAIN OF CUSTODY SEALS Y/N/A
 SEALS INTACT? Y/N/A
 RECEIVED GOOD COND./COLD
 NOTES:

AUG-12-1997 16:00 FROM HART CROWSER

TO

15103703991

P.02

PRELIMINARY DATA-
NOT VALIDATED

Project: SEARS 1060 Redmond, WA

Project:

Printed: 08/12/97 12:39 PM

Client: GTI

Lab: TEGANW Seattle

Lab Job #: S70608-2

Spreadsheet File Name: S70608-2.wk1

| Compound | LCS | A2-8' | Dupl A2-8' | RPD A2-8' | E1-1.5' | Dupl E1-1.5' | RPD E1-1.5' | SOIL FILE | Dupl SOIL FILE |
|--------------------------------|----------|-------|---------------|--------------|---------|-----------------|----------------|-----------|-------------------|
| Matrix | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| % Moisture | 08/08/97 | 9% | 9% | 9% | 8% | 8% | 8% | 5% | 5% |
| TPH-D in mg/kg or mg/L (ppm) | | | | | | | | | |
| TPH-D, C12 > C24, (Diesel) | 20 U | 48 | 45 | 9% | | | | | |
| TPH-D, C24 > C37, (Oil) | 50 U | 480 | 470 | 2% | | | | | |
| 2-Fluorobiphenyl (surf #1) | 78% | 93% | | 96% | | | | | |
| o-Terphenyl (surf #2) | 88% | 93% | | 97% | | | | | |
| Hexacosane - nC26 (surf #3) | 90% | 90% | | 89% | | | | | |
| 8020 VOA, µg/kg or µg/L (ppb) | | | | | | | | | |
| Benzene | 50 U | 50 U | 50 U | | | | | | |
| Toluene | 50 U | 50 U | 50 U | | | | | | |
| Ethylbenzene | 50 U | 50 U | 50 U | | | | | | |
| Xylenes | 50 U | 50 U | 50 U | | | | | | |
| a,a,a-Trifluorotoluene (surf) | 98% | 92% | | 96% | | | | | |
| 1,2-Bromofluorobenzene (surf) | 111% | 100% | | 105% | | | | | |
| TPH-418.1, mg/kg or mg/L (ppm) | | | | | | | | | |
| TPH (418.1) | 50 U | 92% | | | | | | 8,400 | 9,300 |
| PCB in µg/kg or µg/L (ppb) | | | | | | | | | |
| A1016 | 200 U | 200 U | 200 U | | | | | | |
| A1221 | 500 U | 500 U | 500 U | | | | | | |
| A1232 | 500 U | 500 U | 500 U | | | | | | |
| A1242 | 200 U | 200 U | 200 U | | | | | | |
| A1248 | 200 U | 200 U | 200 U | | | | | | |
| A1254 | 200 U | 200 U | 200 U | | | | | | |
| A1260 | 200 U | 200 U | 200 U | | | | | | |
| Tetrachloro-m-xylene (surf) | 90% | 102% | 108% | 100% | | | | | |
| Decachlorobiphenyl (surf) | 88% | 96% | 82% | 85% | | | | | |



TRANSGLOBAL
ENVIRONMENTAL
GEOSCIENCES

CHAIN-OF-CUSTODY RECORD

CLIENT: Fluor Daniel GTI

ADDRESS: 757 Arnold Dr. Martinez, CA

PHONE: (510) 370-3990 FAX: _____

DATE: 8/8/97 PAGE 1 OF 04

PROJECT NAME: Seers 1069

LOCATION: Bedford, WA

CLIENT PROJECT #: _____ PROJECT MANAGER: Eileen Brown

COLLECTOR: Aaron S. Vernick

DATE OF COLLECTION: 8/14/97

| Sample Number | Depth | Time | Sample Type | Container Type | ANALYSES | VOA 801/8010 | VOA 802/8020 | VOA 824/8240 | Send Vol 825/8270 | TPH 418.1 | TPH 8015 (leadings) | TPH 8015 (leaves) | PAH 610/8100 | PESTPORA 8080 | HEX CHROME | ORGANIC LEAD | TOTAL LEAD | PH | ASBESTOS | Total Number of Containers | Laboratory Note Number | |
|---------------|-------|------|-------------|----------------|----------|--------------|--------------|--------------|-------------------|-----------|---------------------|-------------------|--------------|---------------|------------|--------------|------------|----|----------|----------------------------|------------------------|--|
| E1 | 1.5 | 1325 | Soil | 4oz. Glass | | | | | | | | | | | | | | | | | 1 | |

FIELD NOTES

Fax re: Hs +
Aaron Vernick at
(206) 251-8452

RELINQUISHED BY (Signature) Aaron S. Vernick DATE/TIME 8/14/97 0400

RECEIVED BY (Signature) Eileen Brown DATE/TIME 8/14/97 0400

RELINQUISHED BY (Signature) _____ DATE/TIME _____

RECEIVED BY (Signature) _____ DATE/TIME _____

RELINQUISHED BY (Signature) _____ DATE/TIME _____

RECEIVED BY (Signature) _____ DATE/TIME _____

SAMPLE DISPOSAL INSTRUCTIONS

UNITED DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

LABORATORY NOTES:

| SAMPLE RECEIPT |
|------------------------------|
| TOTAL NUMBER OF CONTAINERS |
| CHAIN OF CUSTODY SEALS Y/N/A |
| SEALS INTACT? Y/N/A |
| RECEIVED GOOD COND/COLD |
| NOTES: |

CHAIN-OF-CUSTODY RECOI

CLIENT: Fluor Daniel GTI
ADDRESS: 757 Arnold Dr. Martinez, CA
PHONE: (510) 370-3950 FAX: _____
CLIENT PROJECT #: _____ PROJECT MANAGER: Eileen Brennan

DATE: 8/8/97 PAGE 1 OF 04
PROJECT NAME: Scars 1069
LOCATION: Redmond, WA
COLLECTOR: Avram S. Vernik DATE OF COLLECTION: 8/6

[illegible]

| | | | | |
|--|-----------|-------------------------|-----------|------------------|
| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) | DATE/TIME | SAMPLE |
| <i>Yaron S. Veinich</i> | 8/19/2000 | <i>Brian Van Helden</i> | 8/19/97 | TOTAL NUMBER |
| RELINQUISHED BY (Signature) | DATE/TIME | RECEIVED BY (Signature) | DATE/TIME | CHAIN OF CUSTODY |
| | | | | SEALS INTACT? Y |
| | | | | RECEIVED GOOD |
| SAMPLE DISPOSAL INSTRUCTIONS | | | | NOTES: |
| <input checked="" type="checkbox"/> REG DISPOSAL @ \$2.00 each <input type="checkbox"/> Return <input type="checkbox"/> Pickup | | | | |

| | | | | | |
|-------------------|---------------|---------|-------------|------------|---|
| Post-Net Fax Note | 7671 | Date | 9-8-99 | # of pages | 1 |
| To | Aaron Vernick | From | Sherry | | |
| Co./Dept. | FDG-TF | Co. | TEANU | | |
| Phone # | | Phone # | 360-4574690 | | |
| Fax # | 206-251-8452 | Fax # | | | |

COPY

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

7110 38th Drive SE
Lacey, Washington 98503

Mobile Environmental Laboratories
Environmental Sampling Services

Telephone: 360-459-4670
Fax: 360-459-3432

August 20, 1997

RECEIVED

AUG 25 1997

Eileen Brennan
Fluor Daniel GTI
757 Arnold Drive
Suite D
Martinez, CA 94553

Re: Purchase Order No. 043155

Dear Ms. Brennan:

Please find enclosed an analytical report for the Sears Store No. 1069 located at 2200 148th Avenue Northeast in Redmond, Washington. Soil samples were analyzed on August 8, 1997, for Heavy Petroleum Hydrocarbons by WTPH-418.1, BTEX, Gasoline, Diesel and Oil by EPA Method 8020, WTPH-G and WTPH-Dx/Dx Extended, and Polychlorinated Biphenyls (PCBs) by EPA Method 8080.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to Fluor Daniel GTI for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec

Michael A. Korosec
President

FILE COPY

☐ Project Management ☐ Reports
☐ Correspondence ☐ Safety
☐ Permits/Licenses ☒ Data
☐ Other 1069 LIFT

cc: JN + AV 8/26

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/-accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4° C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

TPH-Gasoline, TPH-Diesel

(Gasoline and/or Diesel, Modified EPA 8015, WTPH-Gx and WTPH-Dx)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. A duplicate sample is run at a rate of 1 per 10 samples (or a matrix spike sample is prepared and analyzed). At least 1 method blank is run per 10 samples analyzed.

Purgeable Volatile Aromatics
(BTEX, EPA 602/8020)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

TPH-Heavy Fuel Hydrocarbons
(EPA 418.1, WTPH-418.1)

Calibration plot values must produce a best fit line, with known values deviating from the plot by less than 10%. Prior to sample run, a blank, a calibration standard, and a method blank are run. One method blank per 10 samples is prepared. A sample duplicate is prepared for each 10 samples to be run per day.

PCBs, Polychlorinated Biphenyls
(EPA 8080, 8081)

A method blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The check standard may be run at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. Samples which measure outside of the linear range of the calibration curve must be carefully diluted to fall into the upper range of the linear calibration. A duplicate sample is run at a rate of 1 per 10 samples. At least 1 method blank is run per 20 samples analyzed.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

SEARS #1069 PROJECT
Redmond, Washington
Fluor Daniel GTI

Heavy Petroleum Hydrocarbons in soil by WTPH-418.1

| Sample Number | Date | TPH mg/kg |
|------------------------|----------|--------------|
| Meth. Blank | 08/08/97 | nd |
| LCS | 08/08/97 | 92% |
| Soil Pile | 08/08/97 | 8400 |
| Soil Pile Dup | 08/08/97 | 9300 |
| Method Detection Limit | | 50 |

"nd" Indicates not detected at the listed detection limit.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

SEARS #1069 PROJECT
Redmond, Washington
Fluor Daniel GTI

BTEX, Gasoline, Diesel and Oil in Soil by EPA Method 8020, WTPH-G & WTPH-Dx/Dx-Extended

| Sample no. | MDL | Meth Blk | LCS | A2-8' | A2-8' Dup |
|--|-------|-------------|----------|----------|--------------|
| Date Analyzed | mg/kg | 08/08/97 | 08/08/97 | 08/08/97 | 08/08/97 |
| Benzene | 0.05 | nd | | nd | nd |
| Toluene | 0.05 | nd | | nd | nd |
| Ethylbenzene | 0.05 | nd | | nd | nd |
| Xylenes | 0.05 | nd | | nd | nd |
| a,a,a-Trifluorotoluene (surr #1) | | 98% | | 92% | 96% |
| 1,2-Bromofluorobenzene (surr #2) | | 111% | | 100% | 105% |
| Date Analyzed | | 08/08/97 | 08/08/97 | 08/08/97 | 08/08/97 |
| Diesel (C12-C24) | 20 | nd | 95% | 49 | 45 |
| Oil (C24-C37) | 50 | nd | | 480 | 470 |
| 2-Fluorobiphenyl | | 78% | C | 93% | 96% |
| o-Terphenyl | | 88% | C | 93% | 97% |
| Hexacosane-nC26 | | 90% | 102% | 90% | 89% |
| "nd" Indicates not detected at the listed detection limit. | | | | | |
| "C" Coelution with Sample Peaks. | | | | | |

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

SEARS #1069 PROJECT
Redmond, Washington
Fluor Daniel GTI

Polychlorinated Biphenyls (PCBs) in Soils (EPA Method 8080)

| Sample Number | Date Analyzed | Recovery Surr #1(%) | Recovery Surr #2(%) | 1221 mg/kg | 1232 mg/kg | 1242 mg/kg | 1248 mg/kg | 1254 mg/kg | 1260 mg/kg | Total mg/kg |
|-----------------|---------------|---------------------|---------------------|------------|------------|------------|------------|------------|------------|-------------|
| Meth. Blank | 08/08/97 | 76% | 107% | nd | nd | nd | nd | nd | nd | nd |
| LCS | 08/08/97 | 101% | 113% | nd | nd | nd | nd | 107% | nd | 107% |
| ERA PE | 08/08/97 | 93% | 117% | nd | nd | nd | nd | 103% | nd | 103% |
| E1-1.5' | 08/08/97 | 102% | 97% | nd | nd | nd | nd | nd | nd | nd |
| E1-1.5'Dup | 08/08/97 | 85% | 100% | nd | nd | nd | nd | nd | nd | nd |
| Detection Limit | | | | 0.50 | 0.50 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference peaks prevent determination.

Surrogate #1 Tetrachloro-m-xylene

Surrogate #2 Decachlorobiphenyl

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

SEARS #1069 PROJECT

Redmond, Washington

Fluor Daniel GTI

Heavy Petroleum Hydrocarbons in soil by WTPH-418.1

| Sample Number | Date | TPH mg/kg |
|------------------------|----------|--------------|
| Meth. Blank | 08/08/97 | nd |
| LCS | 08/08/97 | 92% |
| Soil Pile | 08/08/97 | 8400 |
| Soil Pile Dup | 08/08/97 | 9300 |
| Method Detection Limit | | 50 |

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TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

SEARS #1069 PROJECT
Redmond, Washington
Fluor Daniel GTI

BTEX, Gasoline, Diesel and Oil in Soil by EPA Method 8020, WTPH-G & WTPH-Dx/Dx-Extended

| Sample no. | MDL | Meth Blk | LCS | A2-8' | A2-8' Dup |
|--|-------|-------------|----------|----------|--------------|
| Date Analyzed | mg/kg | 08/08/97 | 08/08/97 | 08/08/97 | 08/08/97 |
| Benzene | 0.05 | nd | | nd | nd |
| Toluene | 0.05 | nd | | nd | nd |
| Ethylbenzene | 0.05 | nd | | nd | nd |
| Xylenes | 0.05 | nd | | nd | nd |
| a,a,a-Trifluorotoluene (surr #1) | | 98% | | 92% | 96% |
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| Date Analyzed | | 08/08/97 | 08/08/97 | 08/08/97 | 08/08/97 |
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TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

SEARS #1069 PROJECT
Redmond, Washington
Fluor Daniel GTI

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|-----------------|---------------|---------------------|---------------------|------------|------------|------------|------------|------------|------------|-------------|
| Meth. Blank | 08/08/97 | 76% | 107% | nd | nd | nd | nd | nd | nd | nd |
| LCS | 08/08/97 | 101% | 113% | nd | nd | nd | nd | 107% | nd | 107% |
| ERA PE | 08/08/97 | 93% | 117% | nd | nd | nd | nd | 103% | nd | 103% |
| E1-1.5' | 08/08/97 | 102% | 97% | nd | nd | nd | nd | nd | nd | nd |
| E1-1.5'Dup | 08/08/97 | 85% | 100% | nd | nd | nd | nd | nd | nd | nd |
| Detection Limit | | | | 0.50 | 0.50 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |

"nd" Indicates not detected at the listed detection limits.

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Surrogate #1 Tetrachloro-m-xylene

Surrogate #2 Decachlorobiphenyl

CLIENT: Fluor Daniel GTI

ADDRESS: Marietta, GA

PHONE

FAX:

CLIENT PROJECT #: _____ PROJECT MANAGER: Jessica Nichols

PROJECT MANAGER: Jessica Nichols

DATE: 8/1/57 PAGE 1 OF 1

PROJECT NAME: Scrub 1069

LOCATION: Hedmond, WA

COLLECTOR: *A. J. V.*

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