

19 November 2009

Mr. Jerry Wickham
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RECEIVED

12:35 pm, Nov 23, 2009

Alameda County
Environmental Health

Subject: Transmittal of Technical Report for Ralph Site-WP Dyer, Alameda County Case No. RO0002627

Dear Mr. Wickham:

Please find attached the above-referenced report for the Ralph Site-WP Dyer site in unincorporated Alameda County prepared by BASELINE Environmental Consulting. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,



Chris Dreiman
Northern California Area Manager
enXco Service Corporation – an EDF Energies Nouvelles Company

BASELINE

ENVIRONMENTAL CONSULTING

19 November 2009
Y9371-00.01346

Mr. Jerry Wickham
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Ralph Site-WP Dyer, Alameda County Case No. RO0002627

Dear Mr. Wickham:

This report presents a summary of the transformer insulation oil release associated with wind farm equipment operated by enXco North America (“enXco”) in unincorporated Alameda County (Figure 1). It is our understanding that on 14 June 1999, transformer oil leaked from a transformer that was damaged by a malfunctioning wind turbine. As part of the emergency response, the Alameda County Department of Environmental Health Services (“ACDEHS”) was notified. The affected soil was excavated and off-hauled to Altamont Landfill. Soil samples were collected before and after excavation, which showed that soil containing petroleum hydrocarbons (quantified as “oil and grease”) at up to 10,000 milligrams per kilogram (“mg/kg”) remained in the soil. Further excavation was not viable due to the danger of undermining the structural integrity of the transformer and supporting concrete pad.

In a letter dated 1 September 2006 to FORAS Service Corporation, the predecessor company to enXco, the ACDEHS requested that a technical report be provided to document the site conditions, remedial activities, conclusions regarding current and potential future human health and environmental impacts, and recommends further actions, as appropriate. BASELINE Environmental Consulting (“BASELINE”) has prepared this report on the behalf of enXco to satisfy ACDEHS’s request.

Transformer Insulating Release

The summary of events described below is based on the Emergency Incident Report and Sequence of Events Report and Action Plans (Attachment A) prepared by FORAS. On 14 August 1999, at about 2:30 PM, one of the main electrical breakers for the wind turbine site tripped, indicating an electrical fault. Two technicians with FORAS responded and found that transformer FAXF0112 (“Transformer 112”), which was mounted on a concrete pad, appeared to have had an internal fault and oil was seeping out of the radiator. One of the wind turbine risers, No. 0558, had experienced an electrical malfunction, and the jumper wire had burned on the pothead, which started a fire. The fire was contained by California Department of Forestry using fire trucks, air tankers, helicopters, and other support vehicles. FORAS notified the California Office of Emergency Services, Livermore Fire Department, and the ACDEHS. FORAS also completed a hazardous Waste Emergency Incident Report in accordance with their emergency response procedures.

It was determined that the cause of oil release was a turbine blade falling and striking the transformer's radiator. The turbine blade cracked the radiator allowing the inhibited transformer oil ("insulating oil") to leak out. The transformer lost an estimated 400 gallons of insulating oil, which caused the transformer to overheat and triggered the electrical fault.

At 6:30 PM on 14 June 1999, FORAS mobilized a backhoe in response to the release. The backhoe operator began excavating and placing the impacted soil on a polyurethane tarp. The excavation of soil was halted at 8:00 PM, presumably due to darkness, and resumed the next day. Excavation of the impacted soil was completed on 17 June 1999 and the soil was covered with a tarp. The depth of excavation ranged from 3.5 feet below ground surface ("bgs") around the transformer pad to 2.0 feet bgs to the east. Approximately 70 cubic yards of soil were excavated.

FORAS collected one soil sample of the excavated stockpiled soil on 17 June 1999, identified as "Dyer Transformer 112", and submitted the sample under chain-of-custody protocol to Chromalab, Inc., a California-certified analytical laboratory. Based on guidance from the ACDEHS, FORAS requested the following analysis:

- Total extractable petroleum hydrocarbons ("TEPH") as mineral oil in accordance with U.S. Environmental Protection Agency ("EPA") Test Method 8015M;
- Total oil and grease in accordance with EPA Test Method 5520E; and
- Polychlorinated biphenyls ("PCBs") in accordance with EPA Test Method 8080A.

A copy of the laboratory report is provided as Attachment B. The laboratory reported that the soil contained 23,000 mg/kg TEPH quantified as mineral oil and 22,000 mg/kg quantified as total oil and grease. No PCBs were reported above the laboratory reporting limits. The reporting limit for individual PCB compounds was 0.050 mg/kg, which is below the San Francisco Regional Water Quality Control Board's ("Water Board") most conservative Environmental Screening Level ("ESL") for PCBs (0.22 mg/kg).¹

On 21 June 1999, FORAS collected six confirmation soil samples (Samples #2 through #7) from within the excavation to evaluate the effectiveness of the response action (Figure 2). Samples #5 through #7 were collected near the base of the transformer pad. These soil samples were also submitted to Chromalab under chain-of-custody protocol and were analyzed for the following:

- Total oil and grease in accordance with EPA Test Method 5520E; and
- PCBs in accordance with EPA Test Method 8080A.

A copy of the laboratory report is provided as Attachment B. The laboratory reported that the soil samples contained total oil and grease at concentrations ranging from 96 to 10,000 mg/kg. No PCBs were reported above the laboratory reporting limits of 0.05 mg/kg.

¹ Assuming residential land use where groundwater is a current or potential drinking water source. San Francisco Regional Water Quality Control Board ("Water Board"), 2008, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, May, Table A.

The analytical results were provided to ACDEHS. In a letter dated 29 June 1999, Mr. Larry Seto of the ACDEHS indicated that he had reviewed the laboratory test results and noted that two of the samples, Samples #6 and #7 contained petroleum hydrocarbons quantified as total oil and grease, at 6,500 and 10,000 mg/kg, respectively. The correspondence indicates that Mr. Seto was informed that the location where these soil samples were collected could not be over-excavated because further excavation would compromise the structural integrity of the transformer pad. Mr. Seto authorized the backfill of the excavations with clean fill material. According to the Emergency Incident Report prepared by Mr. Paul Smith of FORAS on 21 June 1999 (Attachment A), excavated soil was disposed of at Altamont Landfill.

Site Description

The release site is located within the Altamont Hills, northeast of Livermore, California in unincorporated Alameda County. The elevation of the site is approximately 1,000 feet above mean sea level. This area, known as the Altamont Upland physiographic area, is part of the larger Livermore drainage unit, which occupies the northern and eastern portion of the Alameda Creek watershed. The Altamont upland includes rolling, grass-covered hills and is largely underlain by non-water bearing sandstone, siltstone, and shale of the Great Valley Sequence.^{2,3} The term “non-water bearing” indicates that the groundwater in this formation is insufficient in quality and/or quantity for domestic water production.

Surface water in the Altamont Upland area flows from the ridges down through the valleys and discharges into local drainages. These natural drainages, which are seasonal, ultimately drain toward the San Francisco Bay, when surface water flow is sufficient.⁴

Local hydrology data were obtained from groundwater monitoring conducted at Altamont Landfill, which is located just to the south of the insulating oil release site (Figure 3). The depth to groundwater at the insulating oil release site is estimated to be approximately 100 feet bgs based on publicly available data obtained on the Water Resources Board’s Geotracker website. Altamont Landfill has a groundwater monitoring well (B-8, Figure 4) that is located approximately 2,000 feet southwest of the insulating oil release site. Based on the elevation contours from the U.S. Geological Survey Byron Hot Springs Quadrangle map, the elevation of groundwater well B-8 and the ground surface at the insulating oil release site are similar; around 980 to 1,000 feet above mean sea level. The Geotracker website reports that the depth to groundwater measurements in groundwater well B-8 have ranged from 112.68 to 114.72 feet.⁵

The nearest residential receptors are located along Dyer Road to the east, over a mile from the insulating oil release site. The nearest commercial receptor location is Altamont Landfill; the landfill’s office buildings are located approximately one mile south of the insulating oil release

² California Department of Water Resources, 1966, Livermore and Sunol Valleys, Evaluation of Ground Water Resources, Bulletin No. 118-2, August.

³ Graymer, R.W., et al., 1966, Preliminary Geologic Map Emphasizing Bedrock Formations in Alameda County, California.

⁴ Information Sheet, Order No. R5-2009-____, Waste Management Of Alameda County, Inc., Altamont Landfill And Resource Recovery Facility, Alameda County.

⁵ Geotracker Website: <http://geotracker.swrcb.ca.gov/>; Altamont Lf/Resource Recovery (L10005834311), 10840 Altamont Pass, Livermore, Ca 94550.

site. BASELINE requested a nearby well search from Alameda County Zone 7 Water Agency to determine if there were any water supply wells within one-mile of the insulating oil release site. The survey indicated the nearest water supply wells were east of Dyer Road, over a mile from the insulating oil release site (Attachment C).

Inhibited Transformer Oil

Inhibited transformer oil was used in Transformer 112 as a coolant and was released when the radiator was damaged. The oil used in the transformer was manufactured by Pennzoil Products Company and is described in the attached Material Safety Data Sheet (“MSDS”) as a light naphthenic hydrotreated distillate (Attachment D). The National Fire Protection Agency has rated this product’s health risk as slight. The product is not known to contain any SARA Title III, Section 313⁶ reportable chemicals at or greater than 1.0 percent for non-carcinogens and 0.1 percent for carcinogens.

The composition of mineral oils varies depending on the crude oil source, the refining process and the additives present. The primary human health hazard is from inhalation or ingestion of mineral oil mists. Epidemiological studies of laboratory animals indicates that there is significant evidence that mildly refined mineral oils are carcinogenic, but there is no evidence that severely refined mineral oils are carcinogenic.⁷ The information contained in the MSDS states that “*The international Agency for Research on Cancer has concluded that highly refined mineral oils are Group 3 Substances, not classifiable as to their carcinogenicity to humans.*” The information provided in the MSDS indicates the oil emulsifies in water.

Field Reconnaissance

On 3 November 2009, Mr. James McCarty, a registered professional engineer with BASELINE conducted a field visit to the release site with Mr. Chris Dreiman of enXco. Mr. McCarty did not observe any staining on the surface due to the insulating oil release that occurred in 1999. Transformer 112 is mounted on a concrete pad with the radiator located on the south site (Figure 5). The concrete pad is constructed as a “slab on grade,” i.e., does not have a subsurface foundation on any significance. The transformer is located in close proximity to a change in grade (Figure 6), which accounts for the release pattern as shown in Figure 2. The change in grade would have caused oil to flow away from the transformer rather than pooling immediately around the transformer. Subsurface conduits containing high voltage lines were observed to enter the transformer from the east. Mr. Dreiman indicated that the high voltage lines conducted 21,000 volts of electricity.

Conclusion

The release of the transformer insulating oil was successfully contained, primarily by the rapid initial response. Approximately 70 cubic yards of soil were excavated, which sample analysis

⁶ Section 313 Emergency Planning and Community Right-to-Know Act, which is also known as Title III of the Superfund Amendments and Reauthorization Act (“SARA”).

⁷ World Health Organization International Agency For Research On Cancer, 1998, IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 33, Polynuclear Aromatic Hydrocarbons, Part 2, Carbon Blacks, Mineral Oils (Lubricant Base Oils and Derived Products) and Some Nitroarenes, Summary of Data Reported and Evaluation, 20 April.

Mr. Jerry Wickham
19 November 2009
Page 5

indicated contained petroleum hydrocarbons quantified as oil and grease at a concentration of 22,000 mg/kg. Confirmation sampling indicated that the concentrations remaining in the soil ranged from 69 to 10,000 mg/kg. The highest concentrations were observed next to the concrete transformer pad and further excavation was not performed in order to maintain the structural integrity of the pad. In addition, underground high voltage electrical lines would present a challenge for performing further subsurface investigations.

The geology at the site consists of shale and sandstone, which are not considered water-bearing units, i.e., will not produce water in sufficient quantities for domestic consumption. Groundwater level data from a nearby well at Altamont Landfill indicate groundwater is present approximately 100 feet below the release site elevation. There are no nearby residential receptors, commercial receptors, or surface waters.

The transformer oil is a highly refined mineral oil, which is not considered a carcinogenic substance and is not characterized as highly toxic. It is insoluble in water, therefore, unlikely to migrate considerable distances from the original release site. The nearest receptors are approximately one mile away and there are no Zone 7 Water Agency-permitted water supply wells located within one mile.

Recommendation

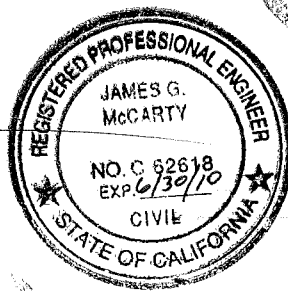
Based on the summary of the transformer oil release and the available information on both the site conditions and the nature of the contaminant released, this release does not appear to represent a human health or environmental risk. Therefore, it is BASELINE's opinion that this release site is an appropriate candidate for ACDEHS consideration as a low-risk closure.

Should you have any questions or need additional information regarding the data presented in this letter, please do not hesitate to contact us at your convenience.

Sincerely,



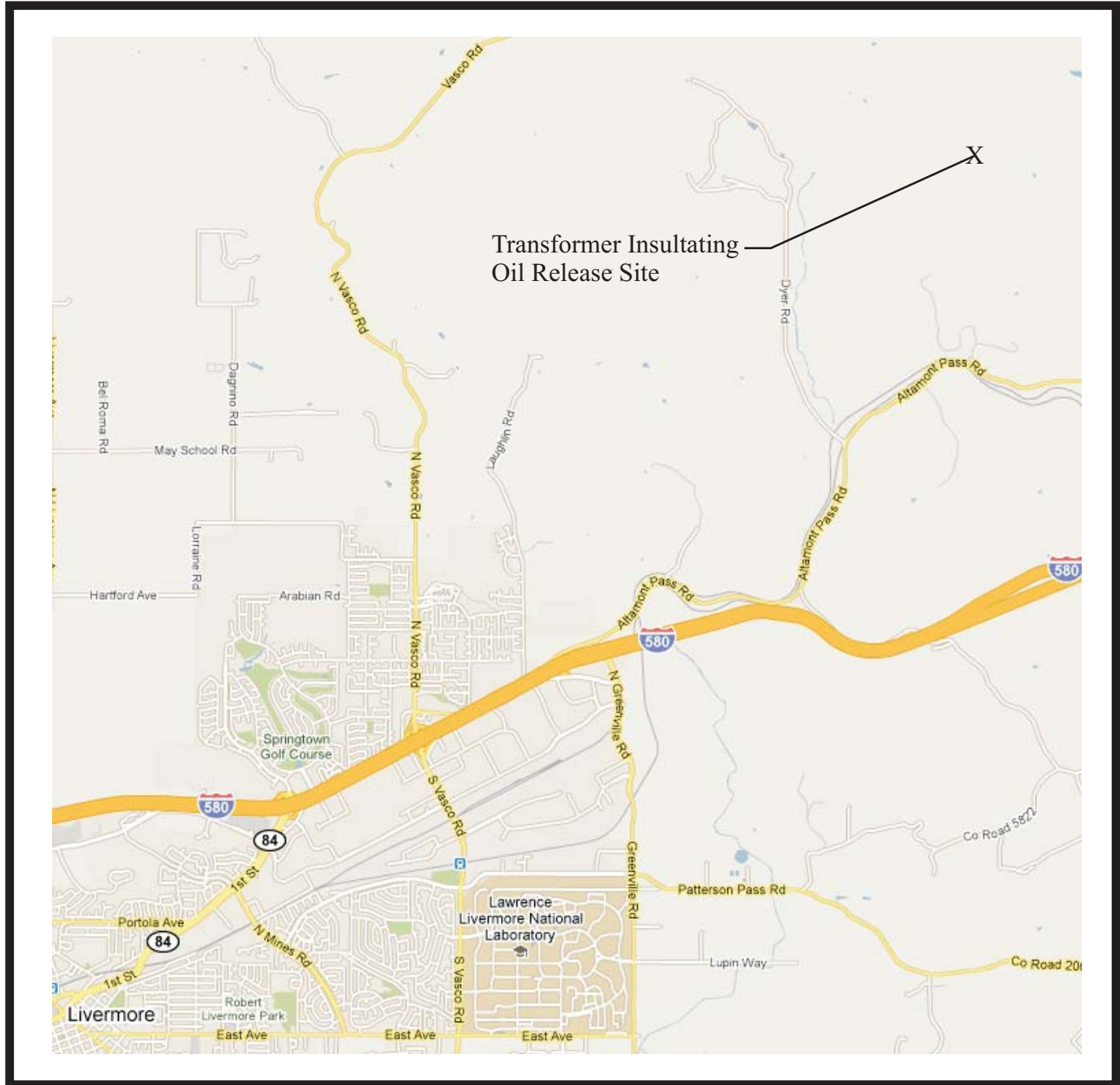
James McCarty, P.E.
Senior Engineer



cc: Chris Dreiman, enXco North America

Attachments: Figures 1 through 6
Attachments A through D

FIGURES

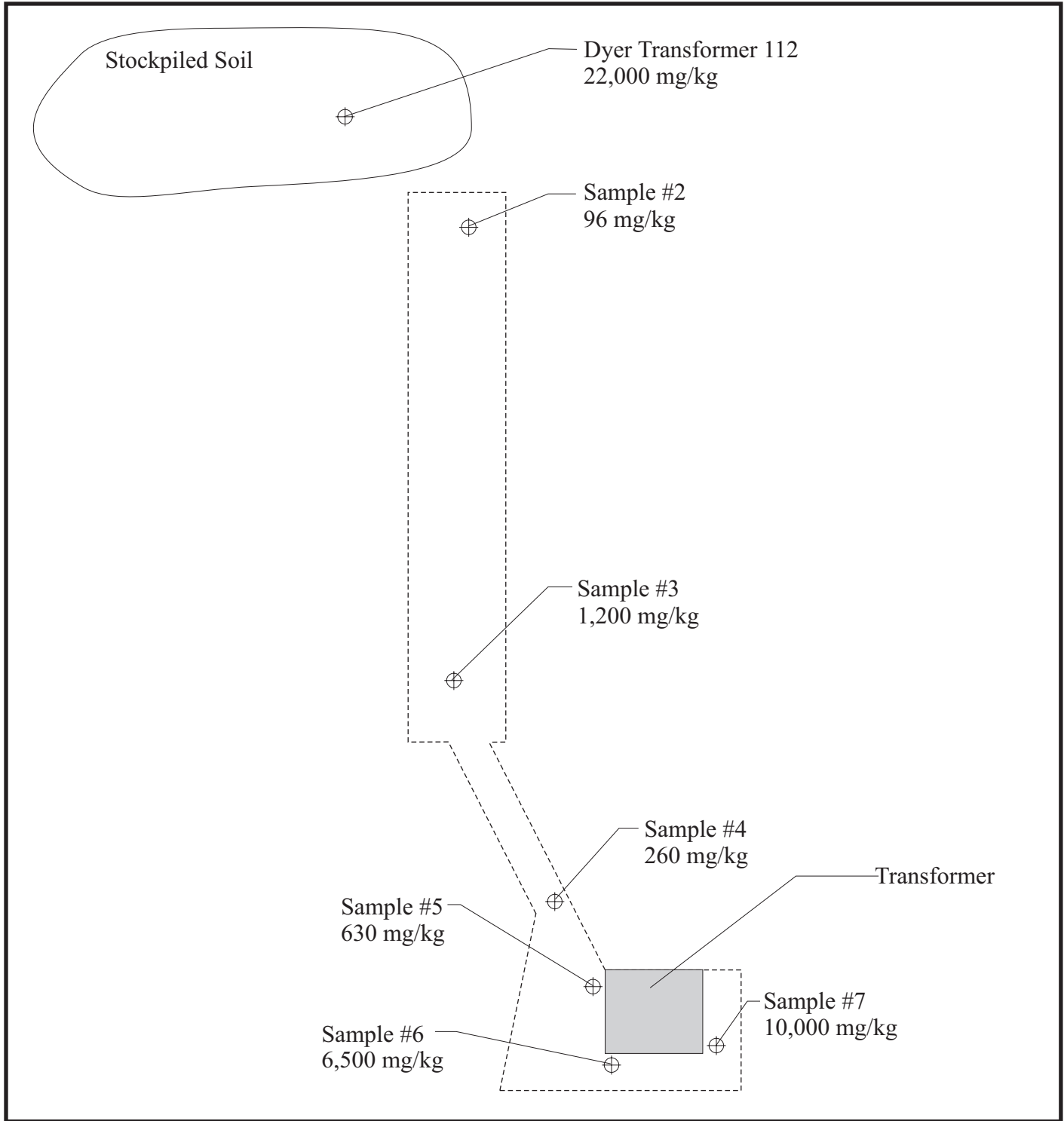


**Transformer Insulating Oil Release Site
enXco North America
Alameda County, California**



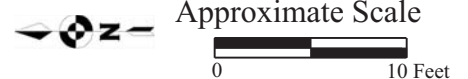
SOIL EXCAVATION and SAMPLE LOCATIONS

Figure 2



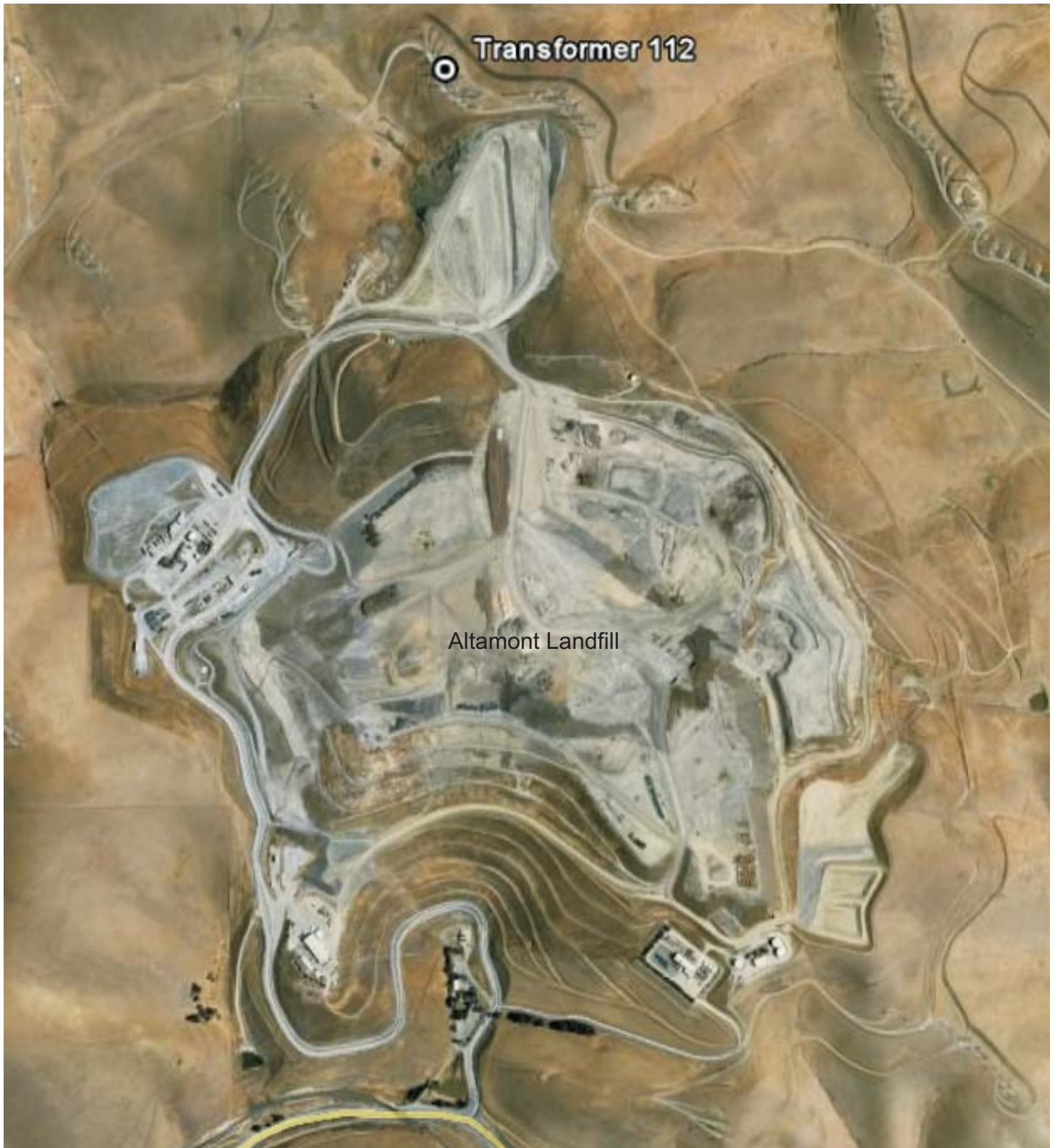
Legend

- Limits of Excavation
- ⊕ Soil Sample Location
- ⊕ Sample #3 260 mg/kg Total oil and grease concentration in milligrams per kilogram



Transformer Insulating Oil Release Site
enXco North America
Alameda County, California





**Transformer Insulating Oil Release Site
enXco North America
Alameda County, California**



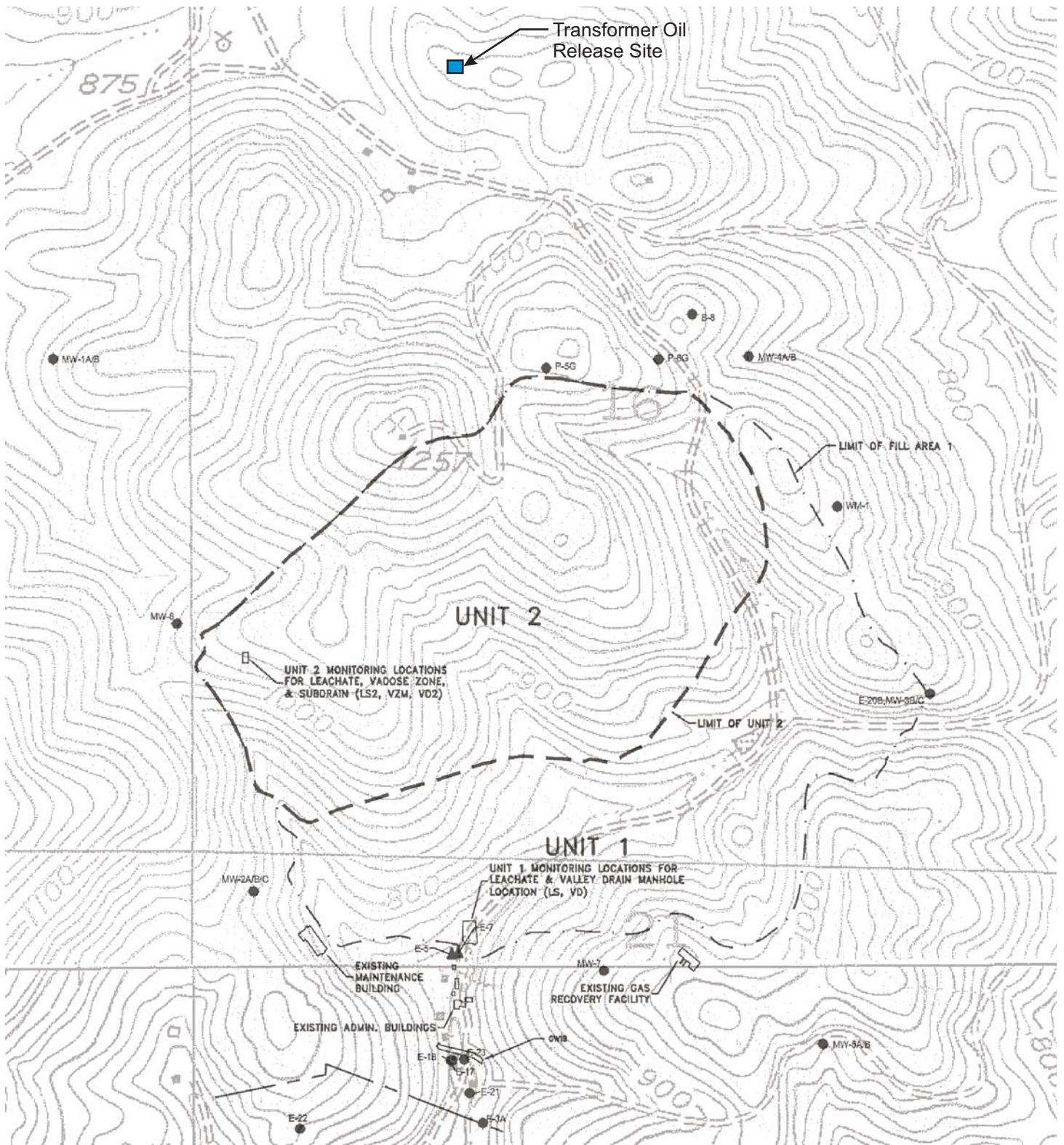
Approximate Scale



BASELINE

TRANSFORMER RELEASE SITE AND ALTAMONT GROUNDWATER MONITORING WELLS

Figure 4



Map Sources:
 USGS, Byron Hot Springs Quadrangle
 SCS, Engineers, Altamont Landfill Resource and Recovery Facility

Transformer Insulating Oil Release Site enXco North America Alameda County, California

Y9371-00.01346.Fig4.cdr 11/11/09



Approximate Scale



BASELINE E



Transformer 112, view looking west. Note the radiator which contains the transformer insulating oil on the right hand side.



Transformer 112, view looking west. Note the grade change which resulted in the oil flowing east and pooling in the flat area below.

ATTACHMENT A

EMERGENCY INCIDENT REPORT
SEQUENCE OF EVENTS REPORT AND ACTION PLANS

AUG 22-97 10:30A Briar Ward, Zurich
FROM IRLA/EDA CO ENV HQ2-OPS 510 337 9335

510 774-2297 P.02
1997, 13 15:25 0100 P.02/05

Chapter 6: Managing Hazardous Wastes On-Site

Part 3
Emergency Incident Report
(Form HWM 6-3 (3))

The following report is hereby submitted to the California Department of Toxic Substances Control within 15 days after an emergency involving hazardous waste pursuant to 21 CCR 94624.5(f).

1. Name of Facility: FORAS Service Corporation - WP Dyer Site
Address of Facility: 4595 Dyer Road, Gate #17
Telephone Number: (925) 443-0231

2. Name of Owner/Operator: FORAS Service Corporation
Address: 3000 East Grantline Road Tracy, CA, 95396
Telephone Number: (209) 836-1921

3. Name of Person Calling: Paul A. Smith
Title: Area Manager
Return Telephone Number: (925) 443-0235 or (209) 217-8248

4. Description of Hazardous Waste Released: Transformer Oil

5. Quantity of Material Released: Approximately 400 gallons pounds/gallons

6. Description of Emergency (attach additional sheets as necessary): Transformer was damaged and the oil released to the ground.

7. Date and Time of Incident: June 14, 1999, 14:35 AM (M)

8. Extent of Injuries: No persons were injured

9. Assessment of Actual or Potential Hazards to Human Health or the Environment (attach additional sheets as necessary):
The release was direct to ground. No water was involved in the release. There is no health hazards to humans or the environment. The soil will be removed.

Aug. 22-97 10:30A Briar Ward, Zurich
FROM ALAMEDA CO EMS HQ-OPS 510 337 9335

510 F34-2297
1997 -13 15:25

P.03
0150 P.03/05

Chapter 6: Managing Hazardous Wastes On-Site

A

10. Disposition of Material Recovered from the Incident (attach additional sheets as necessary):

The soil is being removed and sent to the
Attament Landfill.

11. Quantity of Material Recovered from the Incident:

majority of

12. Emergency Action Taken During the Incident:

The contaminated soil was removed and placed on a polyethylene tarp within one day of the incident to minimize spread of contaminated soil. Remaining contaminated soil removed (3) days after spill.

13. Agencies Notified:

| Agency | Notification Time | Person Contacted |
|---|-------------------|-----------------------------|
| California Office of Emergency Services | 6/14/99 - 17:25 | Bill Pennington |
| County of Alameda | 6/14/99 - 17:45 | left message with Rebleston |
| County of Alameda Department of Environmental Health | 6/15/99 - 08:35 | Thomas Peacock |

14. Agencies Responding:

| Agency | Notification Time | Response Time |
|---------------------------------|-------------------|---------------|
| County of Alameda Larry Seto | 6/15/99 - 13:25 | 20:00 HRS. |
| | | |
| | | |

Respectfully submitted,

By: Paul A. Smith Title: Area Manager

Signature: Paul A. Smith Date: 6/21/99

Sequence Of Events Report and Action Plans

Site: RALPH SITE-WP DYER, 4595 DYER ROAD GATE #17

Date Of Occurrence: 8/14/99

Description Of Event: RALPH TRANSFORMER (RAXF0112) Oil Spill

Interconnecting Utility: PG&E

Technician: Paul Smith (FORAS), Tom Ryder (FORAS)

Partnership affected: WPP 90, WPP 92

Time Of Occurrence

| | |
|-------|--|
| 18:30 | GRS and FORAS (Paul Smith) met with the Fire Department. Paul explained that the turbine blade had fallen and struck the transformer radiators causing them to crack. Oil seeping out of the cracks. Transformer loosing oil to the point of excessive heating and eventually faulting. |
| 20:00 | Stopped soil excavation work for day. |
| 8:35 | Called County of Alameda, Department of Environmental Health, left message with Thomas Peacock stating facts of spill, control #992535 issued from (OES) and phone # 1 (925) 443-0235 to return call. |
| 8:50 | Contacted Tom Kelley at GRS and requested he send out technicians to locate high-voltage and communication cables underground. Requested GRS to determine if they have a spare 1000 KVA transformer to sell. |
| 13:25 | Received call from Thomas Peacock County of Alameda, Department of Environmental Health. Thomas instructed us on requirements for sequence of events report with action plans and Emergency Incident Report (HWM 6-2 (3)). Additionally a check for \$500 made out to County of Alameda must be sent out to cover cost of overseeing spill. County will review report and provide further direction. |
| 14:30 | Received call from Larry Seto at County of Alameda, Department of Environmental Health. Larry stated he will be contact person for County of Alameda and will be reviewing our action plan and providing direction. |
| 13:45 | Called Ken Lewis at Altamont Landfill Resources (Landowner) to notify of spill on property. No contact. Left message. |
| 14:00 | Dan Jess continued removal of contaminated soil onto polyurethane tarp. |
| 14:10 | Contacted Stan Warner at Contra Costa Electric to come to site and survey damage. Will arrive Friday June 18th at 0800. |
| 14:30 | Took soil sample #1 (excavated contaminated soil) to Chromalab for testing per Alameda County requirements (TEPH, oil and grease, PCB's) |
| 15:00 | Removed transformer RAXF0112 from foundation and transported to Dyer shop area. |
| 18:30 | Dan Jess completed removal of contaminated soil around transformer RAXF0112. Covered soil pile with tarp. |

8/22/99

Sequence Of Events Report and Action PlansSite: RALPH SITE-WP DYER, 4595 DYER ROAD GATE #17Date Of Occurrence: 6/14/99Description Of Event: RALPH TRANSFORMER (RAXF0112) Oil SpillInterconnecting Utility: PG&ETechnician: Paul Smith (FORAS), Tom Ryder (FORAS)Partnership affected: WPP 90, WPP 92**Time Of Occurrence**

| | |
|---------|---|
| 7:30 | Called Ken Lewis at Altamont Landfill Resources (Landowner) to notify of spill on property. No contact. Left message. |
| 8:00 | Met with Stan Warner of Contra Costa Electric to survey electrical damage and develop plan for repair. CCE will be on site Monday morning to start repairs. |
| 8:00 | Contra Costa Electric on site starting electrical repairs. John Gandolfo on site performing soil excavation for cable repair. |
| 10:30 | Took soil samples # 2,3,4,5,6,7 (excavated area) to Chromalab for testing per Alameda County requirements (TEPH, oil and grease, PCB's). |
| 16:30 | Faxed Sequence of Events Report and Action Plans to Larry Seto at County of Alameda (510) 337-9335. |
| 6/25/99 | Verify through Alameda County, acceptable levels of contamination that can be left in ground at spill site. |
| 6/25/99 | Submit Emergency Incident Report (Form HWM 8-2[3]) to DTSC. |
| 6/25/99 | Send soil sample test results to Alameda County (Larry Seto) for review and permission to proceed with clean-up. |
| 6/25/99 | Identify Waste Disposal facility and transportation method to dispose of contaminated soil. |
| 6/30/99 | Complete and submit waste profile to Waste Disposal facility and obtain permission to dispose. |
| 6/30/99 | Dispose of contaminated soil at designated Waste Disposal facility. |
| 6/30/99 | Backfill and compact excavated area with clean soil. |

6/22/99

ATTACHMENT B
LABORATORY REPORTS

JUN. -24' 99(THU) 17:46 CHROMALAB, INC.

TEL: 510 484 1096

P. 001

Submission #: 1999-06-0255

CHROMALAB, INC.

Environmental Services (SES)

Date: June 24, 1999

Foras Service
1000 East Grant Line Road
Tracy, CA 95378

Attn.: Mr. Paul A Smith

Project: Foras WPP

Dear Mr. Smith,

Attached is our report for your samples received on Thursday June 17, 1999.
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after July 17, 1999 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

Sincerely,

Gary Cook for
Surinder Sidhu

1220 Quarry Lane * Pleasanton, CA 94566-4755
Telephone: (925) 484-1919 * Facsimile: (925) 484-1098

Printed on: 06/24/1999 16:18

Page 1 of 1

JUN. -24' 99(THU) 17:46 CHROMALAB, INC.

TEL: 510 484 1096

P. 002

Submission #: 1999-06-0255

CHROMALAB, INC.

Environmental Services (SDS)

Total Extractable Petroleum Hydrocarbons (TEPH)

| | |
|--------------------|---|
| Foras Service | 1000 East Grant Line Road Tracy 95376 CA |
| Attn: Paul A Smith | Phone: (925) 443-0235 Fax: (925) 443-0227 |
| Project #: | Project: Foras WPP |

Samples Reported

| Sample ID | Matrix | Date Sampled | Lab # |
|----------------------|--------|------------------|-------|
| Dyer Transformer 112 | Soil | 06/17/1999 14:30 | 1 |

1220 Query Lane * Pleasanton, CA 94566-4756
 Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

JUN. -24' 99(THU) 17:47 CHROMALAB, INC.

TEL: 510 484 1096

P. 003

CHROMALAB, INC.

Submission #: 1999-06-0256

Environmental Services (SDB)

To: Foras Service
Attn: Paul A SmithTest Method: 8015M
Prep Method: 3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

| | |
|---|---------------------------------|
| Sample ID: Dyer Transformer 112 | Lab Sample ID: 1999-06-0256-001 |
| Project: Foras WPP | Received: 06/17/1999 16:36 |
| Sampled: 06/17/1999 14:30 | Extracted: 06/18/1999 12:01 |
| Matrix: Soil | QC-Batch: 1999/06/18-03.10 |
| Sample/Analysis Flag: add (See Legend & Note section) | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|-----------------------------|--------|-----------|-------|----------|------------------|------|
| Mineral Oil | 23000 | 600 | mg/Kg | 50.00 | 06/22/1999 12:52 | |
| Surrogate(s) o-Terphenyl | NA | 50-130 | mg/Kg | 1.00 | 06/22/1999 12:52 | |

Discrete sample of contaminated soil

1220 Quarry Lane - Pleasanton, CA 94566-4756
Telephone: (925) 484-1010 - Facsimile: (925) 484-1008

Printed on: 06/24/1999 17:39

Page 2 of 3

JUN. -24' 99 (THU) 17:47 CHROMALAB, INC.

TEL: 510 484 1096

P. 004

CHROMALAB, INC.

Submission #: 1999-06-0266

Environmental Services (SES)

Total Oil & Grease

| | | |
|--------------------|---|----|
| Foras Service | 1000 East Grant Line Road Tracy 95376 | CA |
| Attn: Paul A Smith | Phone: (925) 443-0235 Fax: (925) 443-0227 | |
| Project #: | Project: Foras WPP | |

Samples Reported

| Sample ID | Matrix | Date Sampled | Lab # |
|----------------------|--------|------------------|-------|
| Dyer Transformer 112 | Soil | 06/17/1999 14:30 | 1 |

1220 Quarry Lane * Pleasanton, CA 94566-4788
 Telephone: (925) 484-1919 * Facsimile: (925) 484-1088

JUN. -24' 99 (THU) 17:48 CHROMALAB, INC.

TEL: 510 484 1096

P. 005

CHROMALAB, INC.

Submission #: 1999-06-0255

Environmental Services (SES)

To: Foras Service
Attn: Paul A Smith

Test Method: 5520 E
Prep Method: 5520 E

Total Oil & Grease

| | | | |
|------------|----------------------|----------------|------------------|
| Sample ID: | Dyer Transformer 112 | Lab Sample ID: | 1999-06-0255-001 |
| Project: | Foras WPP | Received: | 06/17/1999 16:36 |
| Sampled: | 06/17/1999 14:30 | Extracted: | 06/23/1999 |
| Matrix: | Soil | QC-Batch: | 1999/06/23-01.23 |

| Compound | Result | Rep. Limit | Units | Dilution | Analyzed | Flag |
|----------------------|--------|------------|-------|----------|------------|------|
| Oil & Grease (total) | 22000 | 50 | mg/Kg | 1.00 | 06/24/1999 | |

Discute sample of contaminated soil

JUN. -24' 99(THU) 17:48 CHROMALAB, INC.

TEL: 510 484 1096

P. 006

CHROMALAB, INC.

Submission #: 1999-06-0255

Environmental Services (SDB)

PCBs

| | |
|--------------------|---|
| Foras Service | 1000 East Grant Line Road Tracy 95376 CA |
| Attn: Paul A Smith | Phone: (925) 443-0235 Fax: (925) 443-0227 |
| Project #: | Project: Foras WPP |

Samples Reported

| Sample ID | Matrix | Date Sampled | Lab # |
|----------------------|--------|------------------|-------|
| Dyer Transformer 112 | Soil | 08/17/1999 14:30 | 1 |

1220 Quarry Lane * Pleasanton, CA 94566-4755
 Telephone: (925) 484-1819 * Facsimile: (925) 484-1006

JUN. -24' 99 (THU) 17:49 CHROMALAB, INC.

TEL: 510 484 1096

P. 007

CHROMALAB, INC.

Submission #: 1999-06-0255

Environmental Services (SES)

To: Foras Service
Attn: Paul A Smith

Test Method: 8080A
Prep Method: 3550/8080A

PCBs

| | |
|---|---------------------------------|
| Sample ID: Dyer Transformer 112 | Lab Sample ID: 1999-06-0255-001 |
| Project: Foras WPP | Received: 06/17/1999 18:38 |
| Sampled: 06/17/1999 14:30 | Extracted: 06/22/1999 14:45 |
| Matrix: Soil | QC-Batch: 1999/06/22-01.14 |
| Sample/Analysis Flag: (See Legend & Note section) | |

| Compound | Result | Rep. Limit | Units | Dilution | Analyzed | Flag |
|------------------------------|--------|------------|-------|----------|------------------|------|
| Aroclor 1016 | ND | 0.050 | mg/Kg | 1.00 | 06/22/1999 20:11 | |
| Aroclor 1221 | ND | 0.050 | mg/Kg | 1.00 | 06/22/1999 20:11 | |
| Aroclor 1232 | ND | 0.050 | mg/Kg | 1.00 | 06/22/1999 20:11 | |
| Aroclor 1242 | ND | 0.050 | mg/Kg | 1.00 | 06/22/1999 20:11 | |
| Aroclor 1248 | ND | 0.050 | mg/Kg | 1.00 | 06/22/1999 20:11 | |
| Aroclor 1254 | ND | 0.050 | mg/Kg | 1.00 | 06/22/1999 20:11 | |
| Aroclor 1260 | ND | 0.050 | mg/Kg | 1.00 | 06/22/1999 20:11 | |
| Surrogate(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 97.8 | 50-125 | % | 1.00 | 06/22/1999 20:11 | |
| Decachlorobiphenyl | 105.8 | 45-142 | % | 1.00 | 06/22/1999 20:11 | |

Discrete sample of contaminated soil

1220 Quarry Lane • Pleasanton, CA 94566-4754
Telephone: (925) 484-1010 • Facsimile: (925) 484-1095

CHROMALAB, INC.

Environmental Services (SDB) (DCLIS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756
510/484-1918 • Facsimile 510/484-1098

Reference #: 46535

Chain of Custody

DATE 6-17-99 PAGE _____ OF _____

| PROJECT INFORMATION | | | | SAMPLE RECEIPT | | | | ANALYSIS REPORT | | | | | | | | | | | | | | | |
|---|----------------|----------------|-------------|--|-----|-------|------|--|-----|------------|------|--|-------------|-----|--------------|--|------------|------|-------|-----------|----|------------|----------|
| PROJ. MGR <u>Paul A Smith</u> COMPANY <u>Foras Service</u> ADDRESS <u>1000 east grant line Road Tracy CA 95376</u> | | | | TPA (EPA 8015, 8020) <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX CIMTBE PURGEABLE AROMATICS BTEX (EPA 8020) TPA-Diesel (EPA 8015M) TPA (EPA 8015M) <u>Minerals</u> <input type="checkbox"/> Other <u>Oil</u> FURANALDEHYDES (BYOCs) (EPA 8016) VOLATILE ORGANICS (VOCs) (EPA 8260) SEMI-VOLATILES (EPA 8270) TOTAL OIL AND GREASE (EPA 820 B+F, E+F) | | | | ANALYSIS REPORT <input type="checkbox"/> PESTICIDES (EPA 8080) <input type="checkbox"/> PCB'S (EPA 8090) PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8210 <input type="checkbox"/> Spill Cont. <input type="checkbox"/> TDS <input type="checkbox"/> TDS LIGHT METALS: Cd, Cr, Pb, Ni, Zn HEAVY METALS (EPA 8210/70/72/71) TOTAL LEAD DWPT (STLC) DTCLP <input type="checkbox"/> Residuals Chromatogram <input type="checkbox"/> pH (24 hr hold time for 8210) | | | | | | | | | | | | | | | |
| SAMPLES (SIGNATURE) <u>[Signature]</u> | | | | (PHONE NO.) <u>925 443-0235</u> (FAX NO.) <u>925 443-0227</u> | | | | NUMBER OF CONTAINERS <u>1</u> | | | | | | | | | | | | | | | |
| SAMPLE ID. | DATE | TIME | MATRIX | PREP | TPA | TPA-D | VOCs | SVOCs | TOG | PESTICIDES | PCBs | PNA's | Spill Cont. | TDS | Light Metals | Heavy Metals | Total Lead | DWPT | DTCLP | Residuals | pH | Containers | |
| <u>Tranformer #12</u> | <u>6/17/99</u> | <u>2:30 PM</u> | <u>Soil</u> | | | | | | | | | | | | | | | | | | | | <u>1</u> |
| PROJECT NAME: <u>Foras WPP</u> PROJECT NUMBER: _____ P.O. # _____ | | | | TOTAL NO. OF CONTAINERS: <u>1</u> HEAD SPACE: _____ TEMPERATURE: _____ C-18 FORMS TO RECORD: _____ | | | | RECEIVED BY 1 <u>[Signature]</u> (NAME) _____ (DATE) _____ PRINTED NAME: _____ (DATE) _____ COMPANY: _____ | | | | RECEIVED BY 2 _____ (NAME) _____ (DATE) _____ PRINTED NAME: _____ (DATE) _____ COMPANY: _____ | | | | RECEIVED BY 3 <u>[Signature]</u> (NAME) _____ (DATE) _____ <u>CRISLENA</u> (NAME) <u>06/17/99</u> (DATE) _____ PRINTED NAME: _____ (DATE) _____ COMPANY: _____ | | | | | | | |
| SPECIAL INSTRUCTIONS/COMMENTS: Report: <input type="checkbox"/> Outline <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> Electronic Report <u>Received \$270.00 cash</u> | | | | | | | | | | | | | | | | | | | | | | | |

CHROMALAB, INC.

Environmental Services (SDB) (DOI IS 1094)

1220 Quarry Lane • Pleasanton, California 94588-4756
510/484-1919 • Facsimile 510/484-1086

*Confirmatory Sample
after excavation*

Reference #: 46271

Chain of Custody

DATE 06/21/99 PAGE 1 OF 1

| PROJECT INFORMATION | | | | | ANALYSIS REPORT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|-------|--------|------|---|-------------------|---------------|----------------------|------------------|------|----|----|-----------------------|--------------------|-------------------------------------|---------------------------|--|-----------------------|------------------|---------------|------|-------------|-----|-----|---------------------------------|-----------------------------------|------------|-------------|------|-------------------------|-------------------------------|----------------------|--|--|
| PROJ. MGR <u>PAUL A. SMITH</u> COMPANY <u>FORAS Service</u> ADDRESS <u>1000 East Grant Line Rd Tracy, CA 95376</u> | | | | | <input type="checkbox"/> TPH-EPA 8015, 8020 <input type="checkbox"/> Gas w/ <input type="checkbox"/> STEK CHMTR <input type="checkbox"/> STEK EPA 8020 <input type="checkbox"/> TPH-Chem (EPA 8015M) <input type="checkbox"/> PCBs (EPA 8015M) <input type="checkbox"/> Lead <input type="checkbox"/> Ni, <input type="checkbox"/> Cr <input type="checkbox"/> FORMALDEHYDE/ACROLEIN <input type="checkbox"/> CRYCOCs (EPA 8010) <input type="checkbox"/> VOLATILE ORGANICS (VOCs) (EPA 8260) <input type="checkbox"/> SEMI-VOLATILES (EPA 8270) <input type="checkbox"/> TOTAL OIL AND GREASE (per 8030 & F, E & F) <input type="checkbox"/> PESTICIDES (EPA 8090) <input type="checkbox"/> PCB'S (EPA 8090) <input type="checkbox"/> PAH's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8210 <input type="checkbox"/> Spms. Count <input type="checkbox"/> TDS <input type="checkbox"/> TDS <input type="checkbox"/> LEAD METALS: Cd, Cr, Pb, Ni, Zn <input type="checkbox"/> CDM 17 METALS (EPA 8210/8270/871) <input type="checkbox"/> TOTAL LEAD <input type="checkbox"/> WAST. (SLC) <input type="checkbox"/> TCLP <input type="checkbox"/> Environmental Chemistry <input type="checkbox"/> pH (to be held there for 30d) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE ID | DATE | TIME | MATRIX | PREP | TPH-EPA 8015, 8020 | Gas w/ STEK CHMTR | STEK EPA 8020 | TPH-Chem (EPA 8015M) | PCBs (EPA 8015M) | Lead | Ni | Cr | FORMALDEHYDE/ACROLEIN | CRYCOCs (EPA 8010) | VOLATILE ORGANICS (VOCs) (EPA 8260) | SEMI-VOLATILES (EPA 8270) | TOTAL OIL AND GREASE (per 8030 & F, E & F) | PESTICIDES (EPA 8090) | PCB'S (EPA 8090) | PAH's by 8270 | 8210 | Spms. Count | TDS | TDS | LEAD METALS: Cd, Cr, Pb, Ni, Zn | CDM 17 METALS (EPA 8210/8270/871) | TOTAL LEAD | WAST. (SLC) | TCLP | Environmental Chemistry | pH (to be held there for 30d) | NUMBER OF CONTAINERS | | |
| # 2 | 6/21 | 10:30 | Soil | - | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | |
| # 3 | | 10:30 | | - | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | |
| # 4 | | 10:00 | | - | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | |
| # 5 | | 10:45 | | - | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | |
| # 6 | | 10:45 | | - | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | |
| # 7 | 6/21 | 10:45 | | - | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|---|--|---|--|--|--|
| PROJECT INFORMATION | | | | SAMPLE RECEIPT | | | | RELINQUISHED BY 1 | | RELINQUISHED BY 2 | | RELINQUISHED BY 3 | |
| PROJECT NAME: <u>FORAS WPP</u> PROJECT NUMBER: <u>RAXF 0112</u> P.O. # | | | | TOTAL NO. OF CONTAINERS: <u>6</u> HEAD SPACE TEMPERATURE CONFORMS TO RECORD | | | | SIGNATURE: <u>Tom Hyde</u> (TIME) PRINTED NAME: (DATE) | | SIGNATURE: (TIME) PRINTED NAME: (DATE) | | SIGNATURE: (TIME) PRINTED NAME: (DATE) | |
| DAY: <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 1-DAY SPECIAL INSTRUCTIONS/COMMENTS: <u>Received ok # 000623</u> <u>Amnt 1,020</u> | | | | <input type="checkbox"/> 34 <input type="checkbox"/> 48 <input type="checkbox"/> 72 <input type="checkbox"/> OTHER | | | | RECEIVED BY 1: SIGNATURE: (TIME) PRINTED NAME: (DATE) | | RECEIVED BY 2: SIGNATURE: (TIME) PRINTED NAME: (DATE) | | RECEIVED BY LABORATORY 3: <u>LA 06/21/99 02:10</u> <u>CRUZERDA 06/21/99</u> <u>CL</u> | |

JUN. -28' 99 (MON) 19:01 CHROMALAB, INC.

TEL: 510 464 1096

P. 001

Submission #: 1999-06-0201

CHROMALAB, INC.

Date: June 28, 1999

Environmental Services (SES)

Foras Service
1000 East Grant Line Road
Tracy, CA 95376

Attn: Mr. Paul A Smith

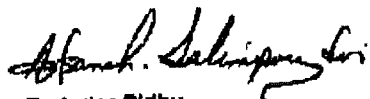
Project: FORAS WPP-RAXF 0112

Dear Mr. Smith,

Attached is our report for your samples received on Monday June 21, 1999.
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after July 21, 1999 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 464-1919.

Sincerely,


Surinder Sidhu

1220 Query Lane * Pleasanton, CA 94566-4756
Telephone: (925) 464-1919 * Facsimile: (925) 464-1096

Printed on: 06/28/1999 17:12

Page 1 of 1

JUN. -28' 99(MON) 19:02 CHROMALAB, INC.

TEL: 510 484 1096

P. 002

Submission #: 1998-05-0291

CHROMALAB, INC.

Environmental Services (SDB)

Total Oil & Grease

| | |
|--------------------|---|
| Foras Service | 1000 East Grant Line Road Tracy 95378 CA |
| Attr: Paul A Smith | Phone: (925) 443-0235 Fax: (925) 443-0227 |
| Project #: | Project: FORAS WPP-RAXF 0112 |

Samples Reported

| Sample ID | Matrix | Date Sampled | Lab # |
|-----------|--------|------------------|-------|
| #2 | Soil | 06/21/1999 10:30 | 1 |
| #3 | Soil | 06/21/1999 10:30 | 2 |
| #4 | Soil | 06/21/1999 10:00 | 3 |
| #5 | Soil | 06/21/1999 10:45 | 4 |
| #6 | Soil | 06/21/1999 10:45 | 5 |
| #7 | Soil | 06/21/1999 10:45 | 6 |

*Confirmatory samples taken
after over excavation*

JUN -28' 99(MON) 19:02 CHROMALAB, INC.

TEL: 510 484 1096

P. 003

Submission #: 1999-06-0291

CHROMALAB, INC.

Environmental Services (SES)

To: Foras Service
Attn: Paul A Smith

Test Method: 5520 E
Prep Method: 5520 E

Total Oil & Grease

| | |
|------------------------------|---------------------------------|
| Sample ID: #2 | Lab Sample ID: 1999-06-0291-001 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:30 | Extracted: 06/23/1999 |
| Matrix: Soil | QC-Batch: 1999/06/23-01.23 |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|----------------------|--------|-----------|-------|----------|------------|------|
| Oil & Grease (total) | 96 | 50 | mg/Kg | 1.00 | 06/24/1999 | |

1220 Quarry Lane * Pleasanton, CA 94566-4788
Telephone: (925) 484-1010 * Facsimile: (925) 484-1096

Printed on: 06/29/1999 18:51

JUN. -28' 99 (MON) 19:03 CHROMALAB, INC.

TEL: 510 484 1096

P. 004

Submission #: 1999-06-0291

CHROMALAB, INC.

Environmental Services (ESB)

To: Foras Service
Attn: Paul A Smith

Test Method: 5520 E
Prep Method: 5520 E

Total Oil & Grease

| | |
|------------------------------|---------------------------------|
| Sample ID: #3 | Lab Sample ID: 1999-06-0291-002 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:30 | Extracted: 06/23/1999 |
| Matrix: Soil | QC-Batch: 1999/06/23-01.23 |

| Compound | Result | Rep. Limit | Units | Dilution | Analyzed | Flag |
|----------------------|--------|------------|-------|----------|------------|------|
| Oil & Grease (total) | 1200 | 80 | mg/Kg | 1.00 | 06/24/1999 | |

1225 Quarry Lane • Pleasanton, CA 94566-4758
Telephone: (925) 484-1818 • Facsimile: (925) 484-1088

Printed on: 06/28/1999 18:51

JUN. -28' 99 (MON) 19:03 CHROMALAB, INC.

TEL: 510 484 1396

P. 005

Submission #: 1999-06-0201

CHROMALAB, INC.

Environmental Services (SDB)

To: Foras Service
Attn: Paul A Smith

Test Method: 5520 E
Prep Method: 6520 E

Total Oil & Grease

| | |
|------------------------------|---------------------------------|
| Sample ID: #4 | Lab Sample ID: 1999-06-0201-003 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:00 | Extracted: 06/23/1999 |
| Matrix: Soil | QC Batch: 1999/06/23-01.23 |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|----------------------|--------|-----------|-------|----------|------------|------|
| Oil & Grease (total) | 280 | 60 | mg/Kg | 1.00 | 06/24/1999 | |

JUN. -28' 99 (MON) 19:04 CHROMALAB, INC.

TEL: 510 484 1096

P. 006

Submission #: 1999-06-0291

CHROMALAB, INC.

Environmental Services (SES)

To: Foras Service
Attn: Paul A Smith

Test Method: 5520 E
Prep Method: 5520 E

Total Oil & Grease

| | |
|------------------------------|---------------------------------|
| Sample ID: #5 | Lab Sample ID: 1999-06-0291-004 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:45 | Extracted: 06/23/1999 |
| Matrix: Soil | QC-Batch: 1999/06/23-01.23 |

| Compound | Result | Rep. Limit | Units | Dilution | Analyzed | Flag |
|----------------------|--------|------------|-------|----------|------------|------|
| Oil & Grease (total) | 530 | 50 | mg/Kg | 1.00 | 06/24/1999 | |

1220 Querry Lane * Pleasanton, CA 94586-4758
Telephone: (925) 484-1915 * Facsimile: (925) 484-1088

Printed on: 06/28/1999 18:51

Page 6 of 9

CHROMALAB, INC.

Environmental Services (SDB)

To: Foras Service
Attn: Paul A Smith

Test Method: 5520 E
Prep Method: 5520 E

Total Oil & Grease

| | |
|------------------------------|---------------------------------|
| Sample ID: #6 | Lab Sample ID: 1999-06-0291-006 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:45 | Extracted: 06/23/1999 |
| Matrix: Soil | QC-Batch: 1999/06/23-01.23 |

| Compound | Result | Rep. Limit | Units | Dilution | Analyzed | Flag |
|----------------------|--------|------------|-------|----------|------------|------|
| Oil & Grease (total) | 6500 | 50 | mg/Kg | 1.00 | 06/24/1999 | |

CHROMALAB, INC.

Environmental Services (SDB)

To: Foras Service
Attn: Paul A Smith

Test Method: 5520 E
Prep Method: 5520 E

Total Oil & Grease

| | |
|------------------------------|---------------------------------|
| Sample ID: 27 | Lab Sample ID: 1999-06-0291-008 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:45 | Extracted: 06/23/1999 |
| Matrix: Soil | QC-Batch: 1999/06/23-01.23 |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|----------------------|--------|-----------|-------|----------|------------|------|
| Oil & Grease (total) | 10000 | 50 | mg/Kg | 1.00 | 06/24/1999 | |

CHROMALAB, INC.

Environmental Services (SDB)

To: Foras Service
 Attn: Paul A Smith

Test Method: 8090A
 Prep Method: 3650/8080A

PCBs

| | |
|------------------------------|---------------------------------|
| Sample ID: #2 | Lab Sample ID: 1999-06-0291-001 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:30 | Extracted: 06/24/1999 15:33 |
| Matrix: Soil | QC-Batch: 1999/06/24-05.14 |

| Compound | Result | Rep. Limit | Units | Dilution | Analyzed | Flag |
|--------------------------|--------|------------|-------|----------|------------------|------|
| Aroclor 1016 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:00 | |
| Aroclor 1221 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:00 | |
| Aroclor 1232 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:00 | |
| Aroclor 1242 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:00 | |
| Aroclor 1248 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:00 | |
| Aroclor 1254 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:00 | |
| Aroclor 1260 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:00 | |
| Surrogate(s) | | | | | | |
| 2,4,6-Trichloro-m-xylene | 107.9 | 50-125 | % | 1.00 | 06/25/1999 16:00 | |
| Decachlorobiphenyl | 50.0 | 45-142 | % | 1.00 | 06/25/1999 16:00 | |

CHROMALAB, INC.

Environmental Services (SES)

To: Foras Service
 Attn: Paul A Smith

Test Method: 8080A
 Prep Method: 3550/8080A

PCBs

| | |
|------------------------------|---------------------------------|
| Sample ID: #3 | Lab Sample ID: 1999-06-0291-002 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:30 | Extracted: 06/24/1999 15:33 |
| Matrix: Soil | QC Batch: 1999/06/24-05.14 |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|------------------------------|--------|-----------|-------|----------|------------------|------|
| Aroclor 1016 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:41 | |
| Aroclor 1221 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:41 | |
| Aroclor 1232 | ND | 0.050 | mg/Kg | 1.00 | 06/26/1999 16:41 | |
| Aroclor 1242 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:41 | |
| Aroclor 1248 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:41 | |
| Aroclor 1254 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 16:41 | |
| Aroclor 1260 | ND | 0.050 | mg/Kg | 1.00 | 06/26/1999 16:41 | |
| Surrogate(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 79.1 | 50-125 | % | 1.00 | 06/25/1999 16:41 | |
| Decachlorobiphenyl | 90.2 | 45-142 | % | 1.00 | 06/25/1999 16:41 | |

1220 Querry Lane • Pleasanton, CA 94566-4750
 Telephone: (925) 484-1010 • Facsimile: (925) 484-1096

CHROMALAB, INC.

Submission #: 1999-06-0291

Environmental Services (SES)

To: Foras Service

Test Method: 8090A

Attn: Paul A Smith

Prep Method: 3550/8080A

PCBs

| | |
|------------------------------|---------------------------------|
| Sample ID: #4 | Lab Sample ID: 1999-06-0291-003 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:00 | Extracted: 06/24/1999 16:33 |
| Matrix: Soil | QC-Batch: 1999/06/24-05.14 |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|------------------------------|--------|-----------|-------|----------|------------------|------|
| Aroclor 1016 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:15 | |
| Aroclor 1221 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:15 | |
| Aroclor 1232 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:15 | |
| Aroclor 1242 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:15 | |
| Aroclor 1248 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:15 | |
| Aroclor 1254 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:15 | |
| Aroclor 1260 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:15 | |
| Surrogate(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 83.3 | 50-125 | % | 1.00 | 06/25/1999 17:15 | |
| Decachlorobiphenyl | 84.0 | 48-142 | % | 1.00 | 06/25/1999 17:15 | |

1220 Quarry Lane • Pleasanton, CA 94598-4758
 Telephone: (925) 484-1010 • Facsimile: (925) 484-1096

JUN -28' 99(MON) 19:07 CHROMALAB, INC.

TEL: 510 484 1096

P. 012

CHROMALAB, INC.

Submission #: 1999-06-0291

Environmental Services (SDS)

To: Foras Service
Attn: Paul A SmithTest Method: 8060A
Prep Method: 3550/8060A

PCBs

| | |
|------------------------------|---------------------------------|
| Sample ID: #5 | Lab Sample ID: 1999-06-0291-004 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:45 | Extracted: 06/24/1999 15:33 |
| Matrix: Soil | QC Batch: 1999/06/24-05.14 |

| Compound | Result | Rep. Limit | Units | Dilution | Analyzed | Flag |
|--------------------------|--------|------------|-------|----------|------------------|------|
| Aroclor 1016 | ND | 0.060 | mg/Kg | 1.00 | 06/25/1999 15:29 | |
| Aroclor 1221 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 15:29 | |
| Aroclor 1232 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 15:29 | |
| Aroclor 1242 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 15:29 | |
| Aroclor 1248 | ND | 0.060 | mg/Kg | 1.00 | 06/25/1999 15:29 | |
| Aroclor 1254 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 15:29 | |
| Aroclor 1260 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 15:29 | |
| Surrogate(s) | | | | | | |
| 2,4,6-Trichloro-m-xylene | 111.4 | 50-125 | % | 1.00 | 06/25/1999 15:29 | |
| Decachlorobiphenyl | 134.4 | 48-142 | % | 1.00 | 06/25/1999 15:29 | |

1220 Quarry Lane • Pleasanton, CA 94566-4785
Telephone: (925) 484-1919 • Facsimile: (925) 484-1095

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Page 5 of 11

JUN. -28' 99 (MON) 19:07 CHROMALAB, INC.

TEL: 510 484 1096

P. 013

CHROMALAB, INC.

Submission #: 1999-05-0291

Environmental Services (SDB)

To: Foras Service

Test Method: 8080A

Attn: Paul A Smith

Prep Method: 3560/8080A

PC98

| | |
|------------------------------|---------------------------------|
| Sample ID: #6 | Lab Sample ID: 1999-05-0291-006 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:45 | Extracted: 06/24/1999 15:33 |
| Matrix: Soil | QC-Batch: 1999/05/24-05.14 |

| Compound | Result | Rep. Limit | Units | Dilution | Analyzed | Flag |
|------------------------------|--------|------------|-------|----------|------------------|------|
| Aroclor 1016 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:48 | |
| Aroclor 1221 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:48 | |
| Aroclor 1232 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:48 | |
| Aroclor 1242 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:48 | |
| Aroclor 1248 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:48 | |
| Aroclor 1254 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:48 | |
| Aroclor 1260 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 17:48 | |
| Surrogate(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 119.0 | 60-125 | % | 1.00 | 06/25/1999 17:48 | |
| Decachlorobiphenyl | 101.8 | 48-142 | % | 1.00 | 06/25/1999 17:48 | |

1220 Quarry Lane • Pleasanton, CA 94566-4786
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Page 6 of 11

JUN. -28' 99 (MON) 19:00 CHROMALAB, INC.

TEL: 510 484 1096

P. 014

CHROMALAB, INC.

Submission #: 1999-06-0291

Environmental Services (SES)

To: Foras Service
Attn.: Paul A SmithTest Method: 8080A
Prep Method: 3550/8080A

PCBs

| | |
|------------------------------|---------------------------------|
| Sample ID: #7 | Lab Sample ID: 1999-06-0291-008 |
| Project: FORAS WPP-RAXF 0112 | Received: 06/21/1999 14:15 |
| Sampled: 06/21/1999 10:45 | Extracted: 06/24/1999 16:33 |
| Matrix: Soil | QC-Batch: 1999/06/24-05.14 |

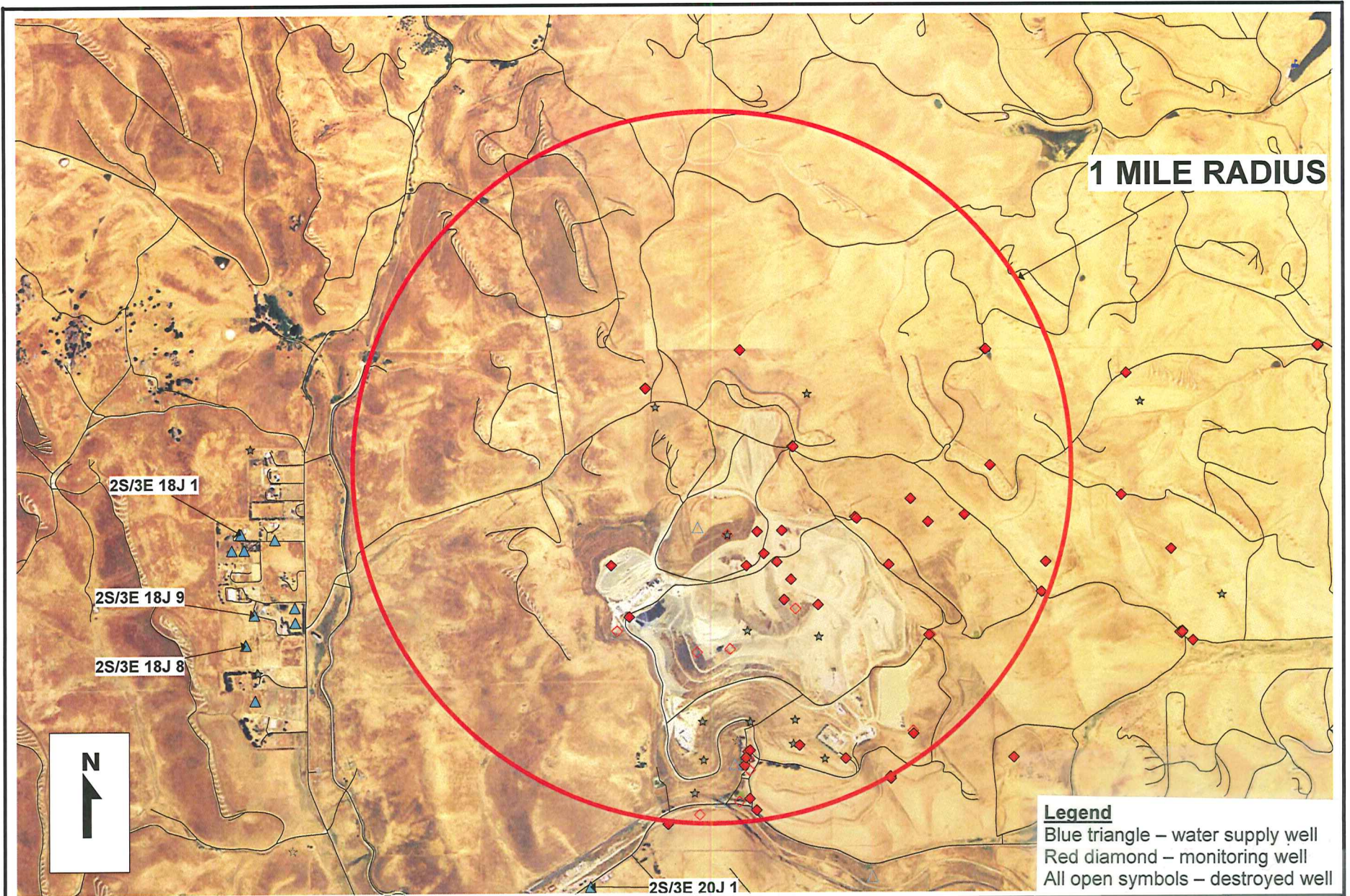
| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|------------------------------|--------|-----------|-------|----------|------------------|------|
| Aroclor 1016 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 18:22 | |
| Aroclor 1221 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 18:22 | |
| Aroclor 1232 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 18:22 | |
| Aroclor 1242 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 18:22 | |
| Aroclor 1248 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 18:22 | |
| Aroclor 1264 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 18:22 | |
| Aroclor 1260 | ND | 0.050 | mg/Kg | 1.00 | 06/25/1999 18:22 | |
| Surrogate(s) | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 68.6 | 50-125 | % | 1.00 | 06/25/1999 18:22 | |
| Decachlorobiphenyl | 436.0 | 46-142 | % | 1.00 | 06/25/1999 18:22 | ■ |

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Page 7 of 11

ATTACHMENT C
WELL LOCATION MAP



1 MILE RADIUS

2S/3E 18J 1

2S/3E 18J 9

2S/3E 18J 8

2S/3E 20J 1



Legend
 Blue triangle – water supply well
 Red diamond – monitoring well
 All open symbols – destroyed well

ZONE 7 WATER AGENCY
 100 NORTH CANYONS PARKWAY
 LIVERMORE, CA 94551

WELL LOCATION MAP

SCALE: 1"= 2000 ft
DATE: 11/10/09
Altamont Pass & I-580:
Transformer 112

ATTACHMENT D
MATERIAL SAFETY DATA SHEET

EYE CONTACT

THIS PRODUCT IS PRACTICALLY NON-IRRITATING TO THE EYES UPON DIRECT CONTACT. BASED ON TESTING OF SIMILAR PRODUCTS AND/OR COMPONENTS.

SKIN CONTACT

AVOID SKIN CONTACT. THIS PRODUCT MAY CAUSE SLIGHT SKIN IRRITATION UPON DIRECT CONTACT. BASED ON TESTING OF SIMILAR PRODUCTS AND/OR COMPONENTS. PROLONGED OR REPEATED CONTACT MAY RESULT IN CONTACT DERMATITIS WHICH IS CHARACTERIZED BY DRYNESS, CHAPPING, AND REDDENING. THIS CONDITION MAY MAKE THE SKIN MORE SUSCEPTIBLE TO OTHER IRRITANTS, SENSITIZERS, AND DISEASE. PROLONGED OR REPEATED CONTACT MAY RESULT IN OIL ACNE WHICH IS CHARACTERIZED BY BLACKHEADS WITH POSSIBLE SECONDARY INFECTION. CONSTITUENTS OF THIS PRODUCT HAVE BEEN ASSOCIATED WITH PHOTSENSITIVITY, AN ABNORMAL SENSITIVITY OF SKIN TO SUNLIGHT. SEE HEALTH DATA SECTION BELOW.

INHALATION

THIS PRODUCT HAS A LOW VAPOR PRESSURE AND IS NOT EXPECTED TO PRESENT AN INHALATION HAZARD AT AMBIENT CONDITIONS. CAUTION SHOULD BE TAKEN TO PREVENT AEROSOLIZATION OR MISTING OF THIS PRODUCT. THE PERMISSIBLE EXPOSURE LIMIT (PEL) AND THRESHOLD LIMIT VALUE (TLV) FOR THIS PRODUCT AS OIL MIST IS 5 MG/M3. EXPOSURES BELOW 5 MG/M3 APPEAR TO BE WITHOUT SIGNIFICANT HEALTH RISK. THE SHORT-TERM EXPOSURE LIMIT FOR THIS PRODUCT AS AN OIL MIST IS 10 MG/M3.

INGESTION

DO NOT INGEST. INGESTION IS RELATIVELY NON-TOXIC UNLESS ASPIRATION OCCURS. ASPIRATION MAY LEAD TO CHEMICAL PNEUMONITIS WHICH IS CHARACTERIZED BY PULMONARY EDEMA AND HEMORRHAGE AND MAY BE FATAL. SIGNS OF LUNG INVOLVEMENT INCLUDE INCREASED RESPIRATORY RATE, INCREASED HEART RATE, AND A BLuish DISCOLORATION OF THE SKIN. COUGHING, CHOKING, AND GAGGING ARE OFTEN NOTED AT THE TIME OF ASPIRATION. GASTROINTESTINAL DISCOMFORT MAY DEVELOP, FOLLOWED BY VOMITTING WITH A FURTHER RISK OF ASPIRATION. THIS PRODUCT HAS LAXATIVE PROPERTIES AND MAY RESULT IN ABDOMINAL CRAMPS AND DIARRHEA. SEE HEALTH DATA SECTION BELOW.

HEALTH DATA

ON RARE OCCASIONS, PROLONGED AND REPEATED EXPOSURE TO OIL MIST POSES A RISK OF PULMONARY DISEASE SUCH AS CHRONIC LUNG INFLAMMATION. THIS CONDITION IS USUALLY ASYMPTOMATIC AS A RESULT OF REPEATED SMALL ASPIRATIONS. SHORTNESS OF BREATH AND COUGH ARE THE MOST COMMON SYMPTOMS. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER HAS CONCLUDED THAT HIGHLY REFINED MINERAL OILS ARE GROUP 3 SUBSTANCES, "NOT CLASSIFIABLE AS TO THEIR CARCINOGENICITY TO HUMANS," BASED ON INADEQUATE HUMAN AND INADEQUATE ANIMAL EVIDENCE. THIS SUBSTANCE IS NOT CARCINOGENIC ACCORDING TO THE OSHA HAZARD COMMUNICATION STANDARD.

EYE CONTACT

IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER AND CONTINUE FLUSHING UNTIL IRRITATION SUBSIDES. IF MATERIAL IS HOT, TREAT FOR THERMAL BURNS AND TAKE VICTIM TO HOSPITAL IMMEDIATELY.

SKIN CONTACT

REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED AREA THOROUGHLY WITH SOAP AND WATER. IF REDNESS OR IRRITATION OCCURS, SEEK MEDICAL ATTENTION. IF MATERIAL IS HOT, SUBMERGE INJURED AREA IN COLD WATER. IF VICTIM IS SEVERELY BURNED, REMOVE TO A HOSPITAL IMMEDIATELY.

INHALATION

THIS MATERIAL HAS A LOW VAPOR PRESSURE AND IS NOT EXPECTED TO PRESENT AN INHALATION EXPOSURE AT AMBIENT CONDITIONS.

INGESTION

DO NOT INDUCE VOMITING. DO NOT INDUCE VOMITING DUE TO ASPIRATION HAZARD. IF VOMITING OCCURS LOWER HEAD BELOW KNEES TO AVOID ASPIRATION. SEEK MEDICAL ATTENTION. SEEK IMMEDIATE MEDICAL ATTENTION.

EYE
PROTECTION

EYE PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF MATERIAL IS HANDLED SUCH THAT IT COULD BE SPLASHED INTO EYES, WEAR PLASTIC FACE SHIELD OR SPLASH-PROOF SAFETY GOGGLES.

SKIN
PROTECTION

NO SKIN PROTECTION IS REQUIRED FOR SINGLE, SHORT DURATION EXPOSURES. FOR PROLONGED OR REPEATED EXPOSURES, USE IMPERVIOUS CLOTHING (BOOTS, GLOVES, APRONS, ETC.) OVER PARTS OF THE BODY SUBJECT TO EXPOSURE. IF HANDLING HOT MATERIAL, USE INSULATED PROTECTIVE CLOTHING (BOOTS, GLOVES, APRONS, ETC.). LAUNDRY SOILED CLOTHES. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES INCLUDING SHOES, WHICH CANNOT BE DECONTAMINATED.

RESPIRATORY
PROTECTION

RESPIRATORY PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, USE AN ORGANIC VAPOR RESPIRATOR WITH A DUST AND MIST FILTER. ALL RESPIRATORS MUST BE NIOSH CERTIFIED. DO NOT USE COMPRESSED OXYGEN IN HYDROCARBON ATMOSPHERES.

VENTILATION

IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE MUST BE PROVIDED TO MAINTAIN CONCENTRATIONS BELOW THE SPECIFIED EXPOSURE OR FLAMMABLE LIMITS.

OTHER

CONSUMPTION OF FOOD AND BEVERAGE SHOULD BE AVOIDED IN WORK AREAS WHERE HYDROCARBONS ARE PRESENT. ALWAYS WASH HANDS AND FACE WITH SOAP AND WATER BEFORE EATING, DRINKING, OR SMOKING.

FLASH POINT 300 F

TEST METHOD C.O.C.

AUTOIGNITION TEMPERATURE NO DATA

TEST METHOD NO DATA

FLAMMABLE LIMITS IN AIR % BY VOL

LOWER N/A

UPPER N/A

EXTINGUISHING
MEDIA

USE DRY CHEMICAL, FOAM, OR CARBON DIOXIDE.

SPECIAL FIRE
FIGHTING
PROCEDURES

WATER MAY BE INEFFECTIVE BUT CAN BE USED TO COOL CONTAINERS EXPOSED TO HEAT OR FLAME. CAUTION SHOULD BE EXERCISED WHEN USING WATER OR FOAM AS FROTHING MAY OCCUR, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.

UNUSUAL FIRE
AND EXPLOSIVE
CONDITIONS

DENSE SMOKE MAY BE GENERATED WHILE BURNING. CARBON MONOXIDE, CARBON DIOXIDE, AND OTHER OXIDES MAY BE GENERATED AS PRODUCTS OF COMBUSTION.

VII REACTIVITY DATASTABILITY
(THERMAL,
LIGHT, ETC.)

STABLE

CONDITIONS TO
AVOID

NONE

HAZARDOUS
POLYMERIZATION

WILL NOT OCCUR

CONDITIONS TO
AVOID

NONE

INCOMPATIBILITY
MATERIALS TO AVOID

MAY REACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION
PRODUCTS

NONE

STEPS TO BE
TAKEN IF
MATERIAL IS
RELEASED OR
SPILLED

CONSULT HEALTH EFFECT INFORMATION IN SECTION III, PERSONAL HEALTH PROTECTION INFORMATION IN SECTION V, FIRE PROTECTION INFORMATION IN SECTION VI, AND REACTIVITY DATA IN SECTION VII. NOTIFY APPROPRIATE AUTHORITIES OF SPILL. CONTAIN SPILL IMMEDIATELY. DO NOT ALLOW SPILL TO ENTER SEWERS OR WATERCOURSES. REMOVE ALL SOURCES OF IGNITION. ABSORB WITH APPROPRIATE INERT MATERIAL SUCH AS SAND, CLAY, ETC.. LARGE SPILLS MAY BE PICKED UP USING VACUUM PUMPS, SHOVELS, BUCKETS, OR OTHER MEANS AND PLACED IN DRUMS OR OTHER SUITABLE CONTAINERS.

WASTE DISPOSAL
METHOD

ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REGULATED WASTE. REFER TO STATE AND LOCAL REGULATIONS. CAUTION: IF REGULATED SOLVENTS ARE USED TO CLEAN UP SPILLED MATERIAL, THE RESULTING WASTE MIXTURE MAY BE REGULATED. DEPARTMENT OF TRANSPORTATION (DOT) REGULATIONS MAY APPLY FOR TRANSPORTING THIS MATERIAL WHEN SPILLED. WASTE MATERIAL MAY BE LANDFILLED OR INCINERATED AT AN APPROVED FACILITY. MATERIALS SHOULD BE RECYCLED IF POSSIBLE.

HANDLING AND
STORAGE
REQUIREMENTS

DO NOT TRANSFER TO UNMARKED CONTAINERS. STORE IN CLOSED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME, OR OXIDIZING MATERIALS. THIS PRODUCT IS NOT CLASSIFIED AS HAZARDOUS UNDER DOT REGULATIONS. FIRE EXTINGUISHERS SHOULD BE KEPT READILY AVAILABLE. SEE NFPA 30 AND OSHA 1910.106--FLAMMABLE AND COMBUSTIBLE LIQUIDS.

ADDITIONAL
INFORMATION

THIS MIXTURE MAY BE FORMULATED IN PART WITH COMPONENTS PURCHASED FROM OTHER COMPANIES. IN MANY INSTANCES, ESPECIALLY WHEN PROPRIETARY OR TRADE SECRET MATERIALS ARE USED, PENNZOIL COMPANY MUST RELY UPON THE HAZARD EVALUATION OF SUCH COMPONENTS SUBMITTED TO PENNZOIL BY THAT PRODUCT'S MANUFACTURER OR IMPORTER.

THIS PRODUCT IS NOT KNOWN TO CONTAIN ANY SARA TITLE III, SECTION 313 REPORTABLE CHEMICALS AT OR GREATER THAN 1.0% (0.1% FOR CARCINOGENS).

ALL INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY.

PHYSICAL PROPERTIES

| | | | |
|----------------|---|-------------------------|--------|
| BOILING POINT | IBP 580 F EP 670 F | PERCENT VOLATILE | N/A |
| MELTING POINT | POUR POINT < - 50 F | VAPOR DENSITY (AIR=1) | N/A |
| APPEARANCE | COLORLESS | EVAPORATION RATE (EE=1) | N/A |
| ODOR | MILD LUBE ODOR | SPECIFIC GRAVITY | .89 |
| VAPOR PRESSURE | N/A | MOLECULAR WEIGHT | VARIES |
| SOLUBILITY | EMULSIFIES IN WATER. SOLUBLE IN HYDROCARBONS. | | |