SDMS DOCID # 1149799

SITE CLOSURE REPORT AND RISK ASSESSMENT

November 28, 2000

Mobil Jalk Fee Property
10607 Norwalk Boulevard
Santa Fe Springs, California

TRC Alton Geoscience Project No. 23-0134

Prepared For:

EXXONMOBIL
1200 Timberloch Place
Room 308
The Woodlands, Texas 77380

By:

Jeff Hensel, RG, REA
Project Manager

Todd Stanford,
Associate, Irvine Operations

TRC ALTON GEOSCIENCE
21 Technology Drive
Irvine, California 92618

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1.0 INTRODUCTION

This report presents the findings of the remedial soil activities and risk assessment completed for the Mobil Jalk Fee Property, located at 10607 Norwalk Boulevard in Santa Fe Springs, California (Figure 1). This work was performed in accordance with the TRC Alton Geoscience (TRC) Remedial Action Plan (RAP) dated October 20, 2000 and Revised RAP dated November 8, 2000.

2.0 SITE DESCRIPTION

The site consists of approximately 8.8 acres of undeveloped land located in the southwest portion of an active oil field. The site has been used for oil production since the 1920s and ceased with the recent abandonment of the oil wells, pipelines and tank farm by the current tenant, Hathaway Oil Company. No structures currently exist onsite. Previous site structures included the following:

- Nine oil production wells (Jalk 1, 2, 3, 4, 111, 112, 113, 114, and 117) (Figure 2).
- From approximately the early 1940s to October 2000, a former tank battery consisting of six above-ground tanks was located in the northwest corner of the site (Figure 2).
- Former sumps (mud pits) associated with oil drilling and production were observed in the 1928 and 1938 historic aerial photographs.
- From approximately 1920 to the late 1940s, a small oil refuse area (boneyard area) used for the storage of metal objects was present in the southwest portion of the property (Figure 2).
- Above-ground storage tanks were observed in the southeast portion of the property in the 1928 and 1938 aerial photographs.

A portion of the site was leased to a trucking operation in the northeastern and central portion of the site (dates unknown) (Alton Geoscience, 1997).

Adjacent properties have been developed for industrial and commercial use. The Continental Heat Treating, Inc. (CHT) facility, located adjacent to the southeastern property line of the site, uses tetrachloroethylene (PCE) for business operations. The company has been operating at this location since 1969 (Alton Geoscience, 1997).

An ongoing groundwater characterization study is being conducted by the Oil Field Reclamation Project (OFRP) on approximately 272 acres of undeveloped land adjacent to the site to the northeast. Area B of the OFRP project is located approximately 750 feet northeast (upgradient) of the Jalk Fee Property. The results of the OFRP study suggest that dissolved-phase hydrocarbons have impacted groundwater regionally with volatile organic compounds (VOCs) including benzene, PCE, and TCE and semi-volatile organic compounds (SVOCs) including phenolic compounds (Alton Geoscience, 1997).

2.1 HYDROGEOLOGIC SETTING

The site is located within the Santa Fe Springs Oil Field on the Santa Fe Springs Plain, which is part of the Montebello Forebay non-pressure area of the Central Basin. Groundwater is found throughout the region under unconfined conditions in the Recent Alluvium and in the underlying Exposition Aquifer. Within the Santa Fe Springs Oil Field, the upper 100 feet of sediments consist predominantly of permeable sands, although the upper 15 feet of sediments have a higher silt and clay content and lower permeability. According to the California Department of Water Resources (CDWR) Bulletin 104 (1988), the first regional groundwater-bearing zone is the Exposition Aquifer, which is first encountered at approximately 60 fbg. The second regional aquifer is the Gage Aquifer, first encountered at approximately 110 fbg.

The Los Angeles County Department of Public Works (LACDPW) has information on a well (number 1625-N) located approximately two-thirds of a mile northwest of the Jalk Fee property, at the intersection of Telegraph Road and Norwalk Boulevard. Groundwater in this well was measured at 58 fbg on April 30, 1992, which corresponds with the top of the saturated portion of the Exposition Aquifer.

Significant hydrologic features in the area included the San Gabriel River, which flows approximately north-south along the western edge of the city. There are also two extensive water spreading grounds/percolation basins approximately 1 to 2.5 miles northwest of the city limits. These features will act as groundwater recharge, or "mounding" areas, thus inducing groundwater flow away from them (Alton Geoscience, 1997).

3.0 PREVIOUS SITE ASSESSMENT ACTIVITIES

In August 1988, Woodward-Clyde drilled soil borings in the eastern portion of the site. A 1994 McLaren-Hart report indicated no final report of this site assessment work was generated (Alton Geoscience, 1997).

Between November 1990 and September 1991, a total of 27 borings (inferred SB and SS borings) were drilled by McLaren-Hart at various locations within the property to depths ranging from approximately 20 to 55 feet below grade (fbg). Additionally, several trench excavations were completed in the former boneyard and in eight former sump areas, and a shallow methane gas survey was conducted. Maximum concentrations of 2,500 milligrams per kilogram (mg/kg) PCE were detected in trench soil sample T9A-1A, located in the southeast portion of the property, at a depth of approximately 4 fbg. A maximum concentration of 29,000 mg/kg petroleum hydrocarbons (C5 to C30) was detected in a soil sample collected from the southeast portion of the property. A concentration of 0.037 mg/kg PCE was also detected in a surface sample collected along the northern property boundary (SS-1) (Alton Geoscience, 1997).

Groundwater Monitoring Wells MMW-3 through MMW-5 were installed at the Jalk Fee site in January 1994 by McLaren-Hart. These monitoring wells were installed to assess whether past onsite oil production activities and/or offsite properties have impacted groundwater beneath the Jalk Fee property (Alton Geoscience, 1997).

Between July and September 1994, McLaren-Hart completed a total of 18 Geoprobe borings (GP-1 through GP-18) at the site to total depths ranging from 30 to 48 fbg in the southeastern portion of the site. PCE was detected in Boring GP-6 at a depth of approximately 15 fbg (maximum concentration of 55,000 mg/kg). The maximum concentration of 27,000 mg/kg total recoverable petroleum hydrocarbons (TRPH) was detected in Boring GP-1 at a depth of approximately 20 fbg (Alton Geoscience, 1997).

In December 1995, McLaren-Hart completed additional site assessment activities which included the drilling/advancement of:

- A total of 15 Geoprobe borings (MH-2, MH-4 through MH-6 through MH-9 [northwest portion of site], MH-10 and MH-11 [northeast portion of site], and GP-19 through GP-24 [southeast portion of site] to total depths of up to approximately 40 fbg.
- One continuously sampled Geoprobe boring (Macro) to a total depth of approximately 42 fbg in the southeast portion of the site.
- 20 hand auger borings to total depths of approximately one fbg in the vicinity of the former bioremediation cells.
- Two hollow-stem auger borings (MB-1 and MB-2) to depths of approximately 60 fbg to further characterize the vertical extent of impacted soil in the southern portion of the site.
- Nine soil gas probes (SG-1 through SG-9) in the area of the suspected former trucking operations in the central portion of the site to depths of approximately 5 and 10 fbg.

The maximum concentration of 4.1 mg/kg PCE was detected in Boring MB-1 at a depth of approximately 25 fbg. The deepest detected impacted soil (0.055 mg/kg PCE) was encountered

in Boring MB-1 at a depth of approximately 55 fbg (maximum depth of investigation 59 fbg) (Alton Geoscience, 1997).

In June and July 1997, Alton Geoscience drilled 22 Geoprobe borings (GP-25 through GP-46) and nine hollow-stem auger soil borings (HS-1 through HS-9). Maximum TRPH (9,100 mg/kg in GP-25 at 10 fbg) and chlorinated hydrocarbon (42 mg/kg PCE at GP-40 at 5 fbg) concentrations were detected near the southern property line of the site in the vicinity of the former CHT degreaser line locations identified by McLaren-Hart in the 1996 Phase I Environmental Site Assessment (ESA) report (Alton Geoscience, 1997).

In December 1999 through January 2000, ATC Associates, Inc. (ATC) (consultant for The O'Donnell Group, Inc.) completed a Phase I and II ESA and methane gas study at the site. The Phase II ESA report indicated minor TRPH impacts were observed in two areas (740 mg/kg at P-12 at 10 fbg [under proposed Building A location] and 1,570 mg/kg at A-2 at 10 fbg [just south of proposed Building C location]). The methane gas study indicated "there is a very low likelihood that elevated concentrations of methane gas are present at the site in near-surface soils."

A summary of the findings of the previous site assessment activities is provided below:

- Soil contaminants beneath the site generally consisted of halogenated volatile organic compounds (HVOCs; primarily PCE and TCE) and petroleum hydrocarbons. Based on information obtained during previous studies, the possible HVOC source is from the CHT site to the south of the Jalk Fee property. In addition, other petroleum hydrocarbon impacted soil onsite is likely related to the site's land use history as a petroleum production field.

- Soil encountered beneath the site generally consists of silty sand, sandy silt, and silt from grade to approximately 40 fbg with interbeds of sand between approximately 10 and 20 fbg. Sand is generally present between approximately 40 and 100 fbg (maximum depth of investigation, based on boring logs from McLaren-Hart).

- Groundwater is present beneath the Jalk Fee site (MMW-3 through MMW-5) at approximately 70 fbg with a south-southwest flow direction (TRC, 2000). Based on available historical data, maximum concentrations of 2,200 micrograms per liter (µg/L) PCE and 180 µg/L TCE were detected in MMW-5 in March 1995 (Alton Geoscience, 1997). HVOC-impacted groundwater is likely affected by offsite sources.

4.0 PREVIOUS REMEDIAL ACTIVITIES

In May 1994, soil treatment was initiated in two bioremediation cells (Cell #1 and Cell #2) at the site by McLaren-Hart. Soil in the bioremediation cells was derived from properties in the Mobil Operated Santa Fe Springs Oil Field including the Jalk Fee (720 cubic yards), DeWenter/Jordan/Green (23,000 cubic yards), Baker/Humble (8,950 cubic yards) properties, and the "Oil Well 732-C" site (1,600 cubic yards). Confirmation soil samples were collected from the cells in December 1995, and closure of the bioremediation cells was received in April 1997 (Alton Geoscience, 1997).

In 1996, McLaren-Hart completed the remediation of lead contaminated soil from the "boneyard area" in the southwest corner of the site. McLaren-Hart received closure from the Department of Toxic Substances Control (DTSC) in December 1996.

In June 1998, Alton Geoscience completed the remediation of HVOC and petroleum hydrocarbon contaminated soil in three areas along the southern property line of the site. At the completion of the soil remediation work, a fate and transport model was completed to show that the concentrations of the residual hydrocarbons left in-place posed no risk to groundwater. Based on the results of the soil remediation activities and the fate and transport model, the California Regional Water Quality Control Board (CRWQCB) issued a closure letter on March 1, 1999 (Alton Geoscience, 1999).

In September and October 2000, ATC was contracted by Hathaway Oil Company to remove petroleum pipelines and the tank battery in the northwest corner of the site as well as remediate contaminated soil encountered during this removal work associated with historical Hathaway Oil Company operations. The pipelines and tank battery removal was completed in October 2000 with the soil remediation activities still in progress. In addition, the abandonment of the remaining onsite oil wells which were operated by Hathaway Oil Company was completed in October 2000 by AllenCo.

5.0 REMEDIAL FIELD ACTIVITIES

Remedial activities (soil excavation, confirmation soil sampling and analysis, soil treatment and soil import and compaction) were completed from October 24 to November 21, 2000 in accordance with the TRC RAP dated October 20, 2000 and revised RAP dated November 8, 2000.

5.1 SOIL EXCAVATION

Soil was excavated from areas identified as SB-49, M-1, M-2, M-3, M-7, M-8 and M-9 on Figure 2. Soil was excavated and stockpiled onsite until based on field observations (visual and organic vapor

monitor [OVM] readings), it was determined hydrocarbon impacted soil above the established cleanup standards has been removed. A summary of each excavation is provided below:

AREA	LENGTH (feet)	WIDTH (feet)	DEPTH (fbg)
SB-49	100	12	6 to 13
M-1	30	30	14
M-2	15	15	10
M-3	40	40	19
M-7	30	15	13
M-8	30	20	13
M-9	50	50	24

Hydrocarbon impacted soil above the established cleanup standards were excavated in each area with the exception of M-1, M-3, and M-9. Based on the depth of the hydrocarbon impacted soil encountered at the following excavation areas:

- M-1 at 14 feet below grade (fbg) (334 mg/kg for C4-C12, 2,020 mg/kg for C13-C22 and 3,200 mg/kg for C23-C40);
- M-3 at 19 fbg (5,510 mg/kg for C4-C12, 4,630 mg/kg for C13-C22 and 3,796 mg/kg for C23-C40); and
- M-9 at 24 fbg (658 mg/kg for C4-C12, 1,219 mg/kg for C13-C22 and 697 mg/kg for C23-C40),

TRC completed a risk assessment (Section 7.0) for the in-place hydrocarbon concentrations at these locations. Figure 2 shows the location and extent of each excavation. Other general excavation procedures are outlined in Appendix A.

5.2 CONFIRMATION SOIL SAMPLING AND ANALYSIS

Confirmation soil samples were collected in the base and sidewalls of each excavation. The depth of the sidewall confirmation soil samples were determined based on field observations as discussed in the previous section. If the initial confirmation soil samples exceeded the established cleanup standards, additional soil was excavated in these areas and confirmation samples were recollected.

Each confirmation sample was analyzed at a State of California certified hazardous waste testing laboratory for carbon chain identification using EPA Method 8015M, VOCs using EPA Method 8260B, and lead and arsenic using EPA Method 6010B. Confirmation soil sample results are summarized in Tables 1, 2 and 3 and the laboratory reports are provided in Appendix B.

5.3 SOIL TREATMENT

From November 10 to November 15, 2000, 1,775.82 tons soil was transported to American Remedial Technologies (ART) for thermal treatment under a non-hazardous waste manifest. Copies of the trucking logs and manifests and are provided in Appendix C.

5.4 IMPORT AND COMPACTION

A total of 2,235.77 tons of soil (264 tons backhauled from ART and 1,971.77 tons from West Coast Sand and Gravel) was imported to the Jalk Fee property to backfill the excavations at the site. Backhauling of soil from ART was ceased on November 14, 2000 due to the difficulty in compacted this soil.

Compaction testing using ASTM Method D1557 of the clean overburden generated during the remedial activities and of the imported soil from ART and West Coast Sand and Gravel was completed to generate the compaction curves for each soil type. Based on the compaction test results, soil was backfilled in the excavations in lifts and tested in the field for compaction by the nuclear method. Backfilling and compaction was complete on November 20, 2000. Copies of the import logs, bill of ladings, and laboratory reports (chemical and physical testing of the import) is included in Appendix D.

6.0 RESULTS OF REMEDIAL ACTIVITIES

The results of the remedial activities are summarized as follows:

- Hydrocarbon impacted soil above the established cleanup standards were excavated in each area with the exception of M-1, M-3, and M-9. Based on the depth of the hydrocarbon impacted soil encountered at excavation areas M-1 (14 fbg), M-3 (19 fbg), and M-9 (24 fbg), TRC completed a risk assessment (Section 7.0) for the in-place hydrocarbon concentrations at these locations.
- A total of 1,775.82 tons soil was excavated and transported ART for thermal treatment.
- A total of 2,235.77 tons of soil was imported to the Jalk Fee property to backfill the excavations at the site. Soil was placed in the excavations in lifts and compacted.

7.0 RISK ASSESSMENT

To evaluate if contaminated soil and groundwater pose a potential risk to humans associated with the proposed development of the subject site, available data were evaluated, a receptor/pathway exposure assessment was completed, available toxicity data were reviewed, and the potential risk to humans was estimated. Both carcinogenic and non-carcinogenic risks were evaluated. The

equations and input parameters used for risk simulations have been summarized and are included in Appendix E. In addition, a supplemental fate and transport analysis was conducted in order to evaluate whether the residual chlorinated hydrocarbons in soil pose a significant threat to groundwater underlying the site. An overview of the supplemental fate and transport analysis and the results of the modeling are provided in Appendix F.

7.1 EXPOSURE ASSESSMENT

An exposure assessment is the process of estimating potential human exposure to a chemical in the environment. An exposure assessment is conducted to estimate the magnitude of actual and/or potential human exposures, the frequency and duration of these exposures, and the pathways by which humans are potentially exposed. In a typical exposure assessment, reasonable maximum estimates of exposure are developed for both current and future land-use assumptions (EPA, 1989b). Reasonable maximum estimates of exposure were developed for the subject site under current and anticipated future land use. This assessment also includes an evaluation of the potential risks to construction working during site development.

Off-site potential receptors/pathways other than those directly associated with the future site development were not considered in this risk assessment. However, an onsite baseline assessment of potential human exposures to volatile organic compounds in air was performed. This baseline assessment is considered to a conservative, yet representative, evaluation of potential human health risks associated with current, baseline conditions. Risks that are protective of onsite exposures would also be protective of offsite exposures.

The primary components of an exposure assessment include:

- Identification of the potential exposure pathway(s),
- Identification of reasonable exposure scenarios, and
- Prediction of chemical concentrations at points of potential exposure.

Exposure pathways are identified based on consideration of the sources, releases, types, and locations of chemicals at the site; the environmental fate of chemicals, and the location and activities of potentially exposed populations (EPA, 1989b). For a complete exposure pathway to exist, the following elements must be present:

- A source or mechanism for chemical release,
- An environmental transport medium,
- A point of human exposure with the medium, and
- A route of exposure

An incomplete exposure pathway is one which does not result in potential human exposure and, therefore, does not result in a significant risk. If a complete exposure pathway is identified, potential exposures may be quantified and risk evaluation performed or the exposure pathway may be eliminated through remedial measures or other engineering and administrative controls.

According to EPA (1989b), exposure pathways may be excluded from quantitative evaluation based on the following conditions:

- The exposure resulting from the pathway is much less than that from another pathway involving the same medium at the same exposure point,
- The potential magnitude of exposure from a pathway is low, or
- The probability of exposure occurring is very low and the risks associated with the occurrence are not high.

Estimates of exposure in this assessment are based on soil and groundwater quality data collected during previous environmental investigations (excluding data collected prior to remedial activities) and environmental fate modeling. The details and methodology associated with the environmental fate and transport modeling of chemicals in the vadose zone are discussed in Appendix F.

7.1.1 Exposure Pathways and Scenarios

Typical exposure pathways as specified by the EPA have been considered (EPA, 1991b). This evaluation identifies the potential receptors and exposure pathways through which humans (i.e., receptors) can potentially be exposed to chemicals. Potential exposure pathways were evaluated to reflect the actual site conditions and anticipated future land use without being unrealistically conservative. The uncertainties associated with assumptions regarding specific property development activities and planned land use are not considered to have a substantive effect on the exposure pathway analysis unless such activities or land use are dramatically different from that assumed for this analysis. An example of a dramatically different land use would include, for example, construction of a school, daycare center, or residences on the subject property. Given the current site zoning and surrounding land use, it does not appear that these alternate land use scenarios are likely.

Pathways that do not exist, are not relevant to the subject property development plans, or have a low potential of exposure were excluded from further consideration and were not evaluated quantitatively. For example, impacted soils exist below the ground surface and exposure pathways which require direct contact with impacted soil (i.e., dermal contact and incidental ingestion of soil) were considered only for construction workers who may come into contact with soil during onsite grading and trenching. The vast majority of the site will either be paved or

covered with structures or other improvements under a post-development scenario. If future direct contact with impacted soil were to occur, it is anticipated that the frequency and magnitude of the exposure would be low. Consequently, direct contact with impacted soil under a post-development scenario was not quantitatively evaluated.

The potential exposure pathways and populations that were quantitatively evaluated in this risk assessment are:

- Baseline exposure conditions (current site conditions prior to development). The baseline exposure conditions include analysis of potential human health risks associated with inhalation of volatile compounds from subsurface soil by a hypothetical outdoor worker.
- Inhalation of volatile compounds from subsurface soil and groundwater by construction workers and future property employees and/or visitors (indoor and outdoor),
- Incidental ingestion of contaminated soil by construction workers involved in subsurface activities,
- Inhalation of fugitive dust by construction workers involved in subsurface activities, and,
- Dermal exposure to contaminated soil by construction workers involved in subsurface activities.

Note that a quantitative evaluation of risk to subject property visitors was not explicitly evaluated because it was assumed that the visitor duration would be significantly less than that of an onsite employee. Again, the exposure to children of visitors would also be significantly less than that of an employee even though children have a lower body weight and may be more susceptible to chemical exposures. The lower body weight and higher susceptibility is offset by the substantially lower exposure duration of a child. Therefore, if any exposures that are protective of employees will also be protective of adult and juvenile visitors.

Although the groundwater in the vicinity of the subject property is impacted by volatile organic compounds, the depth to groundwater precludes potential direct exposure to this matrix. Furthermore, no onsite or adjacent offsite use of groundwater has been documented. Consequently, potential exposures (e.g., ingestion of drinking water) associated with utilized groundwater were not quantitatively evaluated. An environmental fate and transport analysis of the potential impact to groundwater related to the presence of residual PCE in soil is discussed in Section 7.1.1.4.

The potential human exposure conditions were evaluated for potential construction workers and future subject property employees based on a reasonable maximum exposure (RME) scenario. The RME scenario represents an estimate of the reasonable maximum exposure that expected to occur under both current and future land use considerations. In general, the RME is defined as the highest exposure that is reasonably expected to occur at a site. The RME is estimated for individual

exposure pathways (e.g., inhalation of volatile compounds, incidental ingestion of soil, and dermal contact with soil). Where potential exposures occur through more than one exposure pathway, the combination of exposures across all pathways represents the cumulative RME scenario. The intent of the RME is to estimate a conservative exposure condition (i.e., well above the average exposure) that is still within the range of possible exposures.

7.1.1.1 Potential Human Exposure Under Baseline Conditions

Baseline conditions are intended to simulate environmental conditions at the Site as they exist today for a worker who is at the Site, but is not involved in activities that would disrupt contaminated soil. For example, these workers could include a security guard patrolling the Site, a construction supervisor, or an occasional site visitor. In general, the baseline conditions are intended to evaluate the potential human health impacts that could result prior to the proposed development of the property. The following approach was used to estimate exposure concentrations and risk:

- The exposure route and pathway is inhalation of volatiles from subsurface soil;
- The higher of either the normal or log-normal 95% UCL concentrations for each VOC in soil was used in the simulation (Table E-1);
- Except for exposure duration, default input parameters from EPA guidance documents were used (EPA, 1991b); and
- Exposure duration was assumed to be five days per week for 2 years, which would simulate an upper-bound estimate of the period before site development is initiated.
- Site specific parameters such as soil porosity, moisture content, and bulk density were used in the estimation of exposure point concentrations of volatile compounds in air.

7.1.1.2 Potential Construction Worker Exposures

The risk to construction workers is intended to simulate a worker involved in the disruption of contaminated soil during grading, trenching, and other subsurface activity such as connecting to the sewer system or installing subsurface electrical utilities. The following approach was used to estimate exposure concentrations and risk:

- Exposure routes and pathways evaluated include dermal contact, inhalation of vapors and fugitive dust, and incidental ingestion of soil;
- The higher of either the normal or log-normal 95% UCL concentrations for each COPC in soil and groundwater from the Site were used in the simulations (Tables E-1 through E-4);
- All impacted soil, regardless of depth, was considered to be potentially available for contact during the construction activities. In reality, it is likely that construction activities would only involve direct contact with the first 5 to 10 feet of soil. Therefore, the use of all soil data

in the construction worker exposure scenario is a simplifying and conservative assumption as the highest chemical concentrations that remain in soil are generally located at depths of greater than 10 feet below grade;

- Standard EPA RAGS equations were used to simulate the risk;
- Except for exposure duration and selected site specific parameters, default input parameters from EPA guidance documents were used (EPA, 1991b);
- Exposure duration was assumed over a period of six months. This time period represents the amount of time during which activities involving the disturbance of subsurface soil would be expected to occur.
- Site specific parameters such as soil porosity, moisture content, and bulk density were used in the estimation of exposure point concentrations of volatile compounds in air.

7.1.1.3 Potential Future Onsite Worker Exposures (Post Development)

The risk to potential future employees working within structures located on the developed property is intended to conservatively simulate a typical onsite worker exposure. Since the precise nature of the activities performed by future onsite employees is not known, potential exposures are evaluated for both indoor and outdoor occupations. A typical indoor employee would be an office worker or stock person working inside a proposed building. A typical outdoor employee would be a security guard working outside in the proposed parking lot area. Under the post development exposure scenario, the dermal and incidental ingestion of soil exposure scenarios is incomplete (due to the anticipated presence of paving and buildings across the majority of the subject site) and is not quantitatively evaluated. The following approach was used to estimate exposure concentrations and risk:

- The route of exposure is inhalation of vapors from both soil and groundwater;
- For soil, the higher of either the normal or log-normal 95% UCL concentration of chemicals in soil as determined from previous site assessment and post-remedial confirmation sampling were used in the simulations (Table E-1);
- The higher of either the normal or log-normal 95% UCL concentrations of chemicals in groundwater from Monitoring Wells MW-3, MW-4, and MW-5 as determined from data collected between March 1994 and August 2000 were used in the simulations (Table E-2).
- Except for a slab attenuation factor, standard EPA RAGS equations were used for indoor employees (EPA, 1991b) and standard EPA preliminary remediation goal (PRG) equations were used for outdoor employees (EPA, 1995);
- A 100-fold concrete slab attenuation factor was used in the simulations to be conservative. The slab attenuation factor accounts for the decrease permeability and diffusion of volatile organic compounds through either an asphalt or concrete surface. In some cases, the EPA has recognized 1000-fold slab attenuation factors, which is 10 times higher than the slab

attenuation factor used in this risk assessment. The use of a higher slab attenuation factor would result in a lower estimate of exposure and risk;
- Except for selected site specific parameters, default input parameters from EPA guidance documents were used (EPA, 1991b); and
- Site specific parameters such as soil porosity, moisture content, and bulk density were used in the estimation of exposure point concentrations of VOCs in air.

7.1.1.4 Environmental Fate and Transport Analysis

Environmental fate and transport analysis was previously performed and is described in the Site Assessment Report/Remedial Action Plan dated October 10, 1997. The previous environmental fate and transport analysis was conducted using the vadose zone chemical transport model SESOIL to simulate precipitation-driven migration of chlorinated solvents PCE, TCE, and cis-1,2-DCE and crude oil (using a naphthalene surrogate to represent potential migration of crude oil range hydrocarbons). The 1997 fate and transport analysis was based on the estimated lateral and vertical extent of solvent-affected soil. Chemical mass loading and soil properties used in the fate and transport model were based on site-specific data. The results of this fate and transport analysis indicate that additional remediation measures for the protection of groundwater resources are not warranted.

Despite the conclusion of the previous environmental fate and transport analysis that additional remediation was not required to protect groundwater, two remedial excavation events have been conducted on the subject site since 1997. These remedial excavations removed the primary solvent and crude-oil affected areas formerly present on the site. During the course of remedial excavation, additional confirmatory soil sampling data was obtained. The changes in site conditions and distribution of residual chlorinated and petroleum hydrocarbons resulting from the remedial excavation effort and associated confirmation sampling warrant that the previous environmental fate and transport modeling analysis be revisited.

A supplemental fate and transport modeling analysis was conducted as a component of this risk analysis. The objectives of the environmental fate and transport analysis are to:

- Refine the input parameters used in the previous environmental fate and transport analysis based on current information available regarding the concentration and distribution of PCE in soil following completion of the remedial excavations.
- Evaluate the potential for residual PCE in soil to impact groundwater underlying the subject site.
- Quantify the magnitude of potential future leaching of PCE to groundwater underlying the subject site.

An overview of the methodology and assumptions incorporated into the fate and transport analysis and the output of the fate and transport analysis are provided in Appendix F.

7.1.2 Exposure Concentrations

Exposure concentrations are dependent upon the fate and transport of the contaminants in the subsurface and into areas to be occupied by humans such as outdoor and indoor air. Typical EPA exposure models were used in this assessment. To minimize uncertainty, site-specific parameters were input into the model, where available. For example, site-specific contaminant concentrations and soil characteristics such porosity, moisture content, and bulk density were used in the models. Appendix E presents the mathematical models, equations, and input parameters used for this risk assessment.

Direct exposures to soil and diffusion of VOCs from soil into outdoor and indoor air were evaluated based on the upper 95% confidence interval (UCL) of the mean for soil samples collected on the subject site. The UCL was calculated assuming both a normal and lognormal distribution of the data. The higher of either the normal or the lognormal UCL was used to estimate potential exposure point concentrations. It should be noted that the use of arithmetic or geometric mean values (as opposed to upper 95% confidence interval values of the mean) for chemicals in soil and groundwater would result in lower risk estimates than are calculated under the RME scenario. This approach is intended to ensure that both construction worker and future onsite employee health and safety is adequately protected.

7.2 TOXICITY ASSESSMENT

Several analytes have been identified in soil and/or groundwater samples collected at the site. It should be noted that only those analytes that have been detected in either subsurface soil or groundwater and that have not been removed by remedial excavation are included for quantitative analysis. Analytes included in the quantitative risk analysis are summarized below:

Semi-Volatile Organic Compounds

- Acenapthene
- Naphthalene
- Phenanthrene

Note: Other PAHs detected in soil at depths of between 0 and 10 fbg that was removed during subsurface remedial excavation are not included in this summary. Soil that contained detected concentrations of benzo(a) pyrene, benzo(a) anthracene, chrysene, dibenzo(a,h)

anthracene, fluoranthene, indeno(1,2,3-cd) pyrene was removed during remedial excavation activities.

Volatile Organic Compounds

- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- Benzene
- Bromodichloromethane
- Chlorobenzene
- cis-1,2-Dichloroethene
- Ethylbenzene
- Isopropyl benzene
- n-Butylbenzene
- n-Propylbenzene
- sec-Butylbenzene
- Styrene
- tert-Butylbenzene
- Tetrachloroethene (PCE)
- Toluene
- Vinyl chloride
- Xylenes

Metals

- Arsenic
- Cadmium
- Chromium (Total)
- Copper

Total petroleum hydrocarbons expressed as total recoverable petroleum hydrocarbons have also been detected in soil samples collected at the subject site. Given the absence of specific toxicological criteria for unspecified petroleum hydrocarbons, general petroleum hydrocarbons are not quantitatively evaluated in this assessment. However, the evaluation of potential exposure and risk was conducted for the individual chemicals that may be present in an undifferentiated petroleum hydrocarbon matrix (e.g., polynuclear aromatic hydrocarbons, aliphatic hydrocarbons, and aromatic hydrocarbons). This approach ensures that potential risks associated with the most toxic petroleum hydrocarbons that remain in subsurface soil are adequately characterized. Other chemicals (primarily chlorinated hydrocarbons) have also been detected at the site and are quantitatively evaluated in the risk assessment process.

Based on the availability of toxicological data, a comprehensive evaluation of the dose-response literature and criteria was not performed for this risk assessment. Instead, dose-response criteria (e.g., Cancer Slope Factors and Reference Doses) derived by the United States Environmental Protection Agency (EPA) or California Environmental Protection Agency has been used in the risk calculations. Generally, the EPA-established dose-response criteria have been reviewed by a number of authorities and the values are representative of conservative estimates of human response to the indicator chemicals. Sources of information which were consulted included:

- Integrated Risk Information System (IRIS)
- Health Effects Assessment Summary Tables (HEAST)
- EPA Environmental Criteria and Assessment Office (ECAO) Documents
- National Center for Environmental Assessment (NCEA) (formerly ECAO)
- Agency for Toxic Substances and Disease Registry (ATSDR) Toxicological Profiles
- California EPA Office of Environmental Health Hazard Assessment (CalEPA)

Input parameters obtained from these sources were used in the risk assessment simulations (Appendix E, Table E-5). Toxicity data were not available for substituted benzene compounds such as isopropylbenzene, n-butylbenzene, n-propylbenzene, sec-butylbenzene, tert-butylbenzene and p-isopropyltoluene. With the exception of p-isopropyltoluene, the toxicological properties of these compounds were conservatively assumed to be equivalent to ethylbenzene. P-isopropyltoluene was evaluated as toluene. These compounds were addressed in the risk assessment simulations by adding the calculated 95% UCL concentration of each compound to the ethylbenzene or toluene concentration.

Toxicity data were also not available for phenanthrene. Phenanthrene is similar to naphthalene in structure. Phenanthrene was quantitatively evaluated by adding the calculated 95% UCL concentration of phenanthrene to the naphthalene concentration in soil.

7.3 RISK ASSESSMENT RESULTS

Risk characterization yields upper-bound estimates of carcinogenic and non-carcinogenic health risks by combining the quantitative exposure and dose-response estimates. The estimation of non-carcinogenic health risks is evaluated through the calculation of a Hazard Index. The Hazard Index is the ratio of the quantitative estimate of ambient concentration to the chemical-specific Reference Dose. The intent of the risk and hazard index estimate is to yield reasonable quantitative values of potential exposure without using such extreme assumptions that the estimates become unrealistic.

In the risk assessment of human exposures to carcinogenic chemicals under this evaluation, the *de minimis* or insignificant risk level of 1 in 1,000,000 (1×10^{-6}) was used. This *de minimis* risk

is the most conservative in a range of acceptable risk levels that have historically been applied in risk management decision making. In general, de minimis risks in federal regulatory decision making have ranged from 1 in 10,000 (1×10^{-4}) to 1 in 1,000,000 (1×10^{-6}). In general, acceptable risks of 1×10^{-6} have been used where large populations may be exposed. Higher risks (e.g., 1×10^{-4}) have been considered to be acceptable when relatively small populations may be exposed.

For non-carcinogenic effects, a Hazard Index approach is used to evaluate potential risks. The hazard index approach assumes that non-carcinogenic effects occur when a threshold level of exposure is exceeded. Therefore, a hazard index of 1.0 or less indicates that no adverse non-carcinogenic health risks are expected to occur.

Carcinogenic and non-carcinogenic risks were estimated using standard EPA equations as presented in Appendix E. Summaries of the analytical results and statistical analysis of soil and groundwater samples obtained from the subject site are provided in Appendix E, Tables E-1 through E-4. The toxicity criteria and exposure parameters used in the calculation of carcinogenic and non-carcinogenic risks are provided in Appendix E, Tables E-5 and E-6, respectively. Estimates of exposure point concentrations and calculations of carcinogenic and non-carcinogenic risks are provided in Appendix E, Table E-7 through E-31. Overviews of the carcinogenic and noncarcinogenic risk estimates for each of the exposure pathways are provided in Appendix E, Tables E-32 and E-33, respectively.

7.3.1 Baseline Conditions Exposure

The baseline incremental cancer risk is estimated to be approximately 4×10^{-7}, which is less than the 1×10^{-6} criteria for acceptable risk (Table E-7, Appendix E). The baseline non-carcinogenic hazard index is estimated to be approximately 0.01, which is below the 1.0 criteria for acceptable non-carcinogenic risk (Table E-8, Appendix E). Based on these data, there is no apparent threat to human health under the current, pre-development conditions.

7.3.2 Construction Worker Exposure

The cumulative incremental cancer risk (including inhalation of VOCs and fugitive dust, dermal contact, and incidental ingestion of soil) for a construction worker involved in the proposed development is estimated to be approximately 2×10^{-7} (Table E-32). This incremental risk estimate is less than the 1×10^{-6} criteria for acceptable risk. Approximately 73 percent of the estimated risk is attributable to inhalation of vapors from impacted soil and groundwater. Dermal contact with impacted soil accounts for approximately 3% of the total risk. Approximately 24% of the total risk is associated with the incidental ingestion of soil exposure pathway. The risk from the inhalation of fugitive dust is not a significant exposure pathway and

contributes less than 0.1% of the total carcinogenic risk estimate for the construction worker exposure scenario.

The construction worker non-carcinogenic hazard index is estimated to be approximately 0.04 (Table E-33). Since this hazard index is less than unity (1.0), no adverse non-carcinogenic effects are expected to occur. Approximately 50 percent of the non-carcinogenic risk is attributable to inhalation of VOCs from soil and groundwater. Incidental ingestion of soil accounts for approximately 44 percent of the total non-carcinogenic risk estimate (primarily due to the presence of arsenic, cadmium, and copper) and dermal contact accounts for approximately 6 percent of the remaining non-carcinogenic risk. The non-carcinogenic risk from the inhalation of fugitive dust is insignificant relative to the other exposure pathways. The use of dust control measures during construction activities is encouraged and may be required to control nuisance dust, but is not necessary to protect human health during the construction activities.

Based on this characterization, the estimated risk to construction workers involved with subsurface activities at the Site does not exceed the acceptable risk levels as established by EPA, CalEPA, and other regulatory entities. No specific mitigation or control measures are warranted to protect potential future construction workers from chemical exposures during the development of this property. Development of the subject property can occur without toxic control measures or additional remediation.

7.3.3 Future Onsite Worker Exposure

The risk characterization for the RME scenario for both outdoor and indoor employees is discussed in the following sections.

7.3.3.1 Future Indoor Worker Exposure

Based on the RME scenario, the potential future indoor employee incremental cancer risk for the vapor inhalation exposure pathway is estimated to be approximately 1×10^{-6}. This value meets the 1×10^{-6} criteria for acceptable risk. Approximately 67 percent of the estimated risk is attributable to inhalation of PCE vapors from impacted soil and 8 percent of the estimated risk is attributable to inhalation of PCE vapors from impacted groundwater (Tables E-21, E-23, and E-32). Vinyl chloride represents approximately 28 percent of the total estimated risk through the inhalation of vinyl chloride from soil emissions.

The potential future indoor employee non-carcinogenic hazard index for the vapor inhalation pathway is estimated to be 0.004. The hazard index estimates for inhalation of vapors from soil and groundwater are presented in Tables E-22 and E-24. Approximately 2 percent of the estimated risk is attributable to inhalation of vapors from VOC impacted groundwater and 98

percent is from inhalation of vapors from VOC impacted soil (Table E-33). This hazard index estimate accounts for exposure to vapors from both soil and groundwater. Since this hazard index estimate is less than unity (1.0), no adverse non-carcinogenic effects are expected to occur through this exposure pathway.

Based on this RME scenario, the potential risks to future employees working inside of a proposed onsite structure are below acceptable risk levels as established by EPA, CalEPA, and other regulatory entities. Consequently, no mitigation or engineering controls are required to reduce potential risks to acceptable levels. It should be noted that the risk to indoor employees is greater than the risk to a hypothetical outdoor employee. This is logical because the air exchanges outdoors associated with wind should be much higher than default air exchange rates for commercial buildings.

7.3.3.2 Future Outdoor Worker Exposure

Based on the RME scenario, the potential future outdoor worker incremental cancer risk for the vapor inhalation pathway is estimated to be approximately 5×10^{-8}. This value is below the 1×10^{-6} criteria for acceptable risk. Approximately 3 percent of the estimated risk is attributable to inhalation of vapors from impacted groundwater, and 3 percent of the estimated risk is attributable to inhalation of vapors from impacted soil (Tables E-17, E-19, and E-32).

The hazard index estimates for inhalation of vapors from soil and groundwater are presented in Tables E-18 and E-20, respectively. The potential future outdoor employee non-carcinogenic hazard index is 0.0001. For the outdoor air inhalation exposure scenario, approximately 98 percent of the total hazard index is related to inhalation of vapors from impacted soil. Inhalation of vapors from impacted groundwater comprises approximately 2 percent of the total non-carcinogenic hazard index under this exposure scenario. Since the hazard index estimate for the future outdoor worker population is less than unity (1.0), no adverse non-carcinogenic effects are expected to occur through this exposure pathway.

Based on the RME scenario for future outdoor workers, the potential carcinogenic and non-carcinogenic risks for future onsite workers are below acceptable risk levels as established by EPA, CalEPA, and other regulatory entities. Consequently, no mitigation or engineering controls are required to reduce potential risks to acceptable levels.

7.3.4 UNCERTAINTIES AND LIMITATIONS

There is a certain amount of uncertainty in any simulation of natural processes. To account for these uncertainties, the models used in this risk assessment were designed to be conservative or to "err on the safe side". The models in this risk assessment use conservative assumptions, which

do not take into consideration legitimate natural processes such as biodegradation and source reduction. In this respect, the models do not approximate conditions that are likely to occur. Therefore, these models and subsequent risk values are judged to be conservative.

Where values are uncertain because of a lack of site-specific data, regulatory agency default values and/or conservative values have been used. Matrix-specific chemical concentrations were derived from previous environmental assessment and post-remedial confirmation sampling activities conducted on site. These data exclude, where applicable, chemical concentrations previously detected in soil samples that were subsequently removed during remedial excavation activities.

Historical soil and data that have not been remediated have been incorporated into this risk assessment. Certain chemicals (e.g., benzo(a) pyrene and other PAHs) that were detected in limited soil samples collected from areas that were subsequently remediated, were not quantitatively evaluated in this assessment. The exclusion of these chemicals from the quantitative analysis is appropriate as PAHs have not been detected in soil samples collected from areas that have not been excavated. In general, the most significant potential exposure routes for PAHs in soil are dermal contact and incidental ingestion.

The groundwater risk assessment (i.e., volatilization of chemicals from groundwater into outdoor or indoor air) considers the volatile organic compound analyses obtained over the past six years of groundwater monitoring and sampling. Impacts to risk calculations from model input parameters and assumptions are discussed in the following section.

A substantial source of conservatism inherent in the human health risk assessment and fate and transport analysis involves the assumption of a non-diminishing source as a simplifying mechanism. The assumption of a non-diminishing source neglects natural biological degradation and diffusion as loss mechanisms in the subsurface environment. The reader is encouraged to consider this assumption in light of the calculated human health risks and modeled impact to groundwater.

In some cases, the EPA has recognized slab attenuation factors for diffusion of vapors through building foundations as high as 0.001. This factor is 10 times higher than the slab attenuation factor used in this risk assessment. If the higher slab attenuation factor were used, then the resulting risks would be decreased by a factor of 10. Although the conservative approach yields a higher estimate of potential human health risk, we have elected to err on the safe side to provide an additional safety factor for the subject property.

7.3.4.1 Biased Data

Site-specific data used in this risk assessment may be biased both spatially and temporally. The potential effects of data bias are incorporated into the risk assessment through the use of upper confidence levels of the arithmetic or geometric mean concentrations in soil and/or groundwater. The net result of the use of upper confidence levels of mean concentrations results in a conservative estimate of potential exposure and risk. The actual exposure and risk are likely to be lower.

Potential for Spatially Biased Data

The collection of information to characterize the nature and extent of contamination at a site is commonly not designed to provide representative, unbiased data sets for exposure estimates. This is typical for site assessment data when data are not collected in a simple random and/or systematic random manner. The cumulative soils data set is spatially biased because a portion of the soil beneath the subject property contains minimal to non-detect concentrations of contaminants. However, the majority of the existing data set includes data that were purposively collected from impacted areas in order to better define the nature and extent of contamination. Use of the existing data set may create a conservative bias in the estimation of exposure and risk and is likely to overestimate the actual source concentrations, exposure, and risk.

Potential for Temporally Biased Data

The cumulative data set includes samples collected and analyzed in 1992, 1993, 1995 and 1997. Including data collected in 1992 through 1997 with data collected in 2000 may potentially temporally bias the combined data set. This temporal bias occurs because the loss mechanisms of biodegradation and volatilization to air are not taken into account. Degradation of petroleum and chlorinated hydrocarbons by anaerobic and aerobic pathways is a recognized and well-documented natural process. This risk assessment did not consider the potential for biodegradation to decrease subsurface contamination over time. Further, the risk assessment did not consider potential depletion of the source due to volatilization and natural attenuation. By ignoring these factors, the risk assessment results may overestimate site exposures, human health risks, and potential impacts to groundwater.

7.3.4.2 Soil Physical Properties

Vapor diffusion models such as those employed in this risk assessment are sensitive to effective diffusivity and air filled porosity. The effective diffusivity is a function of soil tortuosity, total porosity, and air filled porosity. The air filled soil porosity is equal to the total porosity minus the water filled soil porosity. In general, the higher the air filled porosity, the higher the effective

diffusivity and resulting potential risk. Therefore, to reduce the uncertainty associated with the model, twelve soil samples collected from the subject site were analyzed for physical parameters were used to estimate the total porosity and air filled porosity at the subject site. These samples were collected from soil borings HS-1, HS-2, HS-3, and HS-4 at depths of between 16 and 56 feet below grade.

Since the majority of the impacted soil is present at depths of less than 20 feet below grade, only the shallow soil samples from each of these borings was used to determine the average total porosity, air-filled porosity, and water-filled porosity. It should be noted that this simplification results in higher rates of vapor diffusion from groundwater as the effective diffusivity of a chemical decreases with an increase in the water-filled porosity. In general, the air-filled porosity of soil samples collected from depths of greater than 16 fbg are less than that of soil samples collected from 16 fbg. The average soil porosity of the samples collected from approximately 16 fbg is 43.2%. The average water-filled and air-filled porosities of the same soil samples are 15.0% and 28.2%, respectively. These values are used in the modeling of vapor diffusion from the subsurface into outdoor air and future site structures. The use of site-specific data in the risk assessment and fate and transport modeling serves to decrease the uncertainty that would otherwise be associated with the use of standardized or default data.

The effective diffusivity is a function of the contaminant diffusion coefficient in air that is experimentally derived. This parameter varies by compound and is influenced by temperature and molecular weight. Because no data are available to support using alternate air diffusion coefficients, chemical air diffusion coefficients cited by USEPA were used in the risk simulations (EPA, 2000).

8.0 CONCLUSIONS

- The objective of the soil remediation efforts outlined in the TRC RAP and revised RAP have been achieved.
- The results of the baseline risk calculations indicate that, under current site conditions, the potential carcinogenic and noncarcinogenic risk to onsite workers prior to initiating site development activities is below acceptable levels as established by the EPA, CalEPA, and other regulatory entities. Consequently, no additional mitigation is warranted in order to protect human health prior to initiating site development activities.
- An evaluation of potential construction worker exposure to both carcinogenic and non-carcinogenic chemicals in soil and groundwater was completed. Potential exposure pathways evaluated for the construction worker exposure included inhalation of VOCs and fugitive dust, dermal contact and incidental ingestion of impacted soil. The upper-bound carcinogenic and non-carcinogenic risks for the construction worker population are below acceptable levels as established by the EPA, CalEPA, and other regulatory entities. The estimated occupational exposures are also well below occupational exposure criteria as established by the Occupational Safety and Health Administration (OSHA), American Conference of Governmental Industrial Hygienists (ACGIH), and National Institute for Occupational Safety and Health (NIOSH). Therefore, no additional mitigation or construction contingencies are necessary to protect from potential exposure to chemicals emanating from soil or groundwater during the site construction. Although the subject site has been adequately characterized and mitigated to below applicable human health thresholds, there is a potential that additional impacted soil may be discovered during construction and development operations. TRC recommends that a construction contingency plan be developed in order to document and detail an appropriate protocol for the management of potential impacted soil that may be encountered during construction work. A construction contingency plan would serve as a primary field guide for decision making by contractors involved in the site development activities.
- Potential carcinogenic and non-carcinogenic risks were quantitatively evaluated under a post-development scenario. Potential exposure pathways evaluated for future onsite employees included indoor and outdoor exposures to VOCs diffusing from residual impacted soil and groundwater. The upper-bound carcinogenic and non-carcinogenic risks for the future onsite worker population are below acceptable levels as established by the EPA, CalEPA, and other regulatory entities. Based on this information, no additional mitigation or control measures are warranted to protect the health of future onsite workers after site development has been completed.
- A supplemental fate and transport analysis was performed in order to evaluate the potential for residual solvents and petroleum hydrocarbons to impact groundwater. The supplemental fate and transport analysis included additional data generated from the two remedial excavation events performed between 1997 and 2000. The results of the supplemental fate

and transport analysis indicate that the potential impact to groundwater underlying the site will not result in a substantial increase in the dissolved-phase hydrocarbon concentrations. Based on the results of the supplemental fate and transport analysis, no additional mitigation or corrective action is necessary to protect groundwater resources beneath the site.

- Based on the results outlined in this report, TRC requests closure for this and previous soil remediation efforts at the Jalk Fee Property.

9.0 REFERENCES

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FIGURES

1 MILE 3/4 1/2 1/4 0 1 MILE

SCALE 1: 24,000

N

SOURCE:
United States Geological Survey
7.5 Minute Topographic Map:
Whittier Quadrangle

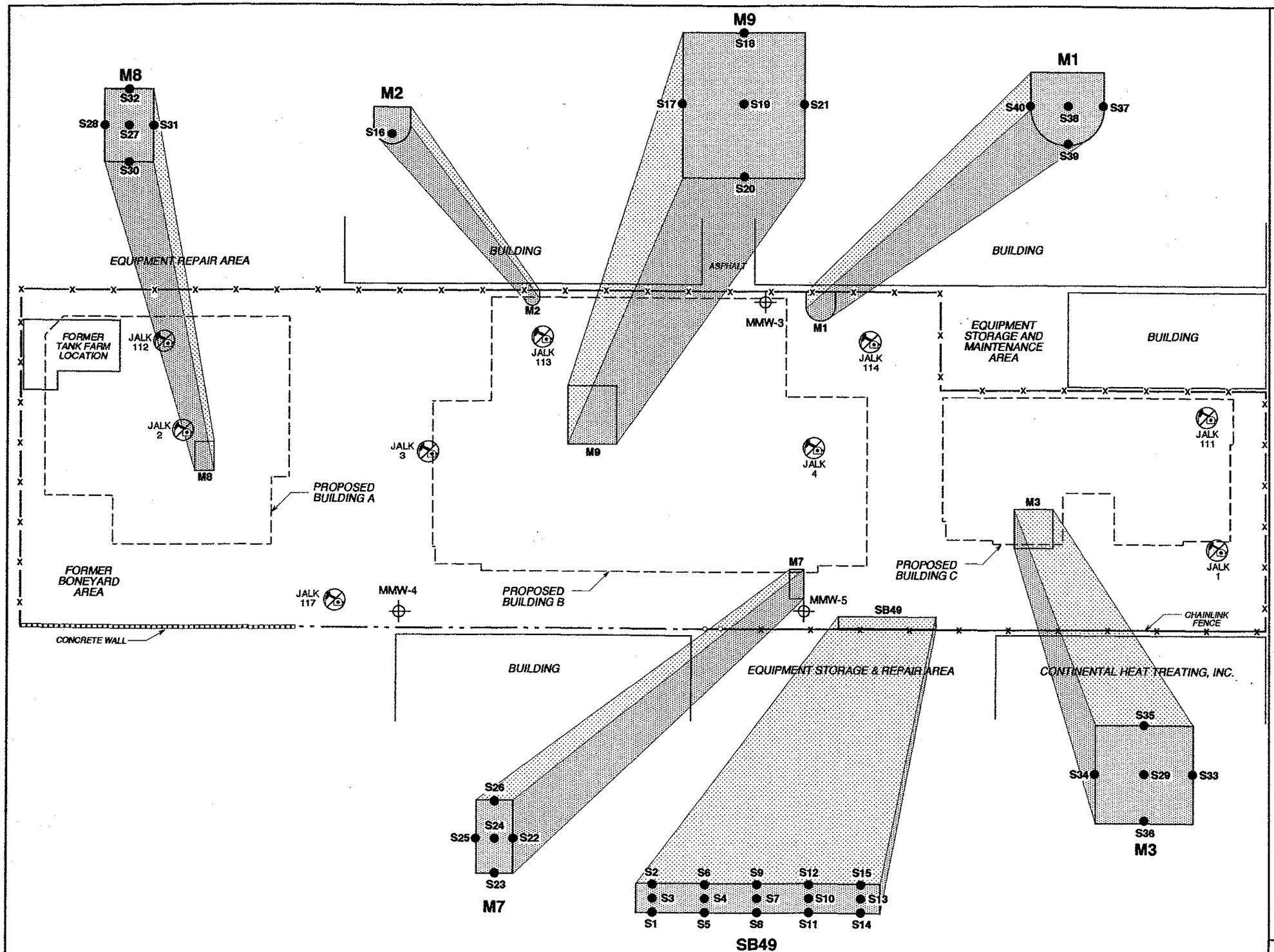
VICINITY MAP

Mobil Jalk Fee Property
10607 Norwalk Boulevard
Santa Fe Springs, California

FIGURE 1

ALTON
GEOSCIENCE
Irvine, California

23-0134 3/11/97



N

LEGEND

- M9 — Excavation
- S40 ● — Confirmation Soil Sample
- MMW-5 — Monitoring Well
- JALK 117 — Abandoned Oil Well
- Gate

SITE SCALE (FEET)

0 100 200

ENLARGEMENTS SCALE (FEET)

0 40

NOTES:

Building location and site boundary obtained from drawing by Hill Pinckert Architects, Inc., dated 21 January 2000.
Oil well locations obtained from drawing by Hill Pinckert Architects, Inc., dated 12 September 1999.

Source: Modified from maps created by McLaren-Hart, 1996, and ATC Associates, 2000.

SITE PLOT PLAN and TRC CONFIRMATION SOIL SAMPLE LOCATION MAP

Mobil Jalk Fee Property
10607 Norwalk Boulevard
Santa Fe Springs, California

TRC Alton Geoscience

FIGURE 2

23-0134 Excavs. 11/00 11/14/00 jrw

TABLES

TABLE 1
Hydrocarbon Results of TRC Confirmation Soil Samples
Jalk Fee Property / Santa Fe Springs, California
October and November 2000

SAMPLE NUMBER	DEPTH (fbg) [1]	HYDROCARBON RESULT (mg/kg)		
		C4-C12	C13-C22	C23-C40
EXCAVATION AREA M-1				
JF-M1-S37-EW-8	8.0	ND	ND	ND
JF-M1-S38-B-14	14	334	2,020	3,200
JF-M1-S39-SW-8	8.0	ND	ND	ND
JF-M1-S40-WW-8	8.0	ND	ND	ND
EXCAVATION AREA M-2				
JF-M2-S16-B-10	10	ND	ND	ND
EXCAVATION AREA M-3				
JF-M3-S29-B-16	*16*	*4,958*	*2,677*	*1,909*
JF-M3-S29B-B-19	19	5,510	4,630	3,796
JF-M3-S33-EW-10	10	ND	2.0	ND
JF-M3-S34-WW-14	14	ND	ND	ND
JF-M3-S35-NW-13	13	ND	ND	ND
JF-M3-S36-SW-13	13	ND	ND	ND
EXCAVATION AREA M-7				
JF-M7-S22-EW-8	8.0	ND	ND	ND
JF-M7-S23-SW-8	8.0	ND	ND	ND
JF-M7-S24-B-13	13	ND	ND	ND
JF-M7-S25-WW-8	8.0	ND	ND	ND
JF-M7-S26-NW-8	8.0	ND	ND	ND
EXCAVATION AREA M-8				
JF-M8-S27-B-13	13	ND	ND	ND
JF-M8-S28-WW-10	10	ND	ND	ND
JF-M8-S30-SW-10	10	ND	364	1,069
JF-M8-S31-EW-10	10	ND	32	265
JF-M8-S32-NW-10	10	52	732	984
EXCAVATION AREA M-9				
JF-M9-S17-WW-5	5.0	ND	76	649
JF-M9-S18-NW-5	5.0	ND	59	334
JF-M9-S19-B-7	*7.0*	*738*	*2,346*	*1,709*
JF-M9-S19B-B-16	*16*	*3,797*	*10,949*	*8,480*
JF-M9-S19C-B-24	24	658	1,219	697
JF-M9-S20-SW-5	5.0	ND	42	453
JF-M9-S21-EW-5	5.0	ND	103	326
EXCAVATION AREA SB-49				
JF-SB49-S1-SW-5	5.0	ND	ND	ND
JF-SB49-S2-NW-5	5.0	ND	ND	ND
JF-SB49-S3-B-6	6.0	ND	ND	ND
JF-SB49-S4-B-7	*7.0*	*2,172*	*2,796*	*1,685*
JF-SB49-S4B-B-13	13	ND	17	39
JF-SB49-S5-SW-5	*5.0*	*45*	*340*	*461*
JF-SB49-S5B-SW-10	10	803	1,401	812
JF-SB49-S6-NW-5	5.0	ND	ND	ND
JF-SB49-S7-B-6	*6.0*	*2.0*	*671*	*815*
JF-SB49-S8-SW-5	5.0	ND	2.0	19
JF-SB49-S9-NW-5	*5.0*	*ND*	*792*	*1,096*
JF-SB49-S10-B-7	*7.0*	*ND*	*464*	*1,391*
JF-SB49-S11-SW-5	5.0	ND	399	972
JF-SB49-S12-NW-5	*5.0*	*ND*	*82*	*230*
JF-SB49-S13-B-6	6.0	ND	1.0	12
JF-SB49-S14-SW-5	5.0	ND	1.0	14
JF-SB49-S15-NW-5	5.0	ND	ND	ND

[1] fbg - feet below grade.

Note: Results in blue font italics were excavated.

TABLE 2
VOC Results of TRC Confirmation Soil Samples
Jalk Fee Property / Santa Fe Springs, California
October and November 2000

SAMPLE NUMBER	DEPTH (fbg) [1]	VOCs [2] (mg/kg)			
		c-1,2-DCE [3]	PCE [4]	TCE [5]	Other VOCs [6]
EXCAVATION AREA M-1					
JF-M1-S37-EW-8	8.0	<0.001	<0.001	<0.001	0.00572
JF-M1-S38-B-14	14	<0.001	0.059	<0.001	6.214
JF-M1-S39-SW-8	8.0	<0.001	0.00099	<0.001	0.0076
JF-M1-S40-WW-8	8.0	<0.001	0.00065	<0.001	0.0091
EXCAVATION AREA M-2					
JF-M2-S16-B-10	10	<0.001	<0.001	<0.001	0.00638
EXCAVATION AREA M-3					
JF-M3-S29-B-16	***16***	***<0.001***	***<0.001***	***<0.001***	***145.56***
JF-M3-S33-EW-10	10	<0.001	<0.001	<0.001	0.03347
JF-M3-S34-WW-14	14	<0.001	<0.001	<0.001	0.01271
JF-M3-S35-NW-13	13	<0.001	0.27	<0.001	0.0155
JF-M3-S36-SW-13	13	<0.001	<0.001	<0.001	0.00447
EXCAVATION AREA M-7					
JF-M7-S22-EW-8	8.0	<0.001	0.0031	<0.001	0.0132
JF-M7-S23-SW-8	8.0	<0.001	0.046	<0.001	0.0233
JF-M7-S24-B-13	13	<0.001	0.0054	<0.001	0.08384
JF-M7-S25-WW-8	8.0	<0.001	0.0049	<0.001	0.032
JF-M7-S26-NW-8	8.0	<0.001	0.0041	<0.001	0.00499
EXCAVATION AREA M-8					
JF-M8-S27-B-13	13	<0.001	<0.001	<0.001	ND
JF-M8-S28-WW-10	10	<0.001	<0.001	<0.001	0.2
JF-M8-S30-SW-10	10	<0.001	<0.001	<0.001	0.0094
JF-M8-S31-EW-10	10	<0.001	<0.001	<0.001	0.00708
JF-M8-S32-NW-10	10	<0.001	<0.001	<0.001	0.1501
EXCAVATION AREA M-9					
JF-M9-S17-WW-5	5.0	<0.001	<0.001	<0.001	0.013
JF-M9-S18-NW-5	5.0	<0.001	<0.001	<0.001	0.011
JF-M9-S19-B-7	***7.0***	***<0.001***	***<0.001***	***<0.001***	***5.207***
JF-M9-S20-SW-5	5.0	<0.001	<0.001	<0.001	0.0162
JF-M9-S21-EW-5	5.0	<0.001	<0.001	<0.001	0.00848
EXCAVATION AREA SB-49					
JF-SB49-S1-SW-5	5.0	0.023	0.0073	<0.001	0.05177
JF-SB49-S2-NW-5	5.0	0.0012	0.0055	<0.001	0.0112
JF-SB49-S3-B-6	6.0	0.00061	0.0099	<0.001	0.0133
JF-SB49-S4-B-7	***7.0***	***8.8***	***31***	***5.9***	***104.2***
JF-SB49-S4B-B-13	13	0.02	1.1	0.0024	ND
JF-SB49-S5-SW-5	***5.0***	***1.4***	***61***	***0.71***	***0.73***
JF-SB49-S5B-SW-10	10	2.0	3.0	0.73	35.74
JF-SB49-S6-NW-5	5.0	0.025	0.4	0.0053	0.03535
JF-SB49-S7-B-6	***6.0***	***<1.0***	***1,600***	***<1.0***	***4.9***
JF-SB49-S7B-B-12	12	0.0065	9.8	0.0065	0.0152
JF-SB49-S8-SW-5	5.0	0.0014	3.2	0.0016	0.0153
JF-SB49-S9-NW-5	***5.0***	***0.033***	***250***	***0.089***	***0.53786***
JF-SB49-S9B-NW-6	6.0	<0.001	0.14	<0.001	0.0071
JF-SB49-S10-B-7	***7.0***	***0.0014***	***2,000***	***0.14***	***0.7609***
JF-SB49-S10B-B-8	8.0	<0.001	2.5	0.0089	0.0229
JF-SB49-S11-SW-5	5.0	<0.001	1,300	0.01	0.52733
JF-SB49-S12-NW-5	***5.0***	***0.00055***	***440***	***0.13***	***0.34907***
JF-SB49-S12B-NW-6	6.0	<0.001	1.7	<0.001	0.00883
JF-SB49-S13-B-6	6.0	<0.001	1.4	<0.001	0.17185
JF-SB49-S14-SW-5	5.0	<0.001	1.1	<0.001	0.23029
JF-SB49-S15-NW-5	5.0	<0.001	0.15	<0.001	0.0815

[1] fbg - feet below grade.

[2] VOCs - volatile organic compounds.

[3] c-1,2-DCE - cis-1,2-dichloroethene.

[4] PCE - tetrachloroethene.

[5] TCE - trichloroethene.

[6] Total remaining VOCs including acetone and methylene chloride which are possible laboratory contaminants.

Note: Results in blue font italics were excavated.

TABLE 3
Lead and Arsenic Results of TRC Confirmation Soil Samples
Jalk Fee Property / Santa Fe Springs, California
October and November 2000

SAMPLE NUMBER	DEPTH (fbg) [1]	TOTAL LEAD (mg/kg)	TOTAL ARSENIC (mg/kg)
EXCAVATION AREA M-1			
JF-M1-S37-EW-8	8.0	6.1	4.31
JF-M1-S38-B-14	14	3.47	2.74
JF-M1-S39-SW-8	8.0	5.34	3.57
JF-M1-S40-WW-8	8.0	5.8	4.29
EXCAVATION AREA M-2			
JF-M2-S16-B-10	10	4.95	4.15
EXCAVATION AREA M-3			
JF-M3-S29-B-16	*16*	*4.21*	*4.31*
JF-M3-S33-EW-10	10	2.48	1.81
JF-M3-S34-WW-14	14	2.67	2.15
JF-M3-S35-NW-13	13	4.65	4.93
JF-M3-S36-SW-13	13	3.2	2.96
EXCAVATION AREA M-7			
JF-M7-S22-EW-8	8.0	4.82	4.16
JF-M7-S23-SW-8	8.0	4.84	4.02
JF-M7-S24-B-13	13	2.81	2.78
JF-M7-S25-WW-8	8.0	4.64	4.65
JF-M7-S26-NW-8	8.0	5.85	4.64
EXCAVATION AREA M-8			
JF-M8-S27-B-13	13	4.63	5.36
JF-M8-S28-WW-10	10	5.5	6.23
JF-M8-S30-SW-10	10	7.75	2.35
JF-M8-S31-EW-10	10	6.01	3.69
JF-M8-S32-NW-10	10	15.1	2.47
EXCAVATION AREA M-9			
JF-M9-S17-WW-5	5.0	4.25	3.51
JF-M9-S18-NW-5	5.0	3.94	2.56
JF-M9-S19-B-7	*7.0*	*4.39*	*2.97*
JF-M9-S20-SW-5	5.0	4.22	3.51
JF-M9-S21-EW-5	5.0	4.1	3.52
EXCAVATION AREA SB-49			
JF-SB49-S1-SW-5	5.0	4.63	3.85
JF-SB49-S2-NW-5	5.0	4.29	3.22
JF-SB49-S3-B-6	6.0	4.32	4.51
JF-SB49-S4-B-7	*7.0*	*4.04*	*4.54*
JF-SB49-S5-SW-5	*5.0*	*4.06*	*3.61*
JF-SB49-S6-NW-5	5.0	5.12	4.07
JF-SB49-S7-B-6	*6.0*	*4.21*	*4.67*
JF-SB49-S8-SW-5	5.0	4.36	3.56
JF-SB49-S9-NW-5	*5.0*	*4.11*	*3.43*
JF-SB49-S10-B-7	*7.0*	*4.31*	*4.81*
JF-SB49-S11-SW-5	5.0	4.31	4.44
JF-SB49-S12-NW-5	*5.0*	*4.26*	*3.56*
JF-SB49-S13-B-6	6.0	4.65	4.36
JF-SB49-S14-SW-5	5.0	4.76	4.12
JF-SB49-S15-NW-5	5.0	4.39	4.29

[1] fbg - feet below grade.

Note: Results in blue font italics were excavated.

APPENDIX A

GENERAL FIELD PROCEDURES – SOIL EXCAVATION

APPENDIX A

GENERAL FIELD PROCEDURES-SOIL EXCAVATION

A description of the general field procedures used during soil excavation and sampling activities is presented below. For an overview of protocol, refer to the appropriate section(s).

SOIL EXCAVATION AND SAMPLING

Prior to commencing soil excavation activities, all required permits shall be obtained and underground service alert (USA) and agency notifications made. In addition, a pre-construction meeting shall be attended by all field personnel to discuss the scope of work.

Soil excavations shall proceed as outlined in the Remedial Action Plan (RAP). All excavations shall be sloped or shored according to soil types and applicable OSHA regulations. Entering excavations is discouraged. If entering the excavation is required, the site safety officer shall determine if the excavation is safe to enter and that it is not a confined space. Excavated soil shall be stockpiled away from the edge of the excavation and ground observers shall maintain a safe distance from unstable excavation walls.

If backfilling is required, excavations shall be backfilled and compacted in accordance with the project specifications. Imported soil shall be certified clean or profiled to verify that it is not contaminated.

Confirmation soil sampling of the sidewalls and base of the excavation will be completed according to the procedures outlined in the RAP. Entering excavations to sample is discouraged. Sampling can be performed from the bucket of the excavator or using extension rods on a hand auger or other sampling device. Again, if entering the excavation is required, the site safety officer shall determine if the excavation is safe to enter and that it is not a confined space.

SOIL SAMPLE HANDLING

Soil sample handling follows the same basic protocol for both drilling and excavation activities. Upon retrieval, soil samples are immediately removed from the sampler, sealed with Teflon sheeting and polyurethane caps, and wrapped with tape. Each sample is labeled with the project number, boring/well number, sample depth, geologist's initials, and date of collection. After the samples have been labeled and documented in the chain of custody record, they are placed in a cooler with ice at approximately 4 degrees Celsius (°C) prior to and during transport to a state-certified laboratory for analysis. Samples not selected for immediate analysis may be transported in a cooler with ice and archived in a frostless refrigerator at approximately 4°C for possible future testing.

CHAIN OF CUSTODY PROTOCOL

Chain of custody protocol is followed for all soil samples selected for laboratory analysis. The chain of custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis.

APPENDIX B

OFFICIAL LABORATORY REPORTS AND CHAIN OF CUSTODY RECORDS

Calscience
Environmental
Laboratories, Inc.

November 21, 2000

Jeff Hensel
TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Subject: **Calscience Work Order Number: 00-10-0909**
Client Reference: Jalk Fee

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/24/00, and analyzed as requested on the attached chain-of-custody record.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

Note that the Sample Receipt Form and Chain-of-Custody Record are integral parts of this report.

If you have any questions regarding this report, require sampling supplies or field services, or information about our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Michael J. Crisostomo
Project Manager

William H. Christensen
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 1 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S1-SW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 2 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S2-NW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 3 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S3-B-6		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 4 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S4-B-7		
C7	515	
C8	311	
C9-C10	493	
C11-C12	853	
C13-C14	966	
C15-C16	518	
C17-C18	661	
C19-C20	337	
C21-C22	314	
C23-C24	366	
C25-C28	418	
C29-C32	421	
C33-C36	250	
C37-C40	230	
C7-C40 Total	6650	50

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

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Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 5 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S5-SW-5		
C7	ND	
C8	ND	
C9-C10	3	
C11-C12	42	
C13-C14	61	
C15-C16	63	
C17-C18	70	
C19-C20	84	
C21-C22	62	
C23-C24	62	
C25-C28	105	
C29-C32	140	
C33-C36	89	
C37-C40	65	
C7-C40 Total	846	50

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 6 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S6-NW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

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ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
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	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 7 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S7-B-6		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	2	
C13-C14	7	
C15-C16	57	
C17-C18	118	
C19-C20	97	
C21-C22	392	
C23-C24	350	
C25-C28	126	
C29-C32	175	
C33-C36	80	
C37-C40	84	
C7-C40 Total	1490	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

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ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
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Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 8 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S8-SW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	2	
C19-C20	ND	
C21-C22	ND	
C23-C24	7	
C25-C28	5	
C29-C32	3	
C33-C36	3	
C37-C40	1	
C7-C40 Total	21	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

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Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 9 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S9-NW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	21	
C15-C16	39	
C17-C18	144	
C19-C20	94	
C21-C22	494	
C23-C24	188	
C25-C28	433	
C29-C32	271	
C33-C36	125	
C37-C40	79	
C7-C40 Total	1890	20

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 10 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S10-B-7		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	4	
C15-C16	ND	
C17-C18	67	
C19-C20	170	
C21-C22	223	
C23-C24	322	
C25-C28	ND	
C29-C32	737	
C33-C36	208	
C37-C40	124	
C7-C40 Total	1860	20

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 11 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S11-SW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	8	
C15-C16	24	
C17-C18	81	
C19-C20	125	
C21-C22	161	
C23-C24	189	
C25-C28	247	
C29-C32	342	
C33-C36	118	
C37-C40	76	
C7-C40 Total	1370	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 12 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S12-NW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	16	
C19-C20	29	
C21-C22	37	
C23-C24	45	
C25-C28	76	
C29-C32	64	
C33-C36	26	
C37-C40	19	
C7-C40 Total	312	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 13 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S13-B-6		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	1	
C21-C22	ND	
C23-C24	2	
C25-C28	4	
C29-C32	4	
C33-C36	1	
C37-C40	1	
C7-C40 Total	13	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 14 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S14-SW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	1	
C23-C24	3	
C25-C28	3	
C29-C32	3	
C33-C36	4	
C37-C40	1	
C7-C40 Total	15	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/24/00
21 Technology Drive	Date Received:	10/24/00
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 15 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S15-NW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	N/A
21 Technology Drive	Date Received:	N/A
Irvine, CA 92618	Date Extracted:	10/24/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0909
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 16 of 16	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S1-SW-5**
Lab Sample Number: 00-10-0909-1

Parameter	Result	RL	Qualifiers	Units
Acetone	16	20	J	ug/kg
Benzene	ND	1.0		ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
2-Butanone	ND	20		ug/kg
n-Butylbenzene	2.1	1.0		ug/kg
sec-Butylbenzene	1.3	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	ND	1.0		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	ND	1.0		ug/kg
Chloromethane	ND	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S1-SW-5**
Lab Sample Number: 00-10-0909-1

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	23	1		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	7.3	1.0		ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	2.1	1.0		ug/kg
p-Isopropyltoluene	1.6	1.0		ug/kg
Methylene Chloride	1.3	10.0	J	ug/kg
4-Methyl-2-Pentanone	ND	20		ug/kg
Naphthalene	0.67	10.00	J	ug/kg
n-Propylbenzene	2.7	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	ND	1.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	7.4	1.0		ug/kg
Toluene	ND	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	ND	1.0		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	13	2		ug/kg
1,3,5-Trimethylbenzene	1.8	2.0	J	ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S1-SW-5**
Lab Sample Number: 00-10-0909-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	1.9	2.0	J	ug/kg
o-Xylene	ND	1.0		ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	92-139	
Toluene-d8	109	90-104	2
1,4-Bromofluorobenzene	101	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S2-NW-5**
Lab Sample Number: 00-10-0909-2

Parameter	Result	RL	Qualifiers	Units
Acetone	10	20	J	ug/kg
Benzene	ND	1.0		ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
2-Butanone	ND	20		ug/kg
n-Butylbenzene	ND	1.0		ug/kg
sec-Butylbenzene	ND	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	ND	1.0		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	ND	1.0		ug/kg
Chloromethane	ND	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

Calscience Environmental Laboratories, Inc.

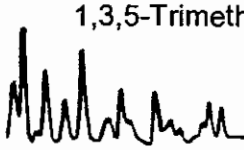
ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S2-NW-5**
Lab Sample Number: 00-10-0909-2

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	1.2	1.0		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	ND	1.0		ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	1.2	10.0	J	ug/kg
4-Methyl-2-Pentanone	ND	20		ug/kg
Naphthalene	ND	10		ug/kg
n-Propylbenzene	ND	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	ND	1.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	5.5	1.0		ug/kg
Toluene	ND	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	ND	1.0		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	ND	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg



Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S2-NW-5**
Lab Sample Number: 00-10-0909-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	ND	2.0		ug/kg
o-Xylene	ND	1.0		ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	92-139	
Toluene-d8	99	90-104	
1,4-Bromofluorobenzene	101	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S3-B-6**
Lab Sample Number: 00-10-0909-3

Parameter	Result	RL	Qualifiers	Units
Acetone	12	20	J	ug/kg
Benzene	ND	1.0		ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
2-Butanone	ND	20		ug/kg
n-Butylbenzene	ND	1.0		ug/kg
sec-Butylbenzene	ND	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	ND	1.0		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	ND	1.0		ug/kg
Chloromethane	ND	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S3-B-6**
Lab Sample Number: 00-10-0909-3

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	0.61	1.0	J	ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	ND	1.0		ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	1.3	10.0	J	ug/kg
4-Methyl-2-Pentanone	ND	20		ug/kg
Naphthalene	ND	10		ug/kg
n-Propylbenzene	ND	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	ND	1.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	9.9	1.0		ug/kg
Toluene	ND	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	ND	1.0		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	ND	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S3-B-6**
Lab Sample Number: 00-10-0909-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	ND	2.0		ug/kg
o-Xylene	ND	1.0		ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	92-139	
Toluene-d8	99	90-104	
1,4-Bromofluorobenzene	101	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **JF-SB49-S4-B-7**
Lab Sample Number: 00-10-0909-4

Parameter	Result	RL	Qualifiers	Units
Acetone	3600	20000	J	ug/kg
Benzene	ND	1000		ug/kg
Bromobenzene	ND	1000		ug/kg
Bromochloromethane	ND	1000		ug/kg
Bromodichloromethane	ND	1000		ug/kg
Bromoform	ND	5000		ug/kg
Bromomethane	ND	5000		ug/kg
2-Butanone	ND	20000		ug/kg
n-Butylbenzene	4600	1000		ug/kg
sec-Butylbenzene	3200	1000		ug/kg
tert-Butylbenzene	ND	1000		ug/kg
Carbon Disulfide	ND	10000		ug/kg
Carbon Tetrachloride	ND	1000		ug/kg
Chlorobenzene	ND	1000		ug/kg
Chloroethane	ND	1000		ug/kg
Chloroform	ND	1000		ug/kg
Chloromethane	ND	1000		ug/kg
2-Chlorotoluene	ND	1000		ug/kg
4-Chlorotoluene	ND	1000		ug/kg
Dibromochloromethane	ND	1000		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5000		ug/kg
1,2-Dibromoethane	ND	1000		ug/kg
Dibromomethane	ND	1000		ug/kg
1,2-Dichlorobenzene	ND	1000		ug/kg
1,3-Dichlorobenzene	ND	1000		ug/kg
1,4-Dichlorobenzene	ND	1000		ug/kg
Dichlorodifluoromethane	ND	2000		ug/kg
1,1-Dichloroethane	ND	1000		ug/kg
1,2-Dichloroethane	ND	1000		ug/kg
1,1-Dichloroethene	ND	1000		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **JF-SB49-S4-B-7**
Lab Sample Number: 00-10-0909-4

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	8800	1000		ug/kg
t-1,2-Dichloroethene	ND	1000		ug/kg
1,2-Dichloropropane	ND	1000		ug/kg
1,3-Dichloropropane	ND	1000		ug/kg
2,2-Dichloropropane	ND	5000		ug/kg
1,1-Dichloropropene	ND	1000		ug/kg
c-1,3-Dichloropropene	ND	1000		ug/kg
t-1,3-Dichloropropene	ND	1000		ug/kg
Ethylbenzene	14000	1000		ug/kg
2-Hexanone	ND	20000		ug/kg
Isopropylbenzene	4900	1000		ug/kg
p-Isopropyltoluene	4300	1000		ug/kg
Methylene Chloride	1200	10000	J	ug/kg
4-Methyl-2-Pentanone	ND	20000		ug/kg
Naphthalene	5700	10000	J	ug/kg
n-Propylbenzene	8400	1000		ug/kg
Styrene	ND	1000		ug/kg
1,1,1,2-Tetrachloroethane	ND	1000		ug/kg
1,1,2,2-Tetrachloroethane	ND	1000		ug/kg
Tetrachloroethene	31000	1000		ug/kg
Toluene	ND	1000		ug/kg
1,2,3-Trichlorobenzene	ND	2000		ug/kg
1,2,4-Trichlorobenzene	ND	2000		ug/kg
1,1,1-Trichloroethane	ND	1000		ug/kg
1,1,2-Trichloroethane	ND	1000		ug/kg
Trichloroethene	5900	1000		ug/kg
Trichlorofluoromethane	ND	10000		ug/kg
1,2,3-Trichloropropane	ND	1000		ug/kg
1,2,4-Trimethylbenzene	48000	2000		ug/kg
1,3,5-Trimethylbenzene	3600	2000		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **JF-SB49-S4-B-7**
Lab Sample Number: 00-10-0909-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10000		ug/kg
Vinyl Chloride	ND	1000		ug/kg
p/m-Xylene	2700	2000		ug/kg
o-Xylene	ND	1000		ug/kg
Methyl-tert-Butyl Ether	ND	1000		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	92-139	
Toluene-d8	106	90-104	2
1,4-Bromofluorobenzene	104	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **JF-SB49-S5-SW-5**
Lab Sample Number: 00-10-0909-5

Parameter	Result	RL	Qualifiers	Units
Acetone	320	2000	J	ug/kg
Benzene	ND	100		ug/kg
Bromobenzene	ND	100		ug/kg
Bromochloromethane	ND	100		ug/kg
Bromodichloromethane	ND	100		ug/kg
Bromoform	ND	500		ug/kg
Bromomethane	ND	500		ug/kg
2-Butanone	ND	2000		ug/kg
n-Butylbenzene	ND	100		ug/kg
sec-Butylbenzene	ND	100		ug/kg
tert-Butylbenzene	ND	100		ug/kg
Carbon Disulfide	ND	1000		ug/kg
Carbon Tetrachloride	ND	100		ug/kg
Chlorobenzene	ND	100		ug/kg
Chloroethane	ND	100		ug/kg
Chloroform	ND	100		ug/kg
Chloromethane	ND	100		ug/kg
2-Chlorotoluene	ND	100		ug/kg
4-Chlorotoluene	ND	100		ug/kg
Dibromochloromethane	ND	100		ug/kg
1,2-Dibromo-3-Chloropropane	ND	500		ug/kg
1,2-Dibromoethane	ND	100		ug/kg
Dibromomethane	ND	100		ug/kg
1,2-Dichlorobenzene	ND	100		ug/kg
1,3-Dichlorobenzene	ND	100		ug/kg
1,4-Dichlorobenzene	ND	100		ug/kg
Dichlorodifluoromethane	ND	200		ug/kg
1,1-Dichloroethane	ND	100		ug/kg
1,2-Dichloroethane	ND	100		ug/kg
1,1-Dichloroethene	ND	100		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **JF-SB49-S5-SW-5**
Lab Sample Number: 00-10-0909-5

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	1400	100		ug/kg
t-1,2-Dichloroethene	ND	100		ug/kg
1,2-Dichloropropane	ND	100		ug/kg
1,3-Dichloropropane	ND	100		ug/kg
2,2-Dichloropropane	ND	500		ug/kg
1,1-Dichloropropene	ND	100		ug/kg
c-1,3-Dichloropropene	ND	100		ug/kg
t-1,3-Dichloropropene	ND	100		ug/kg
Ethylbenzene	ND	100		ug/kg
2-Hexanone	ND	2000		ug/kg
Isopropylbenzene	ND	100		ug/kg
p-Isopropyltoluene	ND	100		ug/kg
Methylene Chloride	130	1000	J	ug/kg
4-Methyl-2-Pentanone	ND	2000		ug/kg
Naphthalene	90	1000	J	ug/kg
n-Propylbenzene	ND	100		ug/kg
Styrene	ND	100		ug/kg
1,1,1,2-Tetrachloroethane	ND	100		ug/kg
1,1,2,2-Tetrachloroethane	ND	100		ug/kg
Tetrachloroethene	61000	1000	D	ug/kg
Toluene	ND	100		ug/kg
1,2,3-Trichlorobenzene	ND	200		ug/kg
1,2,4-Trichlorobenzene	ND	200		ug/kg
1,1,1-Trichloroethane	ND	100		ug/kg
1,1,2-Trichloroethane	ND	100		ug/kg
Trichloroethene	710	100		ug/kg
Trichlorofluoromethane	ND	1000		ug/kg
1,2,3-Trichloropropane	ND	100		ug/kg
1,2,4-Trimethylbenzene	190	200	J	ug/kg
1,3,5-Trimethylbenzene	ND	200		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **JF-SB49-S5-SW-5**
Lab Sample Number: 00-10-0909-5

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	1000		ug/kg
Vinyl Chloride	ND	100		ug/kg
p/m-Xylene	ND	200		ug/kg
o-Xylene	ND	100		ug/kg
Methyl-tert-Butyl Ether	ND	100		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	92-139	
Toluene-d8	99	90-104	
1,4-Bromofluorobenzene	97	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025AS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S6-NW-5**
Lab Sample Number: 00-10-0909-6

Parameter	Result	RL	Qualifiers	Units
Acetone	24	20		ug/kg
Benzene	5.4	1.0		ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
2-Butanone	ND	20		ug/kg
n-Butylbenzene	ND	1.0		ug/kg
sec-Butylbenzene	ND	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	ND	1.0		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	ND	1.0		ug/kg
Chloromethane	ND	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

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ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025AS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S6-NW-5**
Lab Sample Number: 00-10-0909-6

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	25	1		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	0.52	1.0	J	ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	1.4	10.0	J	ug/kg
4-Methyl-2-Pentanone	ND	20		ug/kg
Naphthalene	ND	10		ug/kg
n-Propylbenzene	ND	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	ND	1.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	400	100	D	ug/kg
Toluene	1.2	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	5.3	1.0		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	ND	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025AS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S6-NW-5**
Lab Sample Number: 00-10-0909-6

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	0.78	1.0	J	ug/kg
p/m-Xylene	1.1	2.0	J	ug/kg
o-Xylene	0.95	1.0	J	ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	110	92-139	
Toluene-d8	107	90-104	2
1,4-Bromofluorobenzene	90	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **JF-SB49-S7-B-6**
Lab Sample Number: 00-10-0909-7

Parameter	Result	RL	Qualifiers	Units
Acetone	3800	20000	J	ug/kg
Benzene	ND	1000		ug/kg
Bromobenzene	ND	1000		ug/kg
Bromochloromethane	ND	1000		ug/kg
Bromodichloromethane	ND	1000		ug/kg
Bromoform	ND	5000		ug/kg
Bromomethane	ND	5000		ug/kg
2-Butanone	ND	20000		ug/kg
n-Butylbenzene	ND	1000		ug/kg
sec-Butylbenzene	ND	1000		ug/kg
tert-Butylbenzene	ND	1000		ug/kg
Carbon Disulfide	ND	10000		ug/kg
Carbon Tetrachloride	ND	1000		ug/kg
Chlorobenzene	ND	1000		ug/kg
Chloroethane	ND	1000		ug/kg
Chloroform	ND	1000		ug/kg
Chloromethane	ND	1000		ug/kg
2-Chlorotoluene	ND	1000		ug/kg
4-Chlorotoluene	ND	1000		ug/kg
Dibromochloromethane	ND	1000		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5000		ug/kg
1,2-Dibromoethane	ND	1000		ug/kg
Dibromomethane	ND	1000		ug/kg
1,2-Dichlorobenzene	ND	1000		ug/kg
1,3-Dichlorobenzene	ND	1000		ug/kg
1,4-Dichlorobenzene	ND	1000		ug/kg
Dichlorodifluoromethane	ND	2000		ug/kg
1,1-Dichloroethane	ND	1000		ug/kg
1,2-Dichloroethane	ND	1000		ug/kg
1,1-Dichloroethene	ND	1000		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **JF-SB49-S7-B-6**
Lab Sample Number: 00-10-0909-7

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	ND	1000		ug/kg
t-1,2-Dichloroethene	ND	1000		ug/kg
1,2-Dichloropropane	ND	1000		ug/kg
1,3-Dichloropropane	ND	1000		ug/kg
2,2-Dichloropropane	ND	5000		ug/kg
1,1-Dichloropropene	ND	1000		ug/kg
c-1,3-Dichloropropene	ND	1000		ug/kg
t-1,3-Dichloropropene	ND	1000		ug/kg
Ethylbenzene	ND	1000		ug/kg
2-Hexanone	ND	20000		ug/kg
Isopropylbenzene	ND	1000		ug/kg
p-Isopropyltoluene	ND	1000		ug/kg
Methylene Chloride	1100	10000	J	ug/kg
4-Methyl-2-Pentanone	ND	20000		ug/kg
Naphthalene	ND	10000		ug/kg
n-Propylbenzene	ND	1000		ug/kg
Styrene	ND	1000		ug/kg
1,1,1,2-Tetrachloroethane	ND	1000		ug/kg
1,1,2,2-Tetrachloroethane	ND	1000		ug/kg
Tetrachloroethene	1600000	20000	D	ug/kg
Toluene	ND	1000		ug/kg
1,2,3-Trichlorobenzene	ND	2000		ug/kg
1,2,4-Trichlorobenzene	ND	2000		ug/kg
1,1,1-Trichloroethane	ND	1000		ug/kg
1,1,2-Trichloroethane	ND	1000		ug/kg
Trichloroethene	ND	1000		ug/kg
Trichlorofluoromethane	ND	10000		ug/kg
1,2,3-Trichloropropane	ND	1000		ug/kg
1,2,4-Trimethylbenzene	ND	2000		ug/kg
1,3,5-Trimethylbenzene	ND	2000		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **JF-SB49-S7-B-6**
Lab Sample Number: 00-10-0909-7

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10000		ug/kg
Vinyl Chloride	ND	1000		ug/kg
p/m-Xylene	ND	2000		ug/kg
o-Xylene	ND	1000		ug/kg
Methyl-tert-Butyl Ether	ND	1000		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	104	92-139	
Toluene-d8	100	90-104	
1,4-Bromofluorobenzene	95	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S8-SW-5**
Lab Sample Number: 00-10-0909-8

Parameter	Result	RL	Qualifiers	Units
Acetone	13	20	J	ug/kg
Benzene	ND	1.0		ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
2-Butanone	ND	20		ug/kg
n-Butylbenzene	ND	1.0		ug/kg
sec-Butylbenzene	ND	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	ND	1.0		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	ND	1.0		ug/kg
Chloromethane	ND	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S8-SW-5**
Lab Sample Number: 00-10-0909-8

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	1.4	1.0		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	ND	1.0		ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	1.2	10.0	J	ug/kg
4-Methyl-2-Pentanone	ND	20		ug/kg
Naphthalene	ND	10		ug/kg
n-Propylbenzene	ND	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	1.1	1.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	3200	100	D	ug/kg
Toluene	ND	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	1.6	1.0		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	ND	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

Calscience Environmental Laboratories, Inc.

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EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S8-SW-5**
Lab Sample Number: 00-10-0909-8

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	ND	2.0		ug/kg
o-Xylene	ND	1.0		ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	92-139	
Toluene-d8	99	90-104	
1,4-Bromofluorobenzene	102	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S9-NW-5**
Lab Sample Number: 00-10-0909-9

Parameter	Result	RL	Qualifiers	Units
Acetone	340	20	E	ug/kg
Benzene	ND	1.0		ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	1.6	5.0	J	ug/kg
2-Butanone	88	20		ug/kg
n-Butylbenzene	2.0	1.0		ug/kg
sec-Butylbenzene	0.87	1.0	J	ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	83	1		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	2.5	1.0		ug/kg
Chloromethane	ND	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	0.70	1.0	J	ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S9-NW-5**
Lab Sample Number: 00-10-0909-9

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	33	1		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	2.1	1.0		ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	0.63	1.0	J	ug/kg
p-Isopropyltoluene	0.88	1.0	J	ug/kg
Methylene Chloride	1.5	10.0	J	ug/kg
4-Methyl-2-Pentanone	ND	20		ug/kg
Naphthalene	2.7	10.0	J	ug/kg
n-Propylbenzene	1.0	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	ND	1.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	250000	100000	D	ug/kg
Toluene	ND	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	89	1		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	7.3	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

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ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S9-NW-5**
Lab Sample Number: 00-10-0909-9

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	2.2	2.0		ug/kg
o-Xylene	1.1	1.0		ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	122	92-139	
Toluene-d8	62	90-104	2
1,4-Bromofluorobenzene	84	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S10-B-7**
Lab Sample Number: 00-10-0909-10

Parameter	Result	RL	Qualifiers	Units
Acetone	480	20	E	ug/kg
Benzene	0.86	1.0	J	ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	1.6	5.0	J	ug/kg
2-Butanone	160	20		ug/kg
n-Butylbenzene	1.6	1.0		ug/kg
sec-Butylbenzene	1.2	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	28	1		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	4.3	1.0		ug/kg
Chloromethane	1.2	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

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ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S10-B-7**
Lab Sample Number: 00-10-0909-10

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	1.4	1.0		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	0.98	1.0	J	ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	1.2	10.0	J	ug/kg
4-Methyl-2-Pentanone	5.5	20.0	J	ug/kg
Naphthalene	1.6	10.0	J	ug/kg
n-Propylbenzene	0.57	1.0	J	ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	74	1		ug/kg
1,1,2,2-Tetrachloroethane	4.8	1.0		ug/kg
Tetrachloroethene	2000000	20000	D	ug/kg
Toluene	2.3	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	1.0	2.0	J	ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	140	1		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	6.4	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

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Client Name:	TRC-Alton Geoscience		
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QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S10-B-7**
Lab Sample Number: 00-10-0909-10

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	2.8	2.0		ug/kg
o-Xylene	1.2	1.0		ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	109	92-139	
Toluene-d8	87	90-104	2
1,4-Bromofluorobenzene	85	62-110	

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Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S11-SW-5**
Lab Sample Number: 00-10-0909-11

Parameter	Result	RL	Qualifiers	Units
Acetone	360	20	E	ug/kg
Benzene	0.45	1.0	J	ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	1.0	5.0	J	ug/kg
2-Butanone	120	20		ug/kg
n-Butylbenzene	0.56	1.0	J	ug/kg
sec-Butylbenzene	ND	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	6.6	1.0		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	0.75	1.0	J	ug/kg
Chloromethane	0.46	1.0	J	ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

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EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S11-SW-5**
Lab Sample Number: 00-10-0909-11

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	ND	1.0		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	ND	1.0		ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	1.2	10.0	J	ug/kg
4-Methyl-2-Pentanone	3.9	20.0	J	ug/kg
Naphthalene	1.9	10.0	J	ug/kg
n-Propylbenzene	ND	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	24	1		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	1300000	20000	D	ug/kg
Toluene	0.87	1.0	J	ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	0.82	2.0	J	ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	10	1		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	2.6	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

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EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S11-SW-5**
Lab Sample Number: 00-10-0909-11

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	1.6	2.0	J	ug/kg
o-Xylene	0.62	1.0	J	ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	92-139	
Toluene-d8	98	90-104	
1,4-Bromofluorobenzene	96	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S12-NW-5**
Lab Sample Number: 00-10-0909-12

Parameter	Result	RL	Qualifiers	Units
Acetone	220	20	E	ug/kg
Benzene	0.51	1.0	J	ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	0.98	5.0	J	ug/kg
2-Butanone	69	20		ug/kg
n-Butylbenzene	ND	1.0		ug/kg
sec-Butylbenzene	ND	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	13	1		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	2.1	1.0		ug/kg
Chloromethane	ND	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

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ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S12-NW-5**
Lab Sample Number: 00-10-0909-12

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	0.55	1.0	J	ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	ND	1.0		ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	1.0	10.0	J	ug/kg
4-Methyl-2-Pentanone	2.3	20.0	J	ug/kg
Naphthalene	0.51	10.00	J	ug/kg
n-Propylbenzene	ND	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	38	1		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	440000	10000	D	ug/kg
Toluene	0.81	1.0	J	ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	130	1		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	ND	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S12-NW-5**
Lab Sample Number: 00-10-0909-12

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	0.88	2.0	J	ug/kg
o-Xylene	ND	1.0		ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	92-139	
Toluene-d8	95	90-104	
1,4-Bromofluorobenzene	98	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S13-B-6**
Lab Sample Number: 00-10-0909-13

Parameter	Result	RL	Qualifiers	Units
Acetone	140	20		ug/kg
Benzene	ND	1.0		ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
2-Butanone	31	20		ug/kg
n-Butylbenzene	ND	1.0		ug/kg
sec-Butylbenzene	ND	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	ND	1.0		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	ND	1.0		ug/kg
Chloromethane	ND	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S13-B-6**
Lab Sample Number: 00-10-0909-13

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	ND	1.0		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	ND	1.0		ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	ND	10		ug/kg
4-Methyl-2-Pentanone	ND	20		ug/kg
Naphthalene	ND	10		ug/kg
n-Propylbenzene	ND	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	ND	1.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	1400	100	D	ug/kg
Toluene	ND	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	ND	1.0		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	ND	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S13-B-6**
Lab Sample Number: 00-10-0909-13

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	0.85	2.0	J	ug/kg
o-Xylene	ND	1.0		ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	110	92-139	
Toluene-d8	102	90-104	
1,4-Bromofluorobenzene	102	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S14-SW-5**
Lab Sample Number: 00-10-0909-14

Parameter	Result	RL	Qualifiers	Units
Acetone	180	20		ug/kg
Benzene	ND	1.0		ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	1.4	5.0	J	ug/kg
2-Butanone	43	20		ug/kg
n-Butylbenzene	ND	1.0		ug/kg
sec-Butylbenzene	ND	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	ND	1.0		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	ND	1.0		ug/kg
Chloromethane	0.50	1.0	J	ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S14-SW-5**
Lab Sample Number: 00-10-0909-14

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	ND	1.0		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	ND	1.0		ug/kg
2-Hexanone	3.4	20.0	J	ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	1.1	10.0	J	ug/kg
4-Methyl-2-Pentanone	ND	20		ug/kg
Naphthalene	ND	10		ug/kg
n-Propylbenzene	ND	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	ND	1.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	1100	100	D	ug/kg
Toluene	ND	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	ND	1.0		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	ND	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S14-SW-5**
Lab Sample Number: 00-10-0909-14

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	ND	2.0		ug/kg
o-Xylene	ND	1.0		ug/kg
Methyl-tert-Butyl Ether	0.89	1.0	J	ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	107	92-139	
Toluene-d8	99	90-104	
1,4-Bromofluorobenzene	101	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S15-NW-5**
Lab Sample Number: 00-10-0909-15

Parameter	Result	RL	Qualifiers	Units
Acetone	68	20		ug/kg
Benzene	ND	1.0		ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
2-Butanone	13	20	J	ug/kg
n-Butylbenzene	ND	1.0		ug/kg
sec-Butylbenzene	ND	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	ND	1.0		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	ND	1.0		ug/kg
Chloromethane	ND	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S15-NW-5**
Lab Sample Number: 00-10-0909-15

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	ND	1.0		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	ND	1.0		ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	1.1	10.0	J	ug/kg
4-Methyl-2-Pentanone	ND	20		ug/kg
Naphthalene	ND	10		ug/kg
n-Propylbenzene	ND	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	ND	1.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	150	1		ug/kg
Toluene	ND	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	ND	1.0		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	1.4	2.0	J	ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	10/24/00
Matrix:	Solid	Date Received:	10/24/00
Preparation:	EPA 5035	Date Prepared:	10/24/00
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **JF-SB49-S15-NW-5**
Lab Sample Number: 00-10-0909-15

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	ND	2.0		ug/kg
o-Xylene	ND	1.0		ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	107	92-139	
Toluene-d8	99	90-104	
1,4-Bromofluorobenzene	101	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	EPA 5035	Date Prepared:	N/A
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-2,202

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	20		ug/kg
Benzene	ND	1.0		ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
2-Butanone	ND	20		ug/kg
n-Butylbenzene	ND	1.0		ug/kg
sec-Butylbenzene	ND	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	ND	1.0		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	ND	1.0		ug/kg
Chloromethane	ND	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	EPA 5035	Date Prepared:	N/A
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-2,202

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	ND	1.0		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	ND	1.0		ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	1.5	10.0	J	ug/kg
4-Methyl-2-Pentanone	ND	20		ug/kg
Naphthalene	ND	10		ug/kg
n-Propylbenzene	ND	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	ND	1.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	ND	1.0		ug/kg
Toluene	ND	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	ND	1.0		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	ND	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001024BS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	EPA 5035	Date Prepared:	N/A
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-2,202

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	ND	2.0		ug/kg
o-Xylene	ND	1.0		ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	92-139	
Toluene-d8	100	90-104	
1,4-Bromofluorobenzene	97	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025AS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	EPA 5035	Date Prepared:	N/A
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-2,201

Parameter	Result	RL	Qualifiers	Units
Acetone	4.2	20.0	J	ug/kg
Benzene	ND	1.0		ug/kg
Bromobenzene	ND	1.0		ug/kg
Bromochloromethane	ND	1.0		ug/kg
Bromodichloromethane	ND	1.0		ug/kg
Bromoform	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
2-Butanone	ND	20		ug/kg
n-Butylbenzene	ND	1.0		ug/kg
sec-Butylbenzene	ND	1.0		ug/kg
tert-Butylbenzene	ND	1.0		ug/kg
Carbon Disulfide	ND	10		ug/kg
Carbon Tetrachloride	ND	1.0		ug/kg
Chlorobenzene	ND	1.0		ug/kg
Chloroethane	ND	1.0		ug/kg
Chloroform	ND	1.0		ug/kg
Chloromethane	ND	1.0		ug/kg
2-Chlorotoluene	ND	1.0		ug/kg
4-Chlorotoluene	ND	1.0		ug/kg
Dibromochloromethane	ND	1.0		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0		ug/kg
1,2-Dibromoethane	ND	1.0		ug/kg
Dibromomethane	ND	1.0		ug/kg
1,2-Dichlorobenzene	ND	1.0		ug/kg
1,3-Dichlorobenzene	ND	1.0		ug/kg
1,4-Dichlorobenzene	ND	1.0		ug/kg
Dichlorodifluoromethane	ND	2.0		ug/kg
1,1-Dichloroethane	ND	1.0		ug/kg
1,2-Dichloroethane	ND	1.0		ug/kg
1,1-Dichloroethene	ND	1.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025AS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	EPA 5035	Date Prepared:	N/A
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-2,201

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	ND	1.0		ug/kg
t-1,2-Dichloroethene	ND	1.0		ug/kg
1,2-Dichloropropane	ND	1.0		ug/kg
1,3-Dichloropropane	ND	1.0		ug/kg
2,2-Dichloropropane	ND	5.0		ug/kg
1,1-Dichloropropene	ND	1.0		ug/kg
c-1,3-Dichloropropene	ND	1.0		ug/kg
t-1,3-Dichloropropene	ND	1.0		ug/kg
Ethylbenzene	ND	1.0		ug/kg
2-Hexanone	ND	20		ug/kg
Isopropylbenzene	ND	1.0		ug/kg
p-Isopropyltoluene	ND	1.0		ug/kg
Methylene Chloride	1.5	10.0	J	ug/kg
4-Methyl-2-Pentanone	ND	20		ug/kg
Naphthalene	0.53	10.00	J	ug/kg
n-Propylbenzene	ND	1.0		ug/kg
Styrene	ND	1.0		ug/kg
1,1,1,2-Tetrachloroethane	ND	1.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	1.0		ug/kg
Tetrachloroethene	ND	1.0		ug/kg
Toluene	ND	1.0		ug/kg
1,2,3-Trichlorobenzene	ND	2.0		ug/kg
1,2,4-Trichlorobenzene	ND	2.0		ug/kg
1,1,1-Trichloroethane	ND	1.0		ug/kg
1,1,2-Trichloroethane	ND	1.0		ug/kg
Trichloroethene	ND	1.0		ug/kg
Trichlorofluoromethane	ND	10		ug/kg
1,2,3-Trichloropropane	ND	1.0		ug/kg
1,2,4-Trimethylbenzene	ND	2.0		ug/kg
1,3,5-Trimethylbenzene	ND	2.0		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025AS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	EPA 5035	Date Prepared:	N/A
Method:	EPA 8260B	Date Analyzed:	10/25/00

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-2,201

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	10		ug/kg
Vinyl Chloride	ND	1.0		ug/kg
p/m-Xylene	ND	2.0		ug/kg
o-Xylene	ND	1.0		ug/kg
Methyl-tert-Butyl Ether	ND	1.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	92-139	
Toluene-d8	99	90-104	
1,4-Bromofluorobenzene	94	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	EPA 5035	Date Prepared:	N/A
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-2,204

Parameter	Result	RL	Qualifiers	Units
Acetone	200	1000	J	ug/kg
Benzene	ND	50		ug/kg
Bromobenzene	ND	50		ug/kg
Bromochloromethane	ND	50		ug/kg
Bromodichloromethane	ND	50		ug/kg
Bromoform	ND	250		ug/kg
Bromomethane	ND	250		ug/kg
2-Butanone	ND	1000		ug/kg
n-Butylbenzene	ND	50		ug/kg
sec-Butylbenzene	ND	50		ug/kg
tert-Butylbenzene	ND	50		ug/kg
Carbon Disulfide	ND	500		ug/kg
Carbon Tetrachloride	ND	50		ug/kg
Chlorobenzene	ND	50		ug/kg
Chloroethane	ND	50		ug/kg
Chloroform	ND	50		ug/kg
Chloromethane	ND	50		ug/kg
2-Chlorotoluene	ND	50		ug/kg
4-Chlorotoluene	ND	50		ug/kg
Dibromochloromethane	ND	50		ug/kg
1,2-Dibromo-3-Chloropropane	ND	250		ug/kg
1,2-Dibromoethane	ND	50		ug/kg
Dibromomethane	ND	50		ug/kg
1,2-Dichlorobenzene	ND	50		ug/kg
1,3-Dichlorobenzene	ND	50		ug/kg
1,4-Dichlorobenzene	ND	50		ug/kg
Dichlorodifluoromethane	ND	100		ug/kg
1,1-Dichloroethane	ND	50		ug/kg
1,2-Dichloroethane	ND	50		ug/kg
1,1-Dichloroethene	ND	50		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	EPA 5035	Date Prepared:	N/A
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-2,204

Parameter	Result	RL	Qualifiers	Units
c-1,2-Dichloroethene	ND	50		ug/kg
t-1,2-Dichloroethene	ND	50		ug/kg
1,2-Dichloropropane	ND	50		ug/kg
1,3-Dichloropropane	ND	50		ug/kg
2,2-Dichloropropane	ND	250		ug/kg
1,1-Dichloropropene	ND	50		ug/kg
c-1,3-Dichloropropene	ND	50		ug/kg
t-1,3-Dichloropropene	ND	50		ug/kg
Ethylbenzene	ND	50		ug/kg
2-Hexanone	ND	1000		ug/kg
Isopropylbenzene	ND	50		ug/kg
p-Isopropyltoluene	ND	50		ug/kg
Methylene Chloride	69	500	J	ug/kg
4-Methyl-2-Pentanone	ND	1000		ug/kg
Naphthalene	29	500	J	ug/kg
n-Propylbenzene	ND	50		ug/kg
Styrene	ND	50		ug/kg
1,1,1,2-Tetrachloroethane	ND	50		ug/kg
1,1,2,2-Tetrachloroethane	ND	50		ug/kg
Tetrachloroethene	ND	50		ug/kg
Toluene	ND	50		ug/kg
1,2,3-Trichlorobenzene	ND	100		ug/kg
1,2,4-Trichlorobenzene	ND	100		ug/kg
1,1,1-Trichloroethane	ND	50		ug/kg
1,1,2-Trichloroethane	ND	50		ug/kg
Trichloroethene	ND	50		ug/kg
Trichlorofluoromethane	ND	500		ug/kg
1,2,3-Trichloropropane	ND	50		ug/kg
1,2,4-Trimethylbenzene	ND	100		ug/kg
1,3,5-Trimethylbenzene	ND	100		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260B Volatile Organics

Client Name:	TRC-Alton Geoscience		
Project ID:	Jalk Fee		
Work Order Number:	00-10-0909		
QC Batch ID:	001025BE	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	EPA 5035	Date Prepared:	N/A
Method:	EPA 8260B	Date Analyzed:	10/26/00

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-2,204

Parameter	Result	RL	Qualifiers	Units
Vinyl Acetate	ND	500		ug/kg
Vinyl Chloride	ND	50		ug/kg
p/m-Xylene	ND	100		ug/kg
o-Xylene	ND	50		ug/kg
Methyl-tert-Butyl Ether	ND	50		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	92-139	
Toluene-d8	98	90-104	
1,4-Bromofluorobenzene	92	62-110	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/24/00
Work Order No: 00-10-0909
Preparation: Total Digestion
Method: EPA 6010B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S1-SW-5	00-10-0909-1	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	3.85	0.75	1		mg/kg	Lead	4.63	0.50	1		mg/kg

JF-SB49-S2-NW-5	00-10-0909-2	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	3.22	0.75	1		mg/kg	Lead	4.29	0.50	1		mg/kg

JF-SB49-S3-B-6	00-10-0909-3	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.51	0.75	1		mg/kg	Lead	4.32	0.50	1		mg/kg

JF-SB49-S4-B-7	00-10-0909-4	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.54	0.75	1		mg/kg	Lead	4.04	0.50	1		mg/kg

JF-SB49-S5-SW-5	00-10-0909-5	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	3.61	0.75	1		mg/kg	Lead	4.06	0.50	1		mg/kg

JF-SB49-S6-NW-5	00-10-0909-6	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.07	0.75	1		mg/kg	Lead	5.12	0.50	1		mg/kg

JF-SB49-S7-B-6	00-10-0909-7	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.67	0.75	1		mg/kg	Lead	4.21	0.50	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/24/00
Work Order No: 00-10-0909
Preparation: Total Digestion
Method: EPA 6010B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S8-SW-5	00-10-0909-8	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	3.56	0.75	1		mg/kg	Lead	4.36	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S9-NW-5	00-10-0909-9	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	3.43	0.75	1		mg/kg	Lead	4.11	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S10-B-7	00-10-0909-10	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.81	0.75	1		mg/kg	Lead	4.31	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S11-SW-5	00-10-0909-11	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.44	0.75	1		mg/kg	Lead	4.31	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S12-NW-5	00-10-0909-12	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	3.58	0.75	1		mg/kg	Lead	4.26	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S13-B-6	00-10-0909-13	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.36	0.75	1		mg/kg	Lead	4.65	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S14-SW-5	00-10-0909-14	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.12	0.75	1		mg/kg	Lead	4.76	0.50	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/24/00
Work Order No: 00-10-0909
Preparation: Total Digestion
Method: EPA 6010B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S15-NW-5	00-10-0909-15	10/24/00	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.29	0.75	1		mg/kg	Lead	4.39	0.50	1		mg/kg

Method Blank	097-01-002-1,883	N/A	Solid	10/24/00	10/25/00	001024lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.750	1		mg/kg	Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M - Carbon Chain

TRC-Alton Geoscience — Work Order No.: 00-10-0909
Page 1 of 1 — Date Analyzed: 10/25/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: JF-SB49-S1-SW-5

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
TPH as Diesel	106	108	52 - 149	2	0 - 29

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
TPH as Diesel	400	473	118	79 - 137

Surrogate Recoveries (in %)

Sample Number	S1	Sample Number	S1
JF-SB49-S1-SW-5	92	JF-SB49-S9-NW-5	88
JF-SB49-S2-NW-5	85	JF-SB49-S10-B-7	75
JF-SB49-S3-B-6	92	JF-SB49-S11-SW-5	88
JF-SB49-S4-B-7	109	JF-SB49-S12-NW-5	75
JF-SB49-S5-SW-5	84	JF-SB49-S13-B-6	91
JF-SB49-S6-NW-5	91	JF-SB49-S14-SW-5	93
JF-SB49-S7-B-6	94	JF-SB49-S15-NW-5	77
JF-SB49-S8-SW-5	95	Method Blank	108

Surrogate Compound	%REC Acceptable Limits
S1 > Decachlorobiphenyl	52 - 135

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

EPA 8260B Volatile Organics

LCS/LCSD Batch Number:	001024BS	Instrument:	GC/MS Q
Matrix:	Solid	Date Extracted:	N/A
Method:	EPA 8260B	Date Analyzed:	10/25/00

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	100	89-111	2	0-15	
Carbon Tetrachloride	101	100	79-131	2	0-16	
Chlorobenzene	102	101	85-113	2	0-21	
1,2-Dichlorobenzene	101	100	79-117	1	0-20	
1,1-Dichloroethene	100	102	85-125	2	0-14	
Toluene	101	100	88-114	1	0-16	
Trichloroethene	99	99	87-115	0	0-18	
Vinyl Chloride	95	96	77-133	1	0-21	
Methyl-tert-Butyl Ether	97	97	83-119	0	0-17	
Tert-Butyl alcohol (TBA)	99	99	60-140	1	0-25	
Diisopropyl ether (DIPE)	99	99	60-140	0	0-25	
Ethyl t-butyl ether (ETBE)	98	97	60-140	0	0-25	
Tert-Amyl methyl ether	97	97	60-140	0	0-25	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

EPA 8260B Volatile Organics

LCS/LCSD Batch Number:	001025AS	Instrument:	GC/MS I
Matrix:	Solid	Date Extracted:	N/A
Method:	EPA 8260B	Date Analyzed:	10/25/00

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	99	89-111	2	0-15	
Carbon Tetrachloride	114	115	79-131	1	0-16	
Chlorobenzene	101	102	85-113	1	0-21	
1,2-Dichlorobenzene	99	100	79-117	1	0-20	
1,1-Dichloroethene	108	108	85-125	1	0-14	
Toluene	102	99	88-114	3	0-16	
Trichloroethene	100	100	87-115	0	0-18	
Vinyl Chloride	118	118	77-133	0	0-21	
Methyl-tert-Butyl Ether	101	102	83-119	1	0-17	
Tert-Butyl alcohol (TBA)	109	112	60-140	3	0-25	
Diisopropyl ether (DIPE)	107	107	60-140	0	0-25	
Ethyl t-butyl ether (ETBE)	102	102	60-140	1	0-25	
Tert-Amyl methyl ether	98	98	60-140	0	0-25	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

EPA 8260B Volatile Organics

LCS/LCSD Batch Number:	001025BE	Instrument:	GC/MS I
Matrix:	Solid	Date Extracted:	N/A
Method:	EPA 8260B	Date Analyzed:	10/25/00

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	102	89-111	0	0-15	
Carbon Tetrachloride	119	120	79-131	1	0-16	
Chlorobenzene	102	104	85-113	2	0-21	
1,2-Dichlorobenzene	100	99	79-117	1	0-20	
1,1-Dichloroethene	111	115	85-125	4	0-14	
Toluene	101	102	88-114	1	0-16	
Trichloroethene	100	104	87-115	3	0-18	
Vinyl Chloride	122	126	77-133	3	0-21	
Methyl-tert-Butyl Ether	102	101	83-119	2	0-17	
Tert-Butyl alcohol (TBA)	106	102	60-140	4	0-25	
Diisopropyl ether (DIPE)	112	111	60-140	1	0-25	
Ethyl t-butyl ether (ETBE)	105	103	60-140	1	0-25	
Tert-Amyl methyl ether	101	100	60-140	1	0-25	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: Jalk Fee

Date Received: 10/24/00
Work Order No: 00-10-0909
Preparation: Total Digestion
Method: EPA 6010B

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
JF-SB49-S11-SW-5	Solid	ICP 3300	10/24/00	10/25/00	102400ms6

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	97	94	75-125	2	0-20	
Lead	91	92	75-125	0	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: Jalk Fee

Date Received: 10/24/00
Work Order No: 00-10-0909
Preparation: Total Digestion
Method: EPA 6010B

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-1,883	Solid	ICP 3300	10/25/00	001024-I	001024lcs6

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Arsenic	50	46.8	94	80-120	
Lead	50	48.7	97	80-120	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-10-0909

Qualifier	Definition
2	Surrogate spike compound was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
D	The sample data was reported from a diluted analysis.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 10·24·00

Page 1 of 2

LABORATORY CLIENT: TRC
ADDRESS: 21 Technology Dr
CITY: Irvine STATE: CA ZIP: 92618
TEL: 949-727-9336 FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: JALK FEE
PROJECT CONTACT: Jeff Hensel
SAMPLER(S): (SIGNATURE) Glenn Androsko

P.O. NO.:
LAB USE ONLY: 10-0909
COOLER RECEIPT TEMP = 5°C °C

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___.

SPECIAL INSTRUCTIONS
(*) QUANTITATE CCID from C7-C40. 10/24/00 1730H

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or 8015M CCID (*)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EOB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)	Pb, Arsenic (6010)				
	JF-SB49-S1	SW-5	10·24·00	0845	Soil	4		X				X										X				
	S2	NW-5																								
	S3	B6																								
	S4	B-7		1000																						
	S5	SW-5																								
	S6	NW-5																								
	S7	B-6		1140																						
	S8	SW-5																								
	S9	NW-5																								
	S10	B-7		1300																						

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Glenn Androsko	[signature]	10·24·00	1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
[signature]	[signature]	10/24/00	1605

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10/01/00 Revision

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LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 10·24·00

Page 2 of 2

LABORATORY CLIENT: TRC

ADDRESS:

CITY | STATE | ZIP

TEL: | FAX: | E-MAIL:

CLIENT PROJECT NAME / NUMBER: JALK FEE

PROJECT CONTACT: JEFF HENSEL

SAMPLER(S): (SIGNATURE) Glenn Andrusko

P.O. NO.:

LAB USE ONLY 10-0909

COOLER RECEIPT TEMP = 5°C °C

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS
(*) QUANTITATE CCID from C7-C40 NL 10/24/00, 1730#
→ Additional analyses for S12-S15 requested by Glenn Andrusko and Jeff Hensel 10/24/00, 1720-1725#

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or 8015 m CCID (*)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EOB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (01946)	Pb, Arsenic (6010)				
	JF-SB49-S11	-SW-5	10·24·00	1300	Soil	4	\	X				X										X				
	S12	-NW-5		"																						
	S13	-B-6		1350																						
	S14	-SW-5																								
	S15	-NW-5																								

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Glenn Andrusko	[signature]	10·24·00	1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 10/24/00	Time: 1605
[signature]	[signature]		

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10/01/00 Revision

Q&Q Graphic (714) 898-9702

SAMPLE RECEIPT FORM

Work Order Number:	**00-10-0909**	Date Received:	10/24/00
Delivery Container Type:	Cooler	Date Opened:	10/24/00
Client Project ID:	Jalk Fee	Opened By:	VP

Section A: Pass/Fail Criteria

		Comments
1. Chain of custody document(s) received with samples.	Yes	
2. Sample container label(s) consistent with custody papers.	Yes	
3. Sample container label(s) complete (ID, date, time, taken by).	Yes	
4. Sample container(s) intact and in good condition.	Yes	
5. If applicable, proper preservation noted on sample label(s).	~~Yes~~	NA for soil 10/24/00
6. Sufficient sample volume received for analyses requested.	Yes	
7. Correct containers used for analyses requested.	Yes	
8. If applicable, VOA vials free of headspace.	NA	

Section B: Additional Observations

1. Describe packing materials used in container.	NA	
2. Was sample container('s) sealed with custody	No	
3. Were all samples sealed in separate plastic bags?	No	
4. Measured temperature inside delivery container when opened.	5.0	°C
5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.? If YES, attach copy of shipping slip/airbill to the back of this	No	
6. Do tedlar bags show condensation? Describe below if yes.	NA	
7. Are 25.1 condensate traps immersed in dry ice?	NA	
8. Are 25.1 sampling trains intact?	NA	
9. Are 25.3 condensate vials still attached to the sampling train?	NA	
10. Are 25.3 condensate vials on wet ice?	NA	

Section C: Additional Comments

Calscience
Environmental
Laboratories, Inc.

October 27, 2000

Jeff Hensel
TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Subject: **Calscience Work Order Number: 00-10-0952**
Client Reference: Jalk Fee

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/25/00, and analyzed as requested on the attached chain-of-custody record.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

Note that the Sample Receipt Form and Chain-of-Custody Record are integral parts of this report.

If you have any questions regarding this report, require sampling supplies or field services, or information about our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Michael J. Crisostomo
Project Manager

William H. Christensen
Quality Assurance Manager

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/25/00
21 Technology Drive	Date Received:	10/25/00
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 1 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M2-S16-B-10		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

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ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/25/00
21 Technology Drive	Date Received:	10/25/00
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 2 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M9-S17-WW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	28	
C21-C22	48	
C23-C24	56	
C25-C28	128	
C29-C32	217	
C33-C36	104	
C37-C40	144	
C7-C40 Total	725	25

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

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ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/25/00
21 Technology Drive	Date Received:	10/25/00
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 3 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M9-S18-NW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	2	
C17-C18	12	
C19-C20	9	
C21-C22	36	
C23-C24	17	
C25-C28	73	
C29-C32	120	
C33-C36	72	
C37-C40	52	
C7-C40 Total	393	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

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Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/25/00
21 Technology Drive	Date Received:	10/25/00
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 4 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M9-S19-B-7		
C7	ND	
C8	10	
C9-C10	285	
C11-C12	443	
C13-C14	783	
C15-C16	336	
C17-C18	488	
C19-C20	526	
C21-C22	213	
C23-C24	258	
C25-C28	479	
C29-C32	468	
C33-C36	321	
C37-C40	183	
C7-C40 Total	4790	50

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

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ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/25/00
21 Technology Drive	Date Received:	10/25/00
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 5 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M9-S20-SW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	5	
C19-C20	7	
C21-C22	30	
C23-C24	31	
C25-C28	84	
C29-C32	141	
C33-C36	115	
C37-C40	82	
C7-C40 Total	495	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

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ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/25/00
21 Technology Drive	Date Received:	10/25/00
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 6 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M9-S21-EW-5		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	5	
C15-C16	9	
C17-C18	25	
C19-C20	25	
C21-C22	39	
C23-C24	26	
C25-C28	71	
C29-C32	103	
C33-C36	72	
C37-C40	54	
C7-C40 Total	429	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/25/00
21 Technology Drive	Date Received:	10/25/00
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 7 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M7-S22-EW-8		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
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Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/25/00
21 Technology Drive	Date Received:	10/25/00
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 8 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M7-S23-SW-8		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

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ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/25/00
21 Technology Drive	Date Received:	10/25/00
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 9 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M7-S24-B-13		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
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Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/25/00
21 Technology Drive	Date Received:	10/25/00
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 10 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M7-S25-WW-8		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/25/00
21 Technology Drive	Date Received:	10/25/00
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 11 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M7-S26-NW8		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	NA
21 Technology Drive	Date Received:	NA
Irvine, CA 92618	Date Extracted:	10/25/00
	Date Analyzed:	10/25/00
	Work Order No.:	00-10-0952
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 12 of 12	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M2-S16-B-10	00-10-0952-1	10/25/00	Solid	10/25/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	5.4	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	0.98	10.00	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	92-139		Toluene-d8	99	90-104	
1,4-Bromofluorobenzene	95	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M9-S17-WW-5	00-10-0952-2	10/25/00	Solid	10/25/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	12	20	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.0	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	92-139		Toluene-d8	95	90-104	
1,4-Bromofluorobenzene	84	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M9-S18-NW-5	00-10-0952-3	10/25/00	Solid	10/25/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	10	20	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.0	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	92-139		Toluene-d8	96	90-104	
1,4-Bromofluorobenzene	85	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M9-S19-B-7	00-10-0952-4	10/25/00	Solid	10/25/00	10/26/00	001025BE

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	520	2000	100	J	ug/kg	1,3-Dichloropropane	ND	100	100		ug/kg
Benzene	ND	100	100		ug/kg	2,2-Dichloropropane	ND	500	100		ug/kg
Bromobenzene	ND	100	100		ug/kg	1,1-Dichloropropene	ND	100	100		ug/kg
Bromochloromethane	ND	100	100		ug/kg	c-1,3-Dichloropropene	ND	100	100		ug/kg
Bromodichloromethane	ND	100	100		ug/kg	t-1,3-Dichloropropene	ND	100	100		ug/kg
Bromoform	ND	500	100		ug/kg	Ethylbenzene	ND	100	100		ug/kg
Bromomethane	ND	500	100		ug/kg	2-Hexanone	ND	2000	100		ug/kg
2-Butanone	ND	2000	100		ug/kg	Isopropylbenzene	1300	100	100		ug/kg
n-Butylbenzene	67	100	100	J	ug/kg	p-Isopropyltoluene	ND	100	100		ug/kg
sec-Butylbenzene	950	100	100		ug/kg	Methylene Chloride	120	1000	100	J	ug/kg
tert-Butylbenzene	60	100	100	J	ug/kg	4-Methyl-2-Pentanone	ND	2000	100		ug/kg
Carbon Disulfide	ND	1000	100		ug/kg	Naphthalene	190	1000	100	J	ug/kg
Carbon Tetrachloride	ND	100	100		ug/kg	n-Propylbenzene	2000	100	100		ug/kg
Chlorobenzene	ND	100	100		ug/kg	Styrene	ND	100	100		ug/kg
Chloroethane	ND	100	100		ug/kg	1,1,1,2-Tetrachloroethane	ND	100	100		ug/kg
Chloroform	ND	100	100		ug/kg	1,1,2,2-Tetrachloroethane	ND	100	100		ug/kg
Chloromethane	ND	100	100		ug/kg	Tetrachloroethene	ND	100	100		ug/kg
2-Chlorotoluene	ND	100	100		ug/kg	Toluene	ND	100	100		ug/kg
4-Chlorotoluene	ND	100	100		ug/kg	1,2,3-Trichlorobenzene	ND	200	100		ug/kg
Dibromochloromethane	ND	100	100		ug/kg	1,2,4-Trichlorobenzene	ND	200	100		ug/kg
1,2-Dibromo-3-Chloropropane	ND	500	100		ug/kg	1,1,1-Trichloroethane	ND	100	100		ug/kg
1,2-Dibromoethane	ND	100	100		ug/kg	1,1,2-Trichloroethane	ND	100	100		ug/kg
Dibromomethane	ND	100	100		ug/kg	Trichloroethene	ND	100	100		ug/kg
1,2-Dichlorobenzene	ND	100	100		ug/kg	Trichlorofluoromethane	ND	1000	100		ug/kg
1,3-Dichlorobenzene	ND	100	100		ug/kg	1,2,3-Trichloropropane	ND	100	100		ug/kg
1,4-Dichlorobenzene	ND	100	100		ug/kg	1,2,4-Trimethylbenzene	ND	200	100		ug/kg
Dichlorodifluoromethane	ND	200	100		ug/kg	1,3,5-Trimethylbenzene	ND	200	100		ug/kg
1,1-Dichloroethane	ND	100	100		ug/kg	Vinyl Acetate	ND	1000	100		ug/kg
1,2-Dichloroethane	ND	100	100		ug/kg	Vinyl Chloride	ND	100	100		ug/kg
1,1-Dichloroethene	ND	100	100		ug/kg	p/m-Xylene	ND	200	100		ug/kg
c-1,2-Dichloroethene	ND	100	100		ug/kg	o-Xylene	ND	100	100		ug/kg
t-1,2-Dichloroethene	ND	100	100		ug/kg	Methyl-tert-Butyl Ether	ND	100	100		ug/kg
1,2-Dichloropropane	ND	100	100		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	92-139		Toluene-d8	100	90-104	
1,4-Bromofluorobenzene	105	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M9-S20-SW-5	00-10-0952-5	10/25/00	Solid	10/25/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	15	20	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.2	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	121	92-139		Toluene-d8	95	90-104	
1,4-Bromofluorobenzene	84	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M9-S21-EW-5	00-10-0952-6	10/25/00	Solid	10/25/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	7.4	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	0.51	1.0	1	J	ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	0.57	10.00	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	122	92-139		Toluene-d8	94	90-104	
1,4-Bromofluorobenzene	81	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M7-S22-EW-8	00-10-0952-7	10/25/00	Solid	10/25/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	12	20	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.2	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	3.1	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	121	92-139		Toluene-d8	99	90-104	
1,4-Bromofluorobenzene	95	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M7-S23-SW-8	00-10-0952-8	10/25/00	Solid	10/25/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	22	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.3	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	46	1	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	92-139		Toluene-d8	99	90-104	
1,4-Bromofluorobenzene	92	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M7-S24-B-13	00-10-0952-9	10/25/00	Solid	10/25/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	4.3	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	3.5	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	0.54	1.0	1	J	ug/kg
n-Butylbenzene	2.0	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.2	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	2.8	10.0	1	J	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	2.9	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	5.4	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	7.2	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	28	2	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	8.1	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	17	2	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	6.3	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	116	92-139		Toluene-d8	101	90-104	
1,4-Bromofluorobenzene	98	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M7-S25-WW-8	00-10-0952-10	10/25/00	Solid	10/25/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	23	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	6.7	20.0	1	J	ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.1	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	1.2	10.0	1	J	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	4.9	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	92-139		Toluene-d8	105	90-104	2
1,4-Bromofluorobenzene	101	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M7-S26-NW8	00-10-0952-11	10/25/00	Solid	10/25/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	4.0	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	0.99	10.00	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	4.1	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	92-139		Toluene-d8	100	90-104	
1,4-Bromofluorobenzene	97	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	095-01-025-2,204	N/A	Solid	N/A	10/26/00	001025BE

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	200	1000	50	J	ug/kg	1,3-Dichloropropane	ND	50	50		ug/kg
Benzene	ND	50	50		ug/kg	2,2-Dichloropropane	ND	250	50		ug/kg
Bromobenzene	ND	50	50		ug/kg	1,1-Dichloropropene	ND	50	50		ug/kg
Bromochloromethane	ND	50	50		ug/kg	c-1,3-Dichloropropene	ND	50	50		ug/kg
Bromodichloromethane	ND	50	50		ug/kg	t-1,3-Dichloropropene	ND	50	50		ug/kg
Bromoform	ND	250	50		ug/kg	Ethylbenzene	ND	50	50		ug/kg
Bromomethane	ND	250	50		ug/kg	2-Hexanone	ND	1000	50		ug/kg
2-Butanone	ND	1000	50		ug/kg	Isopropylbenzene	ND	50	50		ug/kg
n-Butylbenzene	ND	50	50		ug/kg	p-Isopropyltoluene	ND	50	50		ug/kg
sec-Butylbenzene	ND	50	50		ug/kg	Methylene Chloride	69	500	50	J	ug/kg
tert-Butylbenzene	ND	50	50		ug/kg	4-Methyl-2-Pentanone	ND	1000	50		ug/kg
Carbon Disulfide	ND	500	50		ug/kg	Naphthalene	29	500	50	J	ug/kg
Carbon Tetrachloride	ND	50	50		ug/kg	n-Propylbenzene	ND	50	50		ug/kg
Chlorobenzene	ND	50	50		ug/kg	Styrene	ND	50	50		ug/kg
Chloroethane	ND	50	50		ug/kg	1,1,1,2-Tetrachloroethane	ND	50	50		ug/kg
Chloroform	ND	50	50		ug/kg	1,1,2,2-Tetrachloroethane	ND	50	50		ug/kg
Chloromethane	ND	50	50		ug/kg	Tetrachloroethene	ND	50	50		ug/kg
2-Chlorotoluene	ND	50	50		ug/kg	Toluene	ND	50	50		ug/kg
4-Chlorotoluene	ND	50	50		ug/kg	1,2,3-Trichlorobenzene	ND	100	50		ug/kg
Dibromochloromethane	ND	50	50		ug/kg	1,2,4-Trichlorobenzene	ND	100	50		ug/kg
1,2-Dibromo-3-Chloropropane	ND	250	50		ug/kg	1,1,1-Trichloroethane	ND	50	50		ug/kg
1,2-Dibromoethane	ND	50	50		ug/kg	1,1,2-Trichloroethane	ND	50	50		ug/kg
Dibromomethane	ND	50	50		ug/kg	Trichloroethene	ND	50	50		ug/kg
1,2-Dichlorobenzene	ND	50	50		ug/kg	Trichlorofluoromethane	ND	500	50		ug/kg
1,3-Dichlorobenzene	ND	50	50		ug/kg	1,2,3-Trichloropropane	ND	50	50		ug/kg
1,4-Dichlorobenzene	ND	50	50		ug/kg	1,2,4-Trimethylbenzene	ND	100	50		ug/kg
Dichlorodifluoromethane	ND	100	50		ug/kg	1,3,5-Trimethylbenzene	ND	100	50		ug/kg
1,1-Dichloroethane	ND	50	50		ug/kg	Vinyl Acetate	ND	500	50		ug/kg
1,2-Dichloroethane	ND	50	50		ug/kg	Vinyl Chloride	ND	50	50		ug/kg
1,1-Dichloroethene	ND	50	50		ug/kg	p/m-Xylene	ND	100	50		ug/kg
c-1,2-Dichloroethene	ND	50	50		ug/kg	o-Xylene	ND	50	50		ug/kg
t-1,2-Dichloroethene	ND	50	50		ug/kg	Methyl-tert-Butyl Ether	ND	50	50		ug/kg
1,2-Dichloropropane	ND	50	50		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	92-139		Toluene-d8	98	90-104	
1,4-Bromofluorobenzene	92	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	095-01-025-2,205	N/A	Solid	N/A	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	0.95	10.00	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	92-139		Toluene-d8	100	90-104	
1,4-Bromofluorobenzene	92	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: Total Digestion
Method: EPA 6010B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M2-S16-B-10	00-10-0952-1	10/25/00	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.15	0.75	1		mg/kg	Lead	4.95	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M9-S17-WW-5	00-10-0952-2	10/25/00	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	3.51	0.75	1		mg/kg	Lead	4.25	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M9-S18-NW-5	00-10-0952-3	10/25/00	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	2.56	0.75	1		mg/kg	Lead	3.94	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M9-S19-B-7	00-10-0952-4	10/25/00	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	2.97	0.75	1		mg/kg	Lead	4.39	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M9-S20-SW-5	00-10-0952-5	10/25/00	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	3.51	0.75	1		mg/kg	Lead	4.22	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M9-S21-EW-5	00-10-0952-6	10/25/00	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	3.52	0.75	1		mg/kg	Lead	4.10	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M7-S22-EW-8	00-10-0952-7	10/25/00	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.16	0.75	1		mg/kg	Lead	4.82	0.50	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: Total Digestion
Method: EPA 6010B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M7-S23-SW-8	00-10-0952-8	10/25/00	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.02	0.75	1		mg/kg	Lead	4.84	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M7-S24-B-13	00-10-0952-9	10/25/00	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	2.78	0.75	1		mg/kg	Lead	2.81	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M7-S25-WW-8	00-10-0952-10	10/25/00	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.65	0.75	1		mg/kg	Lead	4.64	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M7-S26-NW8	00-10-0952-11	10/25/00	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.64	0.75	1		mg/kg	Lead	5.85	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	097-01-002-1,885	N/A	Solid	10/25/00	10/26/00	001025lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.750	1		mg/kg	Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M - Carbon Chain

TRC-Alton Geoscience		Work Order No.:	00-10-0952
Page 1 of 1		Date Analyzed:	10/25-26/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: JF-M2-S16-B-10

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Petroleum Hydrocarbons	118	118	52 - 149	0	0 - 29

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
Total Petroleum Hydrocarbons	400	446	111	79 - 137

Surrogate Recoveries (in %)

Sample Number	S1	Sample Number	S1
JF-M2-S16-B-10	95	JF-M7-S22-EW-8	95
JF-M9-S17-WW-5	132	JF-M7-S23-SW-8	96
JF-M9-S18-NW-5	82	JF-M7-S24-B-13	96
JF-M9-S19-B-7	96	JF-M7-S25-WW8	90
JF-M9-S20-SW-5	87	JF-M7-S26-NW8	103
JF-M9-S21-EW-5	94	Method Blank	101

Surrogate Compound	%REC Acceptable Limits
S1 > Decachlorobiphenyl	52 - 135

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: Jalk Fee

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-2,204	Solid	GC/MS I	N/A	10/25/00	001025BE

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	102	89-111	0	0-15	
Carbon Tetrachloride	119	120	79-131	1	0-16	
Chlorobenzene	102	104	85-113	2	0-21	
1,2-Dichlorobenzene	100	99	79-117	1	0-20	
1,1-Dichloroethene	111	115	85-125	4	0-14	
Toluene	101	102	88-114	1	0-16	
Trichloroethene	100	104	87-115	3	0-18	
Vinyl Chloride	122	126	77-133	3	0-21	
Methyl-tert-Butyl Ether	102	101	83-119	2	0-17	
Tert-Butyl alcohol (TBA)	106	102	60-140	4	0-25	
Diisopropyl ether (DIPE)	112	111	60-140	1	0-25	
Ethyl t-butyl ether (ETBE)	105	103	60-140	1	0-25	
Tert-Amyl methyl ether	101	100	60-140	1	0-25	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: Jalk Fee

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: EPA 5035
Method: EPA 8260B

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-2,205	Solid	GC/MS I	N/A	10/26/00	001026AS

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	98	89-111	1	0-15	
Carbon Tetrachloride	107	108	79-131	0	0-16	
Chlorobenzene	100	97	85-113	2	0-21	
1,2-Dichlorobenzene	98	100	79-117	2	0-20	
1,1-Dichloroethene	104	102	85-125	1	0-14	
Toluene	100	99	88-114	1	0-16	
Trichloroethene	99	98	87-115	0	0-18	
Vinyl Chloride	105	105	77-133	0	0-21	
Methyl-tert-Butyl Ether	104	100	83-119	4	0-17	
Tert-Butyl alcohol (TBA)	110	100	60-140	9	0-25	
Diisopropyl ether (DIPE)	105	103	60-140	2	0-25	
Ethyl t-butyl ether (ETBE)	104	103	60-140	2	0-25	
Tert-Amyl methyl ether	103	100	60-140	3	0-25	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: Jalk Fee

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: Total Digestion
Method: EPA 6010B

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
JF-M7-S24-B-13	Solid	ICP 3300	10/25/00	10/26/00	102500ms6

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	96	96	75-125	1	0-20	
Lead	92	92	75-125	0	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: Jalk Fee

Date Received: 10/25/00
Work Order No: 00-10-0952
Preparation: Total Digestion
Method: EPA 6010B

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-1,885	Solid	ICP 3300	10/26/00	001025-L	001025lcs6

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Arsenic	50	46.7	93	80-120	
Lead	50	48.9	98	80-120	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-10-0952

Qualifier	Definition
2	Surrogate spike compound was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 10.25.00

LABORATORY CLIENT: TRC	CLIENT PROJECT NAME / NUMBER: JALK FEE
ADDRESS: 21 Technology Dr	PROJECT CONTACT: Jeff Hensel
CITY: Irvine STATE: CA ZIP: 92618	SAMPLER(S): (SIGNATURE) Glenn Anderson
TEL: FAX: E-MAIL:	P.O. NO.:
	LAB USE ONLY: 10-0952
	COOLER RECEIPT TEMP = °C

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS
(*) Please refer to the email confirmation by Jeff Hensel.

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or DHS Carbon Chain	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EDB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)	Pb, Arsenic (6010)					
	JF-M2-S16	B-1D	10.25.00	0750	soil	4		X				X										X					
	JF-M9-S17	-WW-5		1015																							
	S18	-NW-5		1020																							
	S19	-B-7		1025																							
	S20	-SW-5		1035																							
	S21	-EW-5		1145																							
	M7 (*) S22	-EW-8		1415																							
	S23	-SW-8		1420																							
	S24	-B-13		1410																							
	S25	-WW-8		1425																							

ROI 4°C

Relinquished by: (Signature) Glenn Anderson	Received by: (Signature)	Date: 10/25/00 Time: 1445
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 10/25/00 Time: 1635

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

10/01/00 Revision

Q&Q Graphic (714) 898-9702

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 10.25.00

LABORATORY CLIENT: TRC	CLIENT PROJECT NAME / NUMBER: JALK FEE	P.O. NO.:
ADDRESS:	PROJECT CONTACT:	LAB USE ONLY 10-0952
CITY: Irvine STATE: ZIP:	SAMPLER(S): (SIGNATURE) Glenn Anderson	COOLER RECEIPT TEMP = °C
TEL: FAX: E-MAIL:		

TURNARQUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or gas carbon chain	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EOB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (831D)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMD (25.1)	FIXED GASES (25.1) or (D1946)	Pb, Arsenic (6010)				
	JF-M7-SR6-NW8		10.25.00	1435	soil	4		X				X										X			

ROI 4°C

Relinquished by: (Signature) Glenn Anderson	Received by: (Signature)	Date: 10/25/00 Time: 1445
Relinquished by: (Signature)	Received by: (Signature)	Date: Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 10/25/00 Time: 1635

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

10/01/00 Revision

Q&Q Graphic (714) 898-9702

Reply-To: <jhensel@trcsolutions.com>
From: "Jeff Hensel" <jhensel@trcsolutions.com>
To: "Mike Crisostomo" <mcrisostomo@calscience.com>
Subject: RE: Confirmation of Change in Sample Identification; CEL# 00-10-0952
Date: Mon, 6 Nov 2000 14:26:38 -0800
X-Mailer: Microsoft Outlook 8.5, Build 4.71.2173.0
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.2106.4
Importance: Normal

I confirm this change.

Thanks.

Jeff Hensel, RG, REA
TRC
21 Technology Drive
Irvine, CA 92618
Phone: 949-341-7449
Fax: 949-753-0111
Pager: 949-719-5368
jhensel@trcsolutions.com <mailto:jhensel@trcsolutions.com>

-----Original Message-----
From: Mike Crisostomo [mailto:mcrisostomo@calscience.com]
Sent: Tuesday, October 31, 2000 13:42
To: Jeff Hensel
Cc: Cecile de Guia
Subject: Confirmation of Change in Sample Identification; CEL# 00-10-0952

Jeff,

On 10/25/00, Calscience received eleven (11) soil samples associated with the Jalk Fee project. On 10/26/00, Glenn Androsko requested that Calscience change the "M9" for samples identified with S22, S23, S24, and S25 to read "M7." This change was made per Glenn Androsko's verbal request, however, a written confirmation from TRC-Alton Geoscience is required in order for us to release the final report.

Will you please confirm that the M9 to M7 change is correct by replying with your answer to this e-mail?

Thanks,
Mike Crisostomo
714-895-5494 x136

SAMPLE RECEIPT FORM

Work Order Number:	**00-10-0952**	Date Received:	10/25/00
Delivery Container Type:	Cooler	Date Opened:	10/25/00
Client Project ID:	Mobil 18-FEE	Opened By:	JP

Section A: Pass/Fail Criteria

Criteria		Comments
1. Chain of custody document(s) received with samples.	Yes	
2. Sample container label(s) consistent with custody papers.	Yes	
3. Sample container label(s) complete (ID, date, time, taken by).	Yes	
4. Sample container(s) intact and in good condition.	Yes	
5. If applicable, proper preservation noted on sample label(s).	Yes	
6. Sufficient sample volume received for analyses requested.	Yes	
7. Correct containers used for analyses requested.	Yes	
8. If applicable, VOA vials free of headspace.	NA	

Section B: Additional Observations

1. Describe packing materials used in container.	NA	
2. Was sample container('s) sealed with custody	No	
3. Were all samples sealed in separate plastic bags?	No	
4. Measured temperature inside delivery container when opened.	4.0	°C
5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.? If YES, attach copy of shipping slip/airbill to the back of this	No	
6. Do tedlar bags show condensation? Describe below if yes.	NA	
7. Are 25.1 condensate traps immersed in dry ice?	NA	
8. Are 25.1 sampling trains intact?	NA	
9. Are 25.3 condensate vials still attached to the sampling train?	NA	
10. Are 25.3 condensate vials on wet ice?	NA	

Section C: Additional Comments

Calscience Environmental Laboratories, Inc.

October 27, 2000

Jeff Hensel
TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Subject: **Calscience Work Order Number: 00-10-1047**
Client Reference: Jalk Fee

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/26/00, and analyzed as requested on the attached chain-of-custody record.

The results in this analytical report are limited to the sample tested, and any reproduction of this report must be made in its entirety.

Note that the Sample Receipt Form and Chain of Custody Record are integral parts of this report.

If you have any questions regarding this report, require sampling supplies or field services, or information about our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Michael J. Crisostomo
Project Manager

William H. Christensen
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/26/00
21 Technology Drive	Date Received:	10/26/00
Irvine, CA 92618	Date Extracted:	10/26/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-1047
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 1 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M8-S27-B-13		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/26/00
21 Technology Drive	Date Received:	10/26/00
Irvine, CA 92618	Date Extracted:	10/26/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-1047
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee		

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M8-S28-WW-10		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	4	
C13-C14	16	
C15-C16	16	
C17-C18	19	
C19-C20	20	
C21-C22	9	
C23-C24	11	
C25-C28	21	
C29-C32	19	
C33-C36	14	
C37-C40	8	
Total	157	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range. Heavier hydrocarbons greater than C40 were also detected.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/26/00
21 Technology Drive	Date Received:	10/26/00
Irvine, CA 92618	Date Extracted:	10/26/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-1047
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 3 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S4-B-B13		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	1	
C15-C16	ND	
C17-C18	6	
C19-C20	2	
C21-C22	8	
C23-C24	ND	
C25-C28	16	
C29-C32	11	
C33-C36	9	
C37-C40	3	
Total	56	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range. Heavier hydrocarbons greater than C40 were also detected.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/26/00
21 Technology Drive	Date Received:	10/26/00
Irvine, CA 92618	Date Extracted:	10/26/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-1047
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 4 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-SB49-S5-B-SW10		
C7	225	
C8	48	
C9-C10	210	
C11-C12	320	
C13-C14	261	
C15-C16	448	
C17-C18	274	
C19-C20	223	
C21-C22	195	
C23-C24	138	
C25-C28	202	
C29-C32	191	
C33-C36	186	
C37-C40	95	
Total	3020	25

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range. Heavier hydrocarbons greater than C40 were also detected.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/26/00
21 Technology Drive	Date Received:	10/26/00
Irvine, CA 92618	Date Extracted:	10/26/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-1047
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 5 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M3-S29-B-16		
C7	910	
C8	198	
C9-C10	2090	
C11-C12	1760	
C13-C14	852	
C15-C16	393	
C17-C18	584	
C19-C20	608	
C21-C22	240	
C23-C24	284	
C25-C28	521	
C29-C32	438	
C33-C36	400	
C37-C40	266	
Total	9540	100

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range. Heavier hydrocarbons greater than C40 were also detected.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/26/00
21 Technology Drive	Date Received:	10/26/00
Irvine, CA 92618	Date Extracted:	10/26/00
	Date Analyzed:	10/26/00
	Work Order No.:	00-10-1047
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 6 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/26/00
Work Order No: 00-10-1047
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M8-S27-B-13	00-10-1047-1	10/26/00	Solid	10/26/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	ND	10	1		ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	121	92-139		Toluene-d8	100	90-104	
1,4-Bromofluorobenzene	93	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/26/00
Work Order No: 00-10-1047
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M8-S28-WW-10	00-10-1047-2	10/26/00	Solid	10/26/00	10/27/00	001026BE

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	2000	100		ug/kg	1,3-Dichloropropane	ND	100	100		ug/kg
Benzene	ND	100	100		ug/kg	2,2-Dichloropropane	ND	500	100		ug/kg
Bromobenzene	ND	100	100		ug/kg	1,1-Dichloropropene	ND	100	100		ug/kg
Bromochloromethane	ND	100	100		ug/kg	c-1,3-Dichloropropene	ND	100	100		ug/kg
Bromodichloromethane	ND	100	100		ug/kg	t-1,3-Dichloropropene	ND	100	100		ug/kg
Bromoform	ND	500	100		ug/kg	Ethylbenzene	ND	100	100		ug/kg
Bromomethane	ND	500	100		ug/kg	2-Hexanone	ND	2000	100		ug/kg
2-Butanone	ND	2000	100		ug/kg	Isopropylbenzene	ND	100	100		ug/kg
n-Butylbenzene	ND	100	100		ug/kg	p-Isopropyltoluene	ND	100	100		ug/kg
sec-Butylbenzene	ND	100	100		ug/kg	Methylene Chloride	ND	1000	100		ug/kg
tert-Butylbenzene	ND	100	100		ug/kg	4-Methyl-2-Pentanone	ND	2000	100		ug/kg
Carbon Disulfide	ND	1000	100		ug/kg	Naphthalene	ND	1000	100		ug/kg
Carbon Tetrachloride	ND	100	100		ug/kg	n-Propylbenzene	ND	100	100		ug/kg
Chlorobenzene	ND	100	100		ug/kg	Styrene	ND	100	100		ug/kg
Chloroethane	ND	100	100		ug/kg	1,1,1,2-Tetrachloroethane	ND	100	100		ug/kg
Chloroform	ND	100	100		ug/kg	1,1,2,2-Tetrachloroethane	ND	100	100		ug/kg
Chloromethane	ND	100	100		ug/kg	Tetrachloroethene	ND	100	100		ug/kg
2-Chlorotoluene	ND	100	100		ug/kg	Toluene	ND	100	100		ug/kg
4-Chlorotoluene	ND	100	100		ug/kg	1,2,3-Trichlorobenzene	ND	200	100		ug/kg
Dibromochloromethane	ND	100	100		ug/kg	1,2,4-Trichlorobenzene	ND	200	100		ug/kg
1,2-Dibromo-3-Chloropropane	ND	500	100		ug/kg	1,1,1-Trichloroethane	ND	100	100		ug/kg
1,2-Dibromoethane	ND	100	100		ug/kg	1,1,2-Trichloroethane	ND	100	100		ug/kg
Dibromomethane	ND	100	100		ug/kg	Trichloroethene	ND	100	100		ug/kg
1,2-Dichlorobenzene	ND	100	100		ug/kg	Trichlorofluoromethane	ND	1000	100		ug/kg
1,3-Dichlorobenzene	ND	100	100		ug/kg	1,2,3-Trichloropropane	ND	100	100		ug/kg
1,4-Dichlorobenzene	ND	100	100		ug/kg	1,2,4-Trimethylbenzene	ND	200	100		ug/kg
Dichlorodifluoromethane	ND	200	100		ug/kg	1,3,5-Trimethylbenzene	ND	200	100		ug/kg
1,1-Dichloroethane	ND	100	100		ug/kg	Vinyl Acetate	ND	1000	100		ug/kg
1,2-Dichloroethane	ND	100	100		ug/kg	Vinyl Chloride	ND	100	100		ug/kg
1,1-Dichloroethene	ND	100	100		ug/kg	p/m-Xylene	ND	200	100		ug/kg
c-1,2-Dichloroethene	ND	100	100		ug/kg	o-Xylene	ND	100	100		ug/kg
t-1,2-Dichloroethene	ND	100	100		ug/kg	Methyl-tert-Butyl Ether	200	100	100		ug/kg
1,2-Dichloropropane	ND	100	100		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	92-139		Toluene-d8	99	90-104	
1,4-Bromofluorobenzene	96	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/26/00
Work Order No: 00-10-1047
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S4-B-B13	00-10-1047-3	10/26/00	Solid	10/26/00	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	ND	10	1		ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	1100	100	100	D	ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	2.4	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	20	1	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	92-139		Toluene-d8	100	90-104	
1,4-Bromofluorobenzene	93	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/26/00
Work Order No: 00-10-1047
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S5-B-SW10	00-10-1047-4	10/26/00	Solid	10/26/00	10/27/00	001026BE

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	2000	100		ug/kg	1,3-Dichloropropane	ND	100	100		ug/kg
Benzene	ND	100	100		ug/kg	2,2-Dichloropropane	ND	500	100		ug/kg
Bromobenzene	ND	100	100		ug/kg	1,1-Dichloropropene	ND	100	100		ug/kg
Bromochloromethane	ND	100	100		ug/kg	c-1,3-Dichloropropene	ND	100	100		ug/kg
Bromodichloromethane	ND	100	100		ug/kg	t-1,3-Dichloropropene	ND	100	100		ug/kg
Bromoform	ND	500	100		ug/kg	Ethylbenzene	3300	100	100		ug/kg
Bromomethane	ND	500	100		ug/kg	2-Hexanone	ND	2000	100		ug/kg
2-Butanone	ND	2000	100		ug/kg	Isopropylbenzene	1600	100	100		ug/kg
n-Butylbenzene	1900	100	100		ug/kg	p-Isopropyltoluene	1900	100	100		ug/kg
sec-Butylbenzene	1300	100	100		ug/kg	Methylene Chloride	ND	1000	100		ug/kg
tert-Butylbenzene	ND	100	100		ug/kg	4-Methyl-2-Pentanone	ND	2000	100		ug/kg
Carbon Disulfide	ND	1000	100		ug/kg	Naphthalene	4300	1000	100		ug/kg
Carbon Tetrachloride	ND	100	100		ug/kg	n-Propylbenzene	2900	100	100		ug/kg
Chlorobenzene	ND	100	100		ug/kg	Styrene	ND	100	100		ug/kg
Chloroethane	ND	100	100		ug/kg	1,1,1,2-Tetrachloroethane	ND	100	100		ug/kg
Chloroform	ND	100	100		ug/kg	1,1,2,2-Tetrachloroethane	ND	100	100		ug/kg
Chloromethane	ND	100	100		ug/kg	Tetrachloroethene	3000	100	100		ug/kg
2-Chlorotoluene	ND	100	100		ug/kg	Toluene	ND	100	100		ug/kg
4-Chlorotoluene	ND	100	100		ug/kg	1,2,3-Trichlorobenzene	ND	200	100		ug/kg
Dibromochloromethane	ND	100	100		ug/kg	1,2,4-Trichlorobenzene	ND	200	100		ug/kg
1,2-Dibromo-3-Chloropropane	ND	500	100		ug/kg	1,1,1-Trichloroethane	ND	100	100		ug/kg
1,2-Dibromoethane	ND	100	100		ug/kg	1,1,2-Trichloroethane	ND	100	100		ug/kg
Dibromomethane	ND	100	100		ug/kg	Trichloroethene	730	100	100		ug/kg
1,2-Dichlorobenzene	ND	100	100		ug/kg	Trichlorofluoromethane	ND	1000	100		ug/kg
1,3-Dichlorobenzene	ND	100	100		ug/kg	1,2,3-Trichloropropane	ND	100	100		ug/kg
1,4-Dichlorobenzene	ND	100	100		ug/kg	1,2,4-Trimethylbenzene	17000	200	100		ug/kg
Dichlorodifluoromethane	ND	200	100		ug/kg	1,3,5-Trimethylbenzene	920	200	100		ug/kg
1,1-Dichloroethane	ND	100	100		ug/kg	Vinyl Acetate	ND	1000	100		ug/kg
1,2-Dichloroethane	ND	100	100		ug/kg	Vinyl Chloride	ND	100	100		ug/kg
1,1-Dichloroethene	ND	100	100		ug/kg	p/m-Xylene	430	200	100		ug/kg
c-1,2-Dichloroethene	2000	100	100		ug/kg	o-Xylene	190	100	100		ug/kg
t-1,2-Dichloroethene	ND	100	100		ug/kg	Methyl-tert-Butyl Ether	ND	100	100		ug/kg
1,2-Dichloropropane	ND	100	100		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	97	92-139		Toluene-d8	106	90-104	2
1,4-Bromofluorobenzene	107	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/26/00
Work Order No: 00-10-1047
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M3-S29-B-16	00-10-1047-5	10/26/00	Solid	10/26/00	10/27/00	001026BE

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	8000	400		ug/kg	1,3-Dichloropropane	ND	400	400		ug/kg
Benzene	ND	400	400		ug/kg	2,2-Dichloropropane	ND	2000	400		ug/kg
Bromobenzene	ND	400	400		ug/kg	1,1-Dichloropropene	ND	400	400		ug/kg
Bromochloromethane	ND	400	400		ug/kg	c-1,3-Dichloropropene	ND	400	400		ug/kg
Bromodichloromethane	ND	400	400		ug/kg	t-1,3-Dichloropropene	ND	400	400		ug/kg
Bromoform	ND	2000	400		ug/kg	Ethylbenzene	12000	400	400		ug/kg
Bromomethane	ND	2000	400		ug/kg	2-Hexanone	ND	8000	400		ug/kg
2-Butanone	ND	8000	400		ug/kg	Isopropylbenzene	11000	400	400		ug/kg
n-Butylbenzene	4300	400	400		ug/kg	p-Isopropyltoluene	5900	400	400		ug/kg
sec-Butylbenzene	8900	400	400		ug/kg	Methylene Chloride	ND	4000	400		ug/kg
tert-Butylbenzene	520	400	400		ug/kg	4-Methyl-2-Pentanone	ND	8000	400		ug/kg
Carbon Disulfide	ND	4000	400		ug/kg	Naphthalene	6000	4000	400		ug/kg
Carbon Tetrachloride	ND	400	400		ug/kg	n-Propylbenzene	19000	400	400		ug/kg
Chlorobenzene	ND	400	400		ug/kg	Styrene	ND	400	400		ug/kg
Chloroethane	ND	400	400		ug/kg	1,1,1,2-Tetrachloroethane	ND	400	400		ug/kg
Chloroform	ND	400	400		ug/kg	1,1,2,2-Tetrachloroethane	ND	400	400		ug/kg
Chloromethane	ND	400	400		ug/kg	Tetrachloroethene	ND	400	400		ug/kg
2-Chlorotoluene	ND	400	400		ug/kg	Toluene	940	400	400		ug/kg
4-Chlorotoluene	ND	400	400		ug/kg	1,2,3-Trichlorobenzene	ND	800	400		ug/kg
Dibromochloromethane	ND	400	400		ug/kg	1,2,4-Trichlorobenzene	ND	800	400		ug/kg
1,2-Dibromo-3-Chloropropane	ND	2000	400		ug/kg	1,1,1-Trichloroethane	ND	400	400		ug/kg
1,2-Dibromoethane	ND	400	400		ug/kg	1,1,2-Trichloroethane	ND	400	400		ug/kg
Dibromomethane	ND	400	400		ug/kg	Trichloroethene	ND	400	400		ug/kg
1,2-Dichlorobenzene	ND	400	400		ug/kg	Trichlorofluoromethane	ND	4000	400		ug/kg
1,3-Dichlorobenzene	ND	400	400		ug/kg	1,2,3-Trichloropropane	ND	400	400		ug/kg
1,4-Dichlorobenzene	ND	400	400		ug/kg	1,2,4-Trimethylbenzene	43000	800	400		ug/kg
Dichlorodifluoromethane	ND	800	400		ug/kg	1,3,5-Trimethylbenzene	9200	800	400		ug/kg
1,1-Dichloroethane	ND	400	400		ug/kg	Vinyl Acetate	ND	4000	400		ug/kg
1,2-Dichloroethane	ND	400	400		ug/kg	Vinyl Chloride	ND	400	400		ug/kg
1,1-Dichloroethene	ND	400	400		ug/kg	p/m-Xylene	22000	800	400		ug/kg
c-1,2-Dichloroethene	ND	400	400		ug/kg	o-Xylene	2800	400	400		ug/kg
t-1,2-Dichloroethene	ND	400	400		ug/kg	Methyl-tert-Butyl Ether	ND	400	400		ug/kg
1,2-Dichloropropane	ND	400	400		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	95	92-139		Toluene-d8	113	90-104	2
1,4-Bromofluorobenzene	104	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/26/00
Work Order No: 00-10-1047
Preparation: EPA 5035
Method: EPA 8260B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	095-01-025-2,205	N/A	Solid	N/A	10/26/00	001026AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	ND	10	1		ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	92-139		Toluene-d8	100	90-104	
1,4-Bromofluorobenzene	92	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/26/00
Work Order No: 00-10-1047
Preparation: Total Digestion
Method: EPA 6010B

Project: Jalk Fee

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M8-S27-B-13	00-10-1047-1	10/26/00	Solid	10/26/00	10/27/00	001026lc10

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	5.36	0.75	1		mg/kg	Lead	4.63	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M8-S28-WW-10	00-10-1047-2	10/26/00	Solid	10/26/00	10/27/00	001026lc10

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	6.23	0.75	1		mg/kg	Lead	5.50	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S4-B-B13	00-10-1047-3	10/26/00	Solid	10/26/00	10/27/00	001026lc10

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	2.65	0.75	1		mg/kg	Lead	2.52	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S5-B-SW10	00-10-1047-4	10/26/00	Solid	10/26/00	10/27/00	001026lc10

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	5.57	0.75	1		mg/kg	Lead	6.15	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M3-S29-B-16	00-10-1047-5	10/26/00	Solid	10/26/00	10/27/00	001026lc10

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.31	0.75	1		mg/kg	Lead	4.21	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	097-01-002-1,887	N/A	Solid	10/26/00	10/27/00	001026lc10

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.750	1		mg/kg	Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M - Carbon Chain

TRC-Alton Geoscience		Work Order No.:	00-10-1047
Page 1 of 1		Date Analyzed:	10/26-27/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: JF-M8-S27-B-13

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Petroleum Hydrocarbons	89	90	52 - 149	2	0 - 29

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
Total Petroleum Hydrocarbons	400	319	80	79 - 137

Surrogate Recoveries (in %)

Sample Number	S1
JF-M8-S27-B-13	110
JF-M8-S28-WW-10	132
JF-SB49-S4-B-B13	129
JF-SB49-S5-B-SW10	102
JF-M3-S29-B-16	116
Method Blank	88

Surrogate Compound	%REC Acceptable Limits
S1 > Decachlorobiphenyl	52 - 135

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: Jalk Fee

Date Received: 10/26/00
Work Order No: 00-10-1047
Preparation: EPA 5035
Method: EPA 8260B

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-2,205	Solid	GC/MS I	N/A	10/26/00	001026AS

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	98	89-111	1	0-15	
Carbon Tetrachloride	107	108	79-131	0	0-16	
Chlorobenzene	100	97	85-113	2	0-21	
1,2-Dichlorobenzene	98	100	79-117	2	0-20	
1,1-Dichloroethene	104	102	85-125	1	0-14	
Toluene	100	99	88-114	1	0-16	
Trichloroethene	99	98	87-115	0	0-18	
Vinyl Chloride	105	105	77-133	0	0-21	
Methyl-tert-Butyl Ether	104	100	83-119	4	0-17	
Tert-Butyl alcohol (TBA)	110	100	60-140	9	0-25	
Diisopropyl ether (DIPE)	105	103	60-140	2	0-25	
Ethyl t-butyl ether (ETBE)	104	103	60-140	2	0-25	
Tert-Amyl methyl ether	103	100	60-140	3	0-25	

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: Jalk Fee

Date Received: 10/26/00
Work Order No: 00-10-1047
Preparation: EPA 5035
Method: EPA 8260B

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-2,207	Solid	GC/MS I	N/A	10/26/00	001026BE

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	98	89-111	2	0-15	
Carbon Tetrachloride	121	116	79-131	4	0-16	
Chlorobenzene	100	100	85-113	0	0-21	
1,2-Dichlorobenzene	98	95	79-117	2	0-20	
1,1-Dichloroethene	112	108	85-125	4	0-14	
Toluene	100	98	88-114	1	0-16	
Trichloroethene	100	100	87-115	1	0-18	
Vinyl Chloride	123	118	77-133	5	0-21	
Methyl-tert-Butyl Ether	102	98	83-119	4	0-17	
Tert-Butyl alcohol (TBA)	104	99	60-140	5	0-25	
Diisopropyl ether (DIPE)	110	106	60-140	3	0-25	
Ethyl t-butyl ether (ETBE)	106	100	60-140	6	0-25	
Tert-Amyl methyl ether	98	96	60-140	2	0-25	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: Jalk Fee

Date Received: 10/26/00
Work Order No: 00-10-1047
Preparation: Total Digestion
Method: EPA 6010B

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-1,887	Solid	ICP 3300	10/27/00	001026-I	001026lc10

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Arsenic	50	48.4	97	80-120	
Lead	50	50.7	101	80-120	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-10-1047

Qualifier	Definition
2	Surrogate spike compound was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
D	The sample data was reported from a diluted analysis.
ND	Not detected at indicated reporting limit.

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LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 10·26·00

Page 1 of 1

LABORATORY CLIENT: TRC

ADDRESS: 21 Technology Dr

CITY: Irvine STATE: CA ZIP: 92618

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: JALK FEE

PROJECT CONTACT: Jeff Hensel

SAMPLER(S): (SIGNATURE) Glenn Androsko

P.O. NO.:

LAB USE ONLY: 10-1047

COOLER RECEIPT TEMP = °C

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or 8015 Carbon chain	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EOB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)	Pb, Arsenic (6010)
	JF-M8-S27-	B-13	10·26·00	1050	Soil	4		X				X										X
	" S28-	WW-10	↓	1100	↓	↓		X				X										X
	JF-SB49-S4-	B-B13		1255				X				X										X
	" S5-	B-SW10		1300				X				X										X
	JF-M3-S29-	B-16		1445				X				X										-

ROI 4°C

Relinquished by: (Signature) Glenn Androsko	Received by: (Signature)	Date: 10/26/00	Time: 1525
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 10/26/00	Time: 1600

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

10/01/00 Revision

Q&Q Graphic (714) 898-9702

SAMPLE RECEIPT FORM

Work Order Number:	**00-10-1047**	Date Received:	10/26/00
Delivery Container Type:	Cooler	Date Opened:	10/26/00
Client Project ID:	~~18 FEE~~ Jalk Fee 10/26/00	Opened By:	JP

Section A: Pass/Fail Criteria

		Comments
1. Chain of custody document(s) received with samples.	Yes	
2. Sample container label(s) consistent with custody papers.	Yes	
3. Sample container label(s) complete (ID, date, time, taken by).	Yes	
4. Sample container(s) intact and in good condition.	Yes	
5. If applicable, proper preservation noted on sample label(s).	NA	
6. Sufficient sample volume received for analyses requested.	Yes	
7. Correct containers used for analyses requested.	Yes	
8. If applicable, VOA vials free of headspace.	NA	

Section B: Additional Observations

1. Describe packing materials used in container.	NA
2. Was sample container('s) sealed with custody	No
3. Were all samples sealed in separate plastic bags?	No
4. Measured temperature inside delivery container when opened.	4.0 °C
5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.? If YES, attach copy of shipping slip/airbill to the back of this	No
6. Do tedlar bags show condensation? Describe below if yes.	NA
7. Are 25.1 condensate traps immersed in dry ice?	NA
8. Are 25.1 sampling trains intact?	NA
9. Are 25.3 condensate vials still attached to the sampling train?	NA
10. Are 25.3 condensate vials on wet ice?	NA

Section C: Additional Comments

Calscience
Environmental
Laboratories, Inc.

October 31, 2000

Jeff Hensel
TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Subject: **Calscience Work Order Number: 00-10-1211**
Client Reference: Mobil - JALK FEE

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/30/00, and analyzed as requested on the attached chain-of-custody record.

The results in this analytical report are limited to the sample tested, and any reproduction of this report must be made in its entirety.

Note that the Sample Receipt Form and Chain of Custody Record are integral parts of this report.

If you have any questions regarding this report, require sampling supplies or field services, or information about our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Michael J. Crisostomo
Project Manager

William H. Christensen
Quality Assurance Manager

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/30/00
21 Technology Drive	Date Received:	10/30/00
Irvine, CA 92618	Date Extracted:	10/30/00
	Date Analyzed:	10/30/00
	Work Order No.:	00-10-1211.
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Mobil - JALK FEE	Page 1 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M3-S29B-B-19		
C7	1440	
C8	1410	
C9-C10	1470	
C11-C12	1190	
C13-C14	1170	
C15-C16	962	
C17-C18	1040	
C19-C20	1030	
C21-C22	428	
C23-C24	662	
C25-C28	1010	
C29-C32	994	
C33-C36	676	
C37-C40	454	
C7-C40 Total	13900	100

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/30/00
21 Technology Drive	Date Received:	10/30/00
Irvine, CA 92618	Date Extracted:	10/30/00
	Date Analyzed:	10/30/00
	Work Order No.:	00-10-1211.
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Mobil - JALK FEE	Page 2 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M8-S30-SW-10		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	37	
C17-C18	85	
C19-C20	99	
C21-C22	143	
C23-C24	77	
C25-C28	300	
C29-C32	358	
C33-C36	129	
C37-C40	205	
C7-C40 Total	1430	50

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
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ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/30/00
21 Technology Drive	Date Received:	10/30/00
Irvine, CA 92618	Date Extracted:	10/30/00
	Date Analyzed:	10/30/00
	Work Order No.:	00-10-1211.
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Mobil - JALK FEE		

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M8-S31-EW-10		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	2	
C19-C20	12	
C21-C22	18	
C23-C24	10	
C25-C28	44	
C29-C32	104	
C33-C36	39	
C37-C40	68	
C7-C40 Total	297	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/30/00
21 Technology Drive	Date Received:	10/30/00
Irvine, CA 92618	Date Extracted:	10/30/00
	Date Analyzed:	10/30/00
	Work Order No.:	00-10-1211.
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Mobil - JALK FEE	Page 4 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M8-S32-NW-10		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	52	
C13-C14	174	
C15-C16	92	
C17-C18	138	
C19-C20	237	
C21-C22	91	
C23-C24	122	
C25-C28	249	
C29-C32	285	
C33-C36	170	
C37-C40	158	
C7-C40 Total	1770	100

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/30/00
21 Technology Drive	Date Received:	10/30/00
Irvine, CA 92618	Date Extracted:	10/30/00
	Date Analyzed:	10/30/00
	Work Order No.:	00-10-1211.
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Mobil - JALK FEE	Page 5 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M3-S33-EW-10		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	1	
C19-C20	1	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	NA
21 Technology Drive	Date Received:	NA
Irvine, CA 92618	Date Extracted:	10/30/00
	Date Analyzed:	10/31/00
	Work Order No.:	00-10-1211.
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Mobil - JALK FEE	Page 6 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/30/00
Work Order No: 00-10-1211
Preparation: EPA 5035
Method: EPA 8260B

Project: Mobil - JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M8-S30-SW-10	00-10-1211-2	10/30/00	Solid	10/30/00	10/31/00	001031AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	3.0	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	2.8	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	2.6	10.0	1	J	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	1.0	2.0	1	J	ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	92-139		Toluene-d8	88	90-104	2
1,4-Bromofluorobenzene	73	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/30/00
Work Order No: 00-10-1211
Preparation: EPA 5035
Method: EPA 8260B

Project: Mobil - JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M8-S31-EW-10	00-10-1211-3	10/30/00	Solid	10/30/00	10/31/00	001031AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	3.7	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.8	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	0.98	10.00	1	J	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	0.60	2.0	1	J	ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	92-139		Toluene-d8	98	90-104	
1,4-Bromofluorobenzene	89	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/30/00
Work Order No: 00-10-1211
Preparation: EPA 5035
Method: EPA 8260B

Project: Mobil - JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M8-S32-NW-10	00-10-1211-4	10/30/00	Solid	10/30/00	10/31/00	001030BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	20	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	1.5	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	9.2	1.0	1		ug/kg
n-Butylbenzene	4.6	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	69	1	1		ug/kg	Methylene Chloride	1.4	10.0	1	J	ug/kg
tert-Butylbenzene	5.5	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	1.2	10.0	1	J	ug/kg	Naphthalene	13	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	13	1	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	1.2	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	3.3	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	6.1	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	1.1	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	127	92-139		Toluene-d8	84	90-104	2
1,4-Bromofluorobenzene	96	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/30/00
Work Order No: 00-10-1211
Preparation: EPA 5035
Method: EPA 8260B

Project: Mobil - JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M3-S33-EW-10	00-10-1211-5	10/30/00	Solid	10/30/00	10/31/00	001030BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	3.3	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	1.4	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	1.7	1.0	1		ug/kg
n-Butylbenzene	1.2	1.0	1		ug/kg	p-Isopropyltoluene	0.52	1.0	1	J	ug/kg
sec-Butylbenzene	2.9	1.0	1		ug/kg	Methylene Chloride	1.1	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	11	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	3.1	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	0.94	1.0	1	J	ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	3.3	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	2.3	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	0.71	1.0	1	J	ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	92-139		Toluene-d8	102	90-104	
1,4-Bromofluorobenzene	98	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/30/00
Work Order No: 00-10-1211
Preparation: EPA 5035
Method: EPA 8260B

Project: Mobil - JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	095-01-025-2,208	N/A	Solid	N/A	10/31/00	001030BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.2	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	1.3	10.0	1	J	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	100	92-139		Toluene-d8	98	90-104	
1,4-Bromofluorobenzene	94	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/30/00
Work Order No: 00-10-1211
Preparation: EPA 5035
Method: EPA 8260B

Project: Mobil - JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	095-01-025-2,209	N/A	Solid	N/A	10/31/00	001031AS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	2.0	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	1.1	10.0	1	J	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	0.80	2.0	1	J	ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	91	92-139	X	Toluene-d8	101	90-104	
1,4-Bromofluorobenzene	96	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/30/00
Work Order No: 00-10-1211
Preparation: Total Digestion
Method: EPA 6010B

Project: Mobil - JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M8-S30-SW-10	00-10-1211-2	10/30/00	Solid	10/30/00	10/30/00	001030lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	2.35	0.75	1		mg/kg	Lead	7.75	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M8-S31-EW-10	00-10-1211-3	10/30/00	Solid	10/30/00	10/30/00	001030lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	3.69	0.75	1		mg/kg	Lead	6.01	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M8-S32-NW-10	00-10-1211-4	10/30/00	Solid	10/30/00	10/30/00	001030lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	2.47	0.75	1		mg/kg	Lead	15.1	0.5	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M3-S33-EW-10	00-10-1211-5	10/30/00	Solid	10/30/00	10/30/00	001030lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	1.91	0.75	1		mg/kg	Lead	2.48	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	097-01-002-1,894	N/A	Solid	10/30/00	10/30/00	001030lcs6

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.750	1		mg/kg	Lead	ND	0.500	1		mg/kg

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M - Carbon Chain

TRC-Alton Geoscience		Work Order No.:	00-10-1211
Page 1 of 1		Date Analyzed:	10/31/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 00-10-1023-3

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
TPH as Diesel	89	87	52 - 149	2	0 - 29

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
TPH as Diesel	400	384	96	79 - 137

Surrogate Recoveries (in %)

Sample Number	S1
JF-M3-S29B-B-19	123
JF-M8-S30-SW-10	91
JF-M8-S31-EW-10	108
JF-M8-S32-NW-10	100
JF-M3-S33-EW-10	104
Method Blank	87

Surrogate Compound	%REC Acceptable Limits
S1 > Decachlorobiphenyl	52 - 135

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Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/30/00
Work Order No: 00-10-1211
Preparation: EPA 5035
Method: EPA 8260B

Project: Mobil - JALK FEE

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
095-01-025-2,208	Solid	GC/MS I	10/30/00	30OCT026	001030BS

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Benzene	250	258	103	89-111	
Carbon Tetrachloride	250	296	118	79-131	
Chlorobenzene	250	240	96	85-113	
1,2-Dichlorobenzene	250	244	98	79-117	
1,1-Dichloroethene	250	237	95	85-125	
Toluene	250	257	103	88-114	
Trichloroethene	250	259	104	87-115	
Vinyl Chloride	250	234	94	77-133	
Methyl-tert-Butyl Ether	250	273	109	83-119	
Tert-Butyl alcohol (TBA)	1250	1390	111	60-140	
Diisopropyl ether (DIPE)	250	244	98	60-140	
Ethyl t-butyl ether (ETBE)	250	265	106	60-140	
Tert-Amyl methyl ether	250	273	109	60-140	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/30/00
Work Order No: 00-10-1211
Preparation: EPA 5035
Method: EPA 8260B

Project: Mobil - JALK FEE

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
095-01-025-2,209	Solid	GC/MS I	10/31/00	31OCT003	001031AS

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Benzene	250	251	100	89-111	
Carbon Tetrachloride	250	282	113	79-131	
Chlorobenzene	250	239	96	85-113	
1,2-Dichlorobenzene	250	254	102	79-117	
1,1-Dichloroethene	250	218	87	85-125	
Toluene	250	256	102	88-114	
Trichloroethene	250	254	102	87-115	
Vinyl Chloride	250	221	88	77-133	
Methyl-tert-Butyl Ether	250	255	102	83-119	
Tert-Butyl alcohol (TBA)	1250	1280	103	60-140	
Diisopropyl ether (DIPE)	250	225	90	60-140	
Ethyl t-butyl ether (ETBE)	250	249	100	60-140	
Tert-Amyl methyl ether	250	266	106	60-140	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/30/00
Work Order No: 00-10-1211
Preparation: Total Digestion
Method: EPA 6010B

Project: Mobil - JALK FEE

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-1,894	Solid	ICP 3300	10/30/00	001030-I	001030lcs6

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Arsenic	50	46.5	93	80-120	
Lead	50	49.4	99	80-120	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-10-1211

Qualifier	Definition
2	Surrogate spike compound was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.
X	% Recovery and/or RPD out-of-range.

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 10/30/00

Page 1 of 1

LABORATORY CLIENT: TRC		CLIENT PROJECT NAME / NUMBER: JALK FEE	P.O. NO.:
ADDRESS: 21 Technology Dr		PROJECT CONTACT: Jeff Hensel	LAB USE ONLY 10-1211
CITY: Irvine	STATE: CA	ZIP: 92618	SAMPLER(S): (SIGNATURE) Glenn Anderson
TEL:	FAX:	E-MAIL:	COOLER RECEIPT TEMP = 3 °C

TURNAROUND TIME
☐ SAME DAY ☑ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or Carbon chain	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EDB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)	Encores on hold.	Pb, Arsenic (6010)			
	JF-M3-S29	B-B-19	10/30/00	1245	Soil	4		X														X				
	JF-M8-S30	SW-10	↓	1300	↓	↓		X				X											X			
	S-31	EW-10		1305				X				X											X			
	S-32	NW-10		1345				X				X											X			
	JF-M3-S33	EW-10		1400				X				X											X			

Relinquished by: (Signature) Glenn Anderson	Received by: (Signature)	Date: 10/30/00	Time: 1420
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 10/30/00	Time: 1530

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

10/01/00 Revision

Q&Q Graphic (714) 898-9702

SAMPLE RECEIPT FORM

Work Order Number:	**00-10-1211**	Date Received:	10/30/00
Delivery Container Type:	Cooler	Date Opened:	10/30/00
Client Project ID:	Mobil JALK FEE	Opened By:	JP

Section A: Pass/Fail Criteria

		Comments
1. Chain of custody document(s) received with samples.	Yes	
2. Sample container label(s) consistent with custody papers.	Yes	
3. Sample container label(s) complete (ID, date, time, taken by).	Yes	
4. Sample container(s) intact and in good condition.	Yes	
5. If applicable, proper preservation noted on sample label(s).	NA	
6. Sufficient sample volume received for analyses requested.	Yes	
7. Correct containers used for analyses requested.	Yes	
8. If applicable, VOA vials free of headspace.	NA	

Section B: Additional Observations

1. Describe packing materials used in container.	NA	
2. Was sample container('s) sealed with custody	No	
3. Were all samples sealed in separate plastic bags?	No	
4. Measured temperature inside delivery container when opened.	3.0	°C
5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.? If YES, attach copy of shipping slip/airbill to the back of this	No	
6. Do tedlar bags show condensation? Describe below if yes.	NA	
7. Are 25.1 condensate traps immersed in dry ice?	NA	
8. Are 25.1 sampling trains intact?	NA	
9. Are 25.3 condensate vials still attached to the sampling train?	NA	
10. Are 25.3 condensate vials on wet ice?	NA	

Section C: Additional Comments

Calscience Environmental Laboratories, Inc.

November 01, 2000

Jeff Hensel
TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Subject: **Calscience Work Order Number: 00-10-1272**
Client Reference: JALK FEE

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/31/00, and analyzed as requested on the attached chain-of-custody record.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

Note that the Sample Receipt Form and Chain-of-Custody Record are integral parts of this report.

If you have any questions regarding this report, require sampling supplies or field services, or information about our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Michael J. Crisostomo
Project Manager

William H. Christensen
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/31/00
21 Technology Drive	Date Received:	10/31/00
Irvine, CA 92618	Date Extracted:	10/31/00
	Date Analyzed:	11/01/00
	Work Order No.:	00-10-1272
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee		

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M3-S34-WW-14		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/31/00
21 Technology Drive	Date Received:	10/31/00
Irvine, CA 92618	Date Extracted:	10/31/00
	Date Analyzed:	11/01/00
	Work Order No.:	00-10-1272
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee		

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M3-S35-NW-13		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/31/00
21 Technology Drive	Date Received:	10/31/00
Irvine, CA 92618	Date Extracted:	10/31/00
	Date Analyzed:	11/01/00
	Work Order No.:	00-10-1272
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee		

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M3-S36-SW-13		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	10/31/00
21 Technology Drive	Date Received:	10/31/00
Irvine, CA 92618	Date Extracted:	10/31/00
	Date Analyzed:	10/31/00
	Work Order No.:	00-10-1272
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 4 of 4	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/31/00
Work Order No: 00-10-1272
Preparation: EPA 5035
Method: EPA 8260B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M3-S34-WW-14	00-10-1272-1	10/31/00	Solid	10/31/00	11/01/00	001031BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	5.8	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	0.56	1.0	1	J	ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	1.1	1.0	1		ug/kg	Methylene Chloride	0.99	10.00	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	3.3	10.0	1	J	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	0.96	1.0	1	J	ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	92-139		Toluene-d8	103	90-104	
1,4-Bromofluorobenzene	100	62-110					

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/31/00
Work Order No: 00-10-1272
Preparation: EPA 5035
Method: EPA 8260B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M3-S35-NW-13	00-10-1272-2	10/31/00	Solid	10/31/00	11/01/00	001031BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	12	20	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.0	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	2.5	10.0	1	J	ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	270	1	1	E	ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	125	92-139		Toluene-d8	101	90-104	
1,4-Bromofluorobenzene	96	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/31/00
Work Order No: 00-10-1272
Preparation: EPA 5035
Method: EPA 8260B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M3-S36-SW-13	00-10-1272-3	10/31/00	Solid	10/31/00	11/01/00	001031BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	3.6	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	0.87	10.00	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	92-139		Toluene-d8	100	90-104	
1,4-Bromofluorobenzene	96	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/31/00
Work Order No: 00-10-1272
Preparation: EPA 5035
Method: EPA 8260B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	095-01-025-2,210	N/A	Solid	N/A	11/01/00	001031BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	3.5	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	0.70	10.00	1	J	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	92-139		Toluene-d8	97	90-104	
1,4-Bromofluorobenzene	96	62-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 10/31/00
Work Order No: 00-10-1272
Preparation: Total Digestion
Method: EPA 6010B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M3-S34-WW-14	00-10-1272-1	10/31/00	Solid	10/31/00	10/31/00	001031LCS9

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	2.15	0.75	1		mg/kg	Lead	2.67	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M3-S35-NW-13	00-10-1272-2	10/31/00	Solid	10/31/00	10/31/00	001031LCS9

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.93	0.75	1		mg/kg	Lead	4.85	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M3-S36-SW-13	00-10-1272-3	10/31/00	Solid	10/31/00	10/31/00	001031LCS9

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	2.96	0.75	1		mg/kg	Lead	3.20	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	097-01-002-1,898	N/A	Solid	10/31/00	10/31/00	001031LCS9

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.750	1		mg/kg	Lead	0.222	0.500	1	J	mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M - Carbon Chain

TRC-Alton Geoscience		Work Order No.:	00-10-1272
Page 1 of 1		Date Analyzed:	10/31-11/01/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 00-10-0584-2

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
TPH as Diesel	96	94	52 - 149	3	0 - 29

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
TPH as Diesel	400	356	89	79 - 137

Surrogate Recoveries (in %)

Sample Number	S1
JF-M3-S34-WW-14	107
JF-M3-S35-NW-13	101
JF-M3-S36-SW-13	100
Method Blank	80

Surrogate Compound	%REC Acceptable Limits
S1 > Decachlorobiphenyl	52 - 135

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: JALK FEE

Date Received: 10/31/00
Work Order No: 00-10-1272
Preparation: EPA 5035
Method: EPA 8260B

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-2,210	Solid	GC/MS I	N/A	10/31/00	001031BS

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	105	89-111	1	0-15	
Carbon Tetrachloride	126	124	79-131	1	0-16	
Chlorobenzene	104	102	85-113	2	0-21	
1,2-Dichlorobenzene	102	103	79-117	1	0-20	
1,1-Dichloroethene	109	107	85-125	2	0-14	
Toluene	105	105	88-114	0	0-16	
Trichloroethene	107	106	87-115	1	0-18	
Vinyl Chloride	112	112	77-133	0	0-21	
Methyl-tert-Butyl Ether	103	102	83-119	1	0-17	
Tert-Butyl alcohol (TBA)	104	105	60-140	0	0-25	
Diisopropyl ether (DIPE)	106	106	60-140	0	0-25	
Ethyl t-butyl ether (ETBE)	106	105	60-140	1	0-25	
Tert-Amyl methyl ether	103	104	60-140	1	0-25	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: JALK FEE

Date Received: 10/31/00
Work Order No: 00-10-1272
Preparation: Total Digestion
Method: EPA 6010B

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
00-10-1224-1	Solid	ICP 3300	10/31/00	11/01/00	103100ms9

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	91	88	75-125	3	0-20	
Lead	86	85	75-125	2	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: JALK FEE

Date Received: 10/31/00
Work Order No: 00-10-1272
Preparation: Total Digestion
Method: EPA 6010B

LCS Sample Number	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-1,898	Solid	ICP 3300	10/31/00	001031 I	001031LCS9

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Arsenic	50	48.0	96	80-120	
Lead	50	50.0	100	80-120	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-10-1272

Qualifier	Definition
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 10/31/00

Page 1 of 1

LABORATORY CLIENT: TRC		CLIENT PROJECT NAME / NUMBER: JALK FEE	P.O. NO.:
ADDRESS: 21 Technology Dr		PROJECT CONTACT: Jeff Hensel	LAB USE ONLY 10-1272
CITY: Irvine	STATE: CA ZIP: 92618	SAMPLER(S): (SIGNATURE) Glenn Andrusky	COOLER RECEIPT TEMP = 4 °C
TEL: 949-727-9336	FAX:	E-MAIL:	

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or Carbon Chain	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EOB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)	Pb, Arsenic (6010)				
	JF-M3-S34-	NW-14	10/31/00	0940	Soil	4		X				X										X				
	S35-	NW-13	↓	1300	↓	↓		X				X										X				
	S36	SW-13	↓	1315	↓	↓		X				X										X				

Relinquished by: (Signature) Glenn Andrusky	Received by: (Signature)	Date: 10/31/00	Time: 1420
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 10/31/00	Time: 1525

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

10/01/00 Revision

Q&Q Graphic (714) 898-9702

SAMPLE RECEIPT FORM

Work Order Number:	**00-10-1272**	Date Received:	10/31/00
Delivery Container Type:	Cooler	Date Opened:	10/31/00
Client Project ID:	JALK FEE	Opened By:	JP

Section A: Pass/Fail Criteria

		Comments
1. Chain of custody document(s) received with samples.	Yes	
2. Sample container label(s) consistent with custody papers.	Yes	
3. Sample container label(s) complete (ID, date, time, taken by).	Yes	
4. Sample container(s) intact and in good condition.	Yes	
5. If applicable, proper preservation noted on sample label(s).	Yes	
6. Sufficient sample volume received for analyses requested.	Yes	
7. Correct containers used for analyses requested.	Yes	
8. If applicable, VOA vials free of headspace.	NA	

Section B: Additional Observations

1. Describe packing materials used in container.	Bubble Wrap	
2. Was sample container('s) sealed with custody	No	
3. Were all samples sealed in separate plastic bags?	No	
4. Measured temperature inside delivery container when opened.	4.0	°C
5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.? If YES, attach copy of shipping slip/airbill to the back of this	No	
6. Do tedlar bags show condensation? Describe below if yes.	NA	
7. Are 25.1 condensate traps immersed in dry ice?	NA	
8. Are 25.1 sampling trains intact?	NA	
9. Are 25.3 condensate vials still attached to the sampling train?	NA	
10. Are 25.3 condensate vials on wet ice?	NA	

Section C: Additional Comments

Calscience Environmental Laboratories, Inc.

November 02, 2000

Jeff Hensel
TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Subject: **Calscience Work Order Number: 00-11-0032**
Client Reference: Mobil - JALK FEE

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/01/00, and analyzed as requested on the attached chain-of-custody record.

The results in this analytical report are limited to the sample tested, and any reproduction of this report must be made in its entirety.

Note that the Sample Receipt Form and Chain of Custody Record are integral parts of this report.

If you have any questions regarding this report, require sampling supplies or field services, or information about our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Michael J. Crisostomo
Project Manager

William H. Christensen
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	11/01/00
21 Technology Drive	Date Received:	11/01/00
Irvine, CA 92618	Date Extracted:	11/01/00
	Date Analyzed:	11/02/00
	Work Order No.:	00-11-0032
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Mobil - JALK FEE	Page 1 of 2	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M9-S19B-B-16		
C7	ND	
C8	27	
C9-C10	1420	
C11-C12	2350	
C13-C14	3900	
C15-C16	1590	
C17-C18	2280	
C19-C20	2500	
C21-C22	679	
C23-C24	1520	
C25-C28	2330	
C29-C32	2130	
C33-C36	1280	
C37-C40	1220	
C7-C40 Total	23200	250

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	NA
21 Technology Drive	Date Received:	NA
Irvine, CA 92618	Date Extracted:	11/01/00
	Date Analyzed:	11/01/00
	Work Order No.:	00-11-0032
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Mobil - JALK FEE	Page 2 of 2	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 11/01/00
Work Order No: 00-11-0032
Preparation: EPA 5035
Method: EPA 8260B

Project: Mobil - JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S7B-B-12	00-11-0032-2	11/01/00	Solid	11/01/00	11/02/00	001101BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	5.0	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.1	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	1.2	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	6.4	1.0	1		ug/kg
Chloroform	1.5	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	9800	200	200	D	ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	6.5	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	6.5	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	65-157		Toluene-d8	100	51-144	
1,4-Bromofluorobenzene	96	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 11/01/00
Work Order No: 00-11-0032
Preparation: EPA 5035
Method: EPA 8260B

Project: Mobil - JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S9B-NW-6	00-11-0032-3	11/01/00	Solid	11/01/00	11/02/00	001101BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	3.4	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.3	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	2.4	10.0	1	J	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	140	1	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	65-157		Toluene-d8	100	51-144	
1,4-Bromofluorobenzene	96	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 11/01/00
Work Order No: 00-11-0032
Preparation: EPA 5035
Method: EPA 8260B

Project: Mobil - JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	095-01-025-2,212	N/A	Solid	N/A	11/02/00	001101BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	ND	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.2	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	0.54	10.00	1	J	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	100	65-157		Toluene-d8	98	51-144	
1,4-Bromofluorobenzene	96	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M - Carbon Chain

TRC-Alton Geoscience		Work Order No.:	00-11-0032
Page 1 of 1		Date Analyzed:	11/01-02/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 00-10-1217-37

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
TPH as Diesel	103	100	52 - 149	3	0 - 29

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
TPH as Diesel	400	376	94	79 - 137

Surrogate Recoveries (in %)

Sample Number	S1
JF-M9-S19B-B-16	123
Method Blank	85

Surrogate Compound	%REC Acceptable Limits
S1 > Decachlorobiphenyl	52 - 135

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: Mobil - JALK FEE

Date Received: 11/01/00
Work Order No: 00-11-0032
Preparation: EPA 5035
Method: EPA 8260B

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-2,212	Solid	GC/MS I	N/A	11/02/00	001101BS

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	105	89-111	0	0-15	
Carbon Tetrachloride	126	124	79-131	1	0-16	
Chlorobenzene	102	106	85-113	4	0-21	
1,2-Dichlorobenzene	99	101	79-117	1	0-20	
1,1-Dichloroethene	108	113	85-125	4	0-14	
Toluene	104	106	88-114	2	0-16	
Trichloroethene	106	107	87-115	1	0-18	
Vinyl Chloride	118	116	77-133	1	0-21	
Methyl-tert-Butyl Ether	105	107	83-119	2	0-17	
Tert-Butyl alcohol (TBA)	117	123	60-140	5	0-25	
Diisopropyl ether (DIPE)	110	111	60-140	1	0-25	
Ethyl t-butyl ether (ETBE)	105	107	60-140	2	0-25	
Tert-Amyl methyl ether	103	106	60-140	3	0-25	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-11-0032

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 11·1·00

Page 1 of 1

LABORATORY CLIENT: TRC		CLIENT PROJECT NAME / NUMBER: JALK FEE	P.O. NO.:
ADDRESS: 21 Technology Dr		PROJECT CONTACT: Jeff Hensel	LAB USE ONLY 11-0032
CITY: Irvine	STATE: CA ZIP: 92618	SAMPLER(S): (SIGNATURE) Glenn Andrachuk	COOLER RECEIPT TEMP = 4 °C
TEL: 949-727-9336	FAX:	E-MAIL:	

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or 8015 Carbon Chain	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EOB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)					
	JF-MW-S19	B-B-16	11·1·00	1245	Soil	1		X																		
	JF-SB49-S7	B-B-12	↓	1440	↓	3						X														
	S9	B-NW-6	↓	1440	↓	3						X														

Relinquished by: (Signature) Glenn Andrachuk	Received by: (Signature)	Date: 11·1·00	Time: 1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 11/1/00	Time: 17:15

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

10/01/00 Revision

Q&Q Graphic (714) 898-9702

SAMPLE RECEIPT FORM

Work Order Number:	**00-11-0032**	Date Received:	11/01/00
Delivery Container Type:	Cooler	Date Opened:	11/01/00
Client Project ID:	JALK FEE	Opened By:	JP

Section A: Pass/Fail Criteria

		Comments
1. Chain of custody document(s) received with samples.	Yes	
2. Sample container label(s) consistent with custody papers.	Yes	
3. Sample container label(s) complete (ID, date, time, taken by).	Yes	
4. Sample container(s) intact and in good condition.	Yes	
5. If applicable, proper preservation noted on sample label(s).	Yes	
6. Sufficient sample volume received for analyses requested.	Yes	
7. Correct containers used for analyses requested.	Yes	
8. If applicable, VOA vials free of headspace.	NA	

Section B: Additional Observations

1. Describe packing materials used in container.	NA	
2. Was sample container('s) sealed with custody	No	
3. Were all samples sealed in separate plastic bags?	No	
4. Measured temperature inside delivery container when opened.	4.0	°C
5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.? If YES, attach copy of shipping slip/airbill to the back of this	No	
6. Do tedlar bags show condensation? Describe below if yes.	NA	
7. Are 25.1 condensate traps immersed in dry ice?	NA	
8. Are 25.1 sampling trains intact?	NA	
9. Are 25.3 condensate vials still attached to the sampling train?	NA	
10. Are 25.3 condensate vials on wet ice?	NA	

Section C: Additional Comments

Calscience
Environmental
Laboratories, Inc.

November 03, 2000

Jeff Hensel
TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Subject: **Calscience Work Order Number: 00-11-0093**
Client Reference: JALK FEE

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/02/00, and analyzed as requested on the attached chain-of-custody record.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

Note that the Sample Receipt Form and Chain-of-Custody Record are integral parts of this report.

If you have any questions regarding this report, require sampling supplies or field services, or information about our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Michael J. Crisostomo
Project Manager

William H. Christensen
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	11/02/00
21 Technology Drive	Date Received:	11/02/00
Irvine, CA 92618	Date Extracted:	11/02/00
	Date Analyzed:	11/02/00
	Work Order No.:	00-11-0093
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: JALK FEE	Page 1 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M1-S37-EW-8		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	11/02/00
21 Technology Drive	Date Received:	11/02/00
Irvine, CA 92618	Date Extracted:	11/02/00
	Date Analyzed:	11/03/00
	Work Order No.:	00-11-0093
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: JALK FEE	Page 1 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M1-S38-B-14		
C7	ND	
C8	32	
C9-C10	97	
C11-C12	205	
C13-C14	317	
C15-C16	356	
C17-C18	284	
C19-C20	734	
C21-C22	329	
C23-C24	433	
C25-C28	861	
C29-C32	809	
C33-C36	590	
C37-C40	507	
C7-C40 Total	5550	25

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	11/02/00
21 Technology Drive	Date Received:	11/02/00
Irvine, CA 92618	Date Extracted:	11/02/00
	Date Analyzed:	11/03/00
	Work Order No.:	00-11-0093
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: JALK FEE	Page 3 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M1-S39-SW-8		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	11/02/00
21 Technology Drive	Date Received:	11/02/00
Irvine, CA 92618	Date Extracted:	11/02/00
	Date Analyzed:	11/03/00
	Work Order No.:	00-11-0093
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: JALK FEE	Page 4 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M1-S40-WW-8		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	NA
21 Technology Drive	Date Received:	NA
Irvine, CA 92618	Date Extracted:	11/02/00
	Date Analyzed:	11/02/00
	Work Order No.:	00-11-0093
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: JALK FEE	Page 5 of 6	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 11/02/00
Work Order No: 00-11-0093
Preparation: EPA 5035
Method: EPA 8260B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S10B-B-8	00-11-0093-1	11/02/00	Solid	11/02/00	11/03/00	001102BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	6.4	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	1.3	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.1	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	2500	400	400	D	ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	1.1	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	0.89	1.0	1	J	ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	13	1	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	65-157		Toluene-d8	102	51-144	
1,4-Bromofluorobenzene	96	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 11/02/00
Work Order No: 00-11-0093
Preparation: EPA 5035
Method: EPA 8260B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-SB49-S12B-NW-6	00-11-0093-2	11/02/00	Solid	11/02/00	11/03/00	001102BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	5.8	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	0.61	1.0	1	J	ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.2	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	1700	100	100	D	ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	0.81	1.0	1	J	ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	0.61	2.0	1	J	ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	65-157		Toluene-d8	99	51-144	
1,4-Bromofluorobenzene	91	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 11/02/00
Work Order No: 00-11-0093
Preparation: EPA 5035
Method: EPA 8260B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M1-S37-EW-8	00-11-0093-3	11/02/00	Solid	11/02/00	11/03/00	001102BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	4.9	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	0.82	10.00	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	65-157		Toluene-d8	100	51-144	
1,4-Bromofluorobenzene	93	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 11/02/00
Work Order No: 00-11-0093
Preparation: EPA 5035
Method: EPA 8260B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M1-S36-B-14	00-11-0093-4	11/02/00	Solid	11/02/00	11/03/00	001102BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	48	20	1		ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	26	1	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	360	100	100	D	ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	14	20	1	J	ug/kg	Isopropylbenzene	91	1	1		ug/kg
n-Butylbenzene	31	1	1		ug/kg	p-Isopropyltoluene	30	1	1		ug/kg
sec-Butylbenzene	60	1	1		ug/kg	Methylene Chloride	2.5	10.0	1	J	ug/kg
tert-Butylbenzene	5.2	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	1.1	10.0	1	J	ug/kg	Naphthalene	1700	1000	100	D	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	120	1	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	59	1	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	3.2	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	3300	200	100	D	ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	140	2	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	220	2	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	3.0	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	135	65-157		Toluene-d8	113	51-144	
1,4-Bromofluorobenzene	110	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 11/02/00
Work Order No: 00-11-0093
Preparation: EPA 5035
Method: EPA 8260B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M1-S39-SW-8	00-11-0093-5	11/02/00	Solid	11/02/00	11/03/00	001102BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	6.4	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.2	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	0.99	1.0	1	J	ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	65-157		Toluene-d8	101	51-144	
1,4-Bromofluorobenzene	98	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 11/02/00
Work Order No: 00-11-0093
Preparation: EPA 5035
Method: EPA 8260B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M1-S40-WW-6	00-11-0093-6	11/02/00	Solid	11/02/00	11/03/00	001102BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	7.8	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.3	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	ND	10	1		ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	0.65	1.0	1	J	ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	65-157		Toluene-d8	99	51-144	
1,4-Bromofluorobenzene	93	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 11/02/00
Work Order No: 00-11-0093
Preparation: EPA 5035
Method: EPA 8260B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	095-01-025-2,214	N/A	Solid	N/A	11/03/00	001102BS

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Acetone	2.8	20.0	1	J	ug/kg	1,3-Dichloropropane	ND	1.0	1		ug/kg
Benzene	ND	1.0	1		ug/kg	2,2-Dichloropropane	ND	5.0	1		ug/kg
Bromobenzene	ND	1.0	1		ug/kg	1,1-Dichloropropene	ND	1.0	1		ug/kg
Bromochloromethane	ND	1.0	1		ug/kg	c-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromodichloromethane	ND	1.0	1		ug/kg	t-1,3-Dichloropropene	ND	1.0	1		ug/kg
Bromoform	ND	5.0	1		ug/kg	Ethylbenzene	ND	1.0	1		ug/kg
Bromomethane	ND	5.0	1		ug/kg	2-Hexanone	ND	20	1		ug/kg
2-Butanone	ND	20	1		ug/kg	Isopropylbenzene	ND	1.0	1		ug/kg
n-Butylbenzene	ND	1.0	1		ug/kg	p-Isopropyltoluene	ND	1.0	1		ug/kg
sec-Butylbenzene	ND	1.0	1		ug/kg	Methylene Chloride	1.4	10.0	1	J	ug/kg
tert-Butylbenzene	ND	1.0	1		ug/kg	4-Methyl-2-Pentanone	ND	20	1		ug/kg
Carbon Disulfide	ND	10	1		ug/kg	Naphthalene	0.60	10.00	1	J	ug/kg
Carbon Tetrachloride	ND	1.0	1		ug/kg	n-Propylbenzene	ND	1.0	1		ug/kg
Chlorobenzene	ND	1.0	1		ug/kg	Styrene	ND	1.0	1		ug/kg
Chloroethane	ND	1.0	1		ug/kg	1,1,1,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloroform	ND	1.0	1		ug/kg	1,1,2,2-Tetrachloroethane	ND	1.0	1		ug/kg
Chloromethane	ND	1.0	1		ug/kg	Tetrachloroethene	ND	1.0	1		ug/kg
2-Chlorotoluene	ND	1.0	1		ug/kg	Toluene	ND	1.0	1		ug/kg
4-Chlorotoluene	ND	1.0	1		ug/kg	1,2,3-Trichlorobenzene	ND	2.0	1		ug/kg
Dibromochloromethane	ND	1.0	1		ug/kg	1,2,4-Trichlorobenzene	ND	2.0	1		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5.0	1		ug/kg	1,1,1-Trichloroethane	ND	1.0	1		ug/kg
1,2-Dibromoethane	ND	1.0	1		ug/kg	1,1,2-Trichloroethane	ND	1.0	1		ug/kg
Dibromomethane	ND	1.0	1		ug/kg	Trichloroethene	ND	1.0	1		ug/kg
1,2-Dichlorobenzene	ND	1.0	1		ug/kg	Trichlorofluoromethane	ND	10	1		ug/kg
1,3-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,3-Trichloropropane	ND	1.0	1		ug/kg
1,4-Dichlorobenzene	ND	1.0	1		ug/kg	1,2,4-Trimethylbenzene	ND	2.0	1		ug/kg
Dichlorodifluoromethane	ND	2.0	1		ug/kg	1,3,5-Trimethylbenzene	ND	2.0	1		ug/kg
1,1-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Acetate	ND	10	1		ug/kg
1,2-Dichloroethane	ND	1.0	1		ug/kg	Vinyl Chloride	ND	1.0	1		ug/kg
1,1-Dichloroethene	ND	1.0	1		ug/kg	p/m-Xylene	ND	2.0	1		ug/kg
c-1,2-Dichloroethene	ND	1.0	1		ug/kg	o-Xylene	ND	1.0	1		ug/kg
t-1,2-Dichloroethene	ND	1.0	1		ug/kg	Methyl-tert-Butyl Ether	ND	1.0	1		ug/kg
1,2-Dichloropropane	ND	1.0	1		ug/kg						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	65-157		Toluene-d8	98	51-144	
1,4-Bromofluorobenzene	94	49-141					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Date Received: 11/02/00
Work Order No: 00-11-0093
Preparation: Total Digestion
Method: EPA 6010B

Project: JALK FEE

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M1-S37-EW-8	00-11-0093-3	11/02/00	Solid	11/02/00	11/02/00	001102lcs8

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.31	0.75	1		mg/kg	Lead	6.10	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M1-S38-B-14	00-11-0093-4	11/02/00	Solid	11/02/00	11/02/00	001102lcs8

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	2.74	0.75	1		mg/kg	Lead	3.47	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M1-S39-SW-8	00-11-0093-5	11/02/00	Solid	11/02/00	11/02/00	001102lcs8

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	3.57	0.75	1		mg/kg	Lead	5.34	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
JF-M1-S40-WW-8	00-11-0093-6	11/02/00	Solid	11/02/00	11/02/00	001102lcs8

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	4.29	0.75	1		mg/kg	Lead	5.80	0.50	1		mg/kg

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	097-01-002-1,915	N/A	Solid	11/02/00	11/03/00	001102lcs8

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Arsenic	ND	0.750	1		mg/kg	Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M - Carbon Chain

TRC-Alton Geoscience		Work Order No.:	00-11-0093
Page 1 of 1		Date Analyzed:	11/02-03/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 00-10-1287-32

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
TPH as Diesel	92	94	52 - 149	3	0 - 29

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
TPH as Diesel	400	377	94	79 - 137

Surrogate Recoveries (in %)

Sample Number	S1
JF-M1-S37-EW-8	106
JF-M1-S38-B-14	88
JF-M1-S39-SW-8	100
JF-M1-S40-WW-8	105
Method Blank	89

Surrogate Compound	%REC Acceptable Limits
S1 > Decachlorobiphenyl	52 - 135

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: JALK FEE

Date Received: 11/02/00
Work Order No: 00-11-0093
Preparation: EPA 5035
Method: EPA 8260B

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-2,214	Solid	GC/MS I	N/A	11/03/00	001102BS

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	108	89-111	2	0-15	
Carbon Tetrachloride	127	129	79-131	2	0-16	
Chlorobenzene	104	103	85-113	1	0-21	
1,2-Dichlorobenzene	100	99	79-117	1	0-20	
1,1-Dichloroethene	108	117	85-125	9	0-14	
Toluene	105	107	88-114	1	0-16	
Trichloroethene	104	108	87-115	4	0-18	
Vinyl Chloride	118	122	77-133	3	0-21	
Methyl-tert-Butyl Ether	104	105	83-119	1	0-17	
Tert-Butyl alcohol (TBA)	107	102	60-140	4	0-25	
Diisopropyl ether (DIPE)	110	114	60-140	3	0-25	
Ethyl t-butyl ether (ETBE)	104	107	60-140	2	0-25	
Tert-Amyl methyl ether	101	101	60-140	0	0-25	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

TRC-Alton Geoscience
21Technology Drive
Irvine, CA 92618

Date Received: 11/02/00
Work Order No.: 00-11-0093
Preparation: Total Digestion
Method: EPA 6010B

Project: JALK FEE

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
00-10-0836-6	Solid	ICP 3300	11/2/00	11/3/00	110200ms8

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifier
Arsenic	72	75	75-125	5	0-20	3
Lead	75	78	75-125	2	0-20	

3. The MS/MSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD and sample PDS/PDSD were in control and, hence, the associated sample data was reported with no further corrective action required.

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Project: JALK FEE

Date Received: 11/02/00
Work Order No: 00-11-0093
Preparation: Total Digestion
Method: EPA 6010B

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-1,915	Solid	ICP 3300	11/02/00	11/03/00	001102lcs8

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	92	100	80-120	9	0-20	
Lead	98	103	80-120	6	0-20	

Calscience Environmental Laboratories, Inc.

Quality Control - Post Digestion Spike (PDS)/PDS Duplicate

TRC-Alton Geoscience
21Technology Drive
Irvine, CA 92618

Date Received: 11/02/00
Work Order No.: 00-11-0093
Preparation: Total Digestion
Method: EPA 6010B

Project: JALK FEE

Spiked Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
JF-M1-S37-EW-8	Solid	ICP 3300	11/2/00	11/6/00	110100ps8

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifier
Arsenic	124	124	75-125	0	0-20	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-11-0093

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
J	Analyte was detected at a concentration below the reporting limit. Reported value is estimated.
ND	Not detected at indicated reporting limit.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 11-2-00

Page 1 of 1

LABORATORY CLIENT: TRC	CLIENT PROJECT NAME / NUMBER: JALK FEE	P.O. NO.:	
ADDRESS: 21 Technology Dr	PROJECT CONTACT: Jeff Hensel	LAB USE ONLY 10-0093	
CITY: Irvine STATE: CA ZIP: 92618	SAMPLER(S): (SIGNATURE) Glenn Andrusko	COOLER RECEIPT TEMP = 4 °C	
TEL: 949-727-9336 FAX: E-MAIL:			

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or 8015 Carbon Chain	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EOB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)	Pb, Arsenic (6010)				
	JF-SB49-S10B-B-8		11-2-00	0810	Soil	3						X														
	" S12B-NW-6			0815		3						X														
	JF-MI-S37-EW-8			1100		4		X				X										X				
	S38-B-14			1300		4		X				X										X				
	S39-SW-8			1305		4		X				X										X				
	S40-WW-8			1310		4		X				X										X				

Relinquished by: (Signature) Glenn Andrusko	Received by: (Signature)	Date: 11-2-00	Time: 1410
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 11/2/00	Time: 1510

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

10/01/00 Revision

Q&Q Graphic (714) 898-9702

SAMPLE RECEIPT FORM

Work Order Number:	**00-11-0093**	Date Received:	11/02/00
Delivery Container Type:	Cooler	Date Opened:	11/02/00
Client Project ID:	JALK FEE	Opened By:	JP

Section A: Pass/Fail Criteria

		Comments
1. Chain of custody document(s) received with samples.	Yes	
2. Sample container label(s) consistent with custody papers.	Yes	
3. Sample container label(s) complete (ID, date, time, taken by).	Yes	
4. Sample container(s) intact and in good condition.	Yes	
5. If applicable, proper preservation noted on sample label(s).	Yes	
6. Sufficient sample volume received for analyses requested.	Yes	
7. Correct containers used for analyses requested.	Yes	
8. If applicable, VOA vials free of headspace.	NA	

Section B: Additional Observations

1. Describe packing materials used in container.	NA	
2. Was sample container('s) sealed with custody	No	
3. Were all samples sealed in separate plastic bags?	No	
4. Measured temperature inside delivery container when opened.	4.0	°C
5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.? If YES, attach copy of shipping slip/airbill to the back of this	No	
6. Do tedlar bags show condensation? Describe below if yes.	NA	
7. Are 25.1 condensate traps immersed in dry ice?	NA	
8. Are 25.1 sampling trains intact?	NA	
9. Are 25.3 condensate vials still attached to the sampling train?	NA	
10. Are 25.3 condensate vials on wet ice?	NA	

Section C: Additional Comments

Calscience
Environmental
Laboratories, Inc.

November 08, 2000

Jeff Hensel
TRC-Alton Geoscience
21 Technology Drive
Irvine, CA 92618

Subject: **Calscience Work Order Number: 00-11-0232**
Client Reference: Jalk Fee

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/06/00, and analyzed as requested on the attached chain-of-custody record.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

Note that the Sample Receipt Form and Chain-of-Custody Record are integral parts of this report.

If you have any questions regarding this report, require sampling supplies or field services, or information about our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Michael J. Crisostomo
Project Manager

William H. Christensen
Quality Assurance Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	11/06/00
21 Technology Drive	Date Received:	11/06/00
Irvine, CA 92618	Date Extracted:	11/08/00
	Date Analyzed:	11/08/00
	Work Order No.:	00-11-0232
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 1 of 2	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: JF-M9-S19C-B-24		
C7	ND	
C8	112	
C9-C10	242	
C11-C12	304	
C13-C14	323	
C15-C16	285	
C17-C18	254	
C19-C20	202	
C21-C22	155	
C23-C24	127	
C25-C28	216	
C29-C32	164	
C33-C36	86	
C37-C40	104	
C7-C40 Total	2570	25

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

TRC-Alton Geoscience	Date Sampled:	N/A
21 Technology Drive	Date Received:	N/A
Irvine, CA 92618	Date Extracted:	11/07/00
	Date Analyzed:	11/07/00
	Work Order No.:	00-11-0232
Attn: Jeff Hensel	Method: EPA 8015M with Carbon Chain	
RE: Jalk Fee	Page 2 of 2	

All hydrocarbon concentrations are quantified using a diesel fuel standard, and are reported in mg/kg (ppm). Reporting limits for the individual carbon ranges are not defined.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
C7	ND	
C8	ND	
C9-C10	ND	
C11-C12	ND	
C13-C14	ND	
C15-C16	ND	
C17-C18	ND	
C19-C20	ND	
C21-C22	ND	
C23-C24	ND	
C25-C28	ND	
C29-C32	ND	
C33-C36	ND	
C37-C40	ND	
C7-C40 Total	ND	5

Normal paraffins are used to identify the reported carbon chain ranges. However, there can be a discrepancy for branched, unsaturated, or multiple ring hydrocarbons wherein they may be detected outside of the normal paraffin defined carbon chain range.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M - Carbon Chain

TRC-Alton Geoscience		Work Order No.:	00-11-0232
Page 1 of 1		Date Analyzed:	11/07-08/00

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 00-11-0268-1

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
TPH as Diesel	102	100	52 - 149	1	0 - 29

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
TPH as Diesel	400	383	96	79 - 137

Surrogate Recoveries (in %)

Sample Number	S1
JF-M9-S19C-B-24	89
Methd Blank	96

Surrogate Compound	%REC Acceptable Limits
S1 > Decachlorobiphenyl	45 - 141

SEQUOIA ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

Date _____
Page 1

LABORATORY CLIENT: TRC
ADDRESS: 21 Technology Dr.
CITY: Irvine STATE: CA ZIP: 92618
TEL: 949-727-9336 FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: JALK FEE
PROJECT CONTACT: Jeff Hensel
SAMPLER(S): (SIGNATURE) Glenn Andrusker
P.O. NO.:
LAB USE ONLY: 11-0234
COOLER RECEIPT TEMP = °C

TURNAROUND TIME
☐ SAME DAY ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS
Returned 50 Encore samplers.

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or 8015 carbon chain	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	VOCs (5035 / 8260B) EnCore	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EOB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)
	JF-MW-S19C-B-24		11.6.00	1100	Soil	1		X													

ROI 4.0°C

Relinquished by: (Signature) Glenn Andrusker	Received by: (Signature)	Date: 11.6.00	Time: 1540
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 11.6.00	Time: 1635

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10/01/00 Revision

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SAMPLE RECEIPT FORM

rk Order Number:	**00-11-0232**	Date Received:	11/06/00
livery Container Type:	Cooler	Date Opened:	11/06/00
lient Project ID:	Jalk Fee	Opened By:	NC

Section A: Pass/Fail Criteria

		Comments
1. Chain of custody document(s) received with samples.	Yes	
2. Sample container label(s) consistent with custody papers.	Yes	
3. Sample container label(s) complete (ID, date, time, taken by).	Yes	
4. Sample container(s) intact and in good condition.	Yes	
5. If applicable, proper preservation noted on sample label(s).	NA	
6. Sufficient sample volume received for analyses requested.	Yes	
7. Correct containers used for analyses requested.	Yes	
8. If applicable, VOA vials free of headspace.	NA	

Section B: Additional Observations

1. Describe packing materials used in container.	NA	
2. Was sample container('s) sealed with custody	Yes	
3. Were all samples sealed in separate plastic bags?	No	
4. Measured temperature inside delivery container when opened.	4.0	°C
5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.? If YES, attach copy of shipping slip/airbill to the back of this	Yes	
6. Do tedlar bags show condensation? Describe below if yes.	NA	
7. Are 25.1 condensate traps immersed in dry ice?	NA	
8. Are 25.1 sampling trains intact?	NA	
9. Are 25.3 condensate vials still attached to the sampling train?	NA	
10. Are 25.3 condensate vials on wet ice?	NA	

Section C: Additional Comments

APPENDIX C

TRUCKING LOGS AND NONHAZARDOUS WASTE MANIFESTS

JALK FEE TRUCKING RECORD

00-265

TRC FIELD REP: CRAIG MITCHELL

PAGE 1 OF 2

DATE	TIME IN	IMPORT	TRUCK NUMBER	TRAILER NUMBER	SOIL SOURCE	MANIFEST NUMBER	TIME OUT
11-10-00	0700	Y (N)	J&J #1	1UP4156	SP-49/M4/M3	00003	0807
11-10-00	0700	Y (N)	JT #6	1WR1834	SP-49/M4/M3	00002	0806
11-10-00	0700	Y (N)	J&J #3	1WB2189	M3/SP49	00004	0809
11-10-00	0700	Y (N)	JFR988	1WB2157	SP49/M3	00005	0811
11-10-00	0800	Y (N)	JT #LA003	1UN4505	SP-49/M3	00006	0825
11-10-00	0920	Y (N)	JT #6	1WR1834	SP-49/M3	00007	0932
11-10-00	0920	Y (N)	JFR #988	1WB2189	SP-49/M3	00008	0938
11-10-00	0934	Y (N)	J&J #3	1WB2189	SP-49/M3	00009	0949
11-10-00	0941	Y (N)	J&J #1	1UP4156	SP-49/M3	00010	[illegible]001
11-10-00	0949	Y (N)	JT #LA003	1UN4505	SP-49/M3/[illegible]57	00011	1013
11-10-00	1035	Y (N)	J&J #88	1UN9424	SP-49/[illegible]55/[illegible]57/[illegible]514	00012	1041
11-10-00	1054	Y (N)	JT #6	1WR1834	SP49/55/57/514	00013	1106
11-10-00	1056	Y (N)	JFR988	1WB2157	SP49/55/57/514	00014	1117
11-10-00	1103	Y (N)	J&J #3	1WB2189	SP49/M1	00015	1134
11-10-00	1117	Y (N)	J&J #1	1UP4156	SP49/M1	00016	1143
11-10-00	1135	Y (N)	JT #LA003	1UN4505	SP49/M1	00017	1152
11-10-00	1157	Y (N)	J&J #88	1UN9424	SP49/M7	00018	1206
11-10-00	1220	Y (N)	JT #6	1WR1834	SP49/M7	00019	1229

JALK FEE TRUCKING RECORD

00-265

TRC FIELD REP: CRAIG MITCHELL

PAGE 2 OF 2

DATE	TIME IN	IMPORT	TRUCK NUMBER	TRAILER NUMBER	SOIL SOURCE	MANIFEST NUMBER	TIME OUT
10-10-00	1222	Y (N)	JFR #988	IWB2157	SP49 /M7	00020	1238
11-10-00	1230	Y (N)	J+I #3	IWB2189	SP49/M7/S15	00021	1303
11-10-00	1241	Y (N)	J+I #1	IUP4156	SP49/S15/S11/M8	00022	1315
11-10-00	1313	Y (N)	JT #LA003	IUN4505	SP49/M8	00023	1339
11-10-00	1335	Y (N)	J+I #88	IUN9424	SP49/M8	00024	1349
11-10-00	1350	Y (N)	JT #6	IWR1836	SP49/M8	00025	1402
11-10-00	1354	Y (N)	JFR #988	IWB2157	SP49/M8/S12/SP	00026	1423
11-10-00	1402	Y (N)	J+I #3	IWB2189	SP49/S12/SP	00027	1455
11-10-00	1422	Y (N)	J+I #1	IUP4156	SP49/S12/S19	00028	1455
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					

JALK FEE TRUCKING RECORD

TRC FIELD REP: CRAIG MITCHELL

PAGE 1 OF ___

DATE	TIME IN	IMPORT	TRUCK NUMBER	TRAILER NUMBER	SOIL SOURCE	MANIFEST NUMBER	TIME OUT
11-13-00	0630	Y (N)	R+R #60	IVZ 5756	SP-49/S12/S19	00029	0715
11-13-00	0630	Y (N)	OR #411	IVR9067	SP-49/S12/S19	00030	0731
11-13-00	0630	Y (N)	MUNOZ #40	IUF2200	SP-49/S12/S19	00031	0744
11-13-00	0640	Y (N)	AFL #145802	IUZ 6307	SP-49/S12/S49	00032	0755
11-13-00	0903	Y (N)	R+R #60	IVZ 5756	SP-49/S12/S49	00033	0919
11-13-00	0911	Y (N)	OR #411	IVR9067	SP-49/M9	00034	0933
11-13-00	0927	Y (N)	AFL #145802	IUZ 6307	SP-49/M9	00035	0947
11-13-00	0947	(Y) N	MUNOZ #40	IUF2200	SP-49/M9	00036	0959
11-13-00	1045	(Y) N	R+R #60	IVZ 5756	SP-49/M9	00037	1111
11-13-00	1130	(Y) N	OR #411	IVR9067	SP-49/M9	00038	1145
11-13-00	1153	(Y) N	AFL #145802	IUZ 6307	SP-49/M9	00039	1200
11-13-00	1158	(Y) N	MUNOZ #40	IUF2200	SP-49/M9	00040	1207
11-13-00	1305	(Y) N	R+R #60	IVZ 5756	SP-49/M9	00041	1320
11-13-00	1319	(Y) N	OR #411	IVR9067	SP49/M9	00042	1330
11-13-00	1330	(Y) N	AFL #145802	IUZ 6307	SP-49/M9	00043	1340
11-13-00	1340	(Y) N	MUNOZ #40	IUF2200	SP-49/M9	00044	1400
		Y N					
		Y N					

JALK FEE TRUCKING RECORD

00-265

TRC FIELD REP: C. MITCHELL

PAGE 1 OF

DATE	TIME IN	IMPORT	TRUCK NUMBER	TRAILER NUMBER	SOIL SOURCE	MANIFEST NUMBER	TIME OUT
11-14-00	0642	Y (N)	LAVWA #14	IWE 7742	SP-49/M9	00045	0715
11-14-00	0655	Y (N)	AT #31	IVG 3580	SP-49/M9	00046	0721
11-14-00	0655	Y (N)	GEM #47	IVG 7735	SP-49/M-9	00047	0734
11-14-00	0853	(Y) N	LEIVA #14	IWE7742	SP-49/M-9	00048	0915
11-14-00	0859	(Y) N	AT #31	IVG3580	SP-49/M-9	00049	0926
11-14-00	0913	(Y) N	GEM #47	IVG 735	SP-49/M-9	00050	0932
11-14-00	1012	Y (N)	LEIVA #14	IWE 7742	SP-49/M9	00051	1015
11-14-00	1030	Y (N)	AT #31	IVG 3580	SP-49/M9	00052	1040
11-14-00	1100	Y (N)	GEM #47	IVG 7735	SP-49/M-9	00053	1113
11-14-00	1130	Y (N)	LEIVA #14	IWE7742	SP-49/M-9	00054	1153
11-14-00	1150	Y (N)	AT #31	IVG 3580	SP49/M9	00055	1205
11-14-00	1215	Y (N)	GEM #47	IVG 7735	SP-49/M-9	00056	1225
11-14-00	1250	Y (N)	LEIVA #14	IWE 7742	SP-49/M-9	00057	1300
11-14-00	1300	Y (N)	AT #31	IVG 3580	SP-49/M-9	00058	1320
11-14-00	1326	Y (N)	GEM #47	IVG 7735	SP-49/M-9	00059	1350
11-14-00	1406	Y (N)	LEIVA #14	IWE 7742	SP-49/M-9	00060	1420
11-14-00	1500	Y (N)	GEM #47	IVG 7735	SP-49/M-9	00061	
		Y N					

125.
10%

JALK FEE TRUCKING RECORD

TRC FIELD REP: C. Mitchell

PAGE 1 OF ___

DATE	TIME IN	IMPORT	TRUCK NUMBER	TRAILER NUMBER	SOIL SOURCE	MANIFEST NUMBER	TIME OUT
11-15-00	0630	Y (N)	JI #3	1WB2189	SP-49/M9	00063	0729
11-15-00	0605	Y (N)	JT#6	1WR1834	SP-49/M9	00062	0719
11-15-00	0901	Y (N)	JT#6	1WR1834	SP-49/M9	00064	0912
11-15-00	0906	Y (N)	JI #3	1WB2189	SP-49/M-9	00065	0922
11-15-00	1018	Y (N)	JT#6	1WR1834	SP-49/M-9	00066	1030
11-15-00	1029	Y (N)	JI#3	1WB2189	SP-49/M-9	00067	1046
11-15-00	1200	Y (N)	JI#3	1WB2189	SP-49/M-9	00068	1216
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					
		Y N					

AMERICAN REMEDIAL TECHNOLOGIES

Daily Received Report

Report Print Date: 11/15/00 11:34

Selected Start Date for Report: 11/10/00

Selected Ending Date for Report: 11/14/00

Organization Name	Date	Job Number	Ticket Number	Manifest Number	Net-Tons
ExxonMobil					
10607 Norwalk Blvd.	11/10/00	20001811	038050	00002	27.25
			038051	00003	27.87
			038052	00004	29.42
			038053	00003	31.24
			038054	00006	28.60
			038064	00007	28.62
			038065	00008	26.78
			038066	00009	29.78
			038069	00010	29.26
			038070	00011	24.27
			038074	00012	28.45
			038077	00013	24.38
			038078	00014	26.34
			038080	00015	29.21
			038081	00016	29.25
			038082	00017	23.79
			038086	00018	26.26
			038089	00019	25.18
			038090	00020	25.55
			038092	00021	30.08
			038095	00022	29.82
			038098	00023	27.05
			038101	00024	24.92
			038103	00025	24.16
			038105	00026	26.74
			038106	00028	29.11
			038107	00027	29.51

AMERICAN REMEDIAL TECHNOLOGIES

Daily Received Report

Report Print Date: 11/15/00 11:34

Selected Start Date for Report: 11/10/00
Selected Ending Date for Report: 11/14/00

Organization Name	Date	Job Number	Ticket Number	Manifest Number	Net-Tons
Total For Job: 20001811	**On Date: 11/10/00**		**Number of Loads: 27**		**742.89**
10607 Norwalk Blvd.	11/13/00	20001811	038130	00029	27.07
			038132	00030	25.06
			038133	00032	28.15
			038134	00031	27.87
			038140	00033	27.52
			038147	00034	25.75
			038149	00035	28.50
			038151	00036	27.92
			038156	00037	28.72
			038159	00038	27.08
			038161	00039	28.53
			038163	00040	28.79
			038172	00041	26.66
			038173	00042	27.17
			038176	00043	27.47
			038180	00044	28.05
Total For Job: 20001811	**On Date: 11/13/00**		**Number of Loads: 16**		**440.31**
10607 Norwalk Blvd.	11/14/00	20001811	038193	00045	25.65
			038194	00046	23.48
			038195	00047	22.23
			038203	00048	26.83
			038204	00049	21.92
			038205	00050	23.05
			038206	00051	27.44
			038207	00052	23.17
			038208	00053	20.84

AMERICAN REMEDIAL TECHNOLOGIES

Daily Received Report

Report Print Date: 11/15/00 11:34

Selected Start Date for Report: 11/10/00

Selected Ending Date for Report: 11/14/00

Organization Name	Date	Job Number	Ticket Number	Manifest Number	Net-Tons
10607 Norwalk Blvd.	11/14/00	20001811	038209	00054	28.17
			038211	00055	24.45
			038212	00056	20.65
			038217	00057	28.39
			038219	00058	24.85
			038223	00059	22.10
			038224	00060	27.86
			038226	00061	20.13
Total For Job: 20001811	**On Date: 11/14/00**			**Number of Loads: 17**	**411.21**
Total For Job: 20001811				**Number of Loads: 60**	**1594.41**
Total For ExxonMobil				**Number of Loads: 60**	**1594.41**
				Grand Total:	**1594.41**

AMERICAN REMEDIAL TECHNOLOGIES

Daily Received Report

Report Print Date: 11/16/00 8:09:

Selected Start Date for Report: 11/15/00

Selected Ending Date for Report: 11/15/00

Organization Name	Date	Job Number	Ticket Number	Manifest Number	Net-Tons
ExxonMobil					
10607 Norwalk Blvd.	11/15/00	20001811	038232	00062	21.46
			038233	038228	28.99
			038236	00064	23.41
			038237	00065	29.81
			038239	00066	22.09
			038241	00067	29.01
			038243	00068	26.64
Total For Job: 20001811		**On Date: 11/15/00**		**Number of Loads: 7**	**181.41**
Total For Job: 20001811				**Number of Loads: 7**	**181.41**
Total For ExxonMobil				**Number of Loads: 7**	**181.41**
				Grand Total:	**181.41**

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.:

2. Manifest Document No.: 00002

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
NOS Hydrocarbon Contaminated Soil **Non-Hazardous waste, solid.** **Soil contaminated with hydrocarbons.**	1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
YES X NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
AGENT FOR EXXON MOBIL CRAIG MITCHELL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	11	10	21

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [redacted]

2. Manifest Document No. 00003

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co J&J JIT

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description

NOS Hydrocarbon Contaminated Soil

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Type	Total Quantity	Unit Wt. / Vol.
1	CD	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☑ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
Craig Mitchell	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Sergio Guerrero	Sergio Guerrero	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. —

2. Manifest Document No. 00004

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name JVI 3 J Torres Co J3T

6. US EPA ID Number CAD980887046

7. Transporter's Phone No. 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number **CAL000131034**

10. Facility's Phone No. **(323) 357-1900**

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
NOS Hydrocarbon Contaminated Soil				
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**	1	E.D.	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No. 2811

ART Job No. 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
AGENT FOR EXXON MOBIL CRAIG MITCHELL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jesus H Zepeda	Jesus H Zepeda	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. —

2. Manifest Document No. 00005

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co JPI 988

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No. 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No. **(323) 357-1900**

11. Waste Shipping Name and Description

NOS Contaminated Soil

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D.	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
○ YES ☒ NO

Weight Ticket _____

ART Approval No. 2811

ART Job No. 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
Craig Mitchell AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
John F. Kajas		11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00006

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661 832 2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
NOS Hydrocarbon Contaminated Soil **Non-Hazardous waste, solid.** **Soil contaminated with hydrocarbons.**	1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXONMOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
ARTHUR MACISAAC	Arthur Macisaac	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [redacted]

2. Manifest Document No. 00007

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. 6-20A

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description

NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
AGENT FOR EXXONMOBIL CRAIG MITCHELL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
JOEL ESPINOSA	[signature]	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00008

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3881

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. JTI 988

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS Hydrocarbon Contaminated Soil

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D.	18	Cy

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
AGENT FOR EXXONMOBIL CRAIG MITCHELL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Juan F. Rojas	Juan F. Rojas	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ~~[illegible]~~

2. Manifest Document No.: 00009

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: JJ3- J37
J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description

Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
NOS HYDRO CARBON CONTAMINATED SOIL **Non-Hazardous waste, solid.** **Soil contaminated with hydrocarbons.**	1	E.D.	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☑ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jesus H Zepeda	Jesus H Zepeda	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00010

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J Torres Co DBA JJT

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
AGENT FOR EXXONMOBIL CRAIG MITCHELL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Sergio Barrantes	Sergio Barrantes	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. —

2. Manifest Document No. 00011

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D.	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig A Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
ARTHUR MACISAAC	Arthur MacIsaac	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [redacted]

2. Manifest Document No. 00012

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands. TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs. CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description

NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D.	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
YES X NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
		11	11	

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [redacted]

2. Manifest Document No. 00013

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D.	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXONMOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
STEVE [illegible]DILLA	[illegible]	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00014

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co JJ 988

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket: _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Juan T. Rojas		11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ~~[illegible]~~

2. Manifest Document No.: 00015

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: JTB - JBT
J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: CAL000131034

10. Facility's Phone No.: (323) 357-1900

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXONMOBIL	[signature]	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jesus A Zepeda	[signature]	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

TRANSPORTER #2

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00016

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J Torres Co J & T / JIT

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	06

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Sergio Buenrostro	Sergio Buenrostro	11	10	06

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00017

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☑ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
ARTHUR MACIAS JR	[signature]	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00018

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXONMOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Austin Arai	[signature]	11	11	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00019

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS Hydrocarbon Contaminated Soil

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
YES X NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
J TORRES/DISPOSAL	Steven Jones	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00020

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J Torres Co J-I 988

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Juan F Rojas	[signature]	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [redacted]

2. Manifest Document No. 00021

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name JTS-J37
J. Torres Co.

6. US EPA ID Number CAD980887046

7. Transporter's Phone No. 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number **CAL000131034**

10. Facility's Phone No. **(323) 357-1900**

11. Waste Shipping Name and Description

NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E,D	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No. 2811

ART Job No. 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jesus A Lopez	Jesus A Lopez	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ———

2. Manifest Document No.: 00022

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co J&J JIT

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket ———

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Sergio. Buenrostro	Sergio Buenrostro	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00023

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: LA003/3A
J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
NON HYDROCARBON CONTAMINATED SOIL **Non-Hazardous waste, solid.** **Soil contaminated with hydrocarbons.**	1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Arthur Macisaac		11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

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AMERICAN REMEDIAL TECHNOLOGIES

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ——

2. Manifest Document No.: 00024

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. Soil contaminated with hydrocarbons.	1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Hunter Arrow	[illegible]	11	[illegible]	

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [redacted]

2. Manifest Document No. 00025

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. 10-204

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description

NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
JOE (ESPINO) T	[signature]	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00026

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J Torres Co J & I 788

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Juan F. Rojas	[signature]	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00027

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J.I 3. J3T
J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description:
NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket: _____

ART Approval No.: 2811

ART Job No.: 20001811

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jesus Zepeda	[signature]	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00028

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J Torres Co J&T / JIT

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket: _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	10	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Sergio Cuevastro	Sergio Cuevastro	11	10	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00029

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☑ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
		11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00030

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXONMOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00031

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. RER 402

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket: _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
JESUS [illegible]	[illegible]	11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [redacted]

2. Manifest Document No. 00032

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J Torres Co R706

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description

NOS Hydrocarbon Contaminated Soil

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
TOM [illegible]				

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00033

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXONMOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Carlos Mendoza	[illegible]	11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00034

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J Torres Co MC #11

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	F.D.	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [redacted]

2. Manifest Document No. 00035

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No. 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No. **(323) 357-1900**

11. Waste Shipping Name and Description

NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	CY	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No. 2811

ART Job No. 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
TOM TORRES		11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00936

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. R&A 400

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
NOS Hydrocarbon Contaminated Soil				
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**	1	E.D.	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
JESUS ALVAREZ	[signature]	11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [redacted]

2. Manifest Document No. 00037

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. RSL# 60

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: CAL000131034

10. Facility's Phone No.: (323) 357-1900

11. Waste Shipping Name and Description

NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Carlos Hardaya	[signature]	11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. —

2. Manifest Document No. 00038

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. M/C 911

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
		11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [redacted]

2. Manifest Document No. 00039

3. Generator's Name and Mailing Address
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name
J. Torres Co. 2900

6. US EPA ID Number
CAD980887046

7. Transporter's Phone No.
661-832-2635

8. Designated Facility Name and Site Address
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number
CAL000131034

10. Facility's Phone No.
(323) 357-1900

11. Waste Shipping Name and Description
NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	Cy

12. Special Handling Instructions and Additional Information
Wear appropriate P.P.E.
Wear gloves and goggles.
Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No. 2811

ART Job No. 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CLAIG MITCHELL AGENT FOR EXXON MOBIL	Claig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. —

2. Manifest Document No. 00040

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description

NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED.	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00041

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED	18	Cy

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Carlos Nieto		11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00042

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. M C 511

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS Hydrocarbon Contaminated Soil

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Martin	Martin	11	13	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. —

2. Manifest Document No. 00043

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. R700

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description

NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED.	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
ICAM [illegible] BARRA				

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00044

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. R&R 400

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	13	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	11	1	[illegible]

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00045

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00046

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Containers No.	Type	Total Quantity	Unit Wt. / Vol.
1	ED	18	CY

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	11	14	

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00047

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOC HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
SCOTT WOODLOCK	Scott Woodlock	11	14	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00048

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. R & B 14

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**	1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.	ART Job No.
2811	20001811

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Edgar B Servi	[illegible]	11	14	

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00049

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: ER 31 J Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661 832 2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
NOS HYDROCARBON CONTAMINATED SOIL **Non-Hazardous waste, solid.** **Soil contaminated with hydrocarbons.**	1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
FRANCISCO ARTEAGA	[signature]	11	14	0?

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00050

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands. TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXONMOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
SCOTT MONTLOCK	[signature]	11	14	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00051

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J Torres Co B & B 14

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661 832 2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
NOS HYDROCARBON CONTAMINATED SOIL				
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**	1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket: _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION.** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Edwin B Jeiva		11	14	

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00052

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. F-R 31

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
FRANCISCO MACEDO		11	14	

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. —

2. Manifest Document No. 00053

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD982087046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
NOS HYDROCARBON CONTAMINATED SOIL				
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**	1	E.D.	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Scott Barnett		11	14	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00054

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J Torres Co. B & B 14

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2611

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	11	17	[illegible]

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00055

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co. TR 31

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
NOS HYDROCARBON CONTAMINHTED SOIL **Non-Hazardous waste, solid.** **Soil contaminated with hydrocarbons.**	1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
FRANCISCO AMEZCUA	[illegible]	11	14	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00056

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Scott Blanchard	Scott Blanchard	11	14	

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 00057

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands. TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs. CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No. 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No. **(323) 357-1900**

11. Waste Shipping Name and Description

Containers No.	Type	Total Quantity	Unit Wt. / Vol.
1	CY	15	CY

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No. 2811

ART Job No. 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXONMOBIL	Craig Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Edgar Reina			14	

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Manifest Document No. 00058

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co FR 31

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description

Non Hydrocarbon Contaminated Soil

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED	15	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
Chris Mitchell Agent for Exxon Mobil	Chris Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Francisco Amezcua		11	14	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00059

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: CAL000131034

10. Facility's Phone No.: (323) 357-1900

11. Waste Shipping Name and Description: NOS HYDROCARBON CONTAMINATED SOIL

	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. Soil contaminated with hydrocarbons.	1	E.D	1.P	S.Y

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
Craig Mitchell Agent for Exxon Mobil	C. J. Mitchell	11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Scott Moreblock	[signature]	11	14	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00060

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOT Hydrocarbon Contaminated Soil

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Type	Total Quantity	Unit Wt. / Vol.
1	E.D	15	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
Craig Mitchell Agent For Exxon Mobil		11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
		11	14	

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00061

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661 832 2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
NRG Hydrocarbon Contaminated Soil				
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**	1	C.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL		11	14	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Scott Hamilton		11	14	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00062

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description:
Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	EA	18	C

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	15	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
LUIS SALAS	Luis Salas	11	15	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

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2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00063

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: JJ3 J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661 832 2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS Hydrocarbon Contaminated Soil

Containers No.	Type	Total Quantity	Unit Wt. / Vol.
1	C.Y.	18	CY

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	C. Mitchell	11	15	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
JESUS A. TORRES	[signature]	11	15	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00064

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380
Generator's Phone No. 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs. CA 90670

5. Transporter 1 Company Name: J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOT Hydrocarbon Contaminated Soil

Containers No.	Type	Total Quantity	Unit Wt. / Vol.
1	ED	12	CY

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT for EXXON MOBIL	[signature]	11	15	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	11	15	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: —

2. Manifest Document No.: 00065

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J-I3-J3T
J. Torres Co.

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661 832 2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: CAL000131034

10. Facility's Phone No.: (323) 357-1900

11. Waste Shipping Name and Description: NOS Hydrocarbon Contaminated Soil

	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**	1	E.D	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
Craig Mitchell Agent for Exxon Mobil	Craig Mitchell	11	15	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jesus H Zepeda	[signature]	11	15	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [redacted]

2. Manifest Document No.: 00066

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J. Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NOS Hydrocarbon Contaminated Soil

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	FD	13	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No.: 2811

ART Job No.: 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	15	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
LAGO SINALOA	Lago Sinaloa	11	15	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [illegible]

2. Manifest Document No.: 00067

3. Generator's Name and Mailing Address:
Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No.: 281-296-3981

4. Site Address:
Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name: J1J3-J3T
J Torres Co

6. US EPA ID Number: CAD980887046

7. Transporter's Phone No.: 661-832-2635

8. Designated Facility Name and Site Address:
American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number: **CAL000131034**

10. Facility's Phone No.: **(323) 357-1900**

11. Waste Shipping Name and Description: NO HYDROCARBON CONTAMINATED SOIL

	Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
Non-Hazardous waste, solid. **Soil contaminated with hydrocarbons.**	1	E.D.	18	CY

12. Special Handling Instructions and Additional Information:
Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO

Weight Ticket _____

ART Approval No.	ART Job No.
2811	20001811

13. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	[signature]	11	15	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jesus [signature]	[signature]	11	15	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

AMERICAN REMEDIAL TECHNOLOGIES

P.O. Box 970
2680 Seminole Avenue • Lynwood, California 90262
(323) 357-1900 • Fax (323) 357-1909 • (800) 401-4988

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [redacted]

2. Manifest Document No. 00068

3. Generator's Name and Mailing Address

Exxon Mobil
1200 Timberlock Place
The Woodlands, TX 77380

Generator's Phone No. 281-296-3981

4. Site Address

Exxon Mobil
10607 Norwalk Blvd.
Santa FE Springs, CA 90670

5. Transporter 1 Company Name JJ3- J3T
J. Torres Co.

6. US EPA ID Number CAD980887046

7. Transporter's Phone No. 661-832-2635

8. Designated Facility Name and Site Address

American Remedial Technologies, Inc.
2680 Seminole Avenue
Lynwood, California 90262

9. US EPA ID Number CAL000131034

10. Facility's Phone No. (323) 357-1900

11. Waste Shipping Name and Description

NOS HYDROCARBON CONTAMINATED SOIL

Non-Hazardous waste, solid.
Soil contaminated with hydrocarbons.

Containers No.	Containers Type	Total Quantity	Unit Wt. / Vol.
1	ED	18	CY

12. Special Handling Instructions and Additional Information

Wear appropriate P.P.E.
Wear gloves and goggles.

Is the soil subject to 1166 monitoring?
☐ YES ☒ NO
Weight Ticket _____

ART Approval No. 2811

ART Job No. 20001811

13. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting disposal of Hazardous Waste.

Printed / Typed Name	Signature	Month	Day	Year
CRAIG MITCHELL AGENT FOR EXXON MOBIL	Craig Mitchell	11	15	00

14. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Typed Name	Signature	Month	Day	Year
Jesus H Zepeda	Jesus H Zepeda	11	15	00

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 15.

Printed / Typed Name	Signature	Month	Day	Year

TRANSPORTER #2

APPENDIX D

IMPORT AND COMPACTION RECORDS

ART Outbound Soil Log

Date 11-13-00

Page # 1

	TRUCK ID	COMPANY	LICENSE #	TIME IN	TIME OUT	JOB #	TONS	DISPOSITION
1	400	MUNOS	9C09607	9:17	9:20	20001698	22	18607 Norwalk b Santa Fe Spring
2	60	R&R	9B36608	10:08	10:10	"	"	"
3	411	R&R	9B32771	11:01	11:03	"	"	"
4	R-700	R&R	9B66037	11:18	11:21	"	"	"
5	400	MUNOS	9C09607	11:30	11:33	"	"	"
6	60	R&R	9B36608	12:22	12:24	20001698	22	"
7	411	R&R	9B32771	12:42	12:45	"	"	"
8	700	R&R	9B66037	12:52	12:55	"	"	"
9	400	MUNOS	9C09607	1:04	13:07	"	"	"
10								
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12								
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40								

Name: Ricardo G.

198 tons

ART Outbound Soil Log

Date 11-14-00

Page # 1

	TRUCK ID	COMPANY	LICENSE #	TIME IN	TIME OUT	JOB #	TONS	DISPOSITION
1	14	LEIVA	9B68272	8:14	8:17	20001776	22	10607 Norwalk Blvd Santa Fe Springs
2	31	AMEZCUA	9B60404	8:24	8:27	20001776	22	"
3	G-47	GEM	9B26572	8:39	8:42	20001778	22	"
4								
5								
6								
7								
8								
9								
10								
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40								

Name: Ricardo G.

66 TONS

Apollo Analytics, Inc.
3100-A Airport Loop Drive • Costa Mesa, CA 92626
Phone (714) 751-3210 • Fax (714) 751-6414

Chain of Custody

DATE [illegible] PAGE 1 OF 1

PROJECT MANAGER: [illegible]
COMPANY: [illegible]
ADDRESS:
PHONE # [illegible] FAX #
BILL TO: [illegible]
COMPANY:
ADDRESS:

SAMPLERS: (Signature) [illegible] PHONE NUMBER ( ) -

Recommended Quantity and Preservative (Provide triple volume on QC Samples)

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Air Toxics	Volatile Cmpds (EPA TO14) 4L	Hydrocarbon Speciations 1L	Fixed Gases (CH_4, O_2, CO_2, CO) 1L	TPH/BTXE 1L	TNMOC (SCAQMD 25.2) 1L	Metals (CARB 436)	Soil & Water Toxics	Petroleum Hyrdocarbons (418.1)	Oil and Grease (413.2) 1L (H_2SO_4)/100g	Gasoline (MOD 8015/DOHS) 4 oz (HCL)/50g	Diesel (MOD 8015/DOHS) 4 oz (HCL)/50g	Gasoline /BTXE (MOD 8015/8020) 4 oz (HCL)/50g	Carbon Chain (ASTM D2887) 4 oz (HCL)/50g	BTXE (8020) 2X40ml (HCL)/50g	Chlorinated Hydrocarbons (8010) 2X40ml (HCL)/50g	Aromatic Hydrocarbons (8020) 2X40ml (HCL)/50g	Organic Lead (Pb) 500ml/50g	Volatile Cmpds GC/MS (8260B) 2X40ml (HCL)/100g	Semi-Volatile Cmpds GC/MS (8270) 1L/100g	Pesticides/PCB (8081A/8082) 1L/50g	Polynuclear Aromatic (8310) 1L/100g	CCR Metals 500ml/100g	Priority Pollutant Metals 500ml/100g	Number of Containers
[illegible]	[illegible]	[illegible]	Soil	-001									✓		✓	✓			✓										
[illegible]	"	"	Soil	-002											✓	✓			✓										

PROJECT INFORMATION	
PROJECT NUMBER:	
PROJECT NAME: [illegible]	
PURCHASE ORDER NUMBER:	
SHIPPED VIA:	
TAT: ☑ 24HR ☐ 48HR ☐ 1WK ☐ 2WKS	

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	2
CHAIN OF CUSTODY SEALS Y/N/NA	NA
INTACT? Y/N/NA	Y
RECEIVED GOOD COND./COLD	Y
AAI RFS #: 0027103	

Comments: Composite, A & B

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [illegible] Time: [illegible]	Signature: Time:	Signature: Time:
Printed Name: [illegible] Date: [illegible]	Printed Name: Date:	Printed Name: Date:
Company: [illegible]	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: 3.
Signature: Jim Brown Time: 1[illegible]	Signature: Time:	Signature: [illegible] Time: 1610
Printed Name: Jim Brown Date:	Printed Name: Date:	Printed Name: LETICIA ZELAYA Date: 9/27/00
Company: [illegible] 27	Company:	Apollo Analytics, Inc.

SAMPLE DISPOSAL INSTRUCTIONS
☐ AAI Disposal (By Quote) ☐ Return ☐ Pickup (will call)

DISTRIBUTION: White, Canary – APOLLO ANALYTICS, INC. • PINK – ORIGINATOR

PHONE (714) 751-3210 FAX (714) 751-6414

3190-A AIRPORT LOOP DRIVE COSTA MESA, CALIFORNIA 92626

AAI RFS #: 0027103

October 17, 2000

American Remedial Technologies
2680 Seminole Avenue
Lynwood, California 90270

Project Name: SP# 847
Project Number: ---

Attention: Irving Chung

Apollo Analytics Inc., has received the following sample(s):

Date Received	Quantity	Matrix
September 27, 2000	2	Soil

The sample(s) received were analyzed for total petroleum hydrocarbons as gasoline and diesel using EPA method 8015M, total recoverable petroleum hydrocarbons using EPA method 418.1 and BTEX/ MTBE using EPA method 8020.

The results of these analyses and the quality control are enclosed. If you have any questions please do not hesitate to call (714) 751-3210.

Robert Calvert

Leon Levan
for Laboratory Manager

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: **0027103**

Client Name: American Remedial Technologies
Project Name: SP# 847
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/28/2000
Analytical Method: EPA 8020
Chemist: LL

AAI ID Number	Client ID Number	MTBE (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	m,p-Xylene (mg/Kg)	o-Xylene (mg/Kg)
0027103 001-002	Composite A & B	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Method Blank		ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Approved by: _____ Date: 10/20

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: 0027103

Client Name: American Remedial Technologies
Project Name: SP# 847
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/28/2000
Analytical Method: EPA 8015M
Chemist: LL

AAI ID Number	Client ID Number	TPH as Gasoline (mg/Kg)
0027103 001-002	Composite A & B	ND<5.0
Method Blank		ND<5.0

Approved by: _____ Date: 10/20

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: **0027103**

Client Name: American Remedial Technologies
Project Name: SP# 847
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 10/2/2000
Analytical Method: EPA 8015M
Chemist: LL

AAI ID Number	Client ID Number	TPH as Diesel (mg/Kg)
0027103 001-002	Composite A & B	ND<10

Method Blank		ND<10

QUALITY CONTROL SUMMARY

QC SAMPLE ID NUMBER(S)	TARGET COMPOUND	TPH as Diesel
LCS/LCSD	MS (%Recovery)	96
	MSD (%Recovery)	93
	RPD	3
QC LIMITS	Recovery (%)	70-130
QC LIMITS	RPD (%)	30

MS- matrix spike;MSD-matrix spike duplicate;RPD-relative percent difference;ND-not detected

Approved by: _____ Date: 10/2

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: **0027103**

Client Name: American Remedial Technologies
Project Name: SP# 847
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/29/2000
Analytical Method: EPA 418.1
Chemist: GB

AAI ID Number	Client ID Number	TRPH (mg/Kg)
0027103 001-002	Composite A & B	50
Method Blank		ND<10

QUALITY CONTROL SUMMARY

QC SAMPLE ID NUMBER(S)	TARGET COMPOUND	TRPH
0027103-001	MS (%Recovery)	110
	MSD (%Recovery)	123
	RPD	11
QC LIMITS	Recovery (%)	70-130
QC LIMITS	RPD (%)	30

MS- matrix spike;MSD-matrix spike duplicate;RPD-relative percent difference;ND-not detected

Approved by: _____ Date: 10/20

Apollo Analytics, Inc.
3190-A Airport Loop Drive • Costa Mesa, CA 92626
Phone (714) 751-3210 • Fax (714) 751-6414

Chain of Custody

DATE 9/26/02 PAGE 1 OF 1

PROJECT MANAGER:
COMPANY:
ADDRESS:
PHONE # ( ) FAX #
BILL TO:
COMPANY:
ADDRESS:

( )
SAMPLERS: (Signature) PHONE NUMBER

Recommended Quantity and Preservative (Provide triple volume on QC Samples)

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Air Toxics	Volatile Cmpds (EPA TO14)	Hydrocarbon Speciations	Fixed Gases (CH_4, O_2, CO_2, CO)	TPH/BTXE	TNMOC (SCAQMD 25.2)	Metals (CARB 436)	Soil & Water Toxics	Petroleum Hyrdrocarbons (418.1)	Oil and Grease (413.2)	Gasoline (MOD 8015/DOHS)	Diesel (MOD 8015/DOHS)	Gasoline /BTXE (MOD 8015/8020)	Carbon Chain (ASTM D2887)	BTXE (8020)	Chlorinated Hydrocarbons (8010)	Aromatic Hydrocarbons (8020)	Organic Lead (Pb)	Volatile Cmpds GC/MS (8260B)	Semi-Volatile Cmpds GC/MS (8270)	Pesticides/PCB (8081A/8082)	Polynuclear Aromatic (8310)	CCR Metals	Priority Pollutant Metals	Number of Containers
						4L	1L	1L	1L	1L	1L			1L (H_2SO_4)/100g	4 oz (HCL)/50g	4 oz (HCL)/50g	4 oz (HCL)/50g	4 oz (HCL)/50g	2X40ml (HCL)/50g	2X40ml (HCL)/50g	2X40ml (HCL)/50g	500ml/50g	2X40ml (HCL)/100g	1L/100g	1L/50g	1L/100g	500ml/100g	500ml/100g		
				-001									X		✓	✓			✓										
				-002									X		✓	✓			✓										

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT NUMBER:		TOTAL NUMBER OF CONTAINERS	2
PROJECT NAME:		CHAIN OF CUSTODY SEALS Y/N/NA	NA
PURCHASE ORDER NUMBER:		INTACT? Y/N/NA	Y
SHIPPED VIA:		RECEIVED GOOD COND./COLD	Y
TAT: ☑ 24HR ☐ 48HR ☐ 1WK ☐ 2WKS		AAI RFS #:	027102
Comments:			

SAMPLE DISPOSAL INSTRUCTIONS
☐ AAI Disposal (By Quote) ☐ Return ☐ Pickup (will call)

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time:	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Time:	Signature: Time:	Signature: Time: 1610
Printed Name: Date: JIM BROWN 9/27	Printed Name: Date:	Printed Name: LETICIA ZELAYA 9/27/02 Date:
Company:	Company:	Apollo Analytics, Inc.

DISTRIBUTION: White, Canary – APOLLO ANALYTICS, INC. • PINK – ORIGINATOR

PHONE (714) 751-3210 FAX (714) 751-6414

3190-A AIRPORT LOOP DRIVE COSTA MESA, CALIFORNIA 92626

AAI RFS #: 0027102

October 17, 2000

American Remedial Technologies
2680 Seminole Avenue
Lynwood, California 90270

Project Name: SP# 846
Project Number: ---

Attention: Irving Chung

Apollo Analytics Inc., has received the following sample(s):

Date Received	Quantity	Matrix
September 27, 2000	2	Soil

The sample(s) received were analyzed for total petroleum hydrocarbons as gasoline and diesel using EPA method 8015M, total recoverable petroleum hydrocarbons using EPA method 418.1 and BTEX/ MTBE using EPA method 8020.

The results of these analyses and the quality control are enclosed. If you have any questions please do not hesitate to call (714) 751-3210.

Robert Richards

Leon Levan
Laboratory Manager

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: **0027102**

Client Name: American Remedial Technologies
Project Name: SP# 846
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/28/2000
Analytical Method: EPA 8020
Chemist: LL

AAI ID Number	Client ID Number	MTBE (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	m,p-Xylene (mg/Kg)	o-Xylene (mg/Kg)
0027102 001-002	Composite A & B	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Method Blank		ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Approved by: _____ Date: 10/20

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: **0027102**

Client Name: American Remedial Technologies
Project Name: SP# 846
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/28/2000
Analytical Method: EPA 8015M
Chemist: LL

AAI ID Number	Client ID Number	TPH as Gasoline (mg/Kg)
0027102 001-002	Composite A & B	ND<5.0
Method Blank		ND<5.0

Approved by: _____ Date: 10/20

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: 0027102

Client Name: American Remedial Technologies
Project Name: SP# 846
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 10/2/2000
Analytical Method: EPA 8015M
Chemist: LL

AAI ID Number	Client ID Number	TPH as Diesel (mg/Kg)
0027102 001-002	Composite A & B	ND<10

Method Blank		ND<10

QUALITY CONTROL SUMMARY

QC SAMPLE ID NUMBER(S)	TARGET COMPOUND	TPH as Diesel
LCS/LCSD	MS (%Recovery)	96
	MSD (%Recovery)	93
	RPD	3
QC LIMITS	Recovery (%)	70-130
QC LIMITS	RPD (%)	30

MS- matrix spike;MSD-matrix spike duplicate;RPD-relative percent difference;ND-not detected

Approved by: _____ Date: 10/2/00

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: **0027102**

Client Name: American Remedial Technologies
Project Name: SP# 846
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/29/2000
Analytical Method: EPA 418.1
Chemist: RR

AAI ID Number	Client ID Number	TRPH (mg/Kg)
0027102 001-002	Composite A & B	60
Method Blank		ND<10

QUALITY CONTROL SUMMARY

QC SAMPLE ID NUMBER(S)	TARGET COMPOUND	TRPH
0027103-001	MS (%Recovery)	110
	MSD (%Recovery)	123
	RPD	11
QC LIMITS	Recovery (%)	70-130
QC LIMITS	RPD (%)	30

MS- matrix spike;MSD-matrix spike duplicate;RPD-relative percent difference;ND-not detected

Approved by: BK Date: 10/2/00

JALK FEE TRUCKING RECORD

TRC FIELD REP: C. MITCHELL

PAGE 1 OF 2

DATE	TIME IN	IMPORT		TRUCK NUMBER	TONS (NET) TRAILER NUMBER	SOIL SOURCE	MANIFEST NUMBER	TIME OUT
11-15	0550	(Y)	N	410 DAVE [redacted] B	26.24	WEST COAST [redacted]		✓
11-15	0550	(Y)	N	102 JOHN B	26.01	"		✓
11-15	0550	(Y)	N	38 WEST COAST	25.40	"		✓
11-15	0550	(Y)	N	[redacted] BC24	25.46	"		✓
11-15	0550	(Y)	N	[redacted] BC23	24.69	"		✓
11-15	0605	(Y)	N	[redacted] BC19	25.18	"		✓
11-15	0723	(Y)	N	410 DAVE [redacted] B	26.36	"		✓
11-15	0723	(Y)	N	102 JOHN B	26.31	"		✓
11-15	0808	(Y)	N	38 WEST COAST	25.70	"		✓
11-15	0820	(Y)	N	CHRISTOPHERSON 10	25.18	"		✓
11-15	0857	(Y)	N	CHRIS #CT9	26.13	"		✓
11-15	0914	(Y)	N	410 DAVE [redacted] B	25.95	"		✓
11-15	0919	(Y)	N	102 JOHN B	26.15	"		✓
11-15	0932	(Y)	N	CW #46	25.07	"		✓
11-15	0940	(Y)	N	CW #47	24.79	"		✓
11-15	1030	(Y)	N	CT #10	25.01	"		✓
11-15	1030	(Y)	N	CT #9	26.35	"		✓
11-15	1030	(Y)	N	CT #14	25.10	"		✓

JALK FEE TRUCKING RECORD

TRC FIELD REP: C. MITCHELL

PAGE 2 OF 2

DATE	TIME IN	IMPORT		TRUCK NUMBER	TRAILER NUMBER / TONS (NET)	SOIL SOURCE	MANIFEST NUMBER	TIME OUT
11-15	1050	(Y)	N	CAVE CT# 9	25.10	WEST COAST SAND & GRAVEL		✓
11-15	1057	(Y)	N	DAVE #410	26.36	"		✓
11-15	1057	(Y)	N	JOHN #102	26.31	"		✓
11-15	1230	(Y)	N	DAVE #410	25.89	"		✓
11-15	1230	(Y)	N	JOHN #102	25.56	"		✓
11-15	1300	(Y)	N	WC #44	25.31	"		✓
11-15	1300	(Y)	N	WC #39	25.58	"		✓
11-15	1400	(Y)	N	CAVE #CT9	25.34	"		✓
11-15	1403	(Y)	N	DAVE #410	26.03	"		✓
11-15	1403	(Y)	N	JOHN B #102	26.06	"		✓
11-15	1403	(Y)	N	CT #14	24.74	"		✓
11-15	1409	(Y)	N	SB #401	25.93	"		✓
11-15	1409	(Y)	N	CT #10	24.41	"		
11-15	1409	(Y)	N	CT #9	24.45	"		✓
11-15	1453	(Y)	N	WC #39	24.41	"		✓
11-15	1453	(Y)	N	WC #44	26.45	"		✓
		Y	N		TOTAL 869.01			
		Y	N					

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment

SHIPPED TO 10607 Norwalk Blvd.

Norwalk, CA

DRIVER Rufino TRCK. # CT-10 PIT STAR

REFERENCE # 610114 UNIT PRICE _____

GROSS WT. 39.68 AMOUNT _____

TARE WT. 14.50 SALES TAX _____

NET WT. 25.18 **TOTAL** _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

301902

REC'D BY: X Rufino Vessell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rentals

SHIPPED TO 10607 Norwalk Blvd.

Santa Fe Springs, CA

DRIVER Bill Lewis TRCK. # 38 PIT Stage

REFERENCE # C10111 UNIT PRICE _____

GROSS WT. 38.99 AMOUNT _____

TARE WT. 13.29 SALES TAX _____

NET WT. 25.70 TOTAL _____

COMMODITY FS

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

36087

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIPMENT RENTAL

SHIPPED TO 10607 NORWALK BLVD

SANTA FE SPRINGS

DRIVER MATT TRCK. # 39 PIT STAR

REFERENCE # 598644 UNIT PRICE _____

GROSS WT. 37.93 AMOUNT _____

TARE WT. 13.52 SALES TAX _____

NET WT. 24.41 TOTAL _____

COMMODITY F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

301/98

REC'D BY: X Craig A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rentals

SHIPPED TO 10607 Norwalk
Santa Fe Spring

DRIVER Juan TRCK. # 411 PIT Star

REFERENCE # 598645 UNIT PRICE _____

GROSS WT. 39.78 AMOUNT _____

TARE WT. 13.33 SALES TAX _____

NET WT. 26.45 TOTAL _____

COMMODITY F.S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

33462o

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable ~~Cond~~ Equipment

SHIPPED TO 10607 Norwalk Blvd
Norwalk

DRIVER Juan TRCK. # 44 PIT Star

REFERENCE # 598611 UNIT PRICE _____

GROSS WT. 38.64 AMOUNT _____

TARE WT. 13.33 SALES TAX _____

NET WT. 25.31 TOTAL _____

COMMODITY F.S.

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

300550

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD ROLLABLE EQUIPMENT RENTAL

SHIPPED TO 10607 NORWALK BLVD

SANTA FE SPRINGS

DRIVER MATT TRCK. # 39 PIT STAR

REFERENCE # 598612 UNIT PRICE _____

GROSS WT. 39.10 AMOUNT _____

TARE WT. 13.52 SALES TAX _____

NET WT. 25.58 TOTAL _____

COMMODITY F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

301897

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 598585 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.36 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298465

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-10

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd.,
Santa Fe Springs.

DRIVER John B. TRCK. # 102 PIT X

REFERENCE # 598586 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.31 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306117

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Sod

SHIPPED TO 10607 Norwalk Blvd
Norwalk

DRIVER Miles TRCK. # CT-9 PIT _____

REFERENCE # 610138 UNIT PRICE _____

GROSS WT. 39.66 AMOUNT _____

TARE WT. 14.56 SALES TAX _____

NET WT. 25.10 **TOTAL** _____

COMMODITY S/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299494

REC'D BY: X Walt Thomas

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment.

SHIPPED TO 1602 Norwalk Blvd
Norwalk, Ct

DRIVER Alfredo TRCK. # CT-10 PIT STAR
Chr Staffelon

REFERENCE # 610141 UNIT PRICE _____

GROSS WT. 39.51 AMOUNT _____

TARE WT. 14.50 SALES TAX _____

NET WT. 25.01 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

301903

REC'D BY: X Walt Jr

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equt

SHIPPED TO 10607 Norwalk Blvd

DRIVER _____ TRCK. # CT 14 PIT STAC

REFERENCE # 610139 UNIT PRICE _____

GROSS WT. 39 19 AMOUNT _____

TARE WT. 14 39 SALES TAX _____

NET WT. 25.10 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

336341

REC'D BY: X Cici Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip.

SHIPPED TO 6607 Norwalk Blvd.
Santa Fe Springs

DRIVER D. Crile TRCK. # CT9-6669 PIT Star

REFERENCE # 66146 UNIT PRICE _____

GROSS WT. 40 00 AMOUNT _____

TARE WT. 13.65 SALES TAX _____

NET WT. 26.35 TOTAL _____

COMMODITY Misc. Fill

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

33314U

REC'D BY: X Walt Shannon

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP RENTAL

SHIPPED TO 10607 NORWALK BLVD

SANTA FE SPRINGS

DRIVER MK TRCK. # CW46 PIT STAR

REFERENCE # 610129 UNIT PRICE _____

GROSS WT. _____ AMOUNT _____

TARE WT. _____ SALES TAX _____

NET WT. 25.07 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

33268U

REC'D BY: X Walt Lucas

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP. RENTAL

SHIPPED TO 10607 NORWALK BL.
S.E.S.

DRIVER Louie Quintana TRCK. # CW-47 PIT STAR

REFERENCE # 610128 UNIT PRICE _____

GROSS WT. 38.77 AMOUNT _____

TARE WT. 13.98 SALES TAX _____

NET WT. 24.79 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

332670

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R. E. R.

SHIPPED TO 10607 Norwalk Blvd., Santa Fe Springs

DRIVER John B. TRCK. # 102 PIT ★

REFERENCE # 010127 UNIT PRICE _____

GROSS WT. 39.71 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.15 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306116

REC'D BY: X Craig Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIPMENT

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 610126 UNIT PRICE _____

GROSS WT. 39.46 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.95 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298.64

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD _____

SHIPPED TO RELIABLE EQUIPMENT
10607 NORWALK BLVD SANTA FE SPRINGS

DRIVER MIKE D TRCK. # B/C 19 PIT STAR

MP 706 J5

REFERENCE #	598571	UNIT PRICE	
GROSS WT.	37.78	AMOUNT	
TARE WT.	14.60	SALES TAX	
NET WT.	25.18	TOTAL	
COMMODITY	FILL SAND		

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

297144

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00.

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment

SHIPPED TO 10607 Norwalk Blvd.
Norwalk, CA

DRIVER Rufino TRCK. # CT-10 PIT STAR.
CHRISTENSEN.

REFERENCE # 598032 UNIT PRICE _____

GROSS WT. 38.91 AMOUNT _____

TARE WT. 14.50 SALES TAX _____

NET WT. 24.41 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

301905

REC'D BY: X Clay Smith

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Sq.

SHIPPED TO 10607 NORWALK BLVD
NORWALK

DRIVER Miles TRCK. # CT-9 PIT _____

REFERENCE # 548631 UNIT PRICE _____

GROSS WT. 39.01 AMOUNT _____

TARE WT. 14.56 SALES TAX _____

NET WT. 24.45 **TOTAL** _____

COMMODITY 7/5

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299496

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip

SHIPPED TO 10607 Norwalk Blvd
Norwalk

DRIVER Tom TRCK. # CT 14 PIT STAR

REFERENCE # 598653 UNIT PRICE _____

GROSS WT. 39.13 AMOUNT _____

TARE WT. 14.39 SALES TAX _____

NET WT. 24.74 **TOTAL** _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

336343

REC'D BY: X Cindy Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
SANTA Fe SPRGS

DRIVER Jack B TRCK. # 410 PIT STAR

REFERENCE # 598634 UNIT PRICE _____

GROSS WT. 39.54 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.03 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298467

REC'D BY: X Liz Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE _____

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip.

SHIPPED TO 10607 Norwalk Blvd
Santa Fe Springs

DRIVER DCriles TRCK. # CY9-WC109 PIT Star

REFERENCE # 598628 UNIT PRICE _____

GROSS WT. 38.99 AMOUNT _____

TARE WT. 13.65 SALES TAX _____

NET WT. 25.34 TOTAL _____

COMMODITY Misc Fill

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333142

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RER

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs

DRIVER Steven TRCK. # 401 PIT Star

REFERENCE # 598636 UNIT PRICE _____

GROSS WT. 39.33 AMOUNT _____

TARE WT. 13.40 SALES TAX _____

NET WT. 25.93 **TOTAL** _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

297969

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., Santa Fe Springs

DRIVER John B. TRCK. # 102 PIT ★

REFERENCE # 590635 UNIT PRICE _____

GROSS WT. 39.62 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.06 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306118

REC'D BY X Craig A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 598572 UNIT PRICE _____

GROSS WT. 39.75 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.24 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

238462

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-10

JOB # _____ P.O. # _____ ZONE # _____

SOLD R. E. R.

SHIPPED TO 10607 Norwalk Blvd.,
Santa Fe Springs

DRIVER John B. TRCK. # 102 PIT X

REFERENCE # 598573 UNIT PRICE _____

GROSS WT. 39 57 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.01 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

3 6113

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip

SHIPPED TO 10607 Norwalk Blvd
Santa Fe Springs

DRIVER Mike K TRCK. # BC 24 PIT Stgr

REFERENCE # 5985169	UNIT PRICE
GROSS WT. 38.98	AMOUNT
TARE WT. 13.52	SALES TAX
NET WT. 25.46	TOTAL
COMMODITY Fill Sand	

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333176

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD _____

SHIPPED TO RELIABLE EQUIP.

10600 NORWALK BL SANTA FE SPRINGS

DRIVER MIKE R TRCK. # BC 123 PIT STAN

REFERENCE # 59876 UNIT PRICE _____

GROSS WT. 3921 AMOUNT _____

TARE WT. 1452 SALES TAX _____

NET WT. 2469 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

303662

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rentals

SHIPPED TO 10607 Wolfskill Blvd.
Santa Fe Springs, CA

DRIVER Bill Lewis TRCK. # 38 PIT Stake

REFERENCE # 598574 UNIT PRICE _____

GROSS WT. 38.69 AMOUNT _____

TARE WT. 13.29 SALES TAX _____

NET WT. 25.40 TOTAL _____

COMMODITY FS

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306086

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIPMENT

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRS.

DRIVER DALE. B TRCK. # 410 PIT STAR

REFERENCE # 610105 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.36 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298463

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

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(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., Santa Fe Springs

DRIVER John B. TRCK. # 102 PIT X

REFERENCE # 610106 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.31 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

3?6115

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R. E. R.

SHIPPED TO 10607 Norwalk Blvd., Santa Fe Springs

DRIVER John B. TRCK. # 102 PIT A

REFERENCE # 598605 UNIT PRICE _____

GROSS WT. 39.12 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 25.56 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306114

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRGS.

DRIVER DALE. B TRCK. # 410 PIT STAR

REFERENCE # 598606 UNIT PRICE _____

GROSS WT. 39.40 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.89 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298466

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

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ROCK • SAND • BASE MATERIALS
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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

11-15-00

DATE 11-14-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip.

SHIPPED TO 6607 Norwalk Blvd

Santa Fe Springs

DRIVER D-Cole TRCK. # CX7-WC69 PIT Star

REFERENCE # 66117 UNIT PRICE _____

GROSS WT. 39.78 AMOUNT _____

TARE WT. 13.65 SALES TAX _____

NET WT. 26.13 **TOTAL** _____

COMMODITY Misc. Fill

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333139

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE Mobil
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 NORWALK Blvd., S.F.S.

DRIVER John B TRCK. # 102 PIT ☆

REFERENCE # 600860 UNIT PRICE _____

GROSS WT. 3987 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.31 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306122

REC'D BY: X Walt [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
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Mobil

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.A.

SHIPPED TO 10607 Norwalk Blvd., S.F.S.

DRIVER John B. TRCK. # 102 PIT X

REFERENCE # 6008685 UNIT PRICE _____

GROSS WT. 39 39 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 25.83 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

3 6125

REC'D BY: X Greg A Mitchell

WEST COAST SAND & GRAVEL, INC.

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobile

DATE 11-15-10

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., Santa Fe Springs

DRIVER John B TRCK. # 102 PIT ★

REFERENCE # 610173 UNIT PRICE _____

GROSS WT. 39.23 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 25.67 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

3 6121

REC'D BY: X Craig Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd.,
S. F. Springs -

DRIVER John B. TRCK. # 102 PIT X

REFERENCE # 6008630 UNIT PRICE _____

GROSS WT. 39.46 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 25.98 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

3 6123

REC'D BY: X Walt

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 NORWALK Blvd., S.F.S.

DRIVER John B TRCK. # 102 PIT A

REFERENCE # 60086664 UNIT PRICE _____

GROSS WT. 3969 AMOUNT _____

TARE WT. 1356 SALES TAX _____

NET WT. 26.13 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306124

REC'D BY: X Cheryl Mitchell

WEST COAST SAND & GRAVEL, INC.

JALK FEE TRUCKING RECORD

00-265

TRC FIELD REP: C. MITCHELL

PAGE 1 OF 2

DATE	TIME IN	IMPORT		TRUCK NUMBER	TONS (NET) TRAILER NUMBER	SOIL SOURCE	MANIFEST NUMBER	ACCTD. FOR TICKETS TIME OUT
11-16	0530	(Y)	N	DAVE B #410	26.17	WEST COAST SAND & GRAVEL		✓
11-16	0535	(Y)	N	JOHN B #102	25.92	"		✓
11-16	0600	(Y)	N	SB #401	26.49	"		✓
11-16	0614	(Y)	N	WC #717	25.59	"		✓
11-16	0629	(Y)	N	WC #55	25.56	"		✓
11-16	0635	(Y)	N	WC #9	26.33	"		✓
11-16	0635	(Y)	N	WC #31	25.97	"		✓
11-16	0730	(Y)	N	WC #717	25.35	"		✓
11-16	0730	(Y)	N	SB #401	26.40	"		✓
11-16	0735	(Y)	N	JOHN B #102	25.67	"		
11-16	0745	(Y)	N	DAVE B #410	25.87	"		✓
11-16	0915	(Y)	N	WC #31	25.94	"		✓
11-16	0915	(Y)	N	DAVE B #410	26.03	"		✓
11-16	0920	(Y)	N	CCT #246	24.76	"		✓
11-16	0920	(Y)	N	JOHN B #102	26.31	"		
11-16	0945	(Y)	N	SB #401	26.17	"		✓
11-16	0953	(Y)	N	WC 717	25.39	"		✓
11-16	1100	(Y)	N	DAVE B # 410	25.98	"		✓

JALK FEE TRUCKING RECORD

00-265.

TRC FIELD REP: C. MITCHELL

PAGE 2 OF 2

DATE	TIME IN	IMPORT	TRUCK NUMBER	TRAILER NUMBER / TONS (NET)	SOIL SOURCE	MANIFEST NUMBER	TIME OUT	
11-16	1100	(Y) N	JOHN B #102	25.98	WEST COAST SAND AND GRAVEL			
11-16	1100	(Y) N	WC #31	26.27	"		✓	
11-16	1115	(Y) N	SB #401	26.47	"		✓	
11-16	1115	(Y) N	CCT #246	24.47	"		✓	
11-16	1115	(Y) N	WC #717	26.01	"		✓	
11-16	1220	(Y) N	DAVE B #401	25.97	"		✓	
11-16	1220	(Y) N	JOHN B #102	26.13	"			1506.21
11-16	1412	(Y) N	DAVE B #401	25.63	"		✓	
11-16	1412	(Y) N	JOHN B #102	25.83	"			1507.67
11-16	1630	(Y) N	WC #33	26.63			✓	
		Y N						
		Y N						
		Y N						
		Y N						
		Y N						
		Y N						
		Y N						
		Y N						

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
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RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

Mobil

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.

S. F. SPRGS.

DRIVER DAVE-B TRCK. # 410 PIT STAR

REFERENCE # 610172 UNIT PRICE _____

GROSS WT. 39.38 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.87 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298469

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobile

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RER

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRINGS

DRIVER STEVEN TRCK. # 401 PIT SPAR

REFERENCE # 598626 UNIT PRICE _____

GROSS WT. 39,80 AMOUNT _____

TARE WT. 13,40 SALES TAX _____

NET WT. 26,40 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

297972

REC'D BY: X W a W

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

Mobile

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # MOBILE ZONE # _____

SOLD RELIABLE EQUIPMENT

SHIPPED TO 10607 NORWALK
SANTA FE SPRINGS

DRIVER Benito TRCK. # 7/7T PIT STAR

REFERENCE # 598677 UNIT PRICE _____

GROSS WT. 39.00 AMOUNT _____

TARE WT. 13.61 SALES TAX _____

NET WT. 25.35 **TOTAL** _____

COMMODITY S/F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

296793

REC'D BY: X Hector Heredia

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

mobile

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rental

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs

DRIVER Caleb TRCK. # 31 PIT Star

REFERENCE # 610158 UNIT PRICE _____

GROSS WT. 39.41 AMOUNT _____

TARE WT. 13.44 SALES TAX _____

NET WT. 25.97 TOTAL _____

COMMODITY FS

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334948

REC'D BY: X Craig A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobil

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIPMENT RENTALS

SHIPPED TO 10607 NORWALK BLVD
SANTA FE SPRINGS, CA

DRIVER B. CARLO TRCK. # 9 PIT STAR

REFERENCE # 610157 UNIT PRICE _____

GROSS WT. 39.75 AMOUNT _____

TARE WT. 13.42 SALES TAX _____

NET WT. 26.33 TOTAL _____

COMMODITY MISC. FILL

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

309736

REC'D BY: X Ray A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobil

DATE 11-16-06

JOB # _____ P.O. # Mobil ZONE # _____

SOLD Rehabb Equip

SHIPPED TO 10607 Norwalk Blvd
Santa Fe Springs

DRIVER Joe TRCK. # 55 PIT Stan

REFERENCE # 610156 UNIT PRICE _____

GROSS WT. 35.97 AMOUNT _____

TARE WT. 13.41 SALES TAX _____

NET WT. 22.56 TOTAL _____

COMMODITY F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

335131

REC'D BY: X Walt Summers

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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Mobile

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # MOBILE ZONE # _____

SOLD RELIABLE EQUIPMENT R

SHIPPED TO 10607 NORWALK
SANTA FE SPRINGS

DRIVER Benito TRCK. # 7/7T PIT STAR

REFERENCE # 610154 UNIT PRICE _____

GROSS WT. 39.20 AMOUNT _____

TARE WT. 13.61 SALES TAX _____

NET WT. 25.59 TOTAL _____

COMMODITY S/I/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

296792

REC'D BY: X Walter Ramirez

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

mobil

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RER

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRINGS

DRIVER STEVEN TRCK. # 401 PIT STAR

REFERENCE # 610155 UNIT PRICE _____

GROSS WT. 39.89 AMOUNT _____

TARE WT. 13.40 SALES TAX _____

NET WT. 26.49 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

297171

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

Mobil

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd.,
Santa Fe Springs

DRIVER JohnB TRCK. # 102 PIT A

REFERENCE # 598669 UNIT PRICE _____

GROSS WT. 39.48 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 25.92 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306120

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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WASHED PLASTER AND CONCRETE SAND • TOP SOIL
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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobil

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 598666 UNIT PRICE _____

GROSS WT. 39.68 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.17 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

293468

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

mobile

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RER

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRINGS

DRIVER STEVEN TRCK. # 401 PIT STARK

REFERENCE # 6009633 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.40 SALES TAX _____

NET WT. 26.47 **TOTAL** _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

237974

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
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RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip. Rental

SHIPPED TO 10607 Norwalk
Santa Fe Springs

DRIVER Caleb TRCK. # 31 PIT Star

REFERENCE # 6008628 UNIT PRICE _____

GROSS WT. 39.71 AMOUNT _____

TARE WT. 13.44 SALES TAX _____

NET WT. 26.27 TOTAL _____

COMMODITY FS

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334950

REC'D BY: X Craig Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

Mobil

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 6008629 UNIT PRICE _____

GROSS WT. 39.49 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.98 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298471

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
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RADIO DISPATCHED

mobil

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # Mobile ZONE # _____

SOLD RELIABLE EQUIPMENT

SHIPPED TO 10607 NORWALK
SANTA FE SPRING

DRIVER Benito TRCK. # 717T PIT STAR

REFERENCE # 6008609 UNIT PRICE _____

GROSS WT. 39.00 AMOUNT _____

TARE WT. 13.61 SALES TAX _____

NET WT. 25.39 TOTAL _____

COMMODITY S/F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

236794

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RER

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRINGS

DRIVER Steven TRCK. # 401 PIT STAR

REFERENCE # 6008605 UNIT PRICE _____

GROSS WT. 39,57 AMOUNT _____

TARE WT. 13,40 SALES TAX _____

NET WT. 26,17 **TOTAL** _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

297973

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

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Mobile

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00 am

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip Rental

SHIPPED TO 10607 Norwalk
Santa Fe Springs

DRIVER Caleb TRCK. # 31 PIT Star

REFERENCE # 598682 UNIT PRICE _____

GROSS WT. 39.38 AMOUNT _____

TARE WT. 13.44 SALES TAX _____

NET WT. 25.94 TOTAL _____

COMMODITY FS

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334949

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

Mobil

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD

S.F. SPRGS.

DRIVER DAVE.B TRCK. # 410 PIT STAR

REFERENCE # 59868 UNIT PRICE _____

GROSS WT. 39.54 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.03 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298470

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-07

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip

SHIPPED TO _____

DRIVER _____ TRCK. # CCT #246 PIT _____

REFERENCE # 598689 UNIT PRICE _____

GROSS WT. 3968 AMOUNT _____

TARE WT. 1:192 SALES TAX _____

NET WT. 2:196 TOTAL _____

COMMODITY Fill

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

311759

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

mobil

706
JS

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipt. Rentals

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs

DRIVER Flores TRCK. # 33 PIT Star

REFERENCE # 600895 UNIT PRICE _____

GROSS WT. 39.91 AMOUNT _____

TARE WT. 13.28 SALES TAX _____

NET WT. 26.63 **TOTAL** _____

COMMODITY F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334752

REC'D BY: X Walt Livingston

WEST COAST SAND & GRAVEL, INC.

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP

SHIPPED TO 10607 NORWALK BLVD.
S. F. SPRGS.

DRIVER DALE B TRCK. # 410 PIT STAR

REFERENCE # 6008683 UNIT PRICE _____

GROSS WT. 39.14 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.63 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298473

REC'D BY: X Lloyd Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

Mobile

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # Mobile ZONE # _____

SOLD RELIABLE EQUIPMENT

SHIPPED TO 10607 NORWALK
SANTA FE. S

DRIVER Benito TRCK. # 717 PIT STAR

REFERENCE # 6008644 UNIT PRICE _____

GROSS WT. 39.62 AMOUNT _____

TARE WT. 13.61 SALES TAX _____

NET WT. 26.01 TOTAL _____

COMMODITY S/F 1S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

296 '95

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

Mobil

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rental

SHIPPED TO 10607 Norwalk Blvd
South El Monte

DRIVER Circle City TRCK. # 246 PIT Sun

REFERENCE # 6008635 UNIT PRICE _____

GROSS WT. 3939 AMOUNT _____

TARE WT. 1492 SALES TAX _____

NET WT. 2447 TOTAL _____

COMMODITY Fill

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

31176U

REC'D BY: X Craig A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

Mobile

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE B. TRCK. # 410 PIT STAR

REFERENCE # 6008663 UNIT PRICE _____

GROSS WT. 39.48 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.97 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298472

REC'D BY: X Craig A Mitchell

WEST COAST SAND & GRAVEL, INC.

JALK FEE TRUCKING RECORD

00-265

TRC FIELD REP: C. MITCHELL

PAGE ____ OF ____

DATE	TIME IN	IMPORT	TRUCK NUMBER	~~TRAILER NUMBER~~ TONS NET	SOIL SOURCE	MANIFEST NUMBER	TIME OUT	
11-17-00	0600	(Y) N	JOHN B # 102	20.02	WEST COAST SANDY GRAVEL		✓	
11-17-00	0600	(Y) N	DAVE B #410	25.86	"		✓	
11-17-00	0620	(Y) N	WC # 41	22.50	"		✓	
11-17-00	0800	(Y) N	JOHN B #102	26.21	"		✓	
11-17-00	0800	(Y) N	DAVE B #410	26.11	"		✓	
11-17-00	0830	(Y) N	WC #41	21.10	"		✓	
11-17-00	0948	(Y) N	DAVE B #410	26.22	"		✓	168.02
11-17-00	0948	(Y) N	JOHN B #102	26.26	"		✓	194.28
11-17-00	1130	(Y) N	DAVE B #410	26.03	"		✓	
11-17-00	1130	(Y) N	JOHN B #102	26.31	"		✓	246.02
11-17-00	1305	(Y) N	DAVE B #410	25.94	"		✓	272.56
11-17-00	1325	(Y) N	JOHN B #102	26.43	"		✓	298.99
11-17-00	1530	(Y) N	JOHN B #102	26.15	"		✓	
11-17-00	1530	(Y) N	DAVE B #410	25.86	"		✓	
11-17-00	1600	(Y) N	WC # 57	26.47	"		✓	
		Y N						
		Y N						
		Y N						

WEST COAST SAND & GRAVEL, INC.

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7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd. S.F.S.

DRIVER John B TRCK. # 102 PIT ★

REFERENCE # 6008794 UNIT PRICE _____

GROSS WT. 38.99 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.43 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333955

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobile

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE. B TRCK. # 410 PIT STAR

REFERENCE # 6008792 UNIT PRICE _____

GROSS WT. 39.45 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.94 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299903

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 10-17-11

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd. S.F.S.

DRIVER John B TRCK. # 102 PIT X

REFERENCE # 6008793 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.31 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333954

REC'D BY: X Craig Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobil

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 6008769 UNIT PRICE _____

GROSS WT. 39.54 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.03 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299902

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

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(714) 522-0282 (800) 522-0282

mobile

DATE 10-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., S.F.S.

DRIVER John B. TRCK. # 102 PIT X

REFERENCE # 6008757 UNIT PRICE _____

GROSS WT. 39.82 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.26 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333953

REC'D BY: X Craig Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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mobil

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DALE B TRCK. # 410 PIT STAR

REFERENCE # 6008755 UNIT PRICE _____

GROSS WT. 39.73 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.22 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299901

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rentals

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs

DRIVER Ed. TRCK. # 41 PIT Star.

REFERENCE # 6005743 UNIT PRICE _____

GROSS WT. 35.48 AMOUNT _____

TARE WT. 14.38 SALES TAX _____

NET WT. 21.10 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334729

REC'D BY: X Greg A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobile

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 6008735 UNIT PRICE _____

GROSS WT. 39.62 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.11 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298475

REC'D BY: X Clay Mitchell

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 10-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., S.F.S.

DRIVER John B TRCK. # 102 PIT X

REFERENCE # 6008736 UNIT PRICE _____

GROSS WT. 39.77 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.21 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333952

REC'D BY: X Craig Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

Rubel

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rentals

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs

DRIVER Ed. TRCK. # 41 PIT Stor.

REFERENCE # 6005717 UNIT PRICE _____

GROSS WT. 36.88 AMOUNT _____

TARE WT. 14.38 SALES TAX _____

NET WT. 22.50 TOTAL _____

COMMODITY Fill Sand.

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334720

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 6008702 UNIT PRICE _____

GROSS WT. 39.37 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.86 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298474

REC'D BY: X Walt Lemmons

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobil

DATE 10-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., S.F.S.

DRIVER John B. TRCK. # 102 PIT X

REFERENCE # 6008704 UNIT PRICE _____

GROSS WT. 39.58 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 20.02 **TOTAL** _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333951

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

mobil

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP

SHIPPED TO 10607 ROSECRANS BLVD

SANTA FE SPRINGS

DRIVER DALE. R TRCK. # 410 PIT STAR

REFERENCE # 600811 UNIT PRICE _____

GROSS WT. 39.37 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.86 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299904

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd, S.F.S.

DRIVER John B. TRCK. # 102 PIT A

REFERENCE # 600882 UNIT PRICE _____

GROSS WT. ~~26153971~~ AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.15 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333950

REC'D BY: X Walt

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobil

DATE 11-17-2000

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rental

SHIPPED TO 10607 Norwalk Blvd
Santa Fe Springs

DRIVER Jeff TRCK. # 57 PIT Star

REFERENCE # 6008013 UNIT PRICE _____

GROSS WT. 39.67 AMOUNT _____

TARE WT. 13.20 SALES TAX _____

NET WT. 26.47 TOTAL _____

COMMODITY F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

310132

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

KEANTAN LABORATORIES

www.keantanlabs.com
email: keantanlab@aol.com

November 3, 2000

TRC Environmental Solutions, Inc.
21 Technology Drive
Irvine, CA 92718

Attention: Mr. Jeff Hensel

Subject: Report/Laboratory Test Results
Project Name: Jalk Fee
Project No.: 00-0265
KTL Project No.: 00-056-003

Dear Mr. Hensel:

Enclosed are results of the laboratory testing program conducted on samples from the above referenced project. The testing performed for this program was conducted in general accordance with testing procedures as follows:

TYPE OF TEST	TEST PROCEDURE
Modified Proctor	ASTM D 1557

Attached herewith are Modified Compaction Test Results(2).

We appreciate the opportunity to provide testing services to TRC Environmental Solutions, Inc. If you have any questions regarding the test results, please contact us.

Very truly yours,
Keantan Laboratories

Kean Tan, PE
Principal

Encls.

KEANTAN LABORATORIES

www.keantanlabs.com
email: keantanlab@aol.com

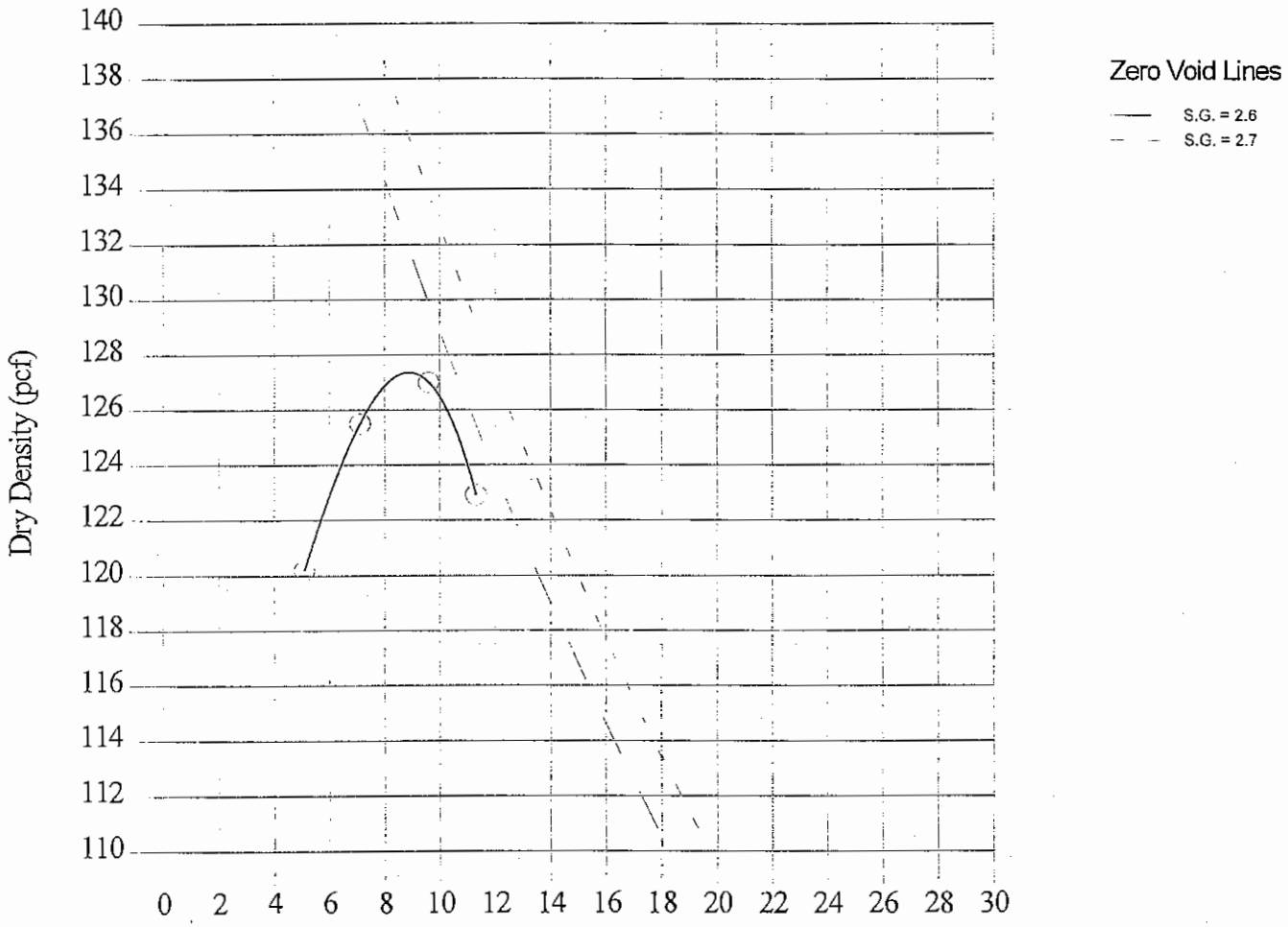
Modified Compaction Test Results
ASTM D 1557

PROJECT NAME: JALK FEE
PROJECT NO.: 00-265
DATE: Nov. 2000
BORING NO.: N/A
SAMPLE NO.: M7/M8

KTL NO.: 00-056-003
CLIENT: TRC ENV. SOLNS.
DEPTH (ft): N/A
USCS CLASS.: SC

METHOD: A
DROP: 18 INCHES
NUMBER OF LAYERS: 5

RAM WEIGHT: 10 LBS
RAM TYPE: MANUAL
BLOWS/LAYER: 25



Optimum Moisture Content, %

Maximum Dry Density, pcf

9

127

FIGURE NO.

720 North Valley Street, Suite B, Anaheim, CA 92801 • Tel.: (714) 535-7616 • Fax: (714) 535-7568

KEANTAN LABORATORIES

www.keantanlabs.com
email: keantanlab@aol.com

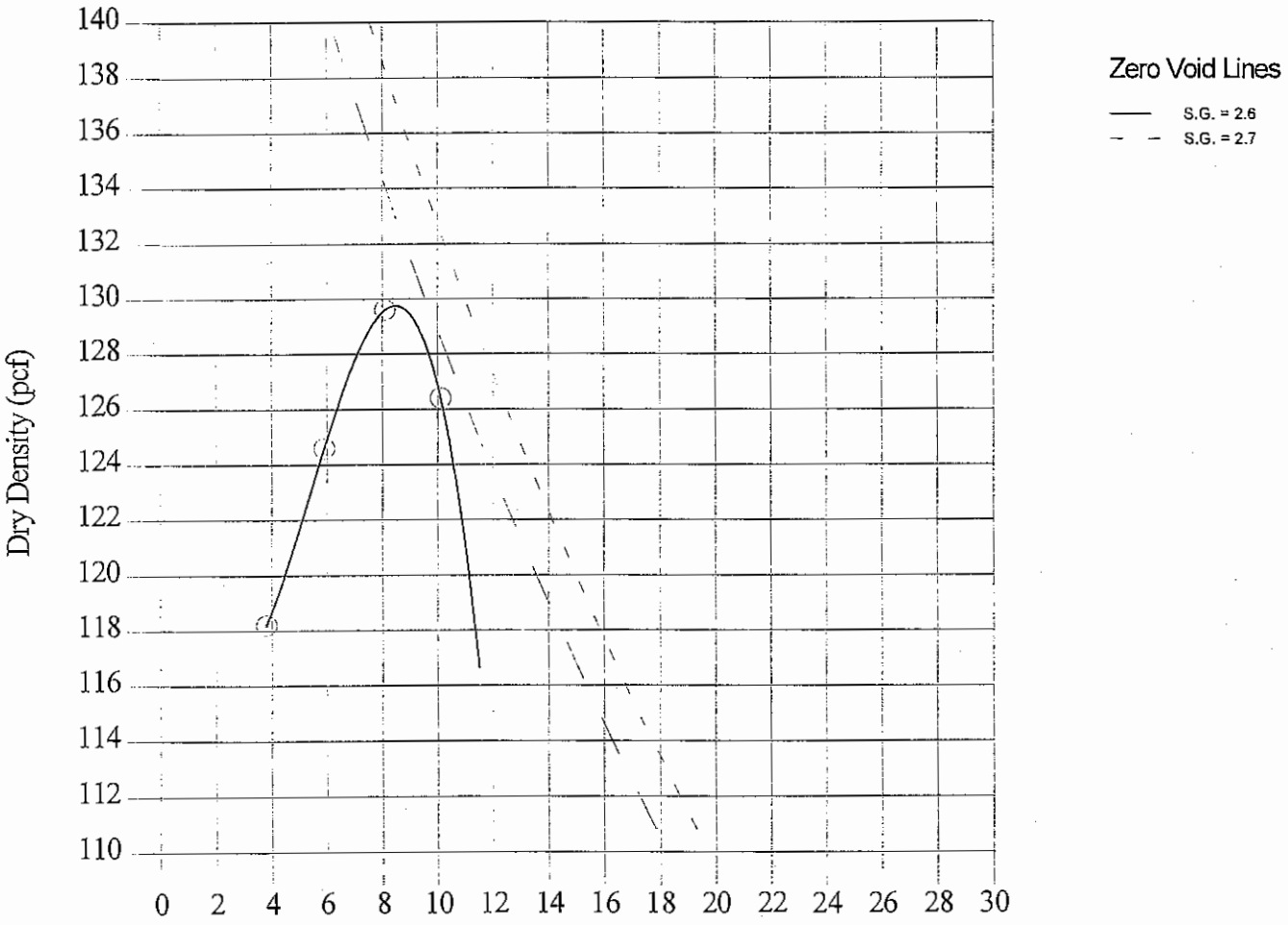
Modified Compaction Test Results
ASTM D 1557

PROJECT NAME: JALK FEE
PROJECT NO.: 00-265
DATE: Nov. 2000
BORING NO.: N/A
SAMPLE NO.: M-3

KTL NO.: 00-056-003
CLIENT: TRC ENV. SOLNS.
DEPTH (ft): N/A
USCS CLASS.: SC

METHOD: A
DROP: 18 INCHES
NUMBER OF LAYERS: 5

RAM WEIGHT: 10 LBS
RAM TYPE: MANUAL
BLOWS/LAYER: 25



Optimum Moisture Content, %: 8

Maximum Dry Density, pcf: 130

FIGURE NO.

720 North Valley Street, Suite B, Anaheim, CA 92801 • Tel.: (714) 535-7616 • Fax: (714) 535-7568

TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	SALK FEE	TESTED BY	CM	GAUGE NO.	M89058848	STD. DENSITY COUNT	16089
PROJECT NO.	00-265	DATE	11-17-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	.92
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	11067
TEST MATERIAL	GEN BACKFILL IMPORT	DATE				Xi RATIO	1.04

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
17	M-9	17	8	134.2	6.37	126.1	7.0	131.0	96.29	
18	M-9	18	8	131.3	7.30	122.4	7.0	131.0	93.40	
19	M-9	19	8	127.6	6.77	119.5	7.0	131.0	91.25	
20	M-9	20	8	132.1	5.64	125.1	7.0	131.0	95.49	

TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JALK FEE	TESTED BY	C.M.	GAUGE NO.	M89058848	STD. DENSITY COUNT	1617
PROJECT NO.	00-265	DATE	11-16-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	.93
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	1128
TEST MATERIAL	GEN BACKFILL IMPORT #2	DATE				Xi RATIO	1.03

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (in.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
11	M-3	11	8	126.8	5.14	120.6	7.5	128.5	93.87	
12	M-3	12	8	136.8	8.31	126.3	7.5	128.5	98.29	
13	M-3	13	8	124.3	6.99	116.2	7.5	128.5	90.41	
14	M-3	14	8	134.7	5.68	127.5	7.0	131.0	97.33	
1	M-8	1	8	129.7	9.39	118.6	7.5	128.5	92.27	IMPORT #2
2	M-8	2	8	128.0	8.33	118.1	10.0	125.0	94.51	IMPORT #1
3	M-8	3	8	125.0	8.97	114.7	10.0	125.0	91.75	
4	M-8	4	8	126.6	9.97	115.1	10.0	125.0	92.08	
5	M-8	5	8	129.3	9.97	117.6	8.0	130.0	90.45	
15	M9	15	8	131.4	9.06	120.5	8.0	130.0	92.68	
16	M-9	16	8	138.0	7.87	128.0	7.0	131.0	97.68	

TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JACK FEE	TESTED BY	CM	GAUGE NO.	M89058848	STD. DENSITY COUNT	16226
PROJECT NO.	00-265	DATE	11-15-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	1.02
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	11125
TEST MATERIAL	GRN BACKFILL IMPORT #1	DATE				Xi RATIO	1.05

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
1	M-3	1	8	135.6	9.62	123.7	10.0	125.0	98.99	IMPORT #1
2	M-3	2	8	129.7	9.54	118.4	10.0	125.0	94.75	
3	M-3	3	8	124.9	10.4	113.1	10.0	125.0	90.51	
4	M-3	4	8	129.5	10.06	117.7	10.0	125.0	94.15	
5	M-3	5	8	128.3	11.73	114.8	10.0	125.0	91.85	
6	M-3	6	8	135.2	9.39	123.6	10.0	125.0	98.85	
7	M-3	7	8	127.8	4.52	122.3	7.5	128.5	95.16	NEW IMPORT #2
8	M-3	8	8	133.8	5.64	126.7	7.5	128.5	98.58	
9	M-3	9	8	130.3	6.24	122.6	7.5	128.5	95.41	
10	M-3	10	8	130.7	5.69	123.6	7.5	128.5	96.21	

TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JACK FEE	TESTED BY	CM	GAUGE NO.	M89058848	STD. DENSITY COUNT	16226
PROJECT NO.	00-265	DATE	11-15-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	1.02
PROJECT LOCATION	SANTA FE SPRINGS, CA	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	11125
TEST MATERIAL	GEN BACKFILL	DATE				Xi RATIO	1.05

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
14	M-9	14	8	127.3	9.84	115.9	9.0	127.0	91.26	

TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JACK FEE	TESTED BY	CM	GAUGE NO.	M89058848	STD. DENSITY COUNT	16148
PROJECT NO.	00-265	DATE	11-14-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	.97
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	11119
TEST MATERIAL	GEN BACKFILL	DATE				Xi RATIO	1.03

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (in.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
7	M-9	7	8	131.4	9.09	120.5	8.0	130.0	92.66	
8	M-9	8	8	134.2	9.93	122.1	8.0	130.0	93.90	
9	M-9	9	8	132.9	9.82	121.0	8.0	130.0	93.08	
10	M-9	10	8	133.8	9.31	122.4	8.0	130.0	94.17	
11	M-9	11	8	134.4	10.67	121.5	8.0	130.0	93.43	
12	M-9	12	8	129.2	9.82	117.6	8.0	130.0	90.49	
13	M-9	13	8	131.1	9.47	119.7	8.0	130.0	92.10	

TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JACK FEE	TESTED BY	CM	GAUGE NO.	M89058848	STD. DENSITY COUNT	16121
PROJECT NO.	00-265	DATE	11-13-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	.97
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	11073
TEST MATERIAL	GEN BACKFILL	DATE				Xi RATIO	1.02

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
1	M-2	1	8	134.6	10.16	122.1	8.0	130.0	93.96	
2	M-2	2	8	134.3	10.16	121.9	8.0	130.0	93.80	
3	M-2	3	8	126.8	9.87	115.4	9.0	127.0	90.90	
1	M-9	1	8	126.9	7.46	118.1	9.0	127.0	92.99	
2	M-9	2	8	128.3	8.74	118.0	9.0	127.0	92.88	
3	M-9	3	8	129.6	8.16	119.9	9.0	127.0	94.39	
4	M-9	4	8	131.1	9.06	120.2	8.0	130.0	92.45	
5	M-9	5	8	129.1	7.57	120.1	8.0	130.0	92.55	
6	M-9	6	8	131.0	7.65	121.7	8.0	130.0	93.63	

TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JALK FEE	TESTED BY	C.M.	GAUGE NO.	M89058848	STD. DENSITY COUNT	16211
PROJECT NO.	00-265	DATE	11-10-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	1.06
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	10908
TEST MATERIAL	GEN. BACKFILL	DATE				Xi RATIO	.99

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (in.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
3	M-1	3	8	133.4	9.79	121.5	8.0	130.0	93.5	
4	M-1	4	8	130.9	9.47	119.6	8.0	130.0	92.0	
5	M-1	5	8	130.7	9.69	119.2	8.0	130.0	91.7	
6	M-1	6	8	136.6	11.06	123.0	8.0	130.0	94.60	
7	M-1	7	8	131.9	9.34	120.6	8.0	130.0	92.78	
8	M-1	8	8	135.2	11.22	121.6	8.0	130.0	93.52	
9	M-1	9	8.	132.2	10.65	119.4	8.0	130.0	91.89	

TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JALK FEE	TESTED BY	H. Andrade	GAUGE NO.	M89058848	STD. DENSITY COUNT	16197
PROJECT NO.	00-265	DATE	11/9/00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	0.89
PROJECT LOCATION	Santa Fe Springs, CA	CHECKED BY		REQUIRED % COMPACTION	90	STD. MOISTURE COUNT	10782
TEST MATERIAL	Onsite	DATE				Xi RATIO	0.95

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
13	SB49 Trench (west end)	1	8	134.5	8.55	123.9	8	130	95.33	Pass (7' Below grade)
14		2		128.3	7.85	118.9			91.50	Pass (6.5')
15		3		133.4	6.95	124.7			95.96	Pass (5.5')
16		4		132.8	7.79	123.2			94.75	Pass (4.5')
17		5		134.3	8.01	124.4			95.67	Pass (4')
18		6		134.6	7.92	124.7			95.93	Pass (3')
1	M-7	1	8	130.0	8.87	119.5	8	130	91.89	Pass (9' Below grade)
2		2		129.8	8.40	119.7			92.11	Pass (8')
3		3		130.6	7.81	121.1			93.16	Pass (6.5)
4		4		130.9	8.67	120.6			92.75	Pass (5.5)
5		5		131.9	7.90	122.3			94.06	Pass (4.5)
6		6		130.6	6.24	122.9			94.56	Pass (3.5)
7		7		131.7	6.67	123.4			94.94	Pass (2.5)
1	M-1	1	8	132.1	11.95	118.0	8	130	90.76	Pass (9' Below grade)
2		2		132.6	11.33	119.1			91.59	Pass (8')

TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JALK FEE	TESTED BY	A. Andrusker	GAUGE NO.	M89058848	STD. DENSITY COUNT	16123
PROJECT NO.	00-265	DATE	11/8/00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	0.87
PROJECT LOCATION	Santa Fe Springs, CA	CHECKED BY		REQUIRED % COMPACTION	90	STD. MOISTURE COUNT	10993
TEST MATERIAL	Onsite	DATE				Xi RATIO	1.01

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
1	SB-49 Trench (east end)	1	8	119.6	8.96	109.8	9	127	86.45	Failed (7' Below grade)
1B		1		133.3	11.0	120.1			94.56	Pass (7' Below grade)
2		1		125.3	9.01	114.9			90.48	Pass (9')
3		2		133.8	9.17	122.5			96.48	Pass (6)
4		2		125.8	9.53	114.9			90.44	Pass (8)
5		3		126.9	8.59	116.9			92.05	Pass (5)
6		4		128.4	8.96	117.9			92.80	Pass (4)
7		4		125.2	9.10	114.8			90.39	Pass (6.5)
8		5		132.6	7.8	123.0	8	130	94.65	Pass (3)
9 ~~8B~~		5		120.8	9.63	110.2			84.79	Fail (5)
9B		5		131.2	8.06	121.5			93.43	Pass (5)
10		6		134.3	8.85	123.3			94.89	Pass (2.5)
11		6		125.5	7.38	116.9			89.94	Pass (4)
12		7		132.5	10.04	120.4			92.64	Pass (3)

APPENDIX E
RISK ASSESSMENT ASSUMPTIONS AND CALCULATIONS

APPENDIX E
RISK ASSESSMENT CALCULATIONS

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1.0 TECHNICAL APPROACH

The technical approach for simulations performed for this risk assessment is described in Section 7.0 in the main body of this report.

2.0 EQUATIONS

Estimates of potential human exposures to environmental contaminants hinge on the concept of determining empirically or estimating mathematically the exposure or dose of chemical received. This dose is expressed in terms of milligrams of chemical per kilogram of body weight per averaged over a period of one day (i.e., mg/kg-day). Once the dose of chemical received has been quantified, the resulting exposure estimate may be compared to acceptable exposure levels (as is the case with exposure to non-carcinogenic chemicals) or multiplied by a quantitative estimate of the chemical's inherent ability to induce cancer (i.e., cancer slope factor) in order to obtain a quantitative estimate of potential "risk".

While the methodologies for evaluating carcinogenic and non-carcinogenic chemicals differ slightly, chemical exposure (or dose) for carcinogenic and non-carcinogenic chemicals is quantified in essentially the same manner. Since exposure to carcinogens is average over a lifetime and exposure to non-carcinogens is averaged over the exposure period, the averaging time differs for carcinogenic and non-carcinogenic dose estimates. The following equation provides a simplified equation for calculating chemical exposure (or dose). The toxicity criteria and exposure parameters used in the assessment are presented in Tables E-5 and E-6.

$$Dose = \frac{C * ER * EF * ED}{BW * AT} \qquad \textit{(Equation 1)}$$

where,
Dose = Chemical exposure (mg/kg-day)
C = Concentration of chemical in matrix (mass of chemical/unit measure of matrix)
ER = Exposure rate (units/day)
EF = exposure frequency (days/yr)
ED = exposure duration (yr)
BW = body weight (kg)
AT = averaging time (days)
mg = milligrams
kg = kilograms
yr = year

For carcinogens, the dose of chemical received over a lifetime is expressed in terms of mg/kg-day. Since this dose is averaged over the average lifetime of 70 years, this term is often referred to as the Lifetime Average Daily Dose or LADD. A quantitative estimate

of risk is derived by multiplying the LADD by the Cancer Slope Factor (CSF). As the CSF is expressed in terms of $(mg/kg\text{-}day)^{-1}$, the resulting incremental cancer risk estimate is unitless.

$$Risk = LADD * CSF \qquad \textit{(Equation 2)}$$

Non-carcinogenic exposure is also expressed in terms of mg/kg-day. However, the dose is averaged over the duration of the exposure period rather than the lifetime of the individual and is expressed in terms of Average Daily Dose (ADD). A determination of potential risk is obtained by comparing the dose of chemical received to the Reference Dose. The Reference Dose reflects the dose an individual can receive on a daily basis over an entire lifetime without experiencing adverse health effects. The quantitative evaluation of potential non-carcinogenic health effects is expressed as the Hazard Index according to the expression described below:

$$Hazard\ Index\ (HI) = ADD / RfD \qquad \textit{(Equation 3)}$$

If the dose of chemical received exceeds the Reference Dose, the resulting quotient (a.k.a. Hazard Index or Hazard Quotient) will exceed unity (i.e., 1.0) and the potential for adverse non-carcinogenic health effects is assumed to exist. Conversely, a Hazard Index of less than 1.0 indicates that the potential for adverse, non-carcinogenic health effects is insignificant, even for sensitive sub-populations.

The various simulations presented herein were run using concentration parameters that are interpreted to represent a reasonable maximum exposure scenario. The reasonable maximum concentration is based on a statistical evaluation of the upper confidence interval of the arithmetic or geometric mean for a chemical of potential concern (COPC).

2.1 BASELINE CONDITIONS

Baseline conditions were used only for a human, such as a security guard or construction supervisor, not involved in soil disruption activities such as trenching and grading. Equations 1 through 3 were used to estimate the risk. The outdoor vapor concentration originating from impacted soil to which an individual could potentially be exposed under the baseline conditions was calculated as follows:

$$C_a = \frac{C_s}{VF} \qquad \textit{(Equation 4)}$$

For soil - outdoor air, VF was calculated using the following equation (Table E-9):

$$VF_o = (\frac{Q}{C})\frac{(3.14 * \alpha * T)^{\frac{1}{2}}}{(2 * D_e * P_a * K_{as})} 10^{-4} m^2 / cm^2$$

(Equation 5)

The incremental lifetime cancer risks and hazard indices were derived from the dose calculations described in Equations 1 through 3 for the baseline exposure scenario (Tables E-7 and E-8).

2.2 CONSTRUCTION WORKERS AND POST-DEVELOPMENT EMPLOYEES

2.2.1 Vapor Inhalation

The incremental lifetime cancer risk and hazard index were estimated for outdoor construction workers, future outdoor workers, and future indoor workers on the subject property. Vapor concentrations originating from both impacted soil and groundwater were evaluated.

2.2.1.1 Vapors Originating from Impacted Soil

The outdoor vapor concentrations originating from impacted soil to which construction workers potentially could be exposed and the indoor vapor concentrations to which future onsite employees could potentially be exposed were calculated as follows:

$$C_a = \frac{C_s}{VF}$$

(Equation 6)

where
C_a = concentration in air (mg/m^3)
C_s = concentration in soil (mg/kg)
VF = volatilization factor (m^3/kg)
m = meters

The outdoor vapor concentrations originating from impacted soil to which outdoor employees potentially will be exposed were calculated as follows:

$$C_a = \frac{C_s}{VF} * AF$$

(Equation 7)

where
AF = attenuation factor (unitless)

Note that an AF is included for future outdoor employees because the outdoor VF parameter for outdoor exposures does not include an AF parameter. Since the majority of the subject site will be paved following construction activities, the AF was included.

For soil - outdoor air, VF was calculated using the following equation (Table E-9):

$$VF_o = (\frac{Q}{C})\frac{(3.14 * \alpha * T)^{\frac{1}{2}}}{(2 * D_e * P_a * K_{as})} 10^{-4} m^2 / cm^2 \qquad \textit{(Equation 8)}$$

For soil - indoor air, VF was calculated using the following equation (Table E-10):

$$VF_i = \frac{VR}{(A * AF)} \frac{(3.14 * \alpha * T)^{\frac{1}{2}}}{(2 * D_e * P_a * K_{as} 10^{-3} kg / g)} \qquad \textit{(Equation 9)}$$

where,

$$\square = \frac{D_{ei} * P_a}{P_a + [(PD)(1 - P_a) / K_{as}]}$$

$$D_e = D_i (P_a^{3.33} / P_t^2)$$

$$P_a = P_t - wPD$$

$$BD = (1 - P_t)PD$$

$$K_{as} = (H / K_d)$$

$$K_d = K_{oc} f_{oc}$$

VR = ventilation rate (m^3/s)
A = area of contamination (cm^2)
AF = attenuation factor (dimensionless)
VF = Volatilization factor (m^3/kg)
Q/C = Inverse of the mean concentration at the center of an 8 acre source.
(43.585 g/m^2 - s per kg/m^3, EPA, 1996)
T = exposure interval (s)
D_e = effective diffusivity (cm^2/s)
P_a = air filled soil porosity (fraction)
D_i = diffusivity in air (cm^2/s)
Pt = total soil porosity (fraction)
w = soil moisture content (fraction)

BD = bulk density (g/cm^3)
PD = soil particle density (g/cm^3)
K_{as} = soil-air partition coefficient (g-soil/cm^3-air)
H = Henry's Law constant (dimensionless)
K_d = soil-water partition coefficient (cm^3/g)
K_{oc} = soil organic carbon/water partition coefficient (cm^3/g)
f_{oc} = fraction organic carbon content (dimensionless)

The incremental lifetime cancer risks and hazard indices were derived from the dose calculations described in Equations 1 through 3 for outdoor construction workers (Tables E-13 and E-14), future outdoor employees (Tables E-17 and E-18), and future indoor employees (Tables E-21 and E-22).

2.2.1.2 Vapors Originating from Impacted Groundwater

The outdoor vapor concentrations originating from impacted groundwater to which construction workers potentially could potentially be exposed and the indoor vapor concentrations which future indoor employees could potentially be exposed were calculated as follows:

$$C_a = \frac{C_w}{VF}$$

(Equation 10)

where
C_w = concentration in groundwater (mg/l)
l = liters

The outdoor vapor concentrations originating from impacted groundwater to which future outdoor employees could potentially be exposed were calculated as follows:

$$C_a = \frac{C_w}{VF} * AF$$

(Equation 11)

Note that a slab attenuation factor (AF) is included for future outdoor employees because the outdoor volatilization factor (VF) parameter for outdoor exposures does not include an AF parameter. Because the vast majority of the subject property will be paved after development, the AF was included.

For the vapor flux from groundwater to outdoor air, VF was calculated using the following equation (Table E-11):

$$VF_o = (\frac{Q}{C})\frac{L}{(H*1000\frac{l}{m^3}*D_e)}$$ *(Equation 12)*

For the vapor flux from groundwater to indoor air, VF was calculated using the following equation (Table E-12)

$$VF_i = \frac{VR}{(A*AF)}\frac{L}{(H*1000\frac{l}{m^3}*D_e)}$$ *(Equation 13)*

where:
Q/C = inverse of the mean concentration at center of source (m/hr)
L = depth to contaminated groundwater

The incremental lifetime cancer risks and hazard indices were derived from the dose calculations described in Equations 1 through 3 for construction workers (Tables E-15 and E-16), future outdoor employees (Tables E-19 and E-20), and future indoor employees (Tables E-23 and E-24).

2.2.2 Particulate Emissions

The incremental lifetime cancer risk and hazard index were estimated for outdoor construction workers.

The particulate emission factor was calculated as follows (Table E-25):

$$PEF = \frac{(LS*WS*MH*3600\frac{s}{hr})}{A}*\frac{1000\frac{g}{kg}}{0.036*(1-G)*(\frac{U_m}{U_t})^3*F(x)}$$ *(Equation 14)*

where,
PEF = particulate emission factor (m^3/kg)
LS = width of contaminated area (m)
WS = wind speed in mixing zone (m/s)
MH = diffusion height (m)
A = area of contamination (m^2)
0.036 = respirable fraction (g/m^2-hr)
G = fraction of vegetative cover (unitless)
U_m = mean annual wind speed (m/s)
U_t = equivalent threshold value of wind speed at 10 m (m/s)

F(x) = function dependent on U_m/U_t (unitless)

The incremental lifetime cancer risk (Table E-26) and hazard index (Table E-27) for exposure to chemicals present in fugitive dust were calculated using Equations 1 through 3, respectively. The chemical dose was calculated using the following equation:

$$Dose = \frac{Cs * IR * ET * EF * ED * (1/PEF)}{BW * AT} \qquad \textit{(Equation 15)}$$

where,
Dose = Chemical intake (mg/kg-day)
Cs = concentration in soil (mg/kg)
IR = inhalation rate (m^3/hour)
ET = exposure time (hr/day)
EF = exposure frequency (days/yr)
ED = exposure duration (yr)
PEF = Particulate emission factor (m^3/kg)
BW = body weight (kg)
AT = averaging time (days)

2.2.3 Ingestion of Soil

The incremental lifetime cancer risk and hazard index were estimated for construction workers from the following overview of the dose calculation (Tables E-28 and E-29):

$$Dose = \frac{Cs * 10^{-6} kg/mg * EF * IR * ED}{AT * BW} \qquad \textit{(Equation 16)}$$

where,
Cs = Concentration of chemical in soil (mg/kg)
IR = Soil ingestion rate (mg/day)
EF = exposure frequency (days/yr)
ED = exposure duration (yr)
AT = averaging time (days)
BW = body weight (kg)

2.2.4 Dermal Contact with Soil

The incremental lifetime cancer risk and hazard index were estimated for construction workers from the following dose calculation (Tables E-30 and E-31).

$$Dose = \frac{Cs * SA * AF * AC * 10^{-6}\, kg/mg * EF * ED}{AT * BW} \qquad \textit{(Equation 17)}$$

where,
Cs = Concentration of chemical in soil (mg/kg)
SA = Surface area of exposed skin (cm^2)
AF = Soil/Skin adherence factor (mg soil/cm^2 skin-day)
AC = Absorption coefficient for chemical across dermis (unitless)
EF = exposure frequency (days/yr)
ED = exposure duration (yr)
AT = averaging time (days)
BW = Body weight (kg)
yr = year

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
GP-25	6/18/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-25	6/18/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-25	6/18/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0036	-5.63	<0.002	-6.91	0.0038	-5.57	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-25	6/18/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-25	6/18/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0052	-5.26	<0.002	-6.91	0.025	-3.69	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0043	-5.45	<0.002	-6.91	0.035	-3.35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.0021	-6.17	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0028	-5.88	<0.002	-6.91	0.028	-3.58	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.0036	-5.63	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	35	<0.25	-2.08	<0.25	-2.08	<0.5	-1.39	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
GP-32	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.0037	-5.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	19.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.005	-5.30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	35	<0.013	-5.04	<0.013	-5.04	<0.025	-4.38	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-35	6/20/97	15	<0.25	-2.08	<0.25	-2.08	<0.5	-1.39	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.25	-2.08	<0.1	-3.00
GP-35	6/20/97	20	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.002	-6.91	<0.002	-6.91	0.0061	-5.10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-35	6/20/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-35	6/20/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-35	6/20/97	35	<0.013	-5.04	<0.013	-5.04	<0.025	-4.38	<0.005	-5.99	<0.005	-5.99	0.0058	-5.15	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-36	6/20/97	10	<0.025	-4.38	<0.025	-4.38	<0.05	-3.69	0.01	-4.61	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-36	6/20/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-36	6/20/97	19.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-36	6/20/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-36	6/20/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-36	6/20/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-37	6/20/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-37	6/20/97	16.5	0.029	-3.54	<0.005	-5.99	<0.02	-4.61	0.0034	-5.68	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-37	6/20/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-37	6/20/97	25	<0.013	-5.04	<0.013	-5.04	<0.025	-4.38	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-37	6/20/97	30	<0.013	-5.04	<0.013	-5.04	<0.025	-4.38	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-38	6/23/97	17	<0.005	-5.99	<0.01	-5.30	0.035	-3.35	<0.002	-6.91	<0.002	-6.91	0.0032	-5.74	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-38	6/23/97	20	<0.005	-5.99	<0.005	-5.99	0.023	-3.77	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-38	6/23/97	25	<0.005	-5.99	<0.005	-5.99	0.024	-3.73	<0.002	-6.91	<0.002	-6.91	0.0055	-5.20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-38	6/23/97	30	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	5	<0.005	-5.99	<0.005	-5.99	0.025	-3.69	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
GP-39	6/23/97	25	<0.005	-5.99	<0.005	-5.99	0.026	-3.65	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	30	<0.005	-5.99	<0.005	-5.99	0.034	-3.38	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	35	<0.02	-4.61	<0.1	-3.00	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
GP-40	6/23/97	15	<0.05	-3.69	<0.05	-3.69	<0.1	-3.00	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
GP-40	6/23/97	20	<0.005	-5.99	<0.005	-5.99	0.032	-3.44	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-40	6/23/97	25	<0.025	-4.38	<0.025	-4.38	<0.05	-3.69	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-40	6/23/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-40	6/23/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	20	<0.005	-5.99	<0.005	-5.99	0.013	-4.34	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	30	<0.005	-5.99	<0.005	-5.99	0.032	-3.44	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	5	<0.005	-5.99	<0.005	-5.99	0.021	-3.86	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-44	6/24/97	15	<0.025	-4.38	<0.025	-4.38	<0.02	-4.61	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-44	6/24/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-44	6/24/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.002	-6.21	<0.002	-6.91	0.0024	-6.03	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-44	6/24/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-45	6/24/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-45	6/24/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-45	6/24/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-45	6/24/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-46	6/24/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-46	6/24/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-46	6/24/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-46	6/24/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-46	6/24/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	6.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	21	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	26	<0.05	-3.69	<0.05	-3.69	<0.2	-2.30	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
HS-1	7/13/97	31	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.0037	-5.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	41.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	46	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
HS-1	7/13/97	51	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	61	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	6.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.0022	-6.12	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	11	<0.013	-5.04	<0.013	-5.04	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	0.015	-4.20	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	21	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.0038	-5.57	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	26	<0.025	-4.38	<0.025	-4.38	<0.1	-3.00	<0.01	-5.30	<0.01	-5.30	0.047	-3.06	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-2	7/12/97	31	<0.05	-3.69	<0.05	-3.69	<0.2	-2.30	<0.02	-4.61	<0.02	-4.61	0.064	-2.75	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
HS-2	7/12/97	36.5	<0.025	-4.38	<0.025	-4.38	<0.1	-3.00	<0.01	-5.30	<0.01	-5.30	0.014	-4.27	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-2	7/12/97	41.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	46	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	51.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	56	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	61	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-3	7/12/97	16	<1	-0.69	<1	-0.69	<4	0.69	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61
HS-3	7/12/97	21	<0.025	-4.38	<0.025	-4.38	<0.1	-3.00	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-3	7/12/97	26	<0.05	-3.69	<0.05	-3.69	<0.2	-2.30	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
HS-3	7/12/97	31	<0.05	-3.69	<0.05	-3.69	<0.2	-2.30	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
HS-3	7/12/97	36	<0.01	-5.30	<0.01	-5.30	<0.04	-3.91	<0.004	-6.21	<0.004	-6.21	0.0065	-5.04	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21
HS-3	7/12/97	41	<0.01	-5.30	<0.01	-5.30	<0.04	-3.91	<0.004	-6.21	<0.004	-6.21	0.0041	-5.50	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21
HS-3	7/12/97	46	<0.005	-5.99	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-3	7/12/97	51	<0.005	-5.99	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-3	7/12/97	56	<0.005	-5.99	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	0.0028	-5.88	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-3	7/12/97	61	<0.005	-5.99	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	0.0075	-4.89	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	11	0.0091	-4.70	<0.005	-5.99	<0.02	-4.61	0.0053	-5.24	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0033	-5.71	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	21	0.0086	-4.76	<0.005	-5.99	<0.02	-4.61	0.0061	-5.10	<0.002	-6.91	0.0022	-6.12	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	26	0.016	-4.14	<0.005	-5.99	<0.02	-4.61	0.013	-4.34	<0.002	-6.91	0.0075	-4.89	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	31	0.0094	-4.67	<0.005	-5.99	<0.02	-4.61	0.008	-4.83	<0.002	-6.91	0.0069	-4.98	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	36	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0023	-6.07	<0.002	-6.91	0.0029	-5.84	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	41	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0059	-5.13	<0.002	-6.91	0.013	-4.34	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91
HS-4	7/12/97	46	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91
HS-4	7/12/97	51	<0.01	-5.30	<0.01	-5.30	<0.04	-3.91	<0.004	-6.21	<0.004	-6.21	0.0066	-5.02	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21
HS-4	7/12/97	56	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	61	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-5	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-5	7/13/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-5	7/13/97	21	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-6	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-6	7/13/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-7	7/13/97	6	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-7	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-7	7/13/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-7	7/13/97	21.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-8	7/13/97	6	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-8	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
HS-8	7/13/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-9	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-9	7/13/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
SB48	8/28/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB50	8/29/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB51	8/29/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB52	8/29/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB67	8/31/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB68	8/31/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB70	8/31/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB71	8/31/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
05SB76	9/1/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
06SB77	9/1/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
07SB78	9/1/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
08SB79	9/1/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB81	9/1/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB82	9/4/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB83	9/4/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB84	9/4/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB85	9/4/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB86	9/6/00		<0.01	-5.30	0.008	-4.83	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB87	9/6/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB88-B	9/6/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	0.038	-3.27	<0.005	-5.99	0.17	-1.77	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB89-WW	9/6/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	0.019	-3.96	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-2	12/21/95	5																		
MH-2	12/21/95	10																		
MH-4	12/21/95	5																		
MH-4	12/21/95	10																		
MH-4	12/21/95	20																		
MH-4	12/21/95	30																		
MH-4	12/21/95	40																		
MH-5	12/21/95	5																		
MH-5	12/21/95	10																		
MH-6	12/21/95	5																		
MH-6	12/21/95	10																		
Cell 71	12/19/95	1																		
Cell 59	12/19/95	1																		
Cell 76	12/19/95	1																		
Cell 80	12/19/95	1																		
Cell 57	12/19/95	1																		
Cell 64	12/19/95	1																		
Cell 55	12/19/95	1																		
Cell 27	12/19/95	1																		
Cell 46	12/19/95	1																		
Cell 25	12/19/95	1																		
Cell 2	12/19/95	1																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
Cell 30	12/19/95	1																		
Cell 43	12/19/95	1																		
Cell 21	12/19/95	1																		
Cell 6	12/19/95	1																		
Cell 12	12/19/95	1																		
Cell 15	12/19/95	1																		
Cell 17	12/19/95	1																		
Cell 40	12/19/95	1																		
Cell 4	12/19/95	1																		
MH-4-4	12/22/95	20	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-4-5	12/22/95	30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-4-6	12/22/95	40	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-2-1	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-2-2	12/21/95	10	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-7-1	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-7-2	12/21/95	10	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-8-1	12/21/95	1	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-8-2	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-9-1	12/21/95	1	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-9-2	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-10-1	12/21/95	1	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-10-2	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-10-3	12/21/95	10	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-11-1	12/21/95	1	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-11-2	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-11-3	12/21/95	10	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-19	12/21/95	5	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	10	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/22/95	5	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/22/95	10	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/22/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/22/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/22/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/27/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/27/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.024	-3.73	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/27/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	5	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	10	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
GP-21	12/27/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.04	-3.22	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	5	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	10	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.019	-3.96	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.041	-3.19	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.024	-3.73	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/27/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/27/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/28/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/28/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.01	-4.61	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/28/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/28/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	5	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	10	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	0.16	-1.83	<0.01	-5.30	0.18	-1.71	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	25	<0.2	-2.30	<0.1	-3.00	<2.5	0.22	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00
MB-1	12/29/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.022	-3.82	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	45	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	50	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	55	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	59	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.076	-2.58	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.034	-3.38	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	45	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	50	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	55	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	59	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
T9B-1		5					0.007	-4.96												
SB-1		26																		
SB-3		16											15	2.71						
SB-3		26																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
SB-22		11																		
SB-22		26																		
SB-27		15					2													
SB-27		30					0.03													
GP-1		20																		
GP-1		25																		
GP-1		30																		
GP-2		5																		
GP-2		10											0.076	-2.58						
GP-2		15											0.41	-0.89						
GP-2		20																		
GP-2		25																		
GP-2		30											0.023	-3.77						
GP-3		20																		
GP-3		25																		
GP-3		30																		
GP-4		15																		
GP-4		20																		
GP-4		25											0.018	-4.02						
GP-4		30																		
GP-5		15																		
GP-5		20																		
GP-5		25											0.098	-2.32						
GP-5		30																		
GP-6		5											0.055	-2.90						
GP-6		10																		
GP-6		15							13	2.56			2.7	0.99						
GP-6		20																		
GP-6		25											0.03	-3.51						
GP-6		30																		
GP-7		5											0.059	-2.83						
GP-7		10											0.018	-4.02						
GP-7		15																		
GP-7		20																		
GP-7		25																		
GP-7		30							0.014	-4.27			0.23	-1.47						
GP-8		20																		
GP-8		25											0.024	-3.73						
GP-8		30																		
GP-9		5							0.048	-3.04			5.3	1.67						
GP-9		15																		
GP-9		25																		
GP-9		30							0.039	-3.24			0.014	-4.27						
GP-10		5																		
GP-10		15											0.042	-3.17						
GP-10		25																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
GP-10		30							0.31	-1.17			0.032	-3.44						
GP-11		5																		
GP-11		15																		
GP-11		25											0.019	-3.96						
GP-11		30							0.014	-4.27										
GP-12		20																		
GP-12		30											0.027	-3.61						
GP-12		38																		
GP-13		5																		
GP-13		15																		
GP-13		25											0.021	-3.86						
GP-13		30							0.21	-1.56			0.026	-3.65						
GP-14		5																		
GP-14		15																		
GP-14		25																		
GP-14		30																		
GP-15		20																		
GP-15		30																		
GP-15		48																		
GP-16		10																		
GP-16		20																		
GP-16		30							0.049	-3.02			0.004	-5.52						
GP-17		15																		
GP-17		25																		
GP-17		30																		
GP-18		5																		
GP-18		15																		
GP-18		25											0.027	-3.61						
GP-18		30																		
JF-M1-S37-EW-8	11/2/00	8	<0.001	-7.60	<0.01	-5.30	0.00082	-7.11	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S38-B-14	11/2/00	14	<0.001	-7.60	<0.01	-5.30	0.0025	-5.99	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S39-SW-8	11/2/00	8	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S40-WW-8	11/2/00	8	<0.001	-7.60	<0.01	-5.30	0.0013	-6.65	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M2-S16-B-10	10/25/00	10	<0.001	-7.60	<0.01	-5.30	0.00098	-6.93	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S33-EW-10	10/30/00	10	<0.001	-7.60	<0.01	-5.30	0.0011	-6.81	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S34-WW-14	10/31/00	14	<0.001	-7.60	<0.01	-5.30	0.00099	-6.92	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S35-NW-13	10/31/00	13	<0.001	-7.60	<0.01	-5.30	0.001	-6.91	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S36-SW-13	10/31/00	13	<0.001	-7.60	<0.01	-5.30	0.00087	-7.05	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S22-EW-8	10/25/00	8	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S23-SW-8	10/25/00	8	<0.001	-7.60	<0.01	-5.30	0.0013	-6.65	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S24-B-13	10/25/00	13	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S25-WW-8	10/25/00	8	<0.001	-7.60	<0.01	-5.30	0.0011	-6.81	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S26-NW-8	10/25/00	8	<0.001	-7.60	<0.01	-5.30	0.00099	-6.92	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S27-B-13	10/26/00	13	<0.001	-7.60	<0.01	-5.30	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S28-WW-10	10/26/00	13	<0.1	-3.00	<1	-0.69	<1	-0.69	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00
JF-M8-S30-SW-10	10/30/00	10	<0.001	-7.60	<0.01	-5.30	0.0028	-5.88	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
JF-M8-S31-EW-10	10/30/00	10	<0.001	-7.60	<0.01	-5.30	0.0018	-6.32	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S32-NW-10	10/30/00	10	<0.001	-7.60	<0.01	-5.30	0.0014	-6.57	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S17-WW-5	10/25/00	6	<0.001	-7.60	<0.01	-5.30	0.001	-6.91	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S18-NW-5	10/25/00	5	<0.001	-7.60	<0.01	-5.30	0.001	-6.91	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S20-SW-5	10/25/00	5	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S21-EW-5	10/25/00	5	<0.001	-7.60	<0.01	-5.30	0.00057	-7.47	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S10B-B-8	11/2/00	8	<0.001	-7.60	<0.01	-5.30	0.0011	-6.81	<0.001	-7.60	<0.001	-7.60	0.00089	-7.02	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S12B-NW-6	11/2/00	6	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S13-B-6	10/24/00	6	<0.001	-7.60	<0.01	-5.30	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S15-NW-5	10/24/00	5	<0.001	-7.60	<0.01	-5.30	0.0011	-6.81	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S2-NW-5	10/24/00	5	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S3-B -6	10/24/00	6	<0.001	-7.60	<0.01	-5.30	0.0013	-6.65	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S4B-B-13	10/26/00	13	<0.001	-7.60	<0.01	-5.30	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	0.0024	-6.03	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S6-NW-5	10/24/00	5	0.00078	-7.16	<0.01	-5.30	0.0014	-6.57	<0.001	-7.60	<0.001	-7.60	0.0053	-5.24	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S7B-B-12	11/1/00	12	<0.001	-7.60	<0.01	-5.30	0.0011	-6.81	<0.001	-7.60	0.0015	-6.50	0.0065	-5.04	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S9B-NW-6	11/1/00	6	<0.001	-7.60	<0.01	-5.30	0.0013	-6.65	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
EX1-11-6	6/11/98	6	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-7-11.5	6/10/98	11.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-5-5.5	6/10/98	5.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-3-5.5	6/9/98	5.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-2-5.5	6/9/98	5.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-1-5.5	6/9/98	5.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-7-6	6/9/98	6	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-8-6	6/9/98	6	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-9-6.5	6/9/98	6.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6	6/11/98	6	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	0.037	-3.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6.5	6/11/98	6.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	0.01	-4.61	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-10-15	6/9/98	15	0.046	-3.08	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-11-15	6/9/98	15	0.039	-3.24	<0.05	-3.69	<0.05	-3.69	0.012	-4.42	<0.005	-5.99	<0.005	-5.99	0.009	-4.71	0.009	-4.71	0.107	-2.23
EX2-26-15	6/22/98	15	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	28.1	3.34	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-4-7	6/9/98	7	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.0052	-5.26	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-5-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX3-1-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX3-2-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX3-3-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX3-4-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-6-9.5	6/9/98	9.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-12-15	6/9/98	15	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-13-12.5	6/9/98	12.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-13-12.5	6/9/98	12.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-8-11.5	6/9/98	11.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-9-11.5	6/9/98	11.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-10-11.5	6/9/98	11.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-18-11.5	6/9/98	11.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.0066	-5.02	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-22-11	6/9/98	11.0	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.011	-4.51	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-24-6.5	6/9/98	6.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
EX2-25-6.5	6/9/98	6.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.028	-3.58	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-26-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.035	-3.35	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
Count including ND values (n):			351	351	351	351	354	354	359	359	351	351	374	374	351	351	351	351	351	351
Degrees of Freedom (n-1):			350	350	350	350	353	353	358	358	350	350	373	373	350	350	350	350	350	350
Arithmetic Mean of LT data:			NA	-5.64	NA	-5.49	NA	-4.37	NA	-6.16	NA	-6.35	NA	-5.86	NA	-6.36	NA	-6.35	NA	-6.35
Arithmetic Mean:			0.007	NA	0.009	NA	0.048	NA	0.042	NA	0.003	NA	0.146	NA	0.003	NA	0.004	NA	0.004	NA
[1]Variance of LT data(s^2):			NA	0.96	NA	0.58	NA	2.14	NA	1.37	NA	0.76	NA	2.37	NA	0.78	NA	0.80	NA	0.82
[1]Variance (s^2):			0.0008	NA	0.0015	NA	0.0288	NA	0.4709	NA	0.0001	NA	2.7946	NA	0.0001	NA	0.0002	NA	0.0002	NA
[1]Standard deviation of LT data (s):			NA	0.98	NA	0.76	NA	1.46	NA	1.17	NA	0.87	NA	1.54	NA	0.88	NA	0.89	NA	0.90
[1]Standard deviation (s):			0.0289	NA	0.0388	NA	0.1696	NA	0.6862	NA	0.0118	NA	1.6717	NA	0.0118	NA	0.0133	NA	0.0131	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	1.7	NA	1.649	NA	1.856	NA	1.739	NA	1.670	NA	1.863	NA	1.672	NA	1.675	NA	1.678
Student's t value ($t_{0.1}$):			1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA
95% upper confidence level (UCL):			0.010	0.0063	0.012	0.0059	0.063	0.0423	0.102	0.0047	0.004	0.0028	0.288	0.0108	0.004	0.0028	0.0047	0.0028	0.005	0.0028
[2]Minimum value:			0.0005	NA	0.0025	NA	0.00057	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA
Maximum value:			0.046	NA	0.008	NA	2	NA	13	NA	0.0015	NA	28.1	NA	0.009	NA	0.009	NA	0.107	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data

[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
GP-25	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-25	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-25	6/18/97	25	0.0057	-5.17	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-25	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-25	6/18/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	25	0.017	-4.07	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	35	0.054	-2.92	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	35	0.043	-3.15	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	25	0.0029	-5.84	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	20	0.0022	-6.12	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	25	0.0047	-5.36	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	30	0.0036	-5.63	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	10	0.0024	-6.03	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	15	0.012	-4.42	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	20	0.0038	-5.57	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	25	0.043	-3.15	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	30	0.0036	-5.63	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	35	0.057	-2.86	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	5	0.0035	-5.65	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	15	0.027	-3.61	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	20	0.0035	-5.65	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	25	0.019	-3.96	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	30	0.024	-3.73	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	35	1.4	0.34	<0.1	-3.00	<0.1	-3.00			<0.1	-3.00			<0.25	-2.08	<0.25	-2.08	<0.25	-2.08

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
GP-32	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	10	0.0049	-5.32	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	15	0.018	-4.02	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	20	0.0046	-5.38	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	25	0.059	-2.83	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	30	0.0033	-5.71	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	35	0.18	-1.71	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	5	0.0025	-5.99	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	10	0.0026	-5.95	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	15	0.023	-3.77	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	19.5	0.0029	-5.84	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	25	0.02	-3.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	30	0.022	-3.82	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	35	0.17	-1.77	<0.002	-6.91	<0.002	-6.91			0.0022	-6.12			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	35	0.01	-4.61	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.013	-5.04	<0.013	-5.04	<0.013	-5.04
GP-35	6/20/97	15	0.99	-0.01	<0.1	-3.00	<0.1	-3.00			<0.1	-3.00			<0.25	-2.08	<0.25	-2.08	<0.25	-2.08
GP-35	6/20/97	20	0.021	-3.86	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-35	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-35	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-35	6/20/97	35	0.0067	-5.01	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.013	-5.04	<0.013	-5.04	<0.013	-5.04
GP-36	6/20/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	10	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	0.24	-1.43	0.032	-3.44
GP-36	6/20/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	19.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-37	6/20/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-37	6/20/97	16.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			0.0067	-5.01			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-37	6/20/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-37	6/20/97	25	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.013	-5.04	<0.013	-5.04	<0.013	-5.04
GP-37	6/20/97	30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.013	-5.04	<0.013	-5.04	<0.013	-5.04
GP-38	6/23/97	17	0.0051	-5.28	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-38	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-38	6/23/97	25	0.017	-4.07	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-38	6/23/97	30	0.0022	-6.12	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	5	0.0035	-5.65	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	10	0.012	-4.42	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	15	0.047	-3.06	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	20	0.013	-4.34	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
GP-39	6/23/97	25	0.07	-2.66	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	35	0.8	-0.22	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
GP-40	6/23/97	15	0.16	-1.83	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
GP-40	6/23/97	20	0.01	-4.61	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-40	6/23/97	25	0.057	-2.86	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	<0.025	-4.38	<0.025	-4.38
GP-40	6/23/97	30	0.069	-2.67	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-40	6/23/97	35	0.048	-3.04	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	15	0.0069	-4.98	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	25	0.08	-2.53	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	30	0.0026	-5.95	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	25	0.0022	-6.12	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-44	6/24/97	15	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	<0.025	-4.38	<0.025	-4.38
GP-44	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-44	6/24/97	25	0.0035	-5.65	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-44	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-45	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-45	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-45	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-45	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-46	6/24/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-46	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-46	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-46	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-46	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	6.5	0.048	-3.04	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	11	0.089	-2.42	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	21	0.019	-3.96	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	26	0.58	-0.54	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
HS-1	7/13/97	31	0.17	-1.77	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	41.5	0.0038	-5.57	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	46	0.017	-4.07	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
HS-1	7/13/97	51	0.0032	-5.74	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	61	0.012	-4.42	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	6.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	11	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.013	-5.04	<0.013	-5.04	<0.013	-5.04
HS-2	7/12/97	16	0.0039	-5.55	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	21	0.0037	-5.60	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	26	0.055	-2.90	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	<0.025	-4.38	<0.025	-4.38
HS-2	7/12/97	31	0.075	-2.59	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
HS-2	7/12/97	36.5	0.025	-3.69	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	<0.025	-4.38	<0.025	-4.38
HS-2	7/12/97	41.5	0.0026	-5.95	<0.005	-5.99	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	46	0.0031	-5.78	<0.005	-5.99	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	51.5	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	56	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-3	7/12/97	16	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61			0.98	-0.02			<1	-0.69	2.8	1.03	<1	-0.69
HS-3	7/12/97	21	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	<0.025	-4.38	<0.025	-4.38
HS-3	7/12/97	26	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
HS-3	7/12/97	31	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
HS-3	7/12/97	36	0.018	-4.02	<0.004	-6.21	<0.004	-6.21			0.0044	-5.43			<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-3	7/12/97	41	0.0074	-4.91	<0.004	-6.21	<0.004	-6.21			<0.004	-6.21			<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-3	7/12/97	46	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-3	7/12/97	51	0.007	-4.96	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-3	7/12/97	56	0.012	-4.42	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-3	7/12/97	61	0.025	-3.69	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	0.027	-3.61	<0.005	-5.99
HS-4	7/12/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	0.0075	-4.89	<0.005	-5.99
HS-4	7/12/97	21	0.0023	-6.07	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	26	0.0087	-4.74	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	31	0.011	-4.51	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	36	0.0085	-4.77	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	41	0.046	-3.08	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	46	0.0071	-4.95	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	51	0.022	-3.82	<0.004	-6.21	<0.004	-6.21			<0.004	-6.21			<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-4	7/12/97	56	0.004	-5.52	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-5	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-5	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-5	7/13/97	21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-6	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-6	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-7	7/13/97	6	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-7	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-7	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-7	7/13/97	21.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-8	7/13/97	6	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-8	7/13/97	11	0.0035	-5.65	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
HS-8	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-9	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-9	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB48	8/28/00		0.019	-3.96	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB50	8/29/00		0.84	-0.17	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB51	8/29/00		0.065	-2.73	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB52	8/29/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB67	8/31/00		0.023	-3.77	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB68	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB70	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB71	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
05SB76	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
06SB77	9/1/00		7.2	1.97	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
07SB78	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
08SB79	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB81	9/1/00		0.09	-2.41	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB82	9/4/00		0.15	-1.90	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB83	9/4/00		0.33	-1.11	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB84	9/4/00		0.07	-2.66	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB85	9/4/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB86	9/6/00		9.5	2.25	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB87	9/6/00		0.043	-3.15	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB88-B	9/6/00		0.049	-3.02	<0.005	-5.99	<0.005	-5.99			0.023	-3.77			0.024	-3.73	0.13	-2.04	0.013	-4.34
SB89-WW	9/6/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			0.007	-4.96			<0.005	-5.99	0.007	-4.96	0.009	-4.71
MH-2	12/21/95	5																		
MH-2	12/21/95	10																		
MH-4	12/21/95	5									<0.01	-5.30								
MH-4	12/21/95	10									<0.01	-5.30								
MH-4	12/21/95	20																		
MH-4	12/21/95	30																		
MH-4	12/21/95	40																		
MH-5	12/21/95	5									<0.01	-5.30								
MH-5	12/21/95	10									<0.01	-5.30								
MH-6	12/21/95	5									<0.01	-5.30								
MH-6	12/21/95	10									<0.01	-5.30								
Cell 71	12/19/95	1									<0.01	-5.30								
Cell 59	12/19/95	1									<0.01	-5.30								
Cell 76	12/19/95	1									<0.01	-5.30								
Cell 80	12/19/95	1									<0.01	-5.30								
Cell 57	12/19/95	1									<0.01	-5.30								
Cell 64	12/19/95	1									<0.01	-5.30								
Cell 55	12/19/95	1									<0.01	-5.30								
Cell 27	12/19/95	1									<0.01	-5.30								
Cell 46	12/19/95	1									<0.01	-5.30								
Cell 25	12/19/95	1									<0.01	-5.30								
Cell 2	12/19/95	1									<0.01	-5.30								

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
Cell 30	12/19/95	1									<0.01	-5.30								
Cell 43	12/19/95	1									<0.01	-5.30								
Cell 21	12/19/95	1									<0.01	-5.30								
Cell 6	12/19/95	1									<0.01	-5.30								
Cell 12	12/19/95	1									<0.01	-5.30								
Cell 15	12/19/95	1									<0.01	-5.30								
Cell 17	12/19/95	1									<0.01	-5.30								
Cell 40	12/19/95	1									<0.01	-5.30								
Cell 4	12/19/95	1									<0.01	-5.30								
MH-4-4	12/22/95	20	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-4-5	12/22/95	30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-4-6	12/22/95	40	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-2-1	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-2-2	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-7-1	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-7-2	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-8-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-8-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-9-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-9-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-10-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-10-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-10-3	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-11-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-11-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-11-3	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
GP-19	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-19	12/21/95	10	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-19	12/21/95	15	0.075	-2.59	<0.01	-5.30	<0.02	-4.61												
GP-19	12/21/95	20	0.012	-4.42	<0.01	-5.30	<0.02	-4.61												
GP-19	12/21/95	25	0.22	-1.51	<0.01	-5.30	<0.02	-4.61												
GP-19	12/21/95	30	0.078	-2.55	<0.01	-5.30	<0.02	-4.61												
GP-19	12/21/95	35	0.34	-1.08	<0.01	-5.30	<0.02	-4.61												
GP-19	12/21/95	40	0.11	-2.21	<0.01	-5.30	<0.02	-4.61												
GP-20	12/22/95	5	0.055	-2.90	<0.01	-5.30	<0.02	-4.61												
GP-20	12/22/95	10	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-20	12/22/95	15	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-20	12/22/95	20	0.01	-4.61	<0.01	-5.30	<0.02	-4.61												
GP-20	12/22/95	25	0.92	-0.08	<0.01	-5.30	<0.02	-4.61												
GP-20	12/27/95	30	0.48	-0.73	<0.01	-5.30	<0.02	-4.61												
GP-20	12/27/95	35	1	0.00	<0.01	-5.30	<0.02	-4.61												
GP-20	12/27/95	40	0.023	-3.77	<0.01	-5.30	<0.02	-4.61												
GP-21	12/27/95	5	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-21	12/27/95	10	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-21	12/27/95	15	0.02	-3.91	<0.01	-5.30	<0.02	-4.61												
GP-21	12/27/95	20	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
GP-21	12/27/95	25	0.17	-1.77	<0.01	-5.30	<0.02	-4.61												
GP-21	12/27/95	30	0.021	-3.86	<0.01	-5.30	<0.02	-4.61												
GP-21	12/27/95	35	0.56	-0.58	<0.01	-5.30	<0.02	-4.61												
GP-21	12/27/95	40	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	5	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	10	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	15	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	20	0.075	-2.59	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	25	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	30	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	35	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	40	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-23	12/27/95	15	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-23	12/27/95	20	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-23	12/28/95	25	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-23	12/28/95	30	0.021	-3.86	<0.01	-5.30	<0.02	-4.61												
GP-23	12/28/95	35	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-23	12/28/95	40	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	5	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	10	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	15	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	20	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	25	0.023	-3.77	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	30	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	35	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	40	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	25	4.1	1.41	<0.1	-3.00	<0.2	-2.30												
MB-1	12/29/95	30	0.7	-0.36	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	35	2	0.69	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	40	0.17	-1.77	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	45	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	50	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	55	0.055	-2.90	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	59	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	25	0.085	-2.47	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	30	0.26	-1.35	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	35	0.13	-2.04	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	40	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	45	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	50	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	55	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	59	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
T9B-1		5																		
SB-1		26																		
SB-3		16	430	6.06																
SB-3		26																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
SB-22		11																		
SB-22		26																		
SB-27		15																		
SB-27		30																		
GP-1		20	0.51	-0.67																
GP-1		25																		
GP-1		30																		
GP-2		5	0.83	-0.19																
GP-2		10	0.74	-0.30																
GP-2		15	4.1	1.41																
GP-2		20																		
GP-2		25																		
GP-2		30																		
GP-3		20																		
GP-3		25																		
GP-3		30																		
GP-4		15																		
GP-4		20																		
GP-4		25	0.026	-3.65																
GP-4		30																		
GP-5		15																		
GP-5		20																		
GP-5		25	0.092	-2.39																
GP-5		30																		
GP-6		5																		
GP-6		10	0.045	-3.10																
GP-6		15	55	4.01																
GP-6		20	0.022	-3.82																
GP-6		25	0.026	-3.65																
GP-6		30																		
GP-7		5	7	1.95																
GP-7		10	0.14	-1.97																
GP-7		15	0.049	-3.02																
GP-7		20																		
GP-7		25																		
GP-7		30	0.68	-0.39																
GP-8		20																		
GP-8		25	0.022	-3.82																
GP-8		30																		
GP-9		5	2.7	0.99																
GP-9		15																		
GP-9		25																		
GP-9		30	0.026	-3.65																
GP-10		5																		
GP-10		15	3.5	1.25																
GP-10		25																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
GP-10		30	0.18	-1.71																
GP-11		5	1.9	0.64																
GP-11		15	0.055	-2.90																
GP-11		25	0.8	-0.22																
GP-11		30	0.002	-6.21																
GP-12		20	0.016	-4.14																
GP-12		30	0.035	-3.35																
GP-12		38																		
GP-13		5	0.19	-1.66																
GP-13		15																		
GP-13		25	1.7	0.53																
GP-13		30	0.78	-0.25																
GP-14		5																		
GP-14		15																		
GP-14		25	0.036	-3.32																
GP-14		30	0.007	-4.96																
GP-15		20	0.25	-1.39																
GP-15		30	0.43	-0.84																
GP-15		48	0.31	-1.17																
GP-16		10	0.35	-1.05																
GP-16		20	0.021	-3.86																
GP-16		30	0.29	-1.24																
GP-17		15	0.21	-1.56																
GP-17		25	2.9	1.06																
GP-17		30	0.24	-1.43																
GP-18		5																		
GP-18		15	0.029	-3.54																
GP-18		25	1.3	0.26																
GP-18		30	0.032	-3.44																
JF-M1-S37-EW-8	11/2/00	8	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0049	-5.32	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S38-B-14	11/2/00	14	0.059	-2.83	<0.001	-7.60	<0.001	-7.60	0.048	-3.04	0.026	-3.65	0.014	-4.27	0.031	-3.47	0.06	-2.81	0.0052	-5.26
JF-M1-S39-SW-8	11/2/00	8	0.00099	-6.92	<0.001	-7.60	<0.001	-7.60	0.0064	-5.05	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S40-WW-8	11/2/00	8	0.00065	-7.34	<0.001	-7.60	<0.001	-7.60	0.0078	-4.85	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M2-S16-B-10	10/25/00	10	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0054	-5.22	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S33-EW-10	10/30/00	10	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0032	-5.74	<0.001	-7.60	<0.02	-4.61	0.0012	-6.73	0.0029	-5.84	<0.001	-7.60
JF-M3-S34-WW-14	10/31/00	14	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0058	-5.15	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	0.0011	-6.81	<0.001	-7.60
JF-M3-S35-NW-13	10/31/00	13	0.27	-1.31	<0.001	-7.60	<0.001	-7.60	0.012	-4.42	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S36-SW-13	10/31/00	13	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0036	-5.63	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S22-EW-8	10/25/00	8	0.0031	-5.78	<0.001	-7.60	<0.001	-7.60	0.012	-4.42	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S23-SW-8	10/25/00	8	0.046	-3.08	<0.001	-7.60	<0.001	-7.60	0.022	-3.82	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S24-B-13	10/25/00	13	0.0054	-5.22	<0.001	-7.60	<0.001	-7.60	0.0043	-5.45	<0.001	-7.60	<0.02	-4.61	0.002	-6.21	<0.001	-7.60	<0.001	-7.60
JF-M7-S25-WW-8	10/25/00	8	0.0049	-5.32	<0.001	-7.60	<0.001	-7.60	0.023	-3.77	<0.001	-7.60	0.0067	-5.01	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S26-NW-8	10/25/00	8	0.0041	-5.50	<0.001	-7.60	<0.001	-7.60	0.004	-5.52	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S27-B-13	10/26/00	13	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S28-WW-10	10/26/00	13	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<2	0.00	<0.1	-3.00	<2	0.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00
JF-M8-S30-SW-10	10/30/00	10	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.003	-5.81	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
JF-M8-S31-EW-10	10/30/00	10	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0037	-5.60	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S32-NW-10	10/30/00	10	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.02	-3.91	<0.001	-7.60	<0.02	-4.61	0.0046	-5.38	0.069	-2.67	0.0055	-5.20
JF-M9-S17-WW-5	10/25/00	6	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.012	-4.42	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S18-NW-5	10/25/00	5	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.01	-4.61	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S20-SW-5	10/25/00	5	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.015	-4.20	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S21-EW-5	10/25/00	5	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0074	-4.91	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S10B-B-8	11/2/00	8	2.5	0.92	<0.001	-7.60	<0.001	-7.60	0.0064	-5.05	0.0013	-6.65	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S12B-NW-6	11/2/00	6	1.7	0.53	<0.001	-7.60	<0.001	-7.60	0.0058	-5.15	0.00061	-7.40	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S13-B-6	10/24/00	6	1.4	0.34	<0.001	-7.60	<0.001	-7.60	0.14	-1.97	<0.001	-7.60	0.031	-3.47	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S15-NW-5	10/24/00	5	0.15	-1.90	<0.001	-7.60	<0.001	-7.60	0.066	-2.72	<0.001	-7.60	0.013	-4.34	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S2-NW-5	10/24/00	5	0.0055	-5.20	<0.001	-7.60	<0.001	-7.60	0.01	-4.61	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S3-B -6	10/24/00	6	0.0099	-4.62	<0.001	-7.60	<0.001	-7.60	0.012	-4.42	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S4B-B-13	10/26/00	13	1.1	0.10	<0.001	-7.60	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S6-NW-5	10/24/00	5	0.4	-0.92	<0.001	-7.60	<0.001	-7.60	0.024	-3.73	0.0054	-5.22	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S7B-B-12	11/1/00	12	9.8	2.28	0.0012	-6.73	<0.001	-7.60	0.005	-5.30	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S9B-NW-6	11/1/00	6	0.14	-1.97	<0.001	-7.60	<0.001	-7.60	0.0034	-5.68	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
EX1-11-6	6/11/98	6	0.036	-3.32	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-7-11.5	6/10/98	11.5	0.0094	-4.67	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-5-5.5	6/10/98	5.5	0.12	-2.12	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-3-5.5	6/9/98	5.5	0.061	-2.80	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-2-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-1-5.5	6/9/98	5.5	0.016	-4.14	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-7-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-8-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-9-6.5	6/9/98	6.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6	6/11/98	6	0.1	-2.30	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6.5	6/11/98	6.5	0.0062	-5.08	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-10-15	6/9/98	15	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-11-15	6/9/98	15	<0.005	-5.99	<0.005	-5.99	0.016	-4.14	0.382	-0.96	0.023	-3.77	0.086	-2.45	0.009	-4.71	0.008	-4.83	<0.005	-5.99
EX2-26-15	6/22/98	15	308	5.73	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	0.3	-1.20	<0.05	-3.69	<0.005	-5.99	2.3	0.83	<0.005	-5.99
EX2-4-7	6/9/98	7	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX2-5-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX3-1-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX3-2-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX3-3-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX3-4-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX2-6-9.5	6/9/98	9.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX2-12-15	6/9/98	15	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX2-13-12.5	6/9/98	12.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX2-13-12.5	6/9/98	12.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX1-8-11.5	6/9/98	11.5	0.15	-1.90	<0.005	-5.99	<0.005	-5.99												
EX1-9-11.5	6/9/98	11.5	0.054	-2.92	<0.005	-5.99	<0.005	-5.99												
EX1-10-11.5	6/9/98	11.5	0.17	-1.77	<0.005	-5.99	<0.005	-5.99												
EX2-18-11.5	6/9/98	11.5	0.29	-1.24	<0.005	-5.99	<0.005	-5.99												
EX2-22-11	6/9/98	11.0	0.044	-3.12	<0.005	-5.99	<0.005	-5.99												
EX2-24-6.5	6/9/98	6.5	0.0096	-4.65	<0.005	-5.99	<0.005	-5.99												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
EX2-25-6.5	6/9/98	6.5	0.14	-1.97	<0.005	-5.99	<0.005	-5.99												
EX2-26-6	6/9/98	6	0.68	-0.39	<0.005	-5.99	<0.005	-5.99												
Count including ND values (n):			394	394	351	351	351	351	64	64	297	297	64	64	254	254	254	254	254	254
Degrees of Freedom (n-1):			393	393	350	350	350	350	63	63	296	296	63	63	253	253	253	253	253	253
Arithmetic Mean of LT data:			NA	-4.57	NA	-6.35	NA	-6.24	NA	-4.25	NA	-6.45	NA	-4.23	NA	-5.96	NA	-5.88	NA	-5.98
Arithmetic Mean:			2.238	NA	0.003	NA	0.004	NA	0.038	NA	0.007	NA	0.031	NA	0.006	NA	0.026	NA	0.006	NA
[1]Variance of LT data(s^2):			NA	6.07	NA	0.76	NA	1.12	NA	1.00	NA	0.94	NA	0.47	NA	0.82	NA	1.27	NA	0.82
[1]Variance (s^2):			715.51	NA	0.0001	NA	0.0002	NA	0.0171	NA	0.0035	NA	0.0150	NA	0.0011	NA	0.0517	NA	0.0011	NA
[1]Standard deviation of LT data (s):			NA	2.46	NA	0.87	NA	1.06	NA	1.00	NA	0.97	NA	0.69	NA	0.90	NA	1.13	NA	0.91
[1]Standard deviation (s):			26.75	NA	0.0118	NA	0.0129	NA	0.1307	NA	0.0595	NA	0.1226	NA	0.0333	NA	0.2273	NA	0.0333	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	2.098	NA	1.670	NA	1.723	NA	2.457	NA	1.783	NA	2.147	NA	1.896	NA	2.005	NA	1.853
Student's t value ($t_{0.1}$):			1.65	NA	1.65	NA	1.65	NA	1.67	NA	1.65	NA	1.67	NA	1.65	NA	1.65	NA	1.65	NA
95% upper confidence level (UCL):			4.460	0.2780	0.004	0.0028	0.006	0.0038	0.065	0.0320	0.01263	0.0028	0.056	0.0222	0.010	0.0043	0.050	0.0061	0.010	0.0042
[2]Minimum value:			0.0005	NA	0.0005	NA	0.0005	NA	0.003	NA	0.0005	NA	0.0067	NA	0.0005	NA	0.0005	NA	0.0005	NA
Maximum value:			430	NA	0.0012	NA	0.016	NA	0.382	NA	0.98	NA	0.086	NA	0.031	NA	2.8	NA	0.032	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
GP-25	6/18/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-25	6/18/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-25	6/18/97	25			0.021	-3.86	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-25	6/18/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-25	6/18/97	35			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	10			0.012	-4.42	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	15			0.0031	-5.78	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	20			0.004	-5.52	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	25			0.19	-1.66	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	30			0.012	-4.42	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	35			0.13	-2.04	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	10			0.0023	-6.07	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	15			0.0079	-4.84	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	20			0.013	-4.34	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	25			0.024	-3.73	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	30			0.038	-3.27	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	35			0.098	-2.32	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	20			0.0065	-5.04	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	25			0.091	-2.40	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	30			0.018	-4.02	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	25			0.0059	-5.13	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	35			0.032	-3.44	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	35			<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.25	-2.08	<0.1	-3.00	<0.1	-3.00	<0.25	-2.08

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
GP-32	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	35			0.0055	-5.20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	19.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	35			0.0046	-5.38	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	20			0.027	-3.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	30			0.068	-2.69	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	35			0	-2.21	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04
GP-35	6/20/97	15			<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.25	-2.08	<0.1	-3.00	<0.1	-3.00	<0.25	-2.08
GP-35	6/20/97	20			0	-1.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-35	6/20/97	25			0.0097	-4.64	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-35	6/20/97	30			0.051	-2.98	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-35	6/20/97	35			0	-1.66	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04
GP-36	6/20/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-36	6/20/97	10			<0.01	-5.30	<0.01	-5.30	0.012	-4.42	<0.01	-5.30	<0.025	-4.38	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
GP-36	6/20/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-36	6/20/97	19.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-36	6/20/97	25			0.021	-3.86	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-36	6/20/97	30			0.0043	-5.45	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-36	6/20/97	35			0.0028	-5.88	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-37	6/20/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-37	6/20/97	16.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-37	6/20/97	20			0.043	-3.15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-37	6/20/97	25			0.23	-1.47	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04
GP-37	6/20/97	30			0.19	-1.66	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04
GP-38	6/23/97	17			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-38	6/23/97	20			0.0	-5.30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-38	6/23/97	25			0.032	-3.44	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-38	6/23/97	30			0.019	-3.96	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
GP-39	6/23/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	35			<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.1	-3.00	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61
GP-40	6/23/97	15			<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69
GP-40	6/23/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.05	-3.69	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-40	6/23/97	25			<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
GP-40	6/23/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-40	6/23/97	35			0.0021	-6.17	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	25			0.0026	-5.95	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	25			0.002	-6.21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	25			0.0042	-5.47	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-44	6/24/97	15			<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	0.19	-1.66	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
GP-44	6/24/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-44	6/24/97	25			0.0063	-5.07	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-44	6/24/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-45	6/24/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-45	6/24/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-45	6/24/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-45	6/24/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-46	6/24/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-46	6/24/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-46	6/24/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-46	6/24/97	25			0.0047	-5.36	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-46	6/24/97	30			0.0021	-6.17	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	6.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	11			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	21			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	26			<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69
HS-1	7/13/97	31			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	41.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	46			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
HS-1	7/13/97	51			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	61			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	6.5			0.012	-4.42	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	11			0.15	-1.90	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04
HS-2	7/12/97	16			0.0093	-4.68	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	21			0.056	-2.88	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	26			0.58	-0.54	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
HS-2	7/12/97	31			0.91	-0.09	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69
HS-2	7/12/97	36.5			0.16	-1.83	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
HS-2	7/12/97	41.5			0.011	-4.51	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	46			0.0088	-4.73	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	51.5			0.0038	-5.57	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	56			0.0052	-5.26	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	61			0.0028	-5.88	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-3	7/12/97	16			17	2.83	<0.4	-1.61	1.5	0.41	<0.4	-1.61	7.9	2.07	2.4	0.88	<0.4	-1.61	<1	-0.69
HS-3	7/12/97	21			0.093	-2.38	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
HS-3	7/12/97	26			1	0.00	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69
HS-3	7/12/97	31			2	0.69	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69
HS-3	7/12/97	36			0.42	-0.87	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30
HS-3	7/12/97	41			0.27	-1.31	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30
HS-3	7/12/97	46			0.014	-4.27	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-3	7/12/97	51			0.024	-3.73	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-3	7/12/97	56			0.041	-3.19	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-3	7/12/97	61			0.13	-2.04	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	11			0.0084	-4.78	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	16			0.015	-4.20	<0.002	-6.91	0.0027	-5.91	<0.002	-6.91	0.013	-4.34	0.0043	-5.45	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	21			0.066	-2.72	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	26			0.2	-1.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	31			0.16	-1.83	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	36			0.048	-3.04	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	41			0.1	-2.30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	46			0.021	-3.86	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	51			0.1	-2.30	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30
HS-4	7/12/97	56			0.01	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	61			0.002	-6.21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-5	7/13/97	11			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-5	7/13/97	16			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-5	7/13/97	21			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-6	7/13/97	11			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-6	7/13/97	16			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-7	7/13/97	6			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-7	7/13/97	11			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-7	7/13/97	16			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-7	7/13/97	21.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-8	7/13/97	6			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-8	7/13/97	11			<0.002	-6.91	0.0038	-5.57	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
HS-8	7/13/97	16			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-9	7/13/97	11			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-9	7/13/97	16			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
SB48	8/28/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB50	8/29/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB51	8/29/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB52	8/29/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB67	8/31/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB68	8/31/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB70	8/31/00				0.009	-4.71	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB71	8/31/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
05SB76	9/1/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
06SB77	9/1/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
07SB78	9/1/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
08SB79	9/1/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB81	9/1/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB82	9/4/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB83	9/4/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB84	9/4/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB85	9/4/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB86	9/6/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB87	9/6/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB88-B	9/6/00				0.015	-4.20	0.32	-1.14	0.2	-1.61	<0.005	-5.99	1.4	0.34	0.35	-1.05	<0.005	-5.99	<0.005	-5.99
SB89-WW	9/6/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.037	-3.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-2	12/21/95	5																		
MH-2	12/21/95	10																		
MH-4	12/21/95	5					<0.01	-5.30												
MH-4	12/21/95	10					<0.01	-5.30												
MH-4	12/21/95	20																		
MH-4	12/21/95	30																		
MH-4	12/21/95	40																		
MH-5	12/21/95	5					<0.01	-5.30												
MH-5	12/21/95	10					<0.01	-5.30												
MH-6	12/21/95	5					<0.01	-5.30												
MH-6	12/21/95	10					<0.01	-5.30												
Cell 71	12/19/95	1					<0.01	-5.30												
Cell 59	12/19/95	1					<0.01	-5.30												
Cell 76	12/19/95	1					<0.01	-5.30												
Cell 80	12/19/95	1					<0.01	-5.30												
Cell 57	12/19/95	1					<0.01	-5.30												
Cell 64	12/19/95	1					<0.01	-5.30												
Cell 55	12/19/95	1					<0.01	-5.30												
Cell 27	12/19/95	1					<0.01	-5.30												
Cell 46	12/19/95	1					<0.01	-5.30												
Cell 25	12/19/95	1					<0.01	-5.30												
Cell 2	12/19/95	1					<0.01	-5.30												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
Cell 30	12/19/95	1					<0.01	-5.30												
Cell 43	12/19/95	1					<0.01	-5.30												
Cell 21	12/19/95	1					<0.01	-5.30												
Cell 6	12/19/95	1					<0.01	-5.30												
Cell 12	12/19/95	1					<0.01	-5.30												
Cell 15	12/19/95	1					<0.01	-5.30												
Cell 17	12/19/95	1					<0.01	-5.30												
Cell 40	12/19/95	1					<0.01	-5.30												
Cell 4	12/19/95	1					<0.01	-5.30												
MH-4-4	12/22/95	20	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-4-5	12/22/95	30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-4-6	12/22/95	40	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-2-1	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-2-2	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-7-1	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-7-2	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-8-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-8-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-9-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-9-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-10-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-10-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-10-3	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-11-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-11-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-11-3	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
GP-19	12/21/95	5			<0.01	-5.30														
GP-19	12/21/95	10			<0.01	-5.30														
GP-19	12/21/95	15			<0.01	-5.30														
GP-19	12/21/95	20			<0.01	-5.30														
GP-19	12/21/95	25			<0.01	-5.30														
GP-19	12/21/95	30			<0.01	-5.30														
GP-19	12/21/95	35			<0.01	-5.30														
GP-19	12/21/95	40			<0.01	-5.30														
GP-20	12/22/95	5			<0.01	-5.30														
GP-20	12/22/95	10			<0.01	-5.30														
GP-20	12/22/95	15			<0.01	-5.30														
GP-20	12/22/95	20			<0.01	-5.30														
GP-20	12/22/95	25			<0.01	-5.30														
GP-20	12/27/95	30			<0.01	-5.30														
GP-20	12/27/95	35			<0.01	-5.30														
GP-20	12/27/95	40			<0.01	-5.30														
GP-21	12/27/95	5			<0.01	-5.30														
GP-21	12/27/95	10			<0.01	-5.30														
GP-21	12/27/95	15			<0.01	-5.30														
GP-21	12/27/95	20			<0.01	-5.30														

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
GP-21	12/27/95	25			<0.01	-5.30														
GP-21	12/27/95	30			<0.01	-5.30														
GP-21	12/27/95	35			<0.01	-5.30														
GP-21	12/27/95	40			<0.01	-5.30														
GP-22	12/27/95	5			<0.01	-5.30														
GP-22	12/27/95	10			<0.01	-5.30														
GP-22	12/27/95	15			<0.01	-5.30														
GP-22	12/27/95	20			<0.01	-5.30														
GP-22	12/27/95	25			<0.01	-5.30														
GP-22	12/27/95	30			<0.01	-5.30														
GP-22	12/27/95	35			0.02	-3.91														
GP-22	12/27/95	40			0.014	-4.27														
GP-23	12/27/95	15			<0.01	-5.30														
GP-23	12/27/95	20			<0.01	-5.30														
GP-23	12/28/95	25			<0.01	-5.30														
GP-23	12/28/95	30			0.01	-4.61														
GP-23	12/28/95	35			<0.01	-5.30														
GP-23	12/28/95	40			<0.01	-5.30														
GP-24	12/28/95	5			<0.01	-5.30														
GP-24	12/28/95	10			<0.01	-5.30														
GP-24	12/28/95	15			0.11	-2.21														
GP-24	12/28/95	20			<0.01	-5.30														
GP-24	12/28/95	25			0.013	-4.34														
GP-24	12/28/95	30			<0.01	-5.30														
GP-24	12/28/95	35			<0.01	-5.30														
GP-24	12/28/95	40			<0.01	-5.30														
MB-1	12/29/95	25			<0.1	-3.00														
MB-1	12/29/95	30			<0.01	-5.30														
MB-1	12/29/95	35			<0.01	-5.30														
MB-1	12/29/95	40			<0.01	-5.30														
MB-1	12/29/95	45			<0.01	-5.30														
MB-1	12/29/95	50			<0.01	-5.30														
MB-1	12/29/95	55			<0.01	-5.30														
MB-1	12/29/95	59			<0.01	-5.30														
MB-2	12/29/95	25			0.26	-1.35														
MB-2	12/29/95	30			0.97	-0.03														
MB-2	12/29/95	35			0.51	-0.67														
MB-2	12/29/95	40			0.015	-4.20														
MB-2	12/29/95	45			<0.01	-5.30														
MB-2	12/29/95	50			<0.01	-5.30														
MB-2	12/29/95	55			<0.01	-5.30														
MB-2	12/29/95	59			<0.01	-5.30														
T9B-1		5																		
SB-1		26																		
SB-3		16																		
SB-3		26																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
SB-22		11																		
SB-22		26																		
SB-27		15			53	3.97														
SB-27		30			0.02	-3.91														
GP-1		20			4	1.39														
GP-1		25																		
GP-1		30			0.018	-4.02														
GP-2		5																		
GP-2		10																		
GP-2		15																		
GP-2		20			0.041	-3.19														
GP-2		25			0.032	-3.44														
GP-2		30			0.19	-1.66														
GP-3		20			0.015	-4.20														
GP-3		25			0.022	-3.82														
GP-3		30			0.018	-4.02														
GP-4		15																		
GP-4		20																		
GP-4		25			0.23	-1.47														
GP-4		30																		
GP-5		15																		
GP-5		20																		
GP-5		25			0.53	-0.63														
GP-5		30			0.015	-4.20														
GP-6		5			0.23	-1.47														
GP-6		10			0.021	-3.86														
GP-6		15			2.1	0.74														
GP-6		20			0.023	-3.77														
GP-6		25			0.12	-2.12														
GP-6		30			0.11	-2.21														
GP-7		5																		
GP-7		10			0.073	-2.62														
GP-7		15																		
GP-7		20																		
GP-7		25																		
GP-7		30			1.3	0.26														
GP-8		20																		
GP-8		25			0.38	-0.97														
GP-8		30			0.019	-3.96														
GP-9		5			0.71	-0.34														
GP-9		15																		
GP-9		25																		
GP-9		30																		
GP-10		5																		
GP-10		15			0.014	-4.27														
GP-10		25			0.015	-4.20														

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
GP-10		30																		
GP-11		5																		
GP-11		15			0.026	-3.65														
GP-11		25			0.47	-0.76														
GP-11		30																		
GP-12		20																		
GP-12		30			0.31	-1.17														
GP-12		38																		
GP-13		5																		
GP-13		15																		
GP-13		25			0.45	-0.80														
GP-13		30																		
GP-14		5																		
GP-14		15																		
GP-14		25			0.044	-3.12														
GP-14		30																		
GP-15		20																		
GP-15		30																		
GP-15		48																		
GP-15		30																		
GP-15		48																		
GP-16		10			0.015	-4.20														
GP-16		20																		
GP-16		30																		
GP-17		15																		
GP-17		25																		
GP-17		30																		
GP-18		5																		
GP-18		15			0.013	-4.34														
GP-18		25			0.54	-0.62														
GP-18		30			0.031	-3.47														
JF-M1-S37-EW-8	11/2/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S38-B-14	11/2/00	14	0.0011	-6.81	<0.001	-7.60	0.36	-1.02	0.091	-2.40	0.03	-3.51	1.7	0.53	0.12	-2.12	<0.001	-7.60	<0.001	-7.60
JF-M1-S39-SW-8	11/2/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S40-WW-8	11/2/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M2-S16-B-10	10/25/00	10	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S33-EW-10	10/30/00	10	<0.01	-5.30	<0.001	-7.60	0.0014	-6.57	0.0017	-6.38	0.00052	-7.56	0.011	-4.51	0.0031	-5.78	<0.001	-7.60	<0.001	-7.60
JF-M3-S34-WW-14	10/31/00	14	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	0.00056	-7.49	<0.001	-7.60	0.0033	-5.71	0.00096	-6.95	<0.001	-7.60	<0.001	-7.60
JF-M3-S35-NW-13	10/31/00	13	0.0025	-5.99	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S36-SW-13	10/31/00	13	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S22-EW-8	10/25/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S23-SW-8	10/25/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S24-B-13	10/25/00	13	<0.01	-5.30	<0.001	-7.60	0.0035	-5.65	0.00054	-7.52	<0.001	-7.60	0.0028	-5.88	0.0029	-5.84	<0.001	-7.60	<0.001	-7.60
JF-M7-S25-WW-8	10/25/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S26-NW-8	10/25/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S27-B-13	10/26/00	13	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S28-WW-10	10/26/00	13	<1	-0.69	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<1	-0.69	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00
JF-M8-S30-SW-10	10/30/00	10	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0026	-5.95	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
JF-M8-S31-EW-10	10/30/00	10	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.00098	-6.93	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S32-NW-10	10/30/00	10	0.0012	-6.73	<0.001	-7.60	0.0015	-6.50	0.0092	-4.69	<0.001	-7.60	0.013	-4.34	0.013	-4.34	<0.001	-7.60	<0.001	-7.60
JF-M9-S17-WW-5	10/25/00	6	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S18-NW-5	10/25/00	5	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S20-SW-5	10/25/00	5	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S21-EW-5	10/25/00	5	<0.01	-5.30	<0.001	-7.60	0.00051	-7.58	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S10B-B-8	11/2/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S12B-NW-6	11/2/00	6	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S13-B-6	10/24/00	6	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S15-NW-5	10/24/00	5	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S2-NW-5	10/24/00	5	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S3-B -6	10/24/00	6	<0.01	-5.30	0.00061	-7.40	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S4B-B-13	10/26/00	13	<0.01	-5.30	0.02	-3.91	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S6-NW-5	10/24/00	5	<0.01	-5.30	0.025	-3.69	0.0052	-5.26	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S7B-B-12	11/1/00	12	<0.01	-5.30	0.0065	-5.04	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	0.0064	-5.05
JF-SB49-S9B-NW-6	11/1/00	6	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0024	-6.03	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
EX1-11-6	6/11/98	6	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-7-11.5	6/10/98	11.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-5-5.5	6/10/98	5.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-3-5.5	6/9/98	5.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-2-5.5	6/9/98	5.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-1-5.5	6/9/98	5.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	0.009	-4.71	<0.005	-5.99
EX2-7-6	6/9/98	6	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-8-6	6/9/98	6	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-9-6.5	6/9/98	6.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6	6/11/98	6	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6.5	6/11/98	6.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-10-15	6/9/98	15	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-11-15	6/9/98	15	<0.05	-3.69	<0.005	-5.99	0.013	-4.34	0.01	-4.61	0.024	-3.73	<0.05	-3.69	<0.005	-5.99	0.008	-4.83	<0.005	-5.99
EX2-26-15	6/22/98	15	<0.05	-3.69	14.7	2.69	<0.005	-5.99	1.1	0.10	<0.005	-5.99	<0.05	-3.69	1.6	0.47	<0.005	-5.99	<0.005	-5.99
EX2-4-7	6/9/98	7																		
EX2-5-5.5	6/9/98	5.5																		
EX3-1-5.5	6/9/98	5.5																		
EX3-2-6	6/9/98	6																		
EX3-3-5.5	6/9/98	5.5																		
EX3-4-5.5	6/9/98	5.5																		
EX2-6-9.5	6/9/98	9.5																		
EX2-12-15	6/9/98	15																		
EX2-13-12.5	6/9/98	12.5																		
EX2-13-12.5	6/9/98	12.5																		
EX1-8-11.5	6/9/98	11.5																		
EX1-9-11.5	6/9/98	11.5																		
EX1-10-11.5	6/9/98	11.5																		
EX2-18-11.5	6/9/98	11.5																		
EX2-22-11	6/9/98	11.0																		
EX2-24-6.5	6/9/98	6.5																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
EX2-25-6.5	6/9/98	6.5																		
EX2-26-6	6/9/98	6																		
Count including ND values (n):			64	64	368	368	297	297	254	254	254	254	254	254	254	254	271	271	254	254
Degrees of Freedom (n-1):			63	63	367	367	296	296	253	253	253	253	253	253	253	253	270	270	253	253
Arithmetic Mean of LT data:			NA	-5.12	NA	-5.25	NA	-6.45	NA	-6.57	NA	-6.65	NA	-5.46	NA	-6.57	NA	-6.63	NA	-6.00
Arithmetic Mean:			0.016	NA	0.294	NA	0.005	NA	0.014	NA	0.003	NA	0.052	NA	0.020	NA	0.003	NA	0.006	NA
[1]Variance of LT data(s^2):			NA	1.07	NA	4.21	NA	0.92	NA	1.10	NA	0.73	NA	1.24	NA	1.16	NA	0.65	NA	0.78
[1]Variance (s^2):			0.0038	NA	9.0310	NA	0.0009	NA	0.0137	NA	0.0002	NA	0.2644	NA	0.0331	NA	0.0002	NA	0.0011	NA
[1]Standard deviation of LT data (s):			NA	1.03	NA	2.05	NA	0.96	NA	1.05	NA	0.85	NA	1.11	NA	1.08	NA	0.81	NA	0.88
[1]Standard deviation (s):			0.0616	NA	3.0052	NA	0.0304	NA	0.1171	NA	0.0140	NA	0.5142	NA	0.1819	NA	0.0132	NA	0.0333	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	2.384	NA	2.099	NA	1.837	NA	1.971	NA	1.875	NA	2.005	NA	1.994	NA	1.790	NA	1.855
Student's t value ($t_{0.1}$):			1.67	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA
95% upper confidence level (UCL):			0.029	0.0140	0.552	0.0541	0.008	0.0028	0.026	0.0028	0.0047	0.0021	0.105	0.0091	0.039	0.0029	0.004	0.0020	0.010	0.0040
[2]Minimum value:			0.0011	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.00098	NA	0.0005	NA	0.0005	NA	0.0005	NA
Maximum value:			0.0025	NA	53	NA	0.36	NA	1.5	NA	0.0300	NA	7.9	NA	2.4	NA	0.009	NA	0.0064	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
GP-25	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-25	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-25	6/18/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-25	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-25	6/18/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	5	<0.002	-6.91	0.0085	-4.77	0.0024	-6.03	0.0021	-6.17	<0.002	-6.91		
GP-30	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	35	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
GP-32	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	35	<0.002	-6.91	0.003	-5.81	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	10	<0.002	-6.91	0.0044	-5.43	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	19.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	35	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99		
GP-35	6/20/97	15	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00		
GP-35	6/20/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-35	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-35	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-35	6/20/97	35	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99		
GP-36	6/20/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-36	6/20/97	10	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
GP-36	6/20/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-36	6/20/97	19.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-36	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-36	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-36	6/20/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-37	6/20/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-37	6/20/97	16.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-37	6/20/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-37	6/20/97	25	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99		
GP-37	6/20/97	30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99		
GP-38	6/23/97	17	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-38	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-38	6/23/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-38	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
GP-39	6/23/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	35	<0.05	-3.69	<0.02	-4.61	<0.05	-3.69	<2	0.00	<0.02	-4.61		
GP-40	6/23/97	15	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61		
GP-40	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-40	6/23/97	25	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
GP-40	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-40	6/23/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-44	6/24/97	15	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
GP-44	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-44	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-44	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-45	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-45	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-45	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-45	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-46	6/24/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-46	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-46	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-46	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-46	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	6.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	26	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61		
HS-1	7/13/97	31	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	41.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	46	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
HS-1	7/13/97	51	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	6.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	11	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99		
HS-2	7/12/97	16	0.0027	-5.91	<0.002	-6.91	<0.002	-6.91	0.0024	-6.03	<0.002	-6.91		
HS-2	7/12/97	21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	26	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
HS-2	7/12/97	31	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61		
HS-2	7/12/97	36.5	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
HS-2	7/12/97	41.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	46	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	51.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	56	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-3	7/12/97	16	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61		
HS-3	7/12/97	21	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
HS-3	7/12/97	26	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61		
HS-3	7/12/97	31	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61		
HS-3	7/12/97	36	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21		
HS-3	7/12/97	41	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21		
HS-3	7/12/97	46	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-3	7/12/97	51	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-3	7/12/97	56	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-3	7/12/97	61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	26	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	31	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	36	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	41	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	46	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	51	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21		
HS-4	7/12/97	56	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-5	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-5	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-5	7/13/97	21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-6	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-6	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-7	7/13/97	6	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-7	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-7	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-7	7/13/97	21.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-8	7/13/97	6	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-8	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	0.017	-4.07	0.0068	-4.99		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
HS-8	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-9	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-9	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
SB48	8/28/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB50	8/29/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB51	8/29/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB52	8/29/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB67	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB68	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB70	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB71	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
05SB76	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
06SB77	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
07SB78	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
08SB79	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB81	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB82	9/4/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB83	9/4/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB84	9/4/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB85	9/4/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB86	9/6/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB87	9/6/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB88-B	9/6/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB89-WW	9/6/00		<0.005	-5.99	<0.005	-5.99	0.009	-4.71	<0.01	-5.30	<0.005	-5.99		
MH-2	12/21/95	5												
MH-2	12/21/95	10												
MH-4	12/21/95	5	<0.01	-5.30										
MH-4	12/21/95	10	<0.01	-5.30										
MH-4	12/21/95	20												
MH-4	12/21/95	30												
MH-4	12/21/95	40												
MH-5	12/21/95	5	<0.01	-5.30										
MH-5	12/21/95	10	<0.01	-5.30										
MH-6	12/21/95	5	<0.01	-5.30										
MH-6	12/21/95	10	<0.01	-5.30										
Cell 71	12/19/95	1	<0.01	-5.30										
Cell 59	12/19/95	1	<0.01	-5.30										
Cell 76	12/19/95	1	<0.01	-5.30										
Cell 80	12/19/95	1	<0.01	-5.30										
Cell 57	12/19/95	1	<0.01	-5.30										
Cell 64	12/19/95	1	<0.01	-5.30										
Cell 55	12/19/95	1	<0.01	-5.30										
Cell 27	12/19/95	1	<0.01	-5.30										
Cell 46	12/19/95	1	<0.01	-5.30										
Cell 25	12/19/95	1	<0.01	-5.30										
Cell 2	12/19/95	1	<0.01	-5.30										

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
Cell 30	12/19/95	1	<0.01	-5.30										
Cell 43	12/19/95	1	<0.01	-5.30										
Cell 21	12/19/95	1	<0.01	-5.30										
Cell 6	12/19/95	1	<0.01	-5.30										
Cell 12	12/19/95	1	<0.01	-5.30										
Cell 15	12/19/95	1	<0.01	-5.30										
Cell 17	12/19/95	1	<0.01	-5.30										
Cell 40	12/19/95	1	<0.01	-5.30										
Cell 4	12/19/95	1	<0.01	-5.30										
MH-4-4	12/22/95	20	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-4-5	12/22/95	30	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-4-6	12/22/95	40	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-2-1	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-2-2	12/21/95	10	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-7-1	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-7-2	12/21/95	10	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-8-1	12/21/95	1	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-8-2	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-9-1	12/21/95	1	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-9-2	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-10-1	12/21/95	1	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-10-2	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-10-3	12/21/95	10	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-11-1	12/21/95	1	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-11-2	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-11-3	12/21/95	10	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
GP-19	12/21/95	5												
GP-19	12/21/95	10												
GP-19	12/21/95	15												
GP-19	12/21/95	20												
GP-19	12/21/95	25												
GP-19	12/21/95	30												
GP-19	12/21/95	35												
GP-19	12/21/95	40												
GP-20	12/22/95	5												
GP-20	12/22/95	10												
GP-20	12/22/95	15												
GP-20	12/22/95	20												
GP-20	12/22/95	25												
GP-20	12/27/95	30												
GP-20	12/27/95	35												
GP-20	12/27/95	40												
GP-21	12/27/95	5												
GP-21	12/27/95	10												
GP-21	12/27/95	15												
GP-21	12/27/95	20												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
GP-21	12/27/95	25												
GP-21	12/27/95	30												
GP-21	12/27/95	35												
GP-21	12/27/95	40												
GP-22	12/27/95	5												
GP-22	12/27/95	10												
GP-22	12/27/95	15												
GP-22	12/27/95	20												
GP-22	12/27/95	25												
GP-22	12/27/95	30												
GP-22	12/27/95	35												
GP-22	12/27/95	40												
GP-23	12/27/95	15												
GP-23	12/27/95	20												
GP-23	12/28/95	25												
GP-23	12/28/95	30												
GP-23	12/28/95	35												
GP-23	12/28/95	40												
GP-24	12/28/95	5												
GP-24	12/28/95	10												
GP-24	12/28/95	15												
GP-24	12/28/95	20												
GP-24	12/28/95	25												
GP-24	12/28/95	30												
GP-24	12/28/95	35												
GP-24	12/28/95	40												
MB-1	12/29/95	25												
MB-1	12/29/95	30												
MB-1	12/29/95	35												
MB-1	12/29/95	40												
MB-1	12/29/95	45												
MB-1	12/29/95	50												
MB-1	12/29/95	55												
MB-1	12/29/95	59												
MB-2	12/29/95	25												
MB-2	12/29/95	30												
MB-2	12/29/95	35												
MB-2	12/29/95	40												
MB-2	12/29/95	45												
MB-2	12/29/95	50												
MB-2	12/29/95	55												
MB-2	12/29/95	59												
T9B-1		5												
SB-1		26												
SB-3		16												
SB-3		26												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
SB-22		11												
SB-22		26												
SB-27		15												
SB-27		30												
GP-1		20												
GP-1		25												
GP-1		30												
GP-2		5												
GP-2		10												
GP-2		15												
GP-2		20												
GP-2		25												
GP-2		30												
GP-3		20												
GP-3		25												
GP-3		30												
GP-4		15												
GP-4		20												
GP-4		25												
GP-4		30												
GP-5		15												
GP-5		20												
GP-5		25												
GP-5		30												
GP-6		5												
GP-6		10												
GP-6		15												
GP-6		20												
GP-6		25												
GP-6		30												
GP-7		5												
GP-7		10												
GP-7		15												
GP-7		20												
GP-7		25												
GP-7		30												
GP-8		20												
GP-8		25												
GP-8		30												
GP-9		5												
GP-9		15												
GP-9		25												
GP-9		30												
GP-10		5												
GP-10		15												
GP-10		25												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
GP-10		30												
GP-11		5												
GP-11		15												
GP-11		25												
GP-11		30												
GP-12		20												
GP-12		30												
GP-12		38												
GP-13		5												
GP-13		15												
GP-13		25												
GP-13		30												
GP-14		5												
GP-14		15												
GP-14		25												
GP-14		30												
GP-15		20												
GP-15		30												
GP-15		48												
GP-16		10												
GP-16		20												
GP-16		30												
GP-17		15												
GP-17		25												
GP-17		30												
GP-18		5												
GP-18		15												
GP-18		25												
GP-18		30												
JF-M1-S37-EW-8	11/2/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M1-S38-B-14	11/2/00	14	0.0032	-5.74	3.3	1.19	0.14	-1.97	0.22	-1.51	0.003	-5.81	<0.001	-7.60
JF-M1-S39-SW-8	11/2/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M1-S40-WW-8	11/2/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M2-S16-B-10	10/25/00	10	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M3-S33-EW-10	10/30/00	10	0.00094	-6.97	0.0033	-5.71	<0.002	-6.91	0.0023	-6.07	0.0007	-7.26	<0.001	-7.60
JF-M3-S34-WW-14	10/31/00	14	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M3-S35-NW-13	10/31/00	13	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M3-S36-SW-13	10/31/00	13	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M7-S22-EW-8	10/25/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M7-S23-SW-8	10/25/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M7-S24-B-13	10/25/00	13	0.0072	-4.93	0.028	-3.58	0.0081	-4.82	0.017	-4.07	0.0063	-5.07	<0.001	-7.60
JF-M7-S25-WW-8	10/25/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M7-S26-NW-8	10/25/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M8-S27-B-13	10/26/00	13	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M8-S28-WW-10	10/26/00	13	<0.1	-3.00	<0.2	-2.30	<0.2	-2.30	<0.2	-2.30	<0.1	-3.00	0.2	-1.61
JF-M8-S30-SW-10	10/30/00	10	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	0.001	-6.91	<0.001	-7.60	<0.001	-7.60

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
JF-M8-S31-EW-10	10/30/00	10	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	0.0006	-7.42	<0.001	-7.60	<0.001	-7.60
JF-M8-S32-NW-10	10/30/00	10	0.0012	-6.73	0.0033	-5.71	<0.002	-6.91	0.0061	-5.10	0.0011	-6.81	<0.001	-7.60
JF-M9-S17-WW-5	10/25/00	6	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M9-S18-NW-5	10/25/00	5	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M9-S20-SW-5	10/25/00	5	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M9-S21-EW-5	10/25/00	5	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S10B-B-8	11/2/00	8	0.0011	-6.81	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	0.013	-4.34
JF-SB49-S12B-NW-6	11/2/00	6	0.00061	-7.40	<0.002	-6.91	<0.002	-6.91	0.00061	-7.40	<0.001	-7.60	<0.001	-7.60
JF-SB49-S13-B-6	10/24/00	6	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	0.00085	-7.07	<0.001	-7.60	<0.001	-7.60
JF-SB49-S15-NW-5	10/24/00	5	<0.001	-7.60	0.0014	-6.57	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S2-NW-5	10/24/00	5	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S3-B -6	10/24/00	6	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S4B-B-13	10/26/00	13	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S6-NW-5	10/24/00	5	0.0012	-6.73	<0.002	-6.91	<0.002	-6.91	0.0011	-6.81	0.00095	-6.96	<0.001	-7.60
JF-SB49-S7B-B-12	11/1/00	12	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S9B-NW-6	11/1/00	6	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
EX1-11-6	6/11/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-7-11.5	6/10/98	11.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-5-5.5	6/10/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-3-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-2-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-1-5.5	6/9/98	5.5	0.008	-4.83	<0.005	-5.99	<0.005	-5.99	0.01	-4.61	<0.005	-5.99	<0.005	-5.99
EX2-7-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-8-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-9-6.5	6/9/98	6.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6	6/11/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6.5	6/11/98	6.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-10-15	6/9/98	15	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.007	-4.96	<0.005	-5.99	<0.005	-5.99
EX2-11-15	6/9/98	15	0.013	-4.34	<0.005	-5.99	0.02	-3.91	0.02	-3.91	0.016	-4.14	0.01	-4.61
EX2-26-15	6/22/98	15	<0.005	-5.99	0.2	-1.61	<0.005	-5.99	0.5	-0.69	<0.005	-5.99	<0.005	-5.99
EX2-4-7	6/9/98	7												
EX2-5-5.5	6/9/98	5.5												
EX3-1-5.5	6/9/98	5.5												
EX3-2-6	6/9/98	6												
EX3-3-5.5	6/9/98	5.5												
EX3-4-5.5	6/9/98	5.5												
EX2-6-9.5	6/9/98	9.5												
EX2-12-15	6/9/98	15												
EX2-13-12.5	6/9/98	12.5												
EX2-13-12.5	6/9/98	12.5												
EX1-8-11.5	6/9/98	11.5												
EX1-9-11.5	6/9/98	11.5												
EX1-10-11.5	6/9/98	11.5												
EX2-18-11.5	6/9/98	11.5												
EX2-22-11	6/9/98	11.0												
EX2-24-6.5	6/9/98	6.5												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
EX2-25-6.5	6/9/98	6.5												
EX2-26-6	6/9/98	6												
Count including ND values (n):			297	297	254	254	254	254	271	271	271	271	47	47
Degrees of Freedom (n-1):			296	296	253	253	253	253	270	270	270	270	46	46
Arithmetic Mean of LT data:			NA	-6.48	NA	-6.50	NA	-6.55	NA	-6.40	NA	-6.60	NA	-6.90
Arithmetic Mean:			0.003	NA	0.017	NA	0.004	NA	0.010	NA	0.003	NA	0.006	NA
[1]Variance of LT data(s^2):			NA	0.73	NA	0.93	NA	0.69	NA	1.07	NA	0.64	NA	1.40
[1]Variance (s^2):			0.0002	NA	0.0431	NA	0.0003	NA	0.0049	NA	0.0002	NA	0.0008	NA
[1]Standard deviation of LT data (s):			NA	0.85	NA	0.96	NA	0.83	NA	1.03	NA	0.80	NA	1.18
[1]Standard deviation (s):			0.0126	NA	0.2077	NA	0.0170	NA	0.0702	NA	0.0132	NA	0.0287	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	1.761	NA	1.965	NA	1.849	NA	1.904224	NA	1.7938	NA	2.576
Student's t value ($t_{0.1}$):			1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.68	NA
95% upper confidence level (UCL):			0.004	0.0024	0.039	0.0027	0.006	0.0022	0.017	0.0032	0.004	0.0020	0.013	0.0032
[2]Minimum value:			0.0005	NA	0.001	NA	0.001	NA	0.0006	NA	0.0005	NA	0.0005	NA
Maximum value:			0.013	NA	3.3	NA	0.14	NA	0.5	NA	0.016	NA	0.2	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-2
Analytical Results and Statistical Analysis of VOCs in Groundwater
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Well ID	Date	Benzene (mg/l)		Toluene (mg/l)		Ethyl benzene (mg/l)		Total Xylenes (mg/l)		MTBE (mg/l)		PCE (mg/l)	
MMW-3	03/15/94	0.0040	-5.5215	0.0130	-4.3428	0.0260	-3.64966	0.1010	-2.29263			0.0050	-5.29832
MMW-3	06/22/94	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.0040	-5.52146
MMW-3	09/16/94	<0.001	-7.6009	0.0030	-5.8091	<0.001	-7.60090	0.0060	-5.11600			<0.001	-7.60090
MMW-3	12/16/94	<0.001	-7.6009	0.0080	-4.8283	0.0020	-6.21461	0.0080	-4.82831			0.0030	-5.80914
MMW-3	03/08/95	0.0280	-3.5756	0.0280	-3.5756	0.0020	-6.21461	0.0180	-4.01738			0.0040	-5.52146
MMW-3	03/26/97	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.0120	-4.42285
MMW-3	08/03/98	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0080	-4.82831
MMW-3	05/02/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0050	-5.29832
MMW-3	06/06/00	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0032	-5.74460
MMW-3	08/31/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.002	-6.90776	0.0019	-6.26590	0.0044	-5.42615
MMW-4	03/15/94	<0.001	-7.6009	0.0040	-5.5215	0.0100	-4.60517	0.0380	-3.27017			0.0040	-5.52146
MMW-4	06/22/94	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.0020	-6.21461
MMW-4	09/16/94	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			<0.001	-7.60090
MMW-4	12/16/94	<0.001	-7.6009	0.0070	-4.9618	0.0030	-5.80914	0.0090	-4.71053			0.0010	-6.90776
MMW-4	03/08/95	0.0020	-6.2146	0.0020	-6.2146	<0.001	-7.60090	0.0010	-6.90776			0.0050	-5.29832
MMW-4	03/26/97	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.0042	-5.47267
MMW-4	08/03/98	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0020	-6.21461
MMW-4	05/02/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0044	-5.42615
MMW-4	06/06/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0056	-5.18499
MMW-4	08/31/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.002	-6.90776	<0.001	-7.60090	0.0067	-5.00565
MMW-5	03/15/94	<0.001	-7.6009	<0.001	-7.6009	0.0110	-4.50986	0.0370	-3.29684			0.3300	-1.10866
MMW-5	06/22/94	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.9300	-0.07257
MMW-5	09/16/94	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.8300	-0.18633
MMW-5	12/16/94	<0.001	-7.6009	0.0010	-6.9078	0.0020	-6.21461	0.0010	-6.90776			1.4000	0.33647
MMW-5	03/08/95	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			2.2000	0.78846
MMW-5	03/26/97	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			1.1000	0.09531
MMW-5	10/22/98	<0.0003	-8.8049	0.0004	-7.8240	<0.0003	-8.80488	0.0006	-7.41858	<0.01	-5.29832		
MMW-5	11/20/98	0.0030	-5.8091	0.0030	-5.8091	<0.002	-6.90776	0.0010	-6.90776	<0.005	-5.99146	0.6600	-0.41552
MMW-5	05/02/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.6600	-0.41552
MMW-5	06/06/00	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.1000	-2.30259
MMW-5	09/15/00	<0.0025	-6.6846	<0.005	-5.9915	<0.005	-5.99146	<0.01	-5.29832	<0.005	-5.99146	0.3900	-0.94161
California Primary MCLs:		0.001	NA	0.15	NA	0.7	NA	1.75	NA	0.013	NA	0.005	NA
Count including ND values (n):		31	31	31	31	31	31	31	31	13	13	30	30
Degrees of Freedom (n-1):		30	30	30	30	30	30	30	30	12	12	29	29
Arithmetic Mean of LT data:		NA	-7.44	NA	-6.90	NA	-7.05	NA	-6.58	NA	-7.07	NA	-3.95
Arithmetic Mean:		1.59E-03	NA	2.64E-03	NA	2.26E-03	NA	7.62E-03	NA	1.26E-03	NA	0.29	NA
Sample Variance of LT data(s^2):		NA	1.00	NA	1.40	NA	1.27	NA	2.53	NA	0.72	NA	7.13
Sample Variance (s^2):		2.47E-05	NA	3.00E-05	NA	2.57E-05	NA	3.92E-04	NA	1.89E-06	NA	0.28	NA
Standard Deviation, LT data (s):		NA	1.00	NA	1.18	NA	1.13	NA	1.59	NA	0.85	NA	2.67
Standard deviation (s):		4.97E-03	NA	5.48E-03	NA	5.07E-03	NA	1.98E-02	NA	1.37E-03	NA	0.53	NA
Probability (two sided test):		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[1]H Statistic for LT data:		NA	2.42	NA	2.65	NA	2.59	NA	3.21	NA	2.562	NA	5.27
Student's t value ($t_{0.1}$):		1.70	NA	1.70	NA	1.70	NA	1.70	NA	1.78	NA	1.70	NA
95% upper confidence level (UCL):		0.0031	0.0015	0.0043	0.0036	0.0038	0.0028	0.0137	0.0125	0.0019	0.0023	0.4544	9.2661
Minimum value:		0.0002	NA	0.0004	NA	0.0002	NA	0.0005	NA	0.0005	NA	0.0005	NA
Maximum value:		0.0280	NA	0.0280	NA	0.0260	NA	0.1010	NA	0.0019	NA	2.2000	NA

Notes:
mg/l = milligrams per liter
NA = not applicable
LT = log transformed data
[1] Based on Gilbert, 1987

Table E-2
Analytical Results and Statistical Analysis of VOCs in Groundwater
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Well ID	Date	TCE (mg/l)		1,1-DCA (mg/l)		1,1-DCE (mg/l)		cis-1,2-DCE (mg/l)		1,2-DCA (mg/l)		1,2-Dichloropropane (mg/l)	
MMW-3	03/15/94	0.0250	-3.68888	0.0020	-6.21461	0.0100	-4.60517						
MMW-3	06/22/94	0.0240	-3.72970	0.0020	-6.21461	0.0080	-4.82831						
MMW-3	09/16/94	0.0120	-4.42285	<0.001	-7.60090	0.0030	-5.80914						
MMW-3	12/16/94	0.0170	-4.07454	0.0020	-6.21461	0.0050	-5.29832						
MMW-3	03/08/95	0.0200	-3.91202	0.0020	-6.21461	0.0020	-6.21461						
MMW-3	03/26/97	0.0230	-3.77226	0.0020	-6.21461	0.0070	-4.96185						
MMW-3	08/03/98	0.0210	-3.86323	0.0020	-6.21461	0.0060	-5.11600						
MMW-3	05/02/00	0.0160	-4.13517	0.0018	-6.31997	0.0092	-4.68855	<0.001	-7.60090	0.0013	-6.64539	0.0011	-6.81245
MMW-3	06/06/00	0.0120	-4.42285	0.0014	-6.57128	0.0056	-5.18499	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-3	08/31/00	0.0150	-4.19971	0.0017	-6.37713	0.0065	-5.03595	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-4	03/15/94	0.0180	-4.01738	<0.001	-7.60090	0.0020	-6.21461						
MMW-4	06/22/94	0.0160	-4.13517	<0.001	-7.60090	<0.001	-7.60090						
MMW-4	09/16/94	0.0060	-5.11600	<0.001	-7.60090	<0.001	-7.60090						
MMW-4	12/16/94	0.0060	-5.11600	<0.001	-7.60090	<0.001	-7.60090						
MMW-4	03/08/95	0.0090	-4.71053	<0.001	-7.60090	<0.001	-7.60090						
MMW-4	03/26/97	0.0040	-5.52146	<0.001	-7.60090	<0.001	-7.60090						
MMW-4	08/03/98	0.0040	-5.52146	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-4	05/02/00	0.0120	-4.42285	0.0017	-6.37713	0.0018	-6.31997	0.0014	-6.57128	0.0007	-7.27882	<0.001	-7.60090
MMW-4	06/06/00	0.0150	-4.19971	0.0021	-6.16582	0.0025	-5.99146	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-4	08/31/00	0.0170	-4.07454	0.0019	-6.26590	0.0020	-6.21461	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-5	03/15/94	0.0600	-2.81341	<0.001	-7.60090	0.0050	-5.29832						
MMW-5	06/22/94	0.1000	-2.30259	<0.001	-7.60090	<0.001	-7.60090						
MMW-5	09/16/94	0.0820	-2.50104	<0.001	-7.60090	<0.001	-7.60090						
MMW-5	12/16/94	0.1400	-1.96611	<0.001	-7.60090	0.0050	-5.29832						
MMW-5	03/08/95	0.1800	-1.71480	<0.001	-7.60090	<0.001	-7.60090						
MMW-5	03/26/97	0.0880	-2.43042	<0.001	-7.60090	<0.001	-7.60090						
MMW-5	10/22/98												
MMW-5	11/20/98	0.0910	-2.39690	<0.002	-6.90776	0.0090	-4.71053	0.0770	-2.56395				
MMW-5	05/02/00	0.0900	-2.40795	0.0034	-5.68398	0.0390	-3.24419	0.2700	-1.30933	0.0010	-6.90776	0.0040	-5.52146
MMW-5	06/06/00	0.0240	-3.72970	<0.001	-7.60090	0.0190	-3.96332	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-5	09/15/00	0.0520	-2.95651	0.0031	-5.77635	0.0410	-3.19418	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
California Primary MCLs:		0.005	NA	0.005	NA	0.006	NA	0.006	NA	0.0005	NA	0.005	NA
Count including ND values (n):		30	30	30	30	30	30	11	11	10	10	10	10
Degrees of Freedom (n-1):		29	29	29	29	29	29	10	10	9	9	9	9
Arithmetic Mean of LT data:		NA	-3.74	NA	-6.92	NA	-5.94	NA	-6.48	NA	-7.40	NA	-7.31
Arithmetic Mean:		4.00E-02	NA	1.25E-03	NA	6.45E-03	NA	3.20E-02	NA	6.49E-04	NA	9.10E-04	NA
Sample Variance of LT data(s^2):		NA	1.07	NA	0.51	NA	1.97	NA	5.21	NA	0.12	NA	0.46
Sample Variance (s^2):		1.96E-03	NA	7.52E-07	NA	1.00E-04	NA	6.75E-03	NA	7.82E-08	NA	1.21E-06	NA
Standard Deviation, LT data (s):		NA	1.04	NA	0.72	NA	1.40	NA	2.28	NA	0.35	NA	0.68
Standard deviation (s):		4.43E-02	NA	8.67E-04	NA	1.00E-02	NA	8.22E-02	NA	2.80E-04	NA	1.10E-03	NA
Probability (two sided test):		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[1]H Statistic for LT data:		NA	2.61	NA	2.20	NA	3.13	NA	6.47	NA	2.03	NA	2.50
Student's t value ($t_{0.1}$):		1.70	NA	1.70	NA	1.70	NA	1.81	NA	1.83	NA	1.83	NA
95% upper confidence level (UCL):		0.0537	0.0670	0.0015	0.0017	0.0096	0.0159	0.0769	2.2229	0.0008	0.0008	0.0015	0.0015
Minimum value:		0.0040	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA
Maximum value:		0.1800	NA	0.0034	NA	0.0410	NA	0.2700	NA	0.0013	NA	0.0040	NA

Notes:
mg/l = milligrams per liter
NA = not applicable
LT = log transformed data
[1] Based on Gilbert, 1987

Table E-3
Analytical Results and Statistical Analysis of PAHs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Acenaphthene (mg/kg)		Acenaphthylene (mg/kg)		Anthracene (mg/kg)		Benz (a) anthracene (mg/kg)		Benzo (a) pyrene (mg/kg)		Benzo (b) fluoranthene (mg/kg)		Benzo (g,h,i,) perylene (mg/kg)	
GP-25	6/18/97	15	<0.02	-4.6051702	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
GP-25	6/18/97	20	0.032	-3.4420194	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
GP-25	6/18/97	25	<0.02	-4.6051702	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
GP-26	6/18/97	35	<0.02	-4.6051702	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
GP-32	6/19/97	5	<0.02	-4.6051702	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
GP-34	6/20/97	5	<0.02	-4.6051702	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
HS-3	6/18/97	26	<0.05	-3.6888795	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
HS-3	6/18/97	46	<0.05	-3.6888795	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
HS-3	6/18/97	51	<0.05	-3.6888795	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
HS-5	7/13/97	16	<0.05	-3.6888795	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
HS-8	7/13/97	11	<0.05	-3.6888795	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
Count including ND values (n):			11	11	11	11	11	11	11	11	11	11	11	11	11	11
Degrees of Freedom (n-1):			10	10	10	10	10	10	10	10	10	10	10	10	10	10
Arithmetic Mean of LT data:			NA	-4.08	NA	-3.69	NA	-6.91	NA	-6.91	NA	-6.91	NA	-6.91	NA	-5.99
Arithmetic Mean:			1.88E-02	NA	2.50E-02	NA	1.00E-03	NA	1.00E-03	NA	1.00E-03	NA	1.00E-03	NA	2.50E-03	NA
[1]Variance of LT data(s^2):			NA	2.32E-01	NA	-1.88E-15	NA	7.52E-15	NA	7.52E-15	NA	7.52E-15	NA	7.52E-15	NA	-1.50E-14
[1]Variance (s^2):			6.85E-05	NA	3.44E-19	NA	-4.48E-22	NA	-4.48E-22	NA	-4.48E-22	NA	-4.48E-22	NA	2.69E-21	NA
[1]Standard deviation of LT data (s):			NA	4.82E-01	NA	#NUM!	NA	8.67E-08	NA	8.67E-08	NA	8.67E-08	NA	8.67E-08	NA	#NUM!
[1]Standard deviation (s):			0.01	NA	0.00	NA	#NUM!	NA	#NUM!	NA	#NUM!	NA	#NUM!	NA	0.0000	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	2.19	NA		NA		NA		NA		NA		NA	
Student's t value ($t_{0.1}$):			1.81	NA	1.81	NA	1.81	NA	1.81	NA	1.81	NA	1.81	NA	1.81	NA
95% upper confidence level (UCL):			0.02	0.03	0.025	#NUM!	#NUM!	0.0010	#NUM!	0.0010	#NUM!	0.0010	#NUM!	0.0010	0.0025	#NUM!
Minimum value:			0.01	NA	0.025	NA	0.001	NA	0.001	NA	0.001	NA	0.001	NA	0.0025	NA
Maximum value:			0.032	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-3
Analytical Results and Statistical Analysis of PAHs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Benzo (k) fluoranthene (mg/kg)		Chrysene (mg/kg)		Dibenz (a,h) anthracene (mg/kg)		Fluoranthene (mg/kg)		Florene (mg/kg)		Ideno(1,2,3-cd) pyrene (mg/kg)	
GP-25	6/18/97	15	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
GP-25	6/18/97	20	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
GP-25	6/18/97	25	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
GP-26	6/18/97	35	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
GP-32	6/19/97	5	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
GP-34	6/20/97	5	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
HS-3	6/18/97	26	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
HS-3	6/18/97	46	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
HS-3	6/18/97	51	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
HS-5	7/13/97	16	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
HS-8	7/13/97	11	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
Count including ND values (n):			11	11	11	11	11	11	11	11	11	11	11	11
Degrees of Freedom (n-1):			10	10	10	10	10	10	10	10	10	10	10	10
Arithmetic Mean of LT data:			NA	-6.91	NA	-5.99	NA	-5.99	NA	-5.99	NA	-4.61	NA	-5.99
Arithmetic Mean:			1.00E-03	NA	2.50E-03	NA	2.50E-03	NA	2.50E-03	NA	1.00E-02	NA	2.50E-03	NA
[1]Variance of LT data(s^2):			NA	7.52E-15	NA	-1.50E-14	NA	-1.50E-14	NA	-1.50E-14	NA	-3.76E-15	NA	-1.50E-14
[1]Variance (s^2):			-4.48E-22	NA	2.69E-21	NA	2.69E-21	NA	2.69E-21	NA	4.30E-20	NA	2.69E-21	NA
[1] Standard deviation of LT data (s):			NA	8.67E-08	NA	#NUM!	NA	#NUM!	NA	#NUM!	NA	#NUM!	NA	#NUM!
[1]Standard deviation (s):			#NUM!	NA	0.0000	NA	0.0000	NA	0.0000	NA	0.0000	NA	0.0000	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA		NA		NA		NA		NA		NA	
Student's t value ($t_{0.1}$):			1.81	NA	1.81	NA	1.81	NA	1.81	NA	1.81	NA	1.81	NA
95% upper confidence level (UCL):			#NUM!	0.0010	0.0025	#NUM!	0.0025	#NUM!	0.0025	#NUM!	0.0100	#NUM!	0.0025	#NUM!
Minimum value:			0.001	NA	0.0025	NA	0.0025	NA	0.0025	NA	0.01	NA	0.0025	NA
Maximum value:			0	NA	0	NA	0	NA	0	NA	0	NA	0	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-3
Analytical Results and Statistical Analysis of PAHs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Naphthalene (mg/kg)		Phenanthrene (mg/kg)		Pyrene (mg/kg)	
GP-25	6/18/97	15	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
GP-25	6/18/97	20	<0.02	-4.605	0.006	-5.116	<0.005	-5.991
GP-25	6/18/97	25	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
GP-26	6/18/97	35	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
GP-32	6/19/97	5	0.13	-2.040	<0.005	-5.991	<0.005	-5.991
GP-34	6/20/97	5	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-3	6/18/97	26	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-3	6/18/97	46	0.021	-3.863	<0.005	-5.991	<0.005	-5.991
HS-3	6/18/97	51	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-5	7/13/97	16	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-8	7/13/97	11	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
Count including ND values (n):			11	11	11	11	11	11
Degrees of Freedom (n-1):			10	10	10	10	10	10
Arithmetic Mean of LT data:			NA	-4.30	NA	-5.91	NA	-5.99
Arithmetic Mean:			2.19E-02	NA	2.82E-03	NA	2.50E-03	NA
[1]Variance of LT data(s^2):			NA	5.58E-01	NA	6.33E-02	NA	-1.50E-14
[1]Variance (s^2):			1.18E-03	NA	1.01E-06	NA	2.69E-21	NA
[1] Standard deviation of LT data (s):			NA	7.47E-01	NA	2.52E-01	NA	#NUM!
[1]Standard deviation (s):			0.0343	NA	0.0010	NA	0.0000	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	2.621	NA	1.929	NA	
Student's t value ($t_{0.1}$):			1.81	NA	1.81	NA	1.81	NA
95% upper confidence level (UCL):			0.0407	0.0332	0.0034	0.0033	0.0025	#NUM!
Minimum value:			0.01	NA	0.0025	NA	0.0025	NA
Maximum value:			0.13	NA	0.006	NA	0	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Arsenic (mg/kg)		Lead (mg/kg)		Antimony (mg/kg)		Barium (mg/kg)		Beryllium (mg/kg)		Cadmium (mg/kg)		Chromium, VI (mg/kg)		Chromium, total (mg/kg)	
HS-3-26	07/12/97	26	14	2.639	9.4	2.241	<10	1.609	680	6.522	<0.5	-1.386	0.59	-0.528	<0.5	-1.386	28	3.332
HS-3-46	07/12/97	46	2.1	0.742	<2	0.000	<10	1.609	45	3.807	<0.5	-1.386	<0.5	-1.386	<0.5	-1.386	9.8	2.282
HS-3-51	07/12/97	51	<2	0.000	2.7	0.993	<10	1.609	85	4.443	<0.5	-1.386	0.55	-0.598	<0.5	-1.386	16	2.773
HS-5-6.5	07/12/97	6.5	3.2	1.163	43	3.761	<10	1.609	130	4.868	<0.5	-1.386	1.1	0.095	<0.5	-1.386	34	3.526
HS-5-16	07/12/97	16	<2	0.000	5	1.609	<10	1.609	120	4.787	<0.5	-1.386	0.75	-0.288	<0.5	-1.386	22	3.091
HS-6-6.5	07/12/97	6.5	2.4	0.875	4.4	1.482	<10	1.609	110	4.700	<0.5	-1.386	0.69	-0.371	<0.5	-1.386	22	3.091
HS-8-11	07/12/97	11	4.5	1.504	4.9	1.589	<10	1.609	130	4.868	<0.5	-1.386	0.64	-0.446	<0.5	-1.386	22	3.091
JF-M1-S37-EW-8	11/02/00	8	4.31	1.461	6.1	1.808												
JF-M3-S34-WW-14	10/31/00	14	2.15	0.765	2.67	0.982												
JF-M3-S35-NW-13	10/31/00	13	4.93	1.595	4.85	1.579												
JF-M3-S36-SW-13	10/31/00	13	2.96	1.085	3.2	1.163												
JF-M8-S30-SW-10	10/30/00	10	2.35	0.854	7.75	2.048												
JF-M8-S31-EW-10	10/30/00	10	3.96	1.376	6.01	1.793												
JF-M8-S32-NW-10	10/30/00	10	2.47	0.904	15.1	2.715												
JF-M3-S33-EW-10	10/30/00	10	1.91	0.647	2.48	0.908												
JF-M8-S27-B-13	10/26/00	13	5.36	1.679	4.63	1.533												
JF-M8-S28-WW-10	10/26/00	10	6.23	1.829	5.5	1.705												
JF-SB49-S4-B-B13	10/26/00	13	2.65	0.975	2.52	0.924												
JF-SB49-S5B-SW10	10/26/00	10	5.57	1.717	6.15	1.816												
JF-M2-S16-B-10	10/25/00	10	4.15	1.423	4.95	1.599												
JF-M9-S17-WW-5	10/25/00	5	3.51	1.256	4.25	1.447												
JF-M9-S18-NW-5	10/25/00	5	2.56	0.940	3.94	1.371												
JF-M9-S20-SW-5	10/25/00	5	3.51	1.256	4.22	1.440												
JF-M9-S21-EW-5	10/25/00	5	3.52	1.258	4.1	1.411												
JF-M7-S22-EW-8	10/25/00	8	4.16	1.426	4.82	1.573												
JF-M7-S23-SW-8	10/25/00	8	4.02	1.391	4.64	1.535												
JF-M7-S24-B-13	10/25/00	13	2.78	1.022	2.81	1.033												
JF-M7-S25-WW-8	10/25/00	8	4.65	1.537	4.64	1.535												
JF-M7-S26-NW8	10/25/00	8	4.64	1.535	5.85	1.766												
JF-SB49-S1-SW-5	10/24/00	5	3.85	1.348	4.63	1.533												
JF-SB49-S2-NW-5	10/24/00	5	3.22	1.169	4.29	1.456												
JF-SB49-S3-B-6	10/24/00	5	4.51	1.506	4.32	1.463												
JF-SB49-S5-SW-5	10/24/00	5	3.61	1.284	4.06	1.401												
JF-SB49-S6-NW-5	10/24/00	5	4.07	1.404	5.12	1.633												
JF-SB49-S8-SW-5	10/24/00	5	3.56	1.270	4.36	1.472												
JF-SB49-S11-SW-5	10/24/00	5	4.44	1.491	4.31	1.461												
JF-SB49-S13-B-6	10/24/00	6	4.36	1.472	4.65	1.537												
JF-SB49-S14-SW-5	10/24/00	5	4.12	1.416	4.76	1.560												
JF-SB49-S15-NW-5	10/24/00	5	4.29	1.456	4.39	1.479												

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jaik Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Arsenic (mg/kg)		Lead (mg/kg)		Antimony (mg/kg)		Barium (mg/kg)		Beryllium (mg/kg)		Cadmium (mg/kg)		Chromium, VI (mg/kg)		Chromium, total (mg/kg)	
Count including ND values (n):			39	39	39	39	7	7	7	7	7	7	7	7	7	7	7	7
Degrees of Freedom (n-1):			38	38	38	38	6	6	6	6	6	6	6	6	6	6	6	6
Arithmetic Mean of LT data:			NA	1.25	NA	1.55	NA	1.61	NA	4.86	NA	-1.39	NA	-0.50	NA	-1.39	NA	3.03
Arithmetic Mean:			3.86	NA	5.81	NA	5	NA	185.71	NA	0.25	NA	0.65	NA	0.25	NA	21.97	NA
Sample Variance of LT data(s^2):			NA	0.21	NA	0.30	NA	5.8003E-16	NA	0.58	NA	2.9E-16	NA	0.17	NA	2.9E-16	NA	0.14
Sample Variance (s^2):			4.03	NA	41.20	NA	0	NA	41503	NA	0	NA	0.06	NA	0	NA	52.12	NA
Standard Deviation, LT data (s):			NA	0.46	NA	0.55	NA	0.00	NA	0.76	NA	0.00	NA	0.42	NA	0.00	NA	0.37
Standard deviation (s):			2.01	NA	6.42	NA	0	NA	203.72	NA	0	NA	0.24	NA	0	NA	7.22	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[1]H Statistic for LT data:			NA	1.86	NA	1.77	NA		NA	3.05	NA		NA	2.32	NA		NA	2.23
Student's t value ($t_{0.1}$):			1.69	NA	1.69	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA
95% upper confidence level (UCL):			4.40	4.43	7.54	6.39	5	5	335.34	445.53	0.25	0.25	0.83	0.98	0.25	0.25	27.27	31.08
Minimum value:			1.00	NA	1.00	NA	5	NA	45	NA	0.25	NA	0.250	NA	0.25	NA	9.8	NA
Maximum value:			14	NA	43	NA	0	NA	680	NA	0	NA	1.1	NA	0	NA	34	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Based on Gilbert, 1987

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Cobalt (mg/kg)		Copper (mg/kg)		Mercury (mg/kg)		Molybdenum (mg/kg)		Nickel (mg/kg)		Selenium (mg/kg)		Silver (mg/kg)	
HS-3-26	07/12/97	26	19	2.944	38	3.638	0.064	-2.749	<1	-0.693	35	3.555	<2	0.000	<1	-0.693
HS-3-46	07/12/97	46	4.6	1.526	9.1	2.208	0.041	-3.194	<1	-0.693	9.1	2.208	<2	0.000	<1	-0.693
HS-3-51	07/12/97	51	10	2.303	17	2.833	0.066	-2.718	<1	-0.693	16	2.773	<2	0.000	<1	-0.693
HS-5-6.5	07/12/97	6.5	13	2.565	33	3.497	0.044	-3.124	3.1	1.131	27	3.296	<2	0.000	<1	-0.693
HS-5-16	07/12/97	16	11	2.398	22	3.091	0.067	-2.703	<1	-0.693	23	3.135	<2	0.000	<1	-0.693
HS-6-6.5	07/12/97	6.5	12	2.485	18	2.890	0.049	-3.016	<1	-0.693	20	2.996	<2	0.000	<1	-0.693
HS-8-11	07/12/97	11	12	2.485	20	2.996	0.04	-3.219	<1	-0.693	21	3.045	<2	0.000	<1	-0.693
JF-M1-S37-EW-8	11/02/00	8														
JF-M3-S34-WW-14	10/31/00	14														
JF-M3-S35-NW-13	10/31/00	13														
JF-M3-S36-SW-13	10/31/00	13														
JF-M8-S30-SW-10	10/30/00	10														
JF-M8-S31-EW-10	10/30/00	10														
JF-M8-S32-NW-10	10/30/00	10														
JF-M3-S33-EW-10	10/30/00	10														
JF-M8-S27-B-13	10/26/00	13														
JF-M8-S28-WW-10	10/26/00	10														
JF-SB49-S4-B-B13	10/26/00	13														
JF-SB49-S5B-SW10	10/26/00	10														
JF-M2-S16-B-10	10/25/00	10														
JF-M9-S17-WW-5	10/25/00	5														
JF-M9-S18-NW-5	10/25/00	5														
JF-M9-S20-SW-5	10/25/00	5														
JF-M9-S21-EW-5	10/25/00	5														
JF-M7-S22-EW-8	10/25/00	8														
JF-M7-S23-SW-8	10/25/00	8														
JF-M7-S24-B-13	10/25/00	13														
JF-M7-S25-WW-8	10/25/00	8														
JF-M7-S26-NW8	10/25/00	8														
JF-SB49-S1-SW-5	10/24/00	5														
JF-SB49-S2-NW-5	10/24/00	5														
JF-SB49-S3-B-6	10/24/00	5														
JF-SB49-S5-SW-5	10/24/00	5														
JF-SB49-S6-NW-5	10/24/00	5														
JF-SB49-S8-SW-5	10/24/00	5														
JF-SB49-S11-SW-5	10/24/00	5														
JF-SB49-S13-B-6	10/24/00	6														
JF-SB49-S14-SW-5	10/24/00	5														
JF-SB49-S15-NW-5	10/24/00	5														

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Cobalt (mg/kg)		Copper (mg/kg)		Mercury (mg/kg)		Molybdenum (mg/kg)		Nickel (mg/kg)		Selenium (mg/kg)		Silver (mg/kg)	
Count including ND values (n):			7	7	7	7	7	7	7	7	7	7	7	7	7	7
Degrees of Freedom (n-1):			6	6	6	6	6	6	6	6	6	6	6	6	6	6
Arithmetic Mean of LT data:			NA	2.39	NA	3.02	NA	-2.96	NA	-0.43	NA	3.00	NA	0	NA	-0.69
Arithmetic Mean:			11.66	NA	22.44	NA	0.05	NA	0.87	NA	21.59	NA	1	NA	0.5	NA
Sample Variance of LT data(s^2):			NA	0.16	NA	0.19	NA	0.05	NA	0.41	NA	0.16	NA	0	NA	7.25E-17
Sample Variance (s^2):			15.56	NA	83.86	NA	0.00	NA	0.83	NA	57.32	NA	0	NA	0	NA
Standard Deviation, LT data (s):			NA	0.40	NA	0.44	NA	0.21	NA	0.64	NA	0.40	NA	0.00	NA	0.00
Standard deviation (s):			3.94	NA	9.16	NA	0.01	NA	0.91	NA	7.57	NA	0	NA	0	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[1]H Statistic for LT data:			NA	2.28	NA	2.36	NA	2.01	NA	2.77	NA	2.28	NA		NA	
Student's t value ($t_{0.1}$):			1.94	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA
95% upper confidence level (UCL):			14.55	17.06	29.17	34.29	0.06	0.06	1.54	1.64	27.15	31.43	1	1	0.5	0.5
Minimum value:			4.6	NA	9.10	NA	0.04	NA	0.50	NA	9.10	NA	1.00	NA	0.50	NA
Maximum value:			19	NA	38	NA	0.067	NA	3.1	NA	35	NA	0	NA	0	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Based on Gilbert, 1987

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Thallium (mg/kg)		Vanadium (mg/kg)		Zinc (mg/kg)	
HS-3-26	07/12/97	26	<10	1.609	63	4.143	75	4.317
HS-3-46	07/12/97	46	<10	1.609	15	2.708	20	2.996
HS-3-51	07/12/97	51	<10	1.609	35	3.555	44	3.784
HS-5-6.5	07/12/97	6.5	<10	1.609	37	3.611	86	4.454
HS-5-16	07/12/97	16	<10	1.609	30	3.401	55	4.007
HS-6-6.5	07/12/97	6.5	<10	1.609	39	3.664	46	3.829
HS-8-11	07/12/97	11	<10	1.609	36	3.584	45	3.807
JF-M1-S37-EW-8	11/02/00	8						
JF-M3-S34-WW-14	10/31/00	14						
JF-M3-S35-NW-13	10/31/00	13						
JF-M3-S36-SW-13	10/31/00	13						
JF-M8-S30-SW-10	10/30/00	10						
JF-M8-S31-EW-10	10/30/00	10						
JF-M8-S32-NW-10	10/30/00	10						
JF-M3-S33-EW-10	10/30/00	10						
JF-M8-S27-B-13	10/26/00	13						
JF-M8-S28-WW-10	10/26/00	10						
JF-SB49-S4-B-B13	10/26/00	13						
JF-SB49-S5B-SW10	10/26/00	10						
JF-M2-S16-B-10	10/25/00	10						
JF-M9-S17-WW-5	10/25/00	5						
JF-M9-S18-NW-5	10/25/00	5						
JF-M9-S20-SW-5	10/25/00	5						
JF-M9-S21-EW-5	10/25/00	5						
JF-M7-S22-EW-8	10/25/00	8						
JF-M7-S23-SW-8	10/25/00	8						
JF-M7-S24-B-13	10/25/00	13						
JF-M7-S25-WW-8	10/25/00	8						
JF-M7-S26-NW8	10/25/00	8						
JF-SB49-S1-SW-5	10/24/00	5						
JF-SB49-S2-NW-5	10/24/00	5						
JF-SB49-S3-B-6	10/24/00	5						
JF-SB49-S5-SW-5	10/24/00	5						
JF-SB49-S6-NW-5	10/24/00	5						
JF-SB49-S8-SW-5	10/24/00	5						
JF-SB49-S11-SW-5	10/24/00	5						
JF-SB49-S13-B-6	10/24/00	6						
JF-SB49-S14-SW-5	10/24/00	5						
JF-SB49-S15-NW-5	10/24/00	5						

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Thallium (mg/kg)		Vanadium (mg/kg)		Zinc (mg/kg)	
Count including ND values (n):			7	7	7	7	7	7
Degrees of Freedom (n-1):			6	6	6	6	6	6
Arithmetic Mean of LT data:			NA	1.61	NA	3.52	NA	3.88
Arithmetic Mean:			5	NA	36.43	NA	53.00	NA
Sample Variance of LT data(s^2):			NA	5.8E-16	NA	0.16	NA	0.19
Sample Variance (s^2):			0	NA	173.67	NA	408.57	NA
Standard Deviation, LT data (s):			NA	0.00	NA	0.40	NA	0.44
Standard deviation (s):			0	NA	13.18	NA	20.21	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1
[1]H Statistic for LT data:			NA		NA	2.28	NA	2.36
Student's t value ($t_{0.1}$):			1.94	NA	1.94	NA	1.94	NA
95% upper confidence level (UCL):			5	5	46.11	53.01	67.85	81.49
Minimum value:			5.00	NA	15.00	NA	20.00	NA
Maximum value:			0	NA	63	NA	86	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Based on Gilbert, 1987

SESOIL MODELING OUTPUT - PCE

1

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*****************************************************************************************
*****                                                                           *****
***** SESOIL-84 :  SEASONAL CYCLES OF WATER, SEDIMENT, AND POLLUTANTS IN SOIL ENVIRONMENTS      *****
*****                                                                           *****
***** DEVELOPERS:  M. BONAZOUNTAS,ARTHUR D. LITTLE INC.  ,(617)864-5770,X5871          *****
*****             J. WAGNER     ,DIS/ADLPIPE, INC.      ,(617)492-1991,X5820          *****
*****                                                                           *****
***** MODIFIED EXTENSIVELY BY:                                                 *****
***** D.M. HETRICK                                                       *****
***** OAK RIDGE NATIONAL LABORATORY                                             *****
***** (615) 576-7556                                                     *****
***** VERSION   : JANUARY 1995                                                 *****
*****                                                                           *****
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****** MONTHLY SESOIL MODEL OPERATION ******
MONTHLY SITE SPECIFIC SIMULATION

REGION : BREA DAM
SOIL TYPE : Silty Sand
COMPOUND : Tetrachloroethylene
WASHLOAD DATA :
APPLICATION AREA: PCE Simulation

WARNING- SOIL PERMEABILITY VARYS CONSIDERABLY AMONG LAYERS
SESOIL MAY NOT BE ACCURATE FOR SUCH AN INHOMOGENEOUS COLUMN

GENERAL INPUT PARAMETERS
==========

-- SOIL INPUT PARAMETERS --

SOIL DENSITY (G/CM**3): 1.49
INTRINSIC PERMEABILITY (CM**2): .000
DISCONNECTEDNESS INDEX (-): 3.90
POROSITY (-): .280
ORGANIC CARBON CONTENT (%): .930E-01
CATION EXCHANGE CAPACITY (MILLI EQ./100G DRY SOIL): .000
FREUNDLICH EXPONENT (-): 1.00
1

-- CHEMICAL INPUT PARAMETERS --

SOLUBILITY (UG/ML): 240.
DIFFUSION COEFFICIENT IN AIR (CM**2/SEC): .739E-02
HENRYS LAW CONSTANT (M**3-ATM/MOLE): .174E-01
ADSORPTION COEFFICIENT ON ORGANIC CARBON(KOC): 364.
ADSORPTION COEFFICIENT ON SOIL (K): .000
MOLECULAR WEIGHT (G/MOL): 166.
VALENCE (-): .000
NEUTRAL HYDROLYSIS CONSTANT (/DAY): .000
BASE HYDROLYSIS CONSTANT (L/MOL-DAY): .000
ACID HYDROLYSIS CONSTANT (L/MOL-DAY): .000
DEGRADATION RATE IN MOISTURE (/DAY): .000
DEGRADATION RATE ON SOIL (/DAY): .000
LIGAND-POLLUTANT STABILITY CONSTANT (-): .000
NO. MOLES LIGAND/MOLE POLLUTANT (-): .000
LIGAND MOLECULAR WEIGHT (G/MOL): .000

-- APPLICATION INPUT PARAMETERS --

NUMBER OF SOIL LAYERS: 4

YEARS TO BE SIMULATED: 150
AREA (CM**2): 0.140E+08
APPLICATION AREA LATITUDE (DEG.): 33.9
SPILL (1) OR STEADY APPLICATION (0): 1
MODIFIED SUMMERS MODEL USED (1) OR NOT (0) FOR GWR. CONC.: 1
INITIAL CHEMICAL CONCENTRATIONS GIVEN (1) OR NOT GIVEN (0) 1
DEPTHS (CM): 0.70E+03 91. 0.40E+03 0.64E+03
NUMBER OF SUBLAYERS/LAYER 1 1 1 10
PH (CM): 0.00 0.00 0.00 0.00
INTRINSIC PERMEABILITIES (CM**2): 0.24E-07 0.94E-09 0.36E-10 0.81E-07
KDEL RATIOS (-): 1.0 1.0 1.0
KDES RATIOS (-): 1.0 1.0 1.0
OC RATIOS (-): 1.0 1.0 1.0
CEC RATIOS (-): 1.0 1.0 1.0
FRN RATIOS(-): 1.0 1.0 1.0
ADS RATIOS(-): 1.0 1.0 1.0
1

YEAR - 1 MONTHLY INPUT PARAMETERS
========= ========================

-- CLIMATIC INPUT PARAMETERS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TEMP. (DEG C)	17.720	14.110	11.390	10.610	11.390	12.170	14.110	16.280	18.610	21.890	22.110	20.940
CLOUD CVR (FRAC.)	0.350	0.400	0.500	0.500	0.450	0.500	0.500	0.450	0.400	0.300	0.250	0.250
REL. HUM.(FRAC.)	0.650	0.550	0.600	0.650	0.600	0.600	0.700	0.600	0.650	0.550	0.650	0.650
ALBEDO (-)	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190
EVAPOT. (CM/DAY)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PRECIP. (CM)	0.530	4.020	4.390	8.100	6.020	4.900	2.540	0.450	0.090	0.030	0.260	0.680
M.TIME RAIN(DAYS)	0.100	0.400	0.430	0.520	0.410	0.340	0.280	0.110	0.029	0.014	0.010	0.081
M. STORM NO. (-)	0.550	2.000	2.410	3.500	2.700	2.970	2.000	0.390	0.130	0.090	0.090	0.320
M. SEASON (DAYS)	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400

INITIAL POLLUTANT CONCENTRATIONS IN UG/ML,INPUT FOR MONTH 1 OF YEAR 1

LAYER 1:
SUBLAYER 1
INITIAL CONC. (UG/ML) 1.48E+00

LAYER 2:
SUBLAYER 1
INITIAL CONC. (UG/ML) 1.40E-01

LAYER 3:
SUBLAYER 1
INITIAL CONC. (UG/ML) 3.30E-01

LAYER 4:
SUBLAYER 1 2 3 4 5 6 7 8 9 10
INITIAL CONC. (UG/ML) 3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02

-- POLLUTANT INPUT PARAMETERS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
POL. INP-1 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRNSFORMD-1 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SINKS-1 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LIG.INPUT-1 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VOLATILIZATION MULT.-1	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00

SURFACE RUNOFF MULT. 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
OL. IN RAIN (FRAC-SL) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

POL. INP-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-2 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00

POL. INP-3 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-3 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-3 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-3 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-3 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00

POL. INP-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-L 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00
1

YEAR - 2 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
OL. INP-1 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RNSFORMD-1 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SINKS-1 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LIG.INPUT-1 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VOLATILIZATION MULT.-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SURFACE RUNOFF MULT.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
POL. IN RAIN (FRAC-SL)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

POL. INP-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-2 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

POL. INP-3 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-3 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-3 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-3 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-3 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

POL. INP-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-L 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
1

YEAR - 3 through 150 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

--MODIFIED SUMMERS MODEL PARAMETERS --
(INPUT FOR CALCULATION OF CONTAMINANT IN GROUNDWATER)

SATURATED HYDRAULIC CONDUCTIVITY (CM/DAY): 8.64E+02
HORIZONTAL HYDRAULIC GRADIENT: 6.00E-02
THICKNESS OF SATURATED CONE (CM): 3.05E+02
WIDTH OF CONTAMINATED ZONE PERPENDICULAR TO FLOW (CM): 5.33E+03
BACKGROUND CONTAMINANT CONCENTRATION IN AQUIFER (UG/ML): 0.00E+00

1

YEAR - 1 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.881	8.497	9.253	11.045	11.045	10.569	9.729	9.029	8.581	8.245	7.965	7.685
MOIS. BELOW L1 (%)	7.881	8.497	9.253	11.045	11.045	10.569	9.729	9.029	8.581	8.245	7.965	7.685
PRECIPATION (CM)	0.577	4.009	4.377	8.046	6.071	4.890	2.552	0.477	0.104	0.062	0.309	0.685
NET INFILT. (CM)	0.488	3.319	3.710	6.351	4.643	4.064	2.274	0.379	0.078	0.054	0.051	0.392
EVAPOTRANS. (CM)	1.215	2.410	2.475	3.109	4.117	4.390	3.344	1.358	0.726	0.574	0.535	0.913
MOIS. RETEN (CM)	-0.640	0.938	1.152	2.730	0.000	-0.725	-1.280	-1.066	-0.682	-0.512	-0.427	-0.427
SUR. RUNOFF (CM)	0.089	0.690	0.667	1.695	1.428	0.826	0.278	0.098	0.026	0.000	0.258	0.293
GRW. RUNOFF (CM)	-0.087	-0.030	0.083	0.512	0.527	0.399	0.209	0.088	0.035	-0.009	-0.057	-0.095
YIELD (CM)	0.002	0.660	0.750	2.206	1.954	1.225	0.487	0.185	0.061	-0.001	0.201	0.199
PAU/MPA (GZU)	1.089	0.997	0.997	0.993	1.008	0.998	1.005	1.060	1.154	2.058	1.189	1.008
PA/MPA (GZ)	1.089	0.997	0.997	0.993	1.008	0.998	1.005	1.060	1.154	2.058	1.189	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) - INCLUDES INITIAL POLLUTANT CONCENTRATIONS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	1.452E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	1.784E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	1.830E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	2.957E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	1.683E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED	3.252E+07	2.123E+07	1.051E+07	3.352E+06	1.296E+06	6.852E+05	4.793E+05	4.714E+05	5.507E+05	6.546E+05	7.825E+05	9.035E+05
IN SOIL MOI	1.417E+09	8.680E+08	5.174E+08	2.083E+08	9.504E+07	4.691E+07	3.149E+07	3.063E+07	3.287E+07	3.623E+07	3.983E+07	4.090E+07

ADS ON SOIL 9.067E+09 5.152E+09 2.820E+09 9.513E+08 4.340E+08 2.239E+08 1.633E+08 1.711E+08 1.932E+08 2.216E+08 2.523E+08 2.684E+08
SOIL AIR 2.623E+09 1.463E+09 7.773E+08 2.401E+08 1.094E+08 5.790E+07 4.342E+07 4.687E+07 5.372E+07 6.173E+07 7.122E+07 7.711E+07

SOIL ZONE 2:

SUBLAYER 1

DIFFUSED UP 0.000E+00 2.255E+08 2.967E+08 1.362E+08 6.263E+07 3.557E+07 2.722E+07 2.961E+07 3.668E+07 4.397E+07 5.110E+07 5.620E+07
IN SOIL MOI 1.522E+08 4.254E+08 3.658E+08 1.909E+08 9.287E+07 4.903E+07 3.581E+07 3.757E+07 4.158E+07 4.538E+07 4.808E+07 4.717E+07
ADS ON SOIL 9.738E+08 2.525E+09 1.994E+09 8.717E+08 4.241E+08 2.340E+08 1.856E+08 2.099E+08 2.444E+08 2.776E+08 3.045E+08 3.096E+08
IN SOIL AIR 2.817E+08 7.171E+08 5.496E+08 2.201E+08 1.069E+08 6.051E+07 4.936E+07 5.750E+07 6.795E+07 7.733E+07 8.597E+07 8.893E+07

SOIL ZONE 3:

SUBLAYER 1

DIFFUSED UP 6.077E+05 0.000E+00 0.000E+00 1.483E+07 4.474E+07 6.205E+07 7.700E+07 8.752E+07 9.248E+07 9.485E+07 9.753E+07 1.014E+08
IN SOIL MOI 2.146E+08 6.154E+08 1.182E+09 2.036E+09 2.238E+09 2.222E+09 2.075E+09 1.927E+09 1.828E+09 1.754E+09 1.687E+09 1.625E+09
ADS ON SOIL 1.374E+09 3.653E+09 6.444E+09 9.296E+09 1.022E+10 1.060E+10 1.076E+10 1.077E+10 1.075E+10 1.073E+10 1.069E+10 1.066E+10
IN SOIL AIR 3.973E+08 1.037E+09 1.776E+09 2.347E+09 2.576E+09 2.742E+09 2.861E+09 2.950E+09 2.988E+09 2.989E+09 3.017E+09 3.063E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 3.275E+06 4.497E+06 7.565E+06 1.831E+07 2.683E+07 3.293E+07 3.421E+07 3.258E+07 3.124E+07 3.021E+07 2.934E+07 2.884E+07
ADS ON SOIL 2.096E+07 2.670E+07 4.124E+07 8.363E+07 1.225E+08 1.571E+08 1.774E+08 1.820E+08 1.836E+08 1.848E+08 1.858E+08 1.893E+08
IN SOIL AIR 6.063E+06 7.581E+06 1.137E+07 2.111E+07 3.087E+07 4.063E+07 4.716E+07 4.985E+07 5.105E+07 5.149E+07 5.246E+07 5.438E+07

SUBLAYER 2

IN SOIL MOI 3.198E+06 3.451E+06 3.813E+06 4.970E+06 5.655E+06 6.212E+06 6.246E+06 5.922E+06 5.674E+06 5.486E+06 5.324E+06 5.218E+06
ADS ON SOIL 2.046E+07 2.048E+07 2.078E+07 2.270E+07 2.582E+07 2.964E+07 3.238E+07 3.308E+07 3.335E+07 3.356E+07 3.371E+07 3.425E+07
IN SOIL AIR 5.919E+06 5.817E+06 5.728E+06 5.729E+06 6.507E+06 7.666E+06 8.611E+06 9.063E+06 9.273E+06 9.348E+06 9.519E+06 9.838E+06

SUBLAYER 3

IN SOIL MOI 3.197E+06 3.440E+06 3.740E+06 4.458E+06 4.502E+06 4.372E+06 4.089E+06 3.818E+06 3.643E+06 3.516E+06 3.402E+06 3.291E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.036E+07 2.056E+07 2.086E+07 2.120E+07 2.133E+07 2.141E+07 2.151E+07 2.154E+07 2.160E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.619E+06 5.139E+06 5.180E+06 5.395E+06 5.637E+06 5.843E+06 5.954E+06 5.992E+06 6.083E+06 6.204E+06

SUBLAYER 4

IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.444E+06 4.460E+06 4.289E+06 3.981E+06 3.711E+06 3.539E+06 3.415E+06 3.303E+06 3.190E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.030E+07 2.037E+07 2.047E+07 2.064E+07 2.073E+07 2.080E+07 2.089E+07 2.092E+07 2.094E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.617E+06 5.124E+06 5.132E+06 5.294E+06 5.488E+06 5.679E+06 5.783E+06 5.819E+06 5.906E+06 6.014E+06

SUBLAYER 5

IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.444E+06 4.459E+06 4.287E+06 3.977E+06 3.707E+06 3.535E+06 3.411E+06 3.300E+06 3.187E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.030E+07 2.036E+07 2.046E+07 2.062E+07 2.071E+07 2.078E+07 2.087E+07 2.090E+07 2.092E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.617E+06 5.123E+06 5.131E+06 5.290E+06 5.483E+06 5.673E+06 5.777E+06 5.813E+06 5.900E+06 6.009E+06

SUBLAYER 6

DIFFUSED UP 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.607E+01 3.271E+02 9.904E+02 2.012E+03 3.340E+03 4.871E+03
IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.444E+06 4.459E+06 4.287E+06 3.978E+06 3.707E+06 3.536E+06 3.412E+06 3.302E+06 3.189E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.030E+07 2.036E+07 2.046E+07 2.062E+07 2.071E+07 2.078E+07 2.088E+07 2.091E+07 2.093E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.617E+06 5.123E+06 5.131E+06 5.290E+06 5.483E+06 5.673E+06 5.778E+06 5.815E+06 5.903E+06 6.013E+06

SUBLAYER 7

DIFFUSED UP 0.000E+00 0.000E+00 8.349E-01 7.285E+00 6.764E+01 3.057E+02 1.042E+03 2.679E+03 5.223E+03 8.264E+03 1.147E+04 1.452E+04
IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.444E+06 4.459E+06 4.287E+06 3.979E+06 3.709E+06 3.539E+06 3.417E+06 3.307E+06 3.195E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.030E+07 2.036E+07 2.046E+07 2.063E+07 2.072E+07 2.080E+07 2.090E+07 2.094E+07 2.097E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.617E+06 5.123E+06 5.131E+06 5.291E+06 5.485E+06 5.676E+06 5.783E+06 5.822E+06 5.912E+06 6.023E+06

SUBLAYER 8

DIFFUSED UP 0.000E+00 0.000E+00 1.675E+01 1.598E+02 8.375E+02 2.783E+03 6.936E+03 1.327E+04 1.993E+04 2.529E+04 2.917E+04 3.160E+04

IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.445E+06 4.461E+06 4.290E+06 3.984E+06 3.718E+06 3.549E+06 3.428E+06 3.319E+06 3.207E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.030E+07 2.037E+07 2.048E+07 2.066E+07 2.077E+07 2.086E+07 2.097E+07 2.102E+07 2.105E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.617E+06 5.124E+06 5.133E+06 5.295E+06 5.493E+06 5.689E+06 5.801E+06 5.842E+06 5.934E+06 6.045E+06

SUBLAYER 9

DIFFUSED UP 0.000E+00 0.000E+00 3.626E+02 2.291E+03 8.641E+03 1.975E+04 3.479E+04 4.835E+04 5.504E+04 5.553E+04 5.295E+04 4.917E+04
IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.449E+06 4.472E+06 4.310E+06 4.010E+06 3.745E+06 3.575E+06 3.451E+06 3.339E+06 3.223E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.032E+07 2.042E+07 2.057E+07 2.079E+07 2.092E+07 2.101E+07 2.111E+07 2.114E+07 2.116E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.618E+06 5.129E+06 5.146E+06 5.319E+06 5.528E+06 5.730E+06 5.843E+06 5.882E+06 5.969E+06 6.077E+06

SUBLAYER 10

DIFFUSED UP 0.000E+00 0.000E+00 5.329E+03 3.027E+04 6.807E+04 9.901E+04 1.149E+05 1.091E+05 9.042E+04 7.026E+04 5.464E+04 4.395E+04
IN SOIL MOI 3.197E+06 3.440E+06 3.744E+06 4.495E+06 4.549E+06 4.395E+06 4.080E+06 3.796E+06 3.612E+06 3.477E+06 3.358E+06 3.238E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.041E+07 2.053E+07 2.077E+07 2.097E+07 2.115E+07 2.121E+07 2.123E+07 2.127E+07 2.126E+07 2.125E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.626E+06 5.181E+06 5.234E+06 5.424E+06 5.625E+06 5.809E+06 5.903E+06 5.926E+06 6.003E+06 6.104E+06

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.832E+00 1.041E+00 5.697E-01 1.922E-01 8.768E-02 4.523E-02 3.299E-02 3.456E-02 3.903E-02 4.477E-02 5.096E-02 5.423E-02
%SOLUBILITY 7.632E-01 4.337E-01 2.374E-01 8.007E-02 3.653E-02 1.885E-02 1.374E-02 1.440E-02 1.626E-02 1.865E-02 2.123E-02 2.260E-02
ADSORBED 6.200E-01 3.523E-01 1.929E-01 6.505E-02 2.968E-02 1.531E-02 1.117E-02 1.170E-02 1.321E-02 1.516E-02 1.725E-02 1.836E-02
SOIL AIR 1.328E+00 7.644E-01 4.225E-01 1.443E-01 6.573E-02 3.384E-02 2.421E-02 2.517E-02 2.819E-02 3.184E-02 3.622E-02 3.868E-02

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 1.515E+00 3.930E+00 3.103E+00 1.357E+00 6.600E-01 3.641E-01 2.889E-01 3.266E-01 3.803E-01 4.320E-01 4.738E-01 4.818E-01
%SOLUBILITY 6.314E-01 1.637E+00 1.293E+00 5.652E-01 2.750E-01 1.517E-01 1.204E-01 1.361E-01 1.585E-01 1.800E-01 1.974E-01 2.007E-01
ADSORBED 5.130E-01 1.330E+00 1.050E+00 4.592E-01 2.234E-01 1.233E-01 9.780E-02 1.106E-01 1.287E-01 1.462E-01 1.604E-01 1.631E-01
SOIL AIR 1.099E+00 2.886E+00 2.301E+00 1.019E+00 4.948E-01 2.725E-01 2.121E-01 2.379E-01 2.747E-01 3.073E-01 3.368E-01 3.436E-01

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 4.912E-01 1.306E+00 2.304E+00 3.324E+00 3.655E+00 3.792E+00 3.848E+00 3.851E+00 3.843E+00 3.837E+00 3.821E+00 3.813E+00
%SOLUBILITY 2.047E-01 5.443E-01 9.602E-01 1.385E+00 1.523E+00 1.580E+00 1.603E+00 1.604E+00 1.601E+00 1.599E+00 1.592E+00 1.589E+00
ADSORBED 1.663E-01 4.422E-01 7.801E-01 1.125E+00 1.237E+00 1.284E+00 1.303E+00 1.303E+00 1.301E+00 1.299E+00 1.294E+00 1.291E+00
SOIL AIR 3.562E-01 9.594E-01 1.709E+00 2.497E+00 2.740E+00 2.837E+00 2.825E+00 2.804E+00 2.775E+00 2.729E+00 2.716E+00 2.720E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.638E-02 5.907E-02 9.125E-02 1.850E-01 2.711E-01 3.477E-01 3.925E-01 4.027E-01 4.063E-01 4.090E-01 4.111E-01 4.189E-01
%SOLUBILITY 1.932E-02 2.461E-02 3.802E-02 7.710E-02 1.130E-01 1.449E-01 1.635E-01 1.678E-01 1.693E-01 1.704E-01 1.713E-01 1.745E-01
ADSORBED 1.570E-02 2.000E-02 3.089E-02 6.264E-02 9.177E-02 1.177E-01 1.329E-01 1.363E-01 1.375E-01 1.385E-01 1.392E-01 1.418E-01
SOIL AIR 3.363E-02 4.339E-02 6.767E-02 1.390E-01 2.032E-01 2.602E-01 2.881E-01 2.933E-01 2.934E-01 2.909E-01 2.922E-01 2.987E-01

SUBLAYER 2

MOISTURE 4.528E-02 4.533E-02 4.599E-02 5.022E-02 5.714E-02 6.559E-02 7.165E-02 7.321E-02 7.379E-02 7.425E-02 7.460E-02 7.578E-02
%SOLUBILITY 1.887E-02 1.889E-02 1.916E-02 2.092E-02 2.381E-02 2.733E-02 2.986E-02 3.050E-02 3.075E-02 3.094E-02 3.108E-02 3.158E-02
ADSORBED 1.533E-02 1.534E-02 1.557E-02 1.700E-02 1.934E-02 2.220E-02 2.426E-02 2.478E-02 2.498E-02 2.514E-02 2.525E-02 2.565E-02
SOIL AIR 3.284E-02 3.329E-02 3.410E-02 3.771E-02 4.283E-02 4.908E-02 5.260E-02 5.332E-02 5.330E-02 5.281E-02 5.303E-02 5.405E-02

SUBLAYER 3

MOISTURE 4.528E-02 4.518E-02 4.510E-02 4.504E-02 4.549E-02 4.617E-02 4.690E-02 4.719E-02 4.738E-02 4.759E-02 4.767E-02 4.779E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.877E-02 1.895E-02 1.924E-02 1.954E-02 1.966E-02 1.974E-02 1.983E-02 1.986E-02 1.991E-02
ADSORBED 1.533E-02 1.529E-02 1.527E-02 1.525E-02 1.540E-02 1.563E-02 1.588E-02 1.598E-02 1.604E-02 1.611E-02 1.614E-02 1.618E-02
SOIL AIR 3.284E-02 3.318E-02 3.345E-02 3.383E-02 3.410E-02 3.454E-02 3.443E-02 3.437E-02 3.422E-02 3.385E-02 3.389E-02 3.408E-02

SUBLAYER 4

MOISTURE 4.528E-02 4.518E-02 4.509E-02 4.491E-02 4.507E-02 4.529E-02 4.567E-02 4.587E-02 4.602E-02 4.622E-02 4.628E-02 4.632E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.871E-02 1.878E-02 1.887E-02 1.903E-02 1.911E-02 1.918E-02 1.926E-02 1.928E-02 1.930E-02
ADSORBED 1.533E-02 1.529E-02 1.526E-02 1.520E-02 1.526E-02 1.533E-02 1.546E-02 1.553E-02 1.558E-02 1.565E-02 1.567E-02 1.568E-02
SOIL AIR 3.284E-02 3.318E-02 3.344E-02 3.373E-02 3.379E-02 3.389E-02 3.353E-02 3.341E-02 3.324E-02 3.288E-02 3.290E-02 3.304E-02

SUBLAYER 5

MOISTURE 4.528E-02 4.518E-02 4.509E-02 4.491E-02 4.506E-02 4.527E-02 4.563E-02 4.582E-02 4.597E-02 4.618E-02 4.624E-02 4.629E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.871E-02 1.877E-02 1.886E-02 1.901E-02 1.909E-02 1.916E-02 1.924E-02 1.927E-02 1.929E-02
ADSORBED 1.533E-02 1.529E-02 1.526E-02 1.520E-02 1.525E-02 1.532E-02 1.545E-02 1.551E-02 1.556E-02 1.563E-02 1.565E-02 1.567E-02
SOIL AIR 3.284E-02 3.318E-02 3.344E-02 3.373E-02 3.378E-02 3.387E-02 3.349E-02 3.337E-02 3.320E-02 3.284E-02 3.287E-02 3.301E-02

SUBLAYER 6

MOISTURE 4.528E-02 4.518E-02 4.509E-02 4.491E-02 4.506E-02 4.527E-02 4.563E-02 4.583E-02 4.598E-02 4.619E-02 4.626E-02 4.632E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.871E-02 1.877E-02 1.886E-02 1.901E-02 1.909E-02 1.916E-02 1.925E-02 1.928E-02 1.930E-02
ADSORBED 1.533E-02 1.529E-02 1.526E-02 1.520E-02 1.525E-02 1.532E-02 1.545E-02 1.551E-02 1.557E-02 1.564E-02 1.566E-02 1.568E-02
SOIL AIR 3.284E-02 3.318E-02 3.344E-02 3.373E-02 3.378E-02 3.387E-02 3.349E-02 3.338E-02 3.321E-02 3.285E-02 3.289E-02 3.303E-02

SUBLAYER 7

MOISTURE 4.528E-02 4.518E-02 4.509E-02 4.491E-02 4.506E-02 4.527E-02 4.564E-02 4.585E-02 4.602E-02 4.625E-02 4.633E-02 4.640E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.871E-02 1.877E-02 1.886E-02 1.902E-02 1.910E-02 1.918E-02 1.927E-02 1.931E-02 1.933E-02
ADSORBED 1.533E-02 1.529E-02 1.526E-02 1.520E-02 1.525E-02 1.533E-02 1.545E-02 1.552E-02 1.558E-02 1.566E-02 1.569E-02 1.571E-02
SOIL AIR 3.284E-02 3.318E-02 3.344E-02 3.373E-02 3.378E-02 3.388E-02 3.350E-02 3.339E-02 3.324E-02 3.289E-02 3.294E-02 3.309E-02

SUBLAYER 8

MOISTURE 4.528E-02 4.518E-02 4.509E-02 4.491E-02 4.507E-02 4.531E-02 4.571E-02 4.595E-02 4.616E-02 4.640E-02 4.650E-02 4.657E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.871E-02 1.878E-02 1.888E-02 1.904E-02 1.915E-02 1.923E-02 1.934E-02 1.938E-02 1.940E-02
ADSORBED 1.533E-02 1.529E-02 1.526E-02 1.520E-02 1.526E-02 1.534E-02 1.547E-02 1.556E-02 1.563E-02 1.571E-02 1.574E-02 1.576E-02
SOIL AIR 3.284E-02 3.318E-02 3.344E-02 3.373E-02 3.379E-02 3.390E-02 3.355E-02 3.347E-02 3.334E-02 3.301E-02 3.305E-02 3.321E-02

SUBLAYER 9

MOISTURE 4.528E-02 4.518E-02 4.510E-02 4.495E-02 4.519E-02 4.552E-02 4.600E-02 4.629E-02 4.649E-02 4.672E-02 4.678E-02 4.681E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.873E-02 1.883E-02 1.897E-02 1.917E-02 1.929E-02 1.937E-02 1.947E-02 1.949E-02 1.950E-02
ADSORBED 1.533E-02 1.529E-02 1.527E-02 1.522E-02 1.530E-02 1.541E-02 1.557E-02 1.567E-02 1.574E-02 1.581E-02 1.584E-02 1.585E-02
SOIL AIR 3.284E-02 3.318E-02 3.345E-02 3.376E-02 3.388E-02 3.406E-02 3.377E-02 3.371E-02 3.358E-02 3.323E-02 3.325E-02 3.339E-02

SUBLAYER 10

MOISTURE 4.528E-02 4.518E-02 4.516E-02 4.542E-02 4.596E-02 4.641E-02 4.681E-02 4.692E-02 4.698E-02 4.707E-02 4.705E-02 4.702E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.882E-02 1.892E-02 1.915E-02 1.934E-02 1.950E-02 1.955E-02 1.957E-02 1.961E-02 1.960E-02 1.959E-02
ADSORBED 1.533E-02 1.529E-02 1.529E-02 1.537E-02 1.556E-02 1.571E-02 1.584E-02 1.588E-02 1.590E-02 1.593E-02 1.593E-02 1.592E-02
SOIL AIR 3.284E-02 3.318E-02 3.349E-02 3.411E-02 3.446E-02 3.473E-02 3.436E-02 3.418E-02 3.393E-02 3.348E-02 3.344E-02 3.353E-02

POL DEP CM 1.796E+03 1.797E+03 1.797E+03 1.799E+03 1.800E+03 1.801E+03 1.801E+03 1.802E+03 1.802E+03 1.802E+03 1.802E+03 1.802E+03
1 YEAR - 1 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	1.452E+10
SOIL ZONE 2	1.784E+08
SOIL ZONE 3	1.830E+09
LOWER SOIL ZONE	2.957E+08

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 9.127
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 9.127
TOTAL PRECIPITATION (CM) 32.160
TOTAL INFILTRATION (CM) 25.804
TOTAL EVAPOTRANSPIRATION (CM) 25.167
TOTAL SURFACE RUNOFF (CM) 6.347
TOTAL GRW RUNOFF (CM) 1.575
TOTAL MOISTURE RETENTION (CM) -0.938
TOTAL YIELD (CM) 7.930
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED 7.343E+07

SOIL ZONE 2:

SUBLAYER 1

TOTAL DIFFUSED (UP) 1.001E+09

SOIL ZONE 3:

SUBLAYER 1

TOTAL DIFFUSED (UP) 6.730E+08

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

TOTAL DIFFUSED (UP) 1.158E+04

SUBLAYER 7

TOTAL DIFFUSED (UP) 4.358E+04

SUBLAYER 8

TOTAL DIFFUSED (UP) 1.300E+05

SUBLAYER 9

TOTAL DIFFUSED (UP) 3.269E+05

SUBLAYER 10

TOTAL DIFFUSED (UP) 6.860E+05
-- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.353E-01
ADSORBED SOIL (UG/G) 1.135E-01
SOIL AIR (UG/ML) 2.453E-01

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.109E+00
ADSORBED SOIL (UG/G) 3.755E-01
SOIL AIR (UG/ML) 8.154E-01

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.157E+00
ADSORBED SOIL (UG/G) 1.069E+00
SOIL AIR (UG/ML) 2.306E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.867E-01
ADSORBED SOIL (UG/G) 9.707E-02
SOIL AIR (UG/ML) 2.086E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 6.274E-02
ADSORBED SOIL (UG/G) 2.124E-02
SOIL AIR (UG/ML) 4.575E-02

SUBLAYER 3

SOIL MOISTURE (UG/ML) 4.640E-02
ADSORBED SOIL (UG/G) 1.571E-02
SOIL AIR (UG/ML) 3.390E-02

SUBLAYER 4

SOIL MOISTURE (UG/ML) 4.560E-02
ADSORBED SOIL (UG/G) 1.544E-02
SOIL AIR (UG/ML) 3.332E-02

SUBLAYER 5

SOIL MOISTURE (UG/ML) 4.558E-02
ADSORBED SOIL (UG/G) 1.543E-02
SOIL AIR (UG/ML) 3.330E-02

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.558E-02
ADSORBED SOIL (UG/G) 1.543E-02
SOIL AIR (UG/ML) 3.331E-02

SUBLAYER 7

SOIL MOISTURE (UG/ML) 4.561E-02

ADSORBED SOIL (UG/G) 1.544E-02
SOIL AIR (UG/ML) 3.332E-02

SUBLAYER 8

SOIL MOISTURE (UG/ML) 4.568E-02
ADSORBED SOIL (UG/G) 1.546E-02
SOIL AIR (UG/ML) 3.338E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.586E-02
ADSORBED SOIL (UG/G) 1.552E-02
SOIL AIR (UG/ML) 3.351E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 4.627E-02
ADSORBED SOIL (UG/G) 1.566E-02
SOIL AIR (UG/ML) 3.381E-02

MAX. POLL. DEPTH (M) 1.802E+01

1

YEAR - 2 MONTHLY RESULTS (OUTPUT)
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-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 3.536E+07 2.150E+07 1.234E+07 4.764E+06 2.067E+06 9.521E+05 5.840E+05 5.034E+05 4.727E+05 4.514E+05 4.268E+05 3.783E+05
ADS ON SOIL 2.409E+08 1.329E+08 6.916E+07 2.215E+07 9.559E+06 4.580E+06 3.045E+06 2.821E+06 2.787E+06 2.771E+06 2.703E+06 2.483E+06
IN SOIL AIR 7.132E+07 3.838E+07 1.932E+07 5.656E+06 2.429E+06 1.190E+06 8.122E+05 7.739E+05 7.762E+05 7.730E+05 7.631E+05 7.133E+05

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 4.094E+07 2.500E+07 1.437E+07 5.494E+06 2.365E+06 1.087E+06 6.669E+05 5.737E+05 5.381E+05 5.141E+05 4.864E+05 4.320E+05
ADS ON SOIL 2.789E+08 1.545E+08 8.053E+07 2.554E+07 1.094E+07 5.231E+06 3.477E+06 3.215E+06 3.173E+06 3.156E+06 3.080E+06 2.835E+06
IN SOIL AIR 8.257E+07 4.463E+07 2.250E+07 6.523E+06 2.779E+06 1.359E+06 9.275E+05 8.820E+05 8.837E+05 8.803E+05 8.696E+05 8.145E+05

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 1.570E+09 1.754E+09 1.943E+09 2.331E+09 2.339E+09 2.247E+09 2.082E+09 1.944E+09 1.853E+09 1.788E+09 1.735E+09 1.674E+09
ADS ON SOIL 1.069E+10 1.084E+10 1.089E+10 1.084E+10 1.082E+10 1.081E+10 1.086E+10 1.090E+10 1.093E+10 1.098E+10 1.099E+10 1.099E+10
IN SOIL AIR 3.167E+09 3.131E+09 3.042E+09 2.767E+09 2.749E+09 2.808E+09 2.896E+09 2.989E+09 3.044E+09 3.062E+09 3.102E+09 3.157E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.838E+07 3.498E+07 4.309E+07 6.173E+07 6.958E+07 7.306E+07 7.086E+07 6.679E+07 6.380E+07 6.161E+07 5.992E+07 5.829E+07
ADS ON SOIL 1.933E+08 2.162E+08 2.415E+08 2.870E+08 3.218E+08 3.515E+08 3.695E+08 3.743E+08 3.762E+08 3.782E+08 3.795E+08 3.825E+08
IN SOIL AIR 5.723E+07 6.245E+07 6.746E+07 7.328E+07 8.176E+07 9.132E+07 9.855E+07 1.027E+08 1.048E+08 1.055E+08 1.071E+08 1.099E+08

SUBLAYER 2

IN SOIL MOI 5.118E+06 6.246E+06 7.729E+06 1.155E+07 1.365E+07 1.501E+07 1.494E+07 1.417E+07 1.355E+07 1.310E+07 1.276E+07 1.247E+07
ADS ON SOIL 3.486E+07 3.860E+07 4.331E+07 5.368E+07 6.314E+07 7.219E+07 7.792E+07 7.940E+07 7.993E+07 8.039E+07 8.080E+07 8.185E+07
IN SOIL AIR 1.032E+07 1.115E+07 1.210E+07 1.371E+07 1.604E+07 1.876E+07 2.078E+07 2.178E+07 2.226E+07 2.243E+07 2.281E+07 2.351E+07

SUBLAYER 3

IN SOIL MOI 3.172E+06 3.536E+06 3.968E+06 5.008E+06 5.309E+06 5.390E+06 5.167E+06 4.862E+06 4.643E+06 4.483E+06 4.358E+06 4.232E+06
ADS ON SOIL 2.161E+07 2.185E+07 2.224E+07 2.328E+07 2.455E+07 2.593E+07 2.694E+07 2.724E+07 2.738E+07 2.752E+07 2.760E+07 2.778E+07
IN SOIL AIR 6.398E+06 6.313E+06 6.211E+06 5.946E+06 6.238E+06 6.738E+06 7.186E+06 7.474E+06 7.624E+06 7.676E+06 7.792E+06 7.979E+06

SUBLAYER 4

IN SOIL MOI 3.068E+06 3.374E+06 3.718E+06 4.479E+06 4.537E+06 4.405E+06 4.110E+06 3.844E+06 3.666E+06 3.537E+06 3.434E+06 3.318E+06
ADS ON SOIL 2.090E+07 2.086E+07 2.083E+07 2.082E+07 2.098E+07 2.119E+07 2.143E+07 2.154E+07 2.162E+07 2.171E+07 2.174E+07 2.178E+07
IN SOIL AIR 6.188E+06 6.025E+06 5.820E+06 5.317E+06 5.331E+06 5.506E+06 5.717E+06 5.910E+06 6.020E+06 6.057E+06 6.139E+06 6.256E+06

SUBLAYER 5

IN SOIL MOI 3.066E+06 3.369E+06 3.708E+06 4.451E+06 4.489E+06 4.337E+06 4.033E+06 3.769E+06 3.593E+06 3.467E+06 3.365E+06 3.249E+06
ADS ON SOIL 2.088E+07 2.082E+07 2.078E+07 2.069E+07 2.076E+07 2.086E+07 2.103E+07 2.112E+07 2.119E+07 2.128E+07 2.131E+07 2.133E+07
IN SOIL AIR 6.183E+06 6.015E+06 5.804E+06 5.284E+06 5.275E+06 5.421E+06 5.610E+06 5.794E+06 5.901E+06 5.937E+06 6.016E+06 6.126E+06

SUBLAYER 6

IN SOIL MOI 3.068E+06 3.371E+06 3.710E+06 4.453E+06 4.490E+06 4.336E+06 4.032E+06 3.767E+06 3.592E+06 3.465E+06 3.363E+06 3.248E+06
ADS ON SOIL 2.089E+07 2.084E+07 2.079E+07 2.070E+07 2.077E+07 2.086E+07 2.102E+07 2.111E+07 2.118E+07 2.127E+07 2.130E+07 2.132E+07
IN SOIL AIR 6.187E+06 6.019E+06 5.807E+06 5.286E+06 5.276E+06 5.420E+06 5.607E+06 5.791E+06 5.898E+06 5.934E+06 6.013E+06 6.123E+06

SUBLAYER 7

IN SOIL MOI 3.073E+06 3.377E+06 3.717E+06 4.460E+06 4.497E+06 4.343E+06 4.038E+06 3.774E+06 3.598E+06 3.471E+06 3.369E+06 3.253E+06
)S ON SOIL 2.093E+07 2.087E+07 2.083E+07 2.074E+07 2.080E+07 2.089E+07 2.106E+07 2.115E+07 2.122E+07 2.131E+07 2.133E+07 2.135E+07
N SOIL AIR 6.198E+06 6.029E+06 5.818E+06 5.295E+06 5.285E+06 5.429E+06 5.617E+06 5.801E+06 5.908E+06 5.944E+06 6.023E+06 6.133E+06

SUBLAYER 8

IN SOIL MOI 3.084E+06 3.389E+06 3.730E+06 4.476E+06 4.513E+06 4.359E+06 4.053E+06 3.787E+06 3.610E+06 3.483E+06 3.381E+06 3.265E+06
ADS ON SOIL 2.101E+07 2.095E+07 2.090E+07 2.081E+07 2.088E+07 2.097E+07 2.113E+07 2.122E+07 2.129E+07 2.138E+07 2.141E+07 2.143E+07
IN SOIL AIR 6.220E+06 6.051E+06 5.839E+06 5.314E+06 5.304E+06 5.448E+06 5.636E+06 5.821E+06 5.928E+06 5.965E+06 6.044E+06 6.155E+06

SUBLAYER 9

IN SOIL MOI 3.100E+06 3.407E+06 3.750E+06 4.500E+06 4.537E+06 4.381E+06 4.074E+06 3.807E+06 3.629E+06 3.502E+06 3.398E+06 3.281E+06
ADS ON SOIL 2.112E+07 2.106E+07 2.101E+07 2.092E+07 2.098E+07 2.108E+07 2.124E+07 2.133E+07 2.140E+07 2.149E+07 2.152E+07 2.154E+07
IN SOIL AIR 6.253E+06 6.083E+06 5.869E+06 5.342E+06 5.332E+06 5.477E+06 5.666E+06 5.852E+06 5.959E+06 5.996E+06 6.076E+06 6.187E+06

SUBLAYER 10

IN SOIL MOI 3.114E+06 3.422E+06 3.769E+06 4.566E+06 4.651E+06 4.526E+06 4.225E+06 3.954E+06 3.772E+06 3.640E+06 3.533E+06 3.411E+06
ADS ON SOIL 2.121E+07 2.115E+07 2.112E+07 2.123E+07 2.151E+07 2.177E+07 2.203E+07 2.216E+07 2.225E+07 2.234E+07 2.237E+07 2.239E+07
IN SOIL AIR 6.281E+06 6.110E+06 5.900E+06 5.421E+06 5.465E+06 5.657E+06 5.876E+06 6.079E+06 6.195E+06 6.233E+06 6.316E+06 6.431E+06

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.866E-02 2.684E-02 1.397E-02 4.474E-03 1.931E-03 9.252E-04 6.151E-04 5.699E-04 5.631E-04 5.598E-04 5.460E-04 5.016E-04
%SOLUBILITY 2.027E-02 1.118E-02 5.821E-03 1.864E-03 8.046E-04 3.855E-04 2.563E-04 2.375E-04 2.346E-04 2.332E-04 2.275E-04 2.090E-04
ADSORBED 1.647E-02 9.086E-03 4.729E-03 1.515E-03 6.537E-04 3.132E-04 2.082E-04 1.929E-04 1.906E-04 1.895E-04 1.848E-04 1.698E-04
SOIL AIR 3.529E-02 1.971E-02 1.036E-02 3.360E-03 1.448E-03 6.923E-04 4.516E-04 4.151E-04 4.067E-04 3.982E-04 3.881E-04 3.578E-04

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 4.340E-01 2.404E-01 1.253E-01 3.975E-02 1.702E-02 8.141E-03 5.411E-03 5.003E-03 4.939E-03 4.911E-03 4.793E-03 4.412E-03
%SOLUBILITY 1.808E-01 1.002E-01 5.222E-02 1.656E-02 7.093E-03 3.392E-03 2.255E-03 2.085E-03 2.058E-03 2.046E-03 1.997E-03 1.839E-03
ADSORBED 1.469E-01 8.139E-02 4.242E-02 1.346E-02 5.763E-03 2.756E-03 1.832E-03 1.694E-03 1.672E-03 1.662E-03 1.622E-03 1.494E-03
SOIL AIR 3.147E-01 1.766E-01 9.294E-02 2.985E-02 1.276E-02 6.092E-03 3.972E-03 3.644E-03 3.567E-03 3.493E-03 3.407E-03 3.147E-03

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 3.825E+00 3.876E+00 3.894E+00 3.875E+00 3.869E+00 3.865E+00 3.883E+00 3.896E+00 3.909E+00 3.925E+00 3.929E+00 3.930E+00
%SOLUBILITY 1.594E+00 1.615E+00 1.623E+00 1.615E+00 1.612E+00 1.610E+00 1.618E+00 1.623E+00 1.629E+00 1.636E+00 1.637E+00 1.637E+00
ADSORBED 1.295E+00 1.312E+00 1.318E+00 1.312E+00 1.310E+00 1.308E+00 1.314E+00 1.319E+00 1.323E+00 1.329E+00 1.330E+00 1.330E+00
SOIL AIR 2.773E+00 2.847E+00 2.888E+00 2.910E+00 2.900E+00 2.892E+00 2.850E+00 2.838E+00 2.823E+00 2.792E+00 2.793E+00 2.803E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.277E-01 4.784E-01 5.343E-01 6.350E-01 7.121E-01 7.777E-01 8.176E-01 8.281E-01 8.325E-01 8.368E-01 8.397E-01 8.465E-01
%SOLUBILITY 1.782E-01 1.993E-01 2.226E-01 2.646E-01 2.967E-01 3.240E-01 3.407E-01 3.451E-01 3.469E-01 3.487E-01 3.499E-01 3.527E-01
ADSORBED 1.448E-01 1.619E-01 1.809E-01 2.150E-01 2.411E-01 2.633E-01 2.768E-01 2.803E-01 2.818E-01 2.833E-01 2.842E-01 2.865E-01
SOIL AIR 3.102E-01 3.513E-01 3.963E-01 4.769E-01 5.338E-01 5.819E-01 6.002E-01 6.031E-01 6.012E-01 5.952E-01 5.968E-01 6.037E-01

SUBLAYER 2

MOISTURE 7.714E-02 8.541E-02 9.584E-02 1.188E-01 1.397E-01 1.597E-01 1.724E-01 1.757E-01 1.769E-01 1.779E-01 1.788E-01 1.811E-01
%SOLUBILITY 3.214E-02 3.559E-02 3.993E-02 4.949E-02 5.821E-02 6.655E-02 7.184E-02 7.321E-02 7.369E-02 7.412E-02 7.449E-02 7.546E-02
ADSORBED 2.611E-02 2.891E-02 3.244E-02 4.020E-02 4.729E-02 5.407E-02 5.837E-02 5.948E-02 5.987E-02 6.022E-02 6.052E-02 6.131E-02
SOIL AIR 5.594E-02 6.273E-02 7.107E-02 8.919E-02 1.047E-01 1.195E-01 1.266E-01 1.280E-01 1.277E-01 1.265E-01 1.271E-01 1.292E-01

SUBLAYER 3

OISTURE 4.781E-02 4.835E-02 4.920E-02 5.152E-02 5.433E-02 5.738E-02 5.961E-02 6.028E-02 6.058E-02 6.088E-02 6.107E-02 6.146E-02
%SOLUBILITY 1.992E-02 2.015E-02 2.050E-02 2.147E-02 2.264E-02 2.391E-02 2.484E-02 2.512E-02 2.524E-02 2.537E-02 2.544E-02 2.561E-02
ADSORBED 1.619E-02 1.637E-02 1.666E-02 1.744E-02 1.839E-02 1.942E-02 2.018E-02 2.041E-02 2.051E-02 2.061E-02 2.067E-02 2.081E-02
SOIL AIR 3.467E-02 3.551E-02 3.649E-02 3.869E-02 4.073E-02 4.294E-02 4.376E-02 4.390E-02 4.376E-02 4.331E-02 4.341E-02 4.384E-02

SUBLAYER 4

MOISTURE 4.624E-02 4.615E-02 4.610E-02 4.607E-02 4.643E-02 4.689E-02 4.743E-02 4.767E-02 4.783E-02 4.804E-02 4.811E-02 4.819E-02
%SOLUBILITY 1.927E-02 1.923E-02 1.921E-02 1.920E-02 1.935E-02 1.954E-02 1.976E-02 1.986E-02 1.993E-02 2.002E-02 2.005E-02 2.008E-02
ADSORBED 1.565E-02 1.562E-02 1.561E-02 1.560E-02 1.572E-02 1.587E-02 1.605E-02 1.614E-02 1.619E-02 1.626E-02 1.629E-02 1.631E-02
SOIL AIR 3.354E-02 3.389E-02 3.419E-02 3.460E-02 3.481E-02 3.508E-02 3.481E-02 3.472E-02 3.455E-02 3.417E-02 3.420E-02 3.437E-02

SUBLAYER 5

MOISTURE 4.620E-02 4.607E-02 4.598E-02 4.579E-02 4.594E-02 4.616E-02 4.654E-02 4.673E-02 4.689E-02 4.709E-02 4.715E-02 4.719E-02
%SOLUBILITY 1.925E-02 1.920E-02 1.916E-02 1.908E-02 1.914E-02 1.923E-02 1.939E-02 1.947E-02 1.954E-02 1.962E-02 1.965E-02 1.966E-02
ADSORBED 1.564E-02 1.560E-02 1.556E-02 1.550E-02 1.555E-02 1.563E-02 1.575E-02 1.582E-02 1.587E-02 1.594E-02 1.596E-02 1.597E-02
SOIL AIR 3.351E-02 3.384E-02 3.410E-02 3.439E-02 3.444E-02 3.454E-02 3.416E-02 3.404E-02 3.387E-02 3.349E-02 3.352E-02 3.366E-02

SUBLAYER 6

MOISTURE 4.623E-02 4.610E-02 4.600E-02 4.580E-02 4.595E-02 4.615E-02 4.652E-02 4.671E-02 4.687E-02 4.707E-02 4.713E-02 4.716E-02
%SOLUBILITY 1.926E-02 1.921E-02 1.917E-02 1.909E-02 1.915E-02 1.923E-02 1.938E-02 1.946E-02 1.953E-02 1.961E-02 1.964E-02 1.965E-02
ADSORBED 1.565E-02 1.561E-02 1.557E-02 1.551E-02 1.555E-02 1.562E-02 1.575E-02 1.581E-02 1.587E-02 1.593E-02 1.595E-02 1.597E-02
SOIL AIR 3.353E-02 3.386E-02 3.411E-02 3.440E-02 3.445E-02 3.454E-02 3.415E-02 3.402E-02 3.385E-02 3.348E-02 3.350E-02 3.364E-02

SUBLAYER 7

MOISTURE 4.632E-02 4.618E-02 4.608E-02 4.588E-02 4.603E-02 4.623E-02 4.660E-02 4.679E-02 4.694E-02 4.715E-02 4.720E-02 4.724E-02
%SOLUBILITY 1.930E-02 1.924E-02 1.920E-02 1.912E-02 1.918E-02 1.926E-02 1.941E-02 1.950E-02 1.956E-02 1.964E-02 1.967E-02 1.968E-02
ADSORBED 1.568E-02 1.563E-02 1.560E-02 1.553E-02 1.558E-02 1.565E-02 1.577E-02 1.584E-02 1.589E-02 1.596E-02 1.598E-02 1.599E-02
SOIL AIR 3.359E-02 3.392E-02 3.418E-02 3.446E-02 3.450E-02 3.460E-02 3.420E-02 3.408E-02 3.391E-02 3.353E-02 3.355E-02 3.369E-02

SUBLAYER 8

MOISTURE 4.648E-02 4.635E-02 4.625E-02 4.605E-02 4.619E-02 4.640E-02 4.676E-02 4.695E-02 4.711E-02 4.731E-02 4.737E-02 4.741E-02
%SOLUBILITY 1.937E-02 1.931E-02 1.927E-02 1.919E-02 1.925E-02 1.933E-02 1.948E-02 1.956E-02 1.963E-02 1.971E-02 1.974E-02 1.975E-02
ADSORBED 1.574E-02 1.569E-02 1.566E-02 1.559E-02 1.564E-02 1.571E-02 1.583E-02 1.589E-02 1.595E-02 1.602E-02 1.604E-02 1.605E-02
SOIL AIR 3.371E-02 3.404E-02 3.430E-02 3.458E-02 3.463E-02 3.472E-02 3.432E-02 3.420E-02 3.402E-02 3.365E-02 3.367E-02 3.381E-02

SUBLAYER 9

MOISTURE 4.673E-02 4.660E-02 4.649E-02 4.629E-02 4.643E-02 4.664E-02 4.700E-02 4.720E-02 4.735E-02 4.756E-02 4.762E-02 4.766E-02
%SOLUBILITY 1.947E-02 1.941E-02 1.937E-02 1.929E-02 1.935E-02 1.943E-02 1.958E-02 1.967E-02 1.973E-02 1.982E-02 1.984E-02 1.986E-02
ADSORBED 1.582E-02 1.577E-02 1.574E-02 1.567E-02 1.572E-02 1.579E-02 1.591E-02 1.598E-02 1.603E-02 1.610E-02 1.612E-02 1.613E-02
SOIL AIR 3.389E-02 3.422E-02 3.448E-02 3.476E-02 3.481E-02 3.490E-02 3.450E-02 3.438E-02 3.420E-02 3.383E-02 3.385E-02 3.399E-02

SUBLAYER 10

MOISTURE 4.693E-02 4.680E-02 4.674E-02 4.698E-02 4.760E-02 4.817E-02 4.875E-02 4.903E-02 4.922E-02 4.944E-02 4.950E-02 4.954E-02
%SOLUBILITY 1.956E-02 1.950E-02 1.947E-02 1.957E-02 1.983E-02 2.007E-02 2.031E-02 2.043E-02 2.051E-02 2.060E-02 2.062E-02 2.064E-02
ADSORBED 1.589E-02 1.584E-02 1.582E-02 1.590E-02 1.611E-02 1.631E-02 1.650E-02 1.660E-02 1.666E-02 1.674E-02 1.676E-02 1.677E-02
SOIL AIR 3.404E-02 3.437E-02 3.466E-02 3.528E-02 3.568E-02 3.605E-02 3.578E-02 3.571E-02 3.555E-02 3.516E-02 3.518E-02 3.533E-02

POL DEP CM 1.802E+03 1.802E+03 1.803E+03 1.804E+03 1.805E+03 1.806E+03 1.807E+03 1.807E+03 1.807E+03 1.807E+03 1.807E+03 1.807E+03
1 YEAR - 2 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 8.346E-03
ADSORBED SOIL (UG/G) 2.825E-03
SOIL AIR (UG/ML) 6.106E-03

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 7.451E-02
ADSORBED SOIL (UG/G) 2.522E-02
SOIL AIR (UG/ML) 5.451E-02

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.890E+00
ADSORBED SOIL (UG/G) 1.317E+00
SOIL AIR (UG/ML) 2.842E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 7.139E-01
ADSORBED SOIL (UG/G) 2.417E-01
SOIL AIR (UG/ML) 5.209E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.449E-01
ADSORBED SOIL (UG/G) 4.907E-02
SOIL AIR (UG/ML) 1.057E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 5.604E-02
ADSORBED SOIL (UG/G) 1.897E-02
SOIL AIR (UG/ML) 4.092E-02

SUBLAYER 4

SOIL MOISTURE (UG/ML) 4.710E-02
ADSORBED SOIL (UG/G) 1.594E-02
SOIL AIR (UG/ML) 3.441E-02

SUBLAYER 5

SOIL MOISTURE (UG/ML) 4.648E-02
ADSORBED SOIL (UG/G) 1.573E-02
SOIL AIR (UG/ML) 3.396E-02

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.648E-02
ADSORBED SOIL (UG/G) 1.573E-02
SOIL AIR (UG/ML) 3.396E-02

SUBLAYER 7

SOIL MOISTURE (UG/ML) 4.655E-02
ADSORBED SOIL (UG/G) 1.576E-02
SOIL AIR (UG/ML) 3.402E-02

SUBLAYER 8

SOIL MOISTURE (UG/ML) 4.672E-02
ADSORBED SOIL (UG/G) 1.582E-02

SOIL AIR (UG/ML) 3.414E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.696E-02
ADSORBED SOIL (UG/G) 1.590E-02
SOIL AIR (UG/ML) 3.432E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 4.822E-02
ADSORBED SOIL (UG/G) 1.632E-02
SOIL AIR (UG/ML) 3.523E-02

MAX. POLL. DEPTH (M) 1.807E+01

1

YEAR - 3 MONTHLY RESULTS (OUTPUT)
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-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 3.255E+05 1.979E+05 1.136E+05 4.385E+04 1.902E+04 8.764E+03 5.375E+03 4.634E+03 4.350E+03 4.155E+03 3.928E+03 3.481E+03
)S ON SOIL 2.217E+06 1.223E+06 6.366E+05 2.039E+05 8.799E+04 4.216E+04 2.803E+04 2.597E+04 2.566E+04 2.550E+04 2.487E+04 2.285E+04
SOIL AIR 6.565E+05 3.533E+05 1.778E+05 5.206E+04 2.236E+04 1.095E+04 7.476E+03 7.123E+03 7.144E+03 7.114E+03 7.022E+03 6.564E+03

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 3.726E+05 2.285E+05 1.318E+05 5.049E+04 2.175E+04 1.001E+04 6.137E+03 5.280E+03 4.952E+03 4.730E+03 4.475E+03 3.975E+03
ADS ON SOIL 2.538E+06 1.412E+06 7.384E+05 2.348E+05 1.006E+05 4.813E+04 3.200E+04 2.958E+04 2.920E+04 2.903E+04 2.834E+04 2.609E+04
IN SOIL AIR 7.515E+05 4.080E+05 2.063E+05 5.995E+04 2.556E+04 1.251E+04 8.535E+03 8.116E+03 8.131E+03 8.100E+03 8.001E+03 7.494E+03

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 1.609E+09 1.759E+09 1.925E+09 2.288E+09 2.290E+09 2.198E+09 2.036E+09 1.902E+09 1.813E+09 1.749E+09 1.697E+09 1.637E+09
ADS ON SOIL 1.096E+10 1.087E+10 1.079E+10 1.064E+10 1.059E+10 1.057E+10 1.062E+10 1.066E+10 1.069E+10 1.073E+10 1.075E+10 1.075E+10
IN SOIL AIR 3.245E+09 3.141E+09 3.014E+09 2.717E+09 2.692E+09 2.747E+09 2.832E+09 2.923E+09 2.977E+09 2.995E+09 3.034E+09 3.087E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 5.658E+07 6.526E+07 7.547E+07 9.838E+07 1.049E+08 1.058E+08 1.006E+08 9.446E+07 9.014E+07 8.702E+07 8.455E+07 8.196E+07
ADS ON SOIL 3.854E+08 4.033E+08 4.229E+08 4.574E+08 4.851E+08 5.089E+08 5.246E+08 5.293E+08 5.316E+08 5.341E+08 5.354E+08 5.379E+08
IN SOIL AIR 1.141E+08 1.165E+08 1.181E+08 1.168E+08 1.232E+08 1.322E+08 1.399E+08 1.452E+08 1.480E+08 1.490E+08 1.512E+08 1.545E+08

SUBLAYER 2

IN SOIL MOI 1.219E+07 1.453E+07 1.744E+07 2.444E+07 2.751E+07 2.903E+07 2.828E+07 2.669E+07 2.551E+07 2.464E+07 2.397E+07 2.334E+07
ADS ON SOIL 8.300E+07 8.979E+07 9.774E+07 1.136E+08 1.272E+08 1.396E+08 1.475E+08 1.496E+08 1.504E+08 1.512E+08 1.518E+08 1.532E+08
IN SOIL AIR 2.458E+07 2.594E+07 2.730E+07 2.902E+07 3.232E+07 3.628E+07 3.934E+07 4.104E+07 4.189E+07 4.219E+07 4.286E+07 4.401E+07

SUBLAYER 3

IN SOIL MOI 4.102E+06 4.698E+06 5.430E+06 7.221E+06 7.921E+06 8.242E+06 7.990E+06 7.536E+06 7.201E+06 6.954E+06 6.765E+06 6.581E+06
ADS ON SOIL 2.794E+07 2.903E+07 3.043E+07 3.357E+07 3.664E+07 3.965E+07 4.166E+07 4.223E+07 4.246E+07 4.269E+07 4.284E+07 4.319E+07
IN SOIL AIR 8.272E+06 8.387E+06 8.500E+06 8.573E+06 9.309E+06 1.030E+07 1.111E+07 1.159E+07 1.182E+07 1.191E+07 1.209E+07 1.241E+07

SUBLAYER 4

IN SOIL MOI 3.194E+06 3.530E+06 3.913E+06 4.781E+06 4.908E+06 4.825E+06 4.536E+06 4.250E+06 4.055E+06 3.913E+06 3.800E+06 3.677E+06
ADS ON SOIL 2.176E+07 2.182E+07 2.193E+07 2.223E+07 2.270E+07 2.321E+07 2.365E+07 2.382E+07 2.391E+07 2.402E+07 2.406E+07 2.413E+07
IN SOIL AIR 6.443E+06 6.302E+06 6.125E+06 5.677E+06 5.767E+06 6.032E+06 6.309E+06 6.533E+06 6.658E+06 6.700E+06 6.794E+06 6.932E+06

SUBLAYER 5

IN SOIL MOI 3.126E+06 3.436E+06 3.784E+06 4.548E+06 4.594E+06 4.445E+06 4.138E+06 3.868E+06 3.688E+06 3.558E+06 3.454E+06 3.336E+06
ADS ON SOIL 2.129E+07 2.124E+07 2.120E+07 2.114E+07 2.125E+07 2.138E+07 2.158E+07 2.167E+07 2.175E+07 2.184E+07 2.187E+07 2.189E+07
IN SOIL AIR 6.304E+06 6.135E+06 5.923E+06 5.399E+06 5.398E+06 5.556E+06 5.755E+06 5.946E+06 6.056E+06 6.093E+06 6.175E+06 6.289E+06

SUBLAYER 6

IN SOIL MOI 3.124E+06 3.433E+06 3.778E+06 4.535E+06 4.573E+06 4.417E+06 4.107E+06 3.838E+06 3.659E+06 3.531E+06 3.427E+06 3.309E+06
ADS ON SOIL 2.128E+07 2.122E+07 2.117E+07 2.108E+07 2.115E+07 2.125E+07 2.142E+07 2.151E+07 2.158E+07 2.167E+07 2.170E+07 2.172E+07
IN SOIL AIR 6.300E+06 6.129E+06 5.914E+06 5.384E+06 5.374E+06 5.521E+06 5.712E+06 5.900E+06 6.009E+06 6.046E+06 6.126E+06 6.238E+06

SUBLAYER 7

IN SOIL MOI 3.129E+06 3.439E+06 3.784E+06 4.541E+06 4.579E+06 4.422E+06 4.112E+06 3.842E+06 3.663E+06 3.534E+06 3.430E+06 3.312E+06
ADS ON SOIL 2.131E+07 2.125E+07 2.121E+07 2.111E+07 2.118E+07 2.127E+07 2.144E+07 2.153E+07 2.160E+07 2.169E+07 2.172E+07 2.174E+07
IN SOIL AIR 6.310E+06 6.139E+06 5.923E+06 5.392E+06 5.381E+06 5.528E+06 5.719E+06 5.907E+06 6.015E+06 6.052E+06 6.133E+06 6.245E+06

SUBLAYER 8

IN SOIL MOI 3.140E+06 3.451E+06 3.797E+06 4.557E+06 4.595E+06 4.437E+06 4.126E+06 3.855E+06 3.675E+06 3.546E+06 3.442E+06 3.323E+06
ADS ON SOIL 2.139E+07 2.133E+07 2.128E+07 2.119E+07 2.125E+07 2.135E+07 2.151E+07 2.160E+07 2.167E+07 2.177E+07 2.179E+07 2.181E+07
I SOIL AIR 6.333E+06 6.160E+06 5.944E+06 5.410E+06 5.399E+06 5.547E+06 5.738E+06 5.926E+06 6.035E+06 6.072E+06 6.154E+06 6.266E+06

SUBLAYER 9

IN SOIL MOI 3.156E+06 3.468E+06 3.817E+06 4.581E+06 4.619E+06 4.460E+06 4.147E+06 3.875E+06 3.694E+06 3.564E+06 3.459E+06 3.340E+06
ADS ON SOIL 2.150E+07 2.144E+07 2.139E+07 2.130E+07 2.136E+07 2.146E+07 2.162E+07 2.171E+07 2.179E+07 2.188E+07 2.191E+07 2.192E+07
IN SOIL AIR 6.365E+06 6.192E+06 5.975E+06 5.438E+06 5.427E+06 5.575E+06 5.768E+06 5.957E+06 6.066E+06 6.104E+06 6.185E+06 6.298E+06

SUBLAYER 10

IN SOIL MOI 3.281E+06 3.605E+06 3.970E+06 4.808E+06 4.894E+06 4.761E+06 4.444E+06 4.159E+06 3.968E+06 3.828E+06 3.715E+06 3.588E+06
ADS ON SOIL 2.235E+07 2.228E+07 2.225E+07 2.235E+07 2.264E+07 2.290E+07 2.317E+07 2.331E+07 2.340E+07 2.350E+07 2.353E+07 2.355E+07
IN SOIL AIR 6.617E+06 6.436E+06 6.215E+06 5.708E+06 5.751E+06 5.952E+06 6.181E+06 6.394E+06 6.515E+06 6.555E+06 6.643E+06 6.764E+06

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.479E-04 2.471E-04 1.286E-04 4.118E-05 1.778E-05 8.517E-06 5.662E-06 5.246E-06 5.183E-06 5.152E-06 5.024E-06 4.616E-06
%SOLUBILITY 1.866E-04 1.029E-04 5.358E-05 1.716E-05 7.407E-06 3.549E-06 2.359E-06 2.186E-06 2.159E-06 2.147E-06 2.094E-06 1.923E-06
ADSORBED 1.516E-04 8.364E-05 4.353E-05 1.394E-05 6.018E-06 2.883E-06 1.917E-06 1.776E-06 1.754E-06 1.744E-06 1.701E-06 1.563E-06
SOIL AIR 3.248E-04 1.815E-04 9.537E-05 3.093E-05 1.333E-05 6.373E-06 4.156E-06 3.820E-06 3.743E-06 3.664E-06 3.571E-06 3.292E-06

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.950E-03 2.198E-03 1.149E-03 3.653E-04 1.566E-04 7.490E-05 4.980E-05 4.604E-05 4.544E-05 4.518E-05 4.410E-05 4.060E-05
%SOLUBILITY 1.646E-03 9.158E-04 4.788E-04 1.522E-04 6.524E-05 3.121E-05 2.075E-05 1.918E-05 1.893E-05 1.883E-05 1.837E-05 1.692E-05
ADSORBED 1.337E-03 7.440E-04 3.890E-04 1.237E-04 5.301E-05 2.536E-05 1.686E-05 1.559E-05 1.538E-05 1.530E-05 1.493E-05 1.374E-05
SOIL AIR 2.864E-03 1.614E-03 8.521E-04 2.744E-04 1.174E-04 5.605E-05 3.655E-05 3.353E-05 3.282E-05 3.214E-05 3.135E-05 2.895E-05

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 3.919E+00 3.888E+00 3.858E+00 3.804E+00 3.789E+00 3.781E+00 3.797E+00 3.810E+00 3.823E+00 3.839E+00 3.843E+00 3.843E+00
%SOLUBILITY 1.633E+00 1.620E+00 1.608E+00 1.585E+00 1.579E+00 1.575E+00 1.582E+00 1.588E+00 1.593E+00 1.599E+00 1.601E+00 1.601E+00
ADSORBED 1.327E+00 1.316E+00 1.306E+00 1.288E+00 1.282E+00 1.280E+00 1.285E+00 1.290E+00 1.294E+00 1.299E+00 1.301E+00 1.301E+00
SOIL AIR 2.842E+00 2.856E+00 2.861E+00 2.857E+00 2.840E+00 2.829E+00 2.787E+00 2.775E+00 2.761E+00 2.730E+00 2.731E+00 2.741E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 8.528E-01 8.924E-01 9.357E-01 1.012E+00 1.073E+00 1.126E+00 1.161E+00 1.171E+00 1.176E+00 1.182E+00 1.185E+00 1.190E+00
%SOLUBILITY 3.553E-01 3.718E-01 3.899E-01 4.217E-01 4.472E-01 4.692E-01 4.837E-01 4.880E-01 4.901E-01 4.924E-01 4.936E-01 4.960E-01
ADSORBED 2.887E-01 3.021E-01 3.168E-01 3.426E-01 3.633E-01 3.812E-01 3.930E-01 3.965E-01 3.982E-01 4.001E-01 4.010E-01 4.029E-01
SOIL AIR 6.184E-01 6.554E-01 6.939E-01 7.601E-01 8.046E-01 8.426E-01 8.522E-01 8.530E-01 8.495E-01 8.406E-01 8.421E-01 8.489E-01

SUBLAYER 2

MOISTURE 1.837E-01 1.987E-01 2.163E-01 2.514E-01 2.815E-01 3.090E-01 3.263E-01 3.310E-01 3.328E-01 3.346E-01 3.359E-01 3.390E-01
%SOLUBILITY 7.652E-02 8.279E-02 9.011E-02 1.048E-01 1.173E-01 1.287E-01 1.360E-01 1.379E-01 1.387E-01 1.394E-01 1.400E-01 1.412E-01
ADSORBED 6.217E-02 6.726E-02 7.321E-02 8.511E-02 9.529E-02 1.046E-01 1.105E-01 1.120E-01 1.127E-01 1.133E-01 1.137E-01 1.147E-01
SOIL AIR 1.332E-01 1.459E-01 1.604E-01 1.888E-01 2.110E-01 2.312E-01 2.396E-01 2.411E-01 2.404E-01 2.380E-01 2.388E-01 2.418E-01

SUBLAYER 3

MOISTURE 6.182E-02 6.424E-02 6.733E-02 7.428E-02 8.107E-02 8.773E-02 9.219E-02 9.344E-02 9.396E-02 9.445E-02 9.479E-02 9.557E-02
%SOLUBILITY 2.576E-02 2.677E-02 2.805E-02 3.095E-02 3.378E-02 3.655E-02 3.841E-02 3.893E-02 3.915E-02 3.935E-02 3.949E-02 3.982E-02
ADSORBED 2.093E-02 2.175E-02 2.279E-02 2.515E-02 2.744E-02 2.970E-02 3.121E-02 3.163E-02 3.181E-02 3.197E-02 3.209E-02 3.235E-02
SOIL AIR 4.483E-02 4.718E-02 4.993E-02 5.579E-02 6.077E-02 6.564E-02 6.767E-02 6.806E-02 6.786E-02 6.718E-02 6.738E-02 6.816E-02

SUBLAYER 4

'OISTURE 4.815E-02 4.827E-02 4.852E-02 4.919E-02 5.023E-02 5.136E-02 5.234E-02 5.270E-02 5.291E-02 5.315E-02 5.325E-02 5.340E-02
%SOLUBILITY 2.006E-02 2.011E-02 2.022E-02 2.049E-02 2.093E-02 2.140E-02 2.181E-02 2.196E-02 2.204E-02 2.214E-02 2.219E-02 2.225E-02
ADSORBED 1.630E-02 1.634E-02 1.642E-02 1.665E-02 1.700E-02 1.739E-02 1.772E-02 1.784E-02 1.791E-02 1.799E-02 1.802E-02 1.808E-02
SOIL AIR 3.491E-02 3.545E-02 3.598E-02 3.694E-02 3.765E-02 3.843E-02 3.842E-02 3.838E-02 3.821E-02 3.780E-02 3.785E-02 3.808E-02

SUBLAYER 5

MOISTURE 4.711E-02 4.699E-02 4.692E-02 4.679E-02 4.701E-02 4.731E-02 4.774E-02 4.796E-02 4.812E-02 4.833E-02 4.839E-02 4.844E-02
%SOLUBILITY 1.963E-02 1.958E-02 1.955E-02 1.949E-02 1.959E-02 1.971E-02 1.989E-02 1.998E-02 2.005E-02 2.014E-02 2.016E-02 2.018E-02
ADSORBED 1.595E-02 1.591E-02 1.588E-02 1.584E-02 1.592E-02 1.602E-02 1.616E-02 1.623E-02 1.629E-02 1.636E-02 1.638E-02 1.640E-02
SOIL AIR 3.416E-02 3.451E-02 3.479E-02 3.514E-02 3.524E-02 3.540E-02 3.505E-02 3.493E-02 3.475E-02 3.438E-02 3.440E-02 3.455E-02

SUBLAYER 6

MOISTURE 4.708E-02 4.695E-02 4.685E-02 4.665E-02 4.680E-02 4.702E-02 4.739E-02 4.759E-02 4.775E-02 4.795E-02 4.801E-02 4.805E-02
%SOLUBILITY 1.962E-02 1.956E-02 1.952E-02 1.944E-02 1.950E-02 1.959E-02 1.975E-02 1.983E-02 1.989E-02 1.998E-02 2.000E-02 2.002E-02
ADSORBED 1.594E-02 1.589E-02 1.586E-02 1.579E-02 1.584E-02 1.592E-02 1.604E-02 1.611E-02 1.616E-02 1.623E-02 1.625E-02 1.627E-02
SOIL AIR 3.414E-02 3.448E-02 3.474E-02 3.503E-02 3.508E-02 3.518E-02 3.479E-02 3.466E-02 3.448E-02 3.411E-02 3.413E-02 3.427E-02

SUBLAYER 7

MOISTURE 4.716E-02 4.702E-02 4.692E-02 4.672E-02 4.686E-02 4.707E-02 4.744E-02 4.764E-02 4.780E-02 4.800E-02 4.806E-02 4.810E-02
%SOLUBILITY 1.965E-02 1.959E-02 1.955E-02 1.947E-02 1.953E-02 1.961E-02 1.977E-02 1.985E-02 1.992E-02 2.000E-02 2.003E-02 2.004E-02
ADSORBED 1.596E-02 1.592E-02 1.588E-02 1.581E-02 1.586E-02 1.594E-02 1.606E-02 1.613E-02 1.618E-02 1.625E-02 1.627E-02 1.628E-02
SOIL AIR 3.420E-02 3.454E-02 3.480E-02 3.509E-02 3.513E-02 3.522E-02 3.483E-02 3.470E-02 3.452E-02 3.414E-02 3.416E-02 3.431E-02

SUBLAYER 8

MOISTURE 4.732E-02 4.719E-02 4.708E-02 4.688E-02 4.702E-02 4.723E-02 4.760E-02 4.780E-02 4.796E-02 4.817E-02 4.822E-02 4.826E-02
%SOLUBILITY 1.972E-02 1.966E-02 1.962E-02 1.953E-02 1.959E-02 1.968E-02 1.983E-02 1.992E-02 1.998E-02 2.007E-02 2.009E-02 2.011E-02
ADSORBED 1.602E-02 1.597E-02 1.594E-02 1.587E-02 1.592E-02 1.599E-02 1.611E-02 1.618E-02 1.624E-02 1.630E-02 1.633E-02 1.634E-02
SOIL AIR 3.432E-02 3.466E-02 3.492E-02 3.521E-02 3.525E-02 3.534E-02 3.494E-02 3.481E-02 3.464E-02 3.426E-02 3.428E-02 3.442E-02

SUBLAYER 9

MOISTURE 4.757E-02 4.743E-02 4.733E-02 4.712E-02 4.727E-02 4.748E-02 4.785E-02 4.805E-02 4.821E-02 4.841E-02 4.847E-02 4.851E-02
%SOLUBILITY 1.982E-02 1.976E-02 1.972E-02 1.963E-02 1.969E-02 1.978E-02 1.994E-02 2.002E-02 2.009E-02 2.017E-02 2.020E-02 2.021E-02
ADSORBED 1.610E-02 1.606E-02 1.602E-02 1.595E-02 1.600E-02 1.607E-02 1.620E-02 1.626E-02 1.632E-02 1.639E-02 1.641E-02 1.642E-02
SOIL AIR 3.450E-02 3.484E-02 3.510E-02 3.539E-02 3.543E-02 3.553E-02 3.512E-02 3.499E-02 3.482E-02 3.443E-02 3.446E-02 3.460E-02

SUBLAYER 10

MOISTURE 4.945E-02 4.930E-02 4.923E-02 4.946E-02 5.009E-02 5.068E-02 5.127E-02 5.157E-02 5.177E-02 5.200E-02 5.206E-02 5.210E-02
%SOLUBILITY 2.060E-02 2.054E-02 2.051E-02 2.061E-02 2.087E-02 2.112E-02 2.136E-02 2.149E-02 2.157E-02 2.166E-02 2.169E-02 2.171E-02
ADSORBED 1.674E-02 1.669E-02 1.666E-02 1.674E-02 1.696E-02 1.716E-02 1.736E-02 1.746E-02 1.753E-02 1.760E-02 1.762E-02 1.764E-02
SOIL AIR 3.586E-02 3.621E-02 3.651E-02 3.714E-02 3.755E-02 3.792E-02 3.764E-02 3.756E-02 3.739E-02 3.698E-02 3.700E-02 3.716E-02

POL DEP CM 1.807E+03 1.808E+03 1.808E+03 1.810E+03 1.811E+03 1.812E+03 1.812E+03 1.813E+03 1.813E+03 1.813E+03 1.813E+03 1.813E+03
1 YEAR - 3 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575

TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 7.683E-05
ADSORBED SOIL (UG/G) 2.601E-05
SOIL AIR (UG/ML) 5.621E-05

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 6.804E-04
ADSORBED SOIL (UG/G) 2.303E-04
SOIL AIR (UG/ML) 4.978E-04

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.833E+00
ADSORBED SOIL (UG/G) 1.297E+00
SOIL AIR (UG/ML) 2.801E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.080E+00
ADSORBED SOIL (UG/G) 3.655E-01
SOIL AIR (UG/ML) 7.885E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 2.867E-01
ADSORBED SOIL (UG/G) 9.705E-02
SOIL AIR (UG/ML) 2.092E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 8.341E-02
ADSORBED SOIL (UG/G) 2.823E-02
SOIL AIR (UG/ML) 6.087E-02

SUBLAYER 4

SOIL MOISTURE (UG/ML) 5.112E-02
ADSORBED SOIL (UG/G) 1.731E-02
SOIL AIR (UG/ML) 3.734E-02

SUBLAYER 5

SOIL MOISTURE (UG/ML) 4.759E-02
ADSORBED SOIL (UG/G) 1.611E-02
SOIL AIR (UG/ML) 3.478E-02

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.734E-02
ADSORBED SOIL (UG/G) 1.603E-02
SOIL AIR (UG/ML) 3.459E-02

SUBLAYER 7

SOIL MOISTURE (UG/ML) 4.740E-02
ADSORBED SOIL (UG/G) 1.605E-02
SOIL AIR (UG/ML) 3.464E-02

SUBLAYER 8

SOIL MOISTURE (UG/ML) 4.756E-02
ADSORBED SOIL (UG/G) 1.610E-02
SOIL AIR (UG/ML) 3.475E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.781E-02
ADSORBED SOIL (UG/G) 1.618E-02
SOIL AIR (UG/ML) 3.493E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.075E-02
ADSORBED SOIL (UG/G) 1.718E-02
SOIL AIR (UG/ML) 3.708E-02

MAX. POLL. DEPTH (M) 1.813E+01

1

YEAR - 4 MONTHLY RESULTS (OUTPUT)
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-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	2.995E+03	1.821E+03	1.045E+03	4.032E+02	1.748E+02	8.026E+01	4.908E+01	4.198E+01	3.917E+01	3.774E+01	3.545E+01	3.130E+01
ADS ON SOIL	2.040E+04	1.125E+04	5.856E+03	1.874E+03	8.084E+02	3.861E+02	2.559E+02	2.352E+02	2.310E+02	2.317E+02	2.245E+02	2.054E+02
IN SOIL AIR	6.041E+03	3.250E+03	1.636E+03	4.787E+02	2.054E+02	1.003E+02	6.826E+01	6.453E+01	6.432E+01	6.463E+01	6.338E+01	5.901E+01

SOIL ZONE 2:

SUBLAYER 1

SOIL MOI 3.428E+03 2.102E+03 1.212E+03 4.643E+02 1.998E+02 9.166E+01 5.596E+01 4.795E+01 4.489E+01 4.324E+01 4.055E+01 3.623E+01
S ON SOIL 2.335E+04 1.299E+04 6.792E+03 2.158E+03 9.241E+02 4.410E+02 2.918E+02 2.687E+02 2.648E+02 2.654E+02 2.568E+02 2.378E+02
IN SOIL AIR 6.914E+03 3.753E+03 1.897E+03 5.512E+02 2.348E+02 1.146E+02 7.783E+01 7.371E+01 7.372E+01 7.404E+01 7.250E+01 6.830E+01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 1.573E+09 1.720E+09 1.882E+09 2.237E+09 2.239E+09 2.148E+09 1.990E+09 1.859E+09 1.772E+09 1.709E+09 1.659E+09 1.600E+09
ADS ON SOIL 1.072E+10 1.063E+10 1.055E+10 1.040E+10 1.036E+10 1.033E+10 1.038E+10 1.041E+10 1.045E+10 1.049E+10 1.050E+10 1.050E+10
IN SOIL AIR 3.173E+09 3.071E+09 2.946E+09 2.655E+09 2.631E+09 2.685E+09 2.768E+09 2.857E+09 2.909E+09 2.927E+09 2.965E+09 3.017E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 7.923E+07 8.942E+07 1.012E+08 1.274E+08 1.327E+08 1.316E+08 1.240E+08 1.162E+08 1.109E+08 1.070E+08 1.039E+08 1.006E+08
ADS ON SOIL 5.397E+08 5.526E+08 5.670E+08 5.922E+08 6.139E+08 6.330E+08 6.468E+08 6.513E+08 6.539E+08 6.569E+08 6.581E+08 6.602E+08
IN SOIL AIR 1.598E+08 1.596E+08 1.584E+08 1.512E+08 1.560E+08 1.645E+08 1.725E+08 1.787E+08 1.821E+08 1.832E+08 1.858E+08 1.897E+08

SUBLAYER 2

IN SOIL MOI 2.269E+07 2.637E+07 3.080E+07 4.113E+07 4.477E+07 4.601E+07 4.421E+07 4.161E+07 3.973E+07 3.836E+07 3.730E+07 3.623E+07
ADS ON SOIL 1.546E+08 1.630E+08 1.726E+08 1.912E+08 2.071E+08 2.213E+08 2.306E+08 2.332E+08 2.343E+08 2.355E+08 2.362E+08 2.378E+08
IN SOIL AIR 4.577E+07 4.708E+07 4.822E+07 4.884E+07 5.261E+07 5.751E+07 6.149E+07 6.396E+07 6.524E+07 6.569E+07 6.669E+07 6.831E+07

SUBLAYER 3

IN SOIL MOI 6.392E+06 7.399E+06 8.633E+06 1.161E+07 1.278E+07 1.329E+07 1.286E+07 1.213E+07 1.159E+07 1.119E+07 1.088E+07 1.058E+07
ADS ON SOIL 4.354E+07 4.573E+07 4.838E+07 5.398E+07 5.909E+07 6.391E+07 6.707E+07 6.796E+07 6.833E+07 6.868E+07 6.892E+07 6.946E+07
IN SOIL AIR 1.289E+07 1.321E+07 1.351E+07 1.378E+07 1.501E+07 1.661E+07 1.789E+07 1.864E+07 1.903E+07 1.916E+07 1.946E+07 1.995E+07

SUBLAYER 4

SOIL MOI 3.546E+06 3.955E+06 4.433E+06 5.543E+06 5.796E+06 5.790E+06 5.491E+06 5.155E+06 4.920E+06 4.749E+06 4.614E+06 4.471E+06
ADS ON SOIL 2.415E+07 2.445E+07 2.484E+07 2.577E+07 2.681E+07 2.785E+07 2.863E+07 2.889E+07 2.902E+07 2.915E+07 2.922E+07 2.935E+07
IN SOIL AIR 7.151E+06 7.062E+06 6.939E+06 6.581E+06 6.811E+06 7.238E+06 7.637E+06 7.925E+06 8.080E+06 8.133E+06 8.250E+06 8.430E+06

SUBLAYER 5

IN SOIL MOI 3.209E+06 3.533E+06 3.897E+06 4.703E+06 4.769E+06 4.632E+06 4.322E+06 4.042E+06 3.855E+06 3.719E+06 3.611E+06 3.489E+06
ADS ON SOIL 2.186E+07 2.184E+07 2.184E+07 2.187E+07 2.206E+07 2.228E+07 2.254E+07 2.265E+07 2.273E+07 2.283E+07 2.286E+07 2.290E+07
IN SOIL AIR 6.473E+06 6.308E+06 6.100E+06 5.584E+06 5.605E+06 5.790E+06 6.011E+06 6.214E+06 6.330E+06 6.369E+06 6.455E+06 6.577E+06

SUBLAYER 6

IN SOIL MOI 3.183E+06 3.498E+06 3.850E+06 4.623E+06 4.664E+06 4.507E+06 4.192E+06 3.917E+06 3.735E+06 3.604E+06 3.497E+06 3.377E+06
ADS ON SOIL 2.168E+07 2.162E+07 2.158E+07 2.149E+07 2.157E+07 2.168E+07 2.186E+07 2.195E+07 2.203E+07 2.212E+07 2.215E+07 2.217E+07
IN SOIL AIR 6.419E+06 6.245E+06 6.027E+06 5.488E+06 5.481E+06 5.633E+06 5.830E+06 6.022E+06 6.133E+06 6.171E+06 6.253E+06 6.368E+06

SUBLAYER 7

IN SOIL MOI 3.186E+06 3.501E+06 3.853E+06 4.624E+06 4.663E+06 4.503E+06 4.187E+06 3.913E+06 3.730E+06 3.599E+06 3.493E+06 3.373E+06
ADS ON SOIL 2.170E+07 2.164E+07 2.159E+07 2.150E+07 2.157E+07 2.166E+07 2.183E+07 2.193E+07 2.200E+07 2.209E+07 2.212E+07 2.214E+07
IN SOIL AIR 6.425E+06 6.251E+06 6.031E+06 5.490E+06 5.479E+06 5.629E+06 5.824E+06 6.015E+06 6.126E+06 6.163E+06 6.245E+06 6.359E+06

SUBLAYER 8

IN SOIL MOI 3.197E+06 3.513E+06 3.866E+06 4.639E+06 4.678E+06 4.517E+06 4.200E+06 3.925E+06 3.742E+06 3.610E+06 3.504E+06 3.383E+06
ADS ON SOIL 2.177E+07 2.171E+07 2.166E+07 2.157E+07 2.164E+07 2.173E+07 2.190E+07 2.199E+07 2.207E+07 2.216E+07 2.219E+07 2.221E+07
IN SOIL AIR 6.447E+06 6.272E+06 6.051E+06 5.508E+06 5.497E+06 5.647E+06 5.842E+06 6.033E+06 6.144E+06 6.182E+06 6.265E+06 6.379E+06

SUBLAYER 9

IN SOIL MOI 3.213E+06 3.531E+06 3.886E+06 4.663E+06 4.702E+06 4.540E+06 4.222E+06 3.945E+06 3.761E+06 3.629E+06 3.522E+06 3.401E+06
ADS ON SOIL 2.188E+07 2.182E+07 2.177E+07 2.168E+07 2.175E+07 2.184E+07 2.201E+07 2.210E+07 2.218E+07 2.227E+07 2.230E+07 2.232E+07
IN SOIL AIR 6.480E+06 6.304E+06 6.082E+06 5.536E+06 5.525E+06 5.675E+06 5.871E+06 6.064E+06 6.176E+06 6.213E+06 6.296E+06 6.411E+06

SUBLAYER 10

IN SOIL MOI 3.451E+06 3.791E+06 4.175E+06 5.053E+06 5.142E+06 5.001E+06 4.667E+06 4.368E+06 4.166E+06 4.020E+06 3.901E+06 3.767E+06
ADS ON SOIL 2.350E+07 2.343E+07 2.339E+07 2.349E+07 2.378E+07 2.406E+07 2.434E+07 2.448E+07 2.457E+07 2.468E+07 2.471E+07 2.473E+07
IN SOIL AIR 6.959E+06 6.769E+06 6.535E+06 5.999E+06 6.043E+06 6.251E+06 6.491E+06 6.714E+06 6.842E+06 6.884E+06 6.976E+06 7.102E+06

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.121E-06 2.273E-06 1.183E-06 3.787E-07 1.633E-07 7.800E-08 5.170E-08 4.752E-08 4.666E-08 4.680E-08 4.535E-08 4.150E-08
%SOLUBILITY 1.717E-06 9.471E-07 4.929E-07 1.578E-07 6.804E-08 3.250E-08 2.154E-08 1.980E-08 1.944E-08 1.950E-08 1.890E-08 1.729E-08
ADSORBED 1.395E-06 7.695E-07 4.005E-07 1.282E-07 5.528E-08 2.640E-08 1.750E-08 1.609E-08 1.580E-08 1.584E-08 1.535E-08 1.405E-08
SOIL AIR 2.989E-06 1.669E-06 8.773E-07 2.844E-07 1.224E-07 5.837E-08 3.795E-08 3.461E-08 3.370E-08 3.329E-08 3.224E-08 2.960E-08

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.634E-05 2.022E-05 1.057E-05 3.359E-06 1.438E-06 6.862E-07 4.541E-07 4.181E-07 4.120E-07 4.130E-07 3.996E-07 3.700E-07
%SOLUBILITY 1.514E-05 8.425E-06 4.404E-06 1.400E-06 5.992E-07 2.859E-07 1.892E-07 1.742E-07 1.717E-07 1.721E-07 1.665E-07 1.542E-07
ADSORBED 1.230E-05 6.845E-06 3.578E-06 1.137E-06 4.868E-07 2.323E-07 1.537E-07 1.415E-07 1.395E-07 1.398E-07 1.353E-07 1.253E-07
SOIL AIR 2.635E-05 1.485E-05 7.838E-06 2.523E-06 1.078E-06 5.135E-07 3.333E-07 3.045E-07 2.976E-07 2.938E-07 2.840E-07 2.639E-07

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 3.832E+00 3.802E+00 3.772E+00 3.718E+00 3.703E+00 3.696E+00 3.711E+00 3.724E+00 3.736E+00 3.752E+00 3.756E+00 3.756E+00
%SOLUBILITY 1.597E+00 1.584E+00 1.572E+00 1.549E+00 1.543E+00 1.540E+00 1.546E+00 1.552E+00 1.557E+00 1.563E+00 1.565E+00 1.565E+00
ADSORBED 1.297E+00 1.287E+00 1.277E+00 1.259E+00 1.254E+00 1.251E+00 1.256E+00 1.261E+00 1.265E+00 1.270E+00 1.271E+00 1.272E+00
SOIL AIR 2.779E+00 2.792E+00 2.797E+00 2.793E+00 2.776E+00 2.766E+00 2.725E+00 2.713E+00 2.698E+00 2.669E+00 2.670E+00 2.679E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.194E+00 1.223E+00 1.255E+00 1.310E+00 1.358E+00 1.401E+00 1.431E+00 1.441E+00 1.447E+00 1.453E+00 1.456E+00 1.461E+00
%SOLUBILITY 4.975E-01 5.095E-01 5.228E-01 5.460E-01 5.660E-01 5.836E-01 5.963E-01 6.005E-01 6.028E-01 6.056E-01 6.068E-01 6.087E-01
ADSORBED 4.042E-01 4.139E-01 4.247E-01 4.436E-01 4.598E-01 4.741E-01 4.845E-01 4.879E-01 4.898E-01 4.920E-01 4.930E-01 4.945E-01
SOIL AIR 8.659E-01 8.981E-01 9.305E-01 9.840E-01 1.018E+00 1.048E+00 1.051E+00 1.050E+00 1.045E+00 1.034E+00 1.035E+00 1.042E+00

SUBLAYER 2

MOISTURE 3.420E-01 3.606E-01 3.819E-01 4.232E-01 4.582E-01 4.897E-01 5.101E-01 5.159E-01 5.185E-01 5.211E-01 5.226E-01 5.262E-01
%SOLUBILITY 1.425E-01 1.503E-01 1.591E-01 1.763E-01 1.909E-01 2.040E-01 2.126E-01 2.150E-01 2.160E-01 2.171E-01 2.178E-01 2.192E-01
ADSORBED 1.158E-01 1.221E-01 1.293E-01 1.432E-01 1.551E-01 1.658E-01 1.727E-01 1.746E-01 1.755E-01 1.764E-01 1.769E-01 1.781E-01
SOIL AIR 2.480E-01 2.649E-01 2.832E-01 3.178E-01 3.435E-01 3.664E-01 3.745E-01 3.757E-01 3.744E-01 3.706E-01 3.715E-01 3.753E-01

SUBLAYER 3

MOISTURE 9.634E-02 1.012E-01 1.070E-01 1.194E-01 1.308E-01 1.414E-01 1.484E-01 1.504E-01 1.512E-01 1.520E-01 1.525E-01 1.537E-01
%SOLUBILITY 4.014E-02 4.216E-02 4.460E-02 4.976E-02 5.448E-02 5.892E-02 6.184E-02 6.265E-02 6.299E-02 6.332E-02 6.354E-02 6.404E-02
ADSORBED 3.261E-02 3.425E-02 3.624E-02 4.043E-02 4.426E-02 4.787E-02 5.024E-02 5.090E-02 5.118E-02 5.144E-02 5.162E-02 5.203E-02
SOIL AIR 6.986E-02 7.432E-02 7.938E-02 8.969E-02 9.802E-02 1.058E-01 1.089E-01 1.095E-01 1.092E-01 1.081E-01 1.084E-01 1.096E-01

SUBLAYER 4

MOISTURE 5.344E-02 5.409E-02 5.497E-02 5.702E-02 5.932E-02 6.163E-02 6.336E-02 6.392E-02 6.420E-02 6.451E-02 6.466E-02 6.493E-02
%SOLUBILITY 2.227E-02 2.254E-02 2.290E-02 2.376E-02 2.472E-02 2.568E-02 2.640E-02 2.663E-02 2.675E-02 2.688E-02 2.694E-02 2.706E-02
ADSORBED 1.809E-02 1.831E-02 1.861E-02 1.930E-02 2.008E-02 2.086E-02 2.145E-02 2.164E-02 2.173E-02 2.184E-02 2.189E-02 2.198E-02
SOIL AIR 3.875E-02 3.973E-02 4.076E-02 4.282E-02 4.447E-02 4.612E-02 4.651E-02 4.655E-02 4.637E-02 4.588E-02 4.596E-02 4.631E-02

SUBLAYER 5

MOISTURE 4.837E-02 4.831E-02 4.832E-02 4.838E-02 4.881E-02 4.931E-02 4.987E-02 5.012E-02 5.030E-02 5.052E-02 5.059E-02 5.066E-02
SOLUBILITY 2.015E-02 2.013E-02 2.013E-02 2.016E-02 2.034E-02 2.054E-02 2.078E-02 2.088E-02 2.096E-02 2.105E-02 2.108E-02 2.111E-02
ADSORBED 1.637E-02 1.636E-02 1.636E-02 1.638E-02 1.652E-02 1.669E-02 1.688E-02 1.697E-02 1.703E-02 1.710E-02 1.713E-02 1.715E-02
SOIL AIR 3.508E-02 3.548E-02 3.583E-02 3.634E-02 3.659E-02 3.690E-02 3.661E-02 3.650E-02 3.633E-02 3.593E-02 3.596E-02 3.613E-02

SUBLAYER 6

MOISTURE 4.797E-02 4.784E-02 4.774E-02 4.756E-02 4.773E-02 4.797E-02 4.837E-02 4.857E-02 4.873E-02 4.895E-02 4.901E-02 4.905E-02
%SOLUBILITY 1.999E-02 1.993E-02 1.989E-02 1.982E-02 1.989E-02 1.999E-02 2.015E-02 2.024E-02 2.031E-02 2.039E-02 2.042E-02 2.044E-02
ADSORBED 1.624E-02 1.619E-02 1.616E-02 1.610E-02 1.616E-02 1.624E-02 1.637E-02 1.644E-02 1.650E-02 1.657E-02 1.659E-02 1.660E-02
SOIL AIR 3.478E-02 3.513E-02 3.540E-02 3.572E-02 3.578E-02 3.590E-02 3.550E-02 3.538E-02 3.520E-02 3.481E-02 3.483E-02 3.498E-02

SUBLAYER 7

MOISTURE 4.802E-02 4.788E-02 4.778E-02 4.757E-02 4.772E-02 4.794E-02 4.831E-02 4.851E-02 4.868E-02 4.888E-02 4.895E-02 4.898E-02
%SOLUBILITY 2.001E-02 1.995E-02 1.991E-02 1.982E-02 1.988E-02 1.997E-02 2.013E-02 2.021E-02 2.028E-02 2.037E-02 2.039E-02 2.041E-02
ADSORBED 1.625E-02 1.621E-02 1.617E-02 1.610E-02 1.615E-02 1.623E-02 1.635E-02 1.642E-02 1.648E-02 1.655E-02 1.657E-02 1.658E-02
SOIL AIR 3.482E-02 3.516E-02 3.543E-02 3.573E-02 3.577E-02 3.587E-02 3.547E-02 3.533E-02 3.515E-02 3.477E-02 3.479E-02 3.494E-02

SUBLAYER 8

MOISTURE 4.818E-02 4.804E-02 4.793E-02 4.772E-02 4.787E-02 4.809E-02 4.846E-02 4.866E-02 4.882E-02 4.904E-02 4.910E-02 4.914E-02
%SOLUBILITY 2.007E-02 2.002E-02 1.997E-02 1.989E-02 1.995E-02 2.004E-02 2.019E-02 2.028E-02 2.034E-02 2.043E-02 2.046E-02 2.047E-02
ADSORBED 1.631E-02 1.626E-02 1.623E-02 1.616E-02 1.621E-02 1.628E-02 1.641E-02 1.647E-02 1.653E-02 1.660E-02 1.662E-02 1.663E-02
SOIL AIR 3.494E-02 3.528E-02 3.555E-02 3.584E-02 3.589E-02 3.598E-02 3.557E-02 3.544E-02 3.526E-02 3.488E-02 3.490E-02 3.504E-02

SUBLAYER 9

MOISTURE 4.842E-02 4.829E-02 4.818E-02 4.797E-02 4.812E-02 4.833E-02 4.871E-02 4.891E-02 4.907E-02 4.928E-02 4.934E-02 4.938E-02
%SOLUBILITY 2.018E-02 2.012E-02 2.007E-02 1.999E-02 2.005E-02 2.014E-02 2.029E-02 2.038E-02 2.045E-02 2.053E-02 2.056E-02 2.058E-02
ADSORBED 1.639E-02 1.635E-02 1.631E-02 1.624E-02 1.629E-02 1.636E-02 1.649E-02 1.656E-02 1.661E-02 1.668E-02 1.670E-02 1.672E-02
SOIL AIR 3.512E-02 3.546E-02 3.573E-02 3.602E-02 3.607E-02 3.616E-02 3.576E-02 3.562E-02 3.544E-02 3.505E-02 3.507E-02 3.522E-02

SUBLAYER 10

MOISTURE 5.200E-02 5.185E-02 5.177E-02 5.199E-02 5.263E-02 5.323E-02 5.385E-02 5.416E-02 5.437E-02 5.460E-02 5.467E-02 5.471E-02
%SOLUBILITY 2.167E-02 2.160E-02 2.157E-02 2.166E-02 2.193E-02 2.218E-02 2.244E-02 2.256E-02 2.265E-02 2.275E-02 2.278E-02 2.280E-02
ADSORBED 1.760E-02 1.755E-02 1.752E-02 1.760E-02 1.782E-02 1.802E-02 1.823E-02 1.833E-02 1.840E-02 1.848E-02 1.851E-02 1.852E-02
SOIL AIR 3.771E-02 3.808E-02 3.839E-02 3.904E-02 3.945E-02 3.983E-02 3.953E-02 3.944E-02 3.927E-02 3.884E-02 3.886E-02 3.902E-02

POL DEP CM 1.813E+03 1.813E+03 1.814E+03 1.815E+03 1.816E+03 1.817E+03 1.818E+03 1.818E+03 1.818E+03 1.818E+03 1.818E+03 1.818E+03
1 YEAR - 4 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 7.064E-07
ADSORBED SOIL (UG/G) 2.391E-07
SOIL AIR (UG/ML) 5.168E-07

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 6.256E-06
ADSORBED SOIL (UG/G) 2.118E-06
SOIL AIR (UG/ML) 4.578E-06

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.747E+00
ADSORBED SOIL (UG/G) 1.268E+00
SOIL AIR (UG/ML) 2.738E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.369E+00
ADSORBED SOIL (UG/G) 4.635E-01
SOIL AIR (UG/ML) 1.000E+00

SUBLAYER 2

SOIL MOISTURE (UG/ML) 4.642E-01
ADSORBED SOIL (UG/G) 1.571E-01
SOIL AIR (UG/ML) 3.388E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 1.337E-01
ADSORBED SOIL (UG/G) 4.526E-02
SOIL AIR (UG/ML) 9.757E-02

SUBLAYER 4

SOIL MOISTURE (UG/ML) 6.050E-02
ADSORBED SOIL (UG/G) 2.048E-02
SOIL AIR (UG/ML) 4.419E-02

SUBLAYER 5

SOIL MOISTURE (UG/ML) 4.946E-02
ADSORBED SOIL (UG/G) 1.674E-02
SOIL AIR (UG/ML) 3.614E-02

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.829E-02
ADSORBED SOIL (UG/G) 1.635E-02
SOIL AIR (UG/ML) 3.529E-02

SUBLAYER 7

SOIL MOISTURE (UG/ML) 4.827E-02
ADSORBED SOIL (UG/G) 1.634E-02
SOIL AIR (UG/ML) 3.527E-02

SUBLAYER 8

SOIL MOISTURE (UG/ML) 4.842E-02
ADSORBED SOIL (UG/G) 1.639E-02
SOIL AIR (UG/ML) 3.538E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.867E-02
ADSORBED SOIL (UG/G) 1.647E-02
SOIL AIR (UG/ML) 3.556E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.332E-02
ADSORBED SOIL (UG/G) 1.805E-02
SOIL AIR (UG/ML) 3.895E-02

MAX. POLL. DEPTH (M) 1.818E+01

1

YEAR - 5 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	2.674E+01	1.610E+01	9.028E+00	3.301E+00	1.177E+00	7.203E-01	6.645E-01	6.184E-01	5.876E-01	5.645E-01	5.472E-01	5.280E-01
ADS ON SOIL	1.822E+02	9.950E+01	5.059E+01	1.535E+01	5.445E+00	3.465E+00	3.465E+00	3.465E+00	3.465E+00	3.465E+00	3.465E+00	3.465E+00
IN SOIL AIR	5.394E+01	2.874E+01	1.413E+01	3.919E+00	1.383E+00	9.004E-01	9.242E-01	9.506E-01	9.649E-01	9.666E-01	9.783E-01	9.954E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	3.110E+01	1.882E+01	1.057E+01	3.870E+00	1.473E+00	8.015E-01	7.394E-01	6.880E-01	6.538E-01	6.281E-01	6.089E-01	5.875E-01
ADS ON SOIL	2.119E+02	1.163E+02	5.925E+01	1.799E+01	6.812E+00	3.856E+00	3.856E+00	3.856E+00	3.856E+00	3.856E+00	3.856E+00	3.856E+00
IN SOIL AIR	6.273E+01	3.360E+01	1.655E+01	4.595E+00	1.731E+00	1.002E+00	1.028E+00	1.058E+00	1.074E+00	1.076E+00	1.089E+00	1.108E+00

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 1.538E+09 1.681E+09 1.840E+09 2.186E+09 2.188E+09 2.100E+09 1.945E+09 1.817E+09 1.732E+09 1.671E+09 1.621E+09 1.564E+09
ADS ON SOIL 1.047E+10 1.039E+10 1.031E+10 1.016E+10 1.012E+10 1.010E+10 1.014E+10 1.018E+10 1.021E+10 1.026E+10 1.027E+10 1.027E+10
IN SOIL AIR 3.101E+09 3.002E+09 2.880E+09 2.595E+09 2.571E+09 2.625E+09 2.706E+09 2.793E+09 2.844E+09 2.861E+09 2.898E+09 2.949E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 9.705E+07 1.084E+08 1.214E+08 1.501E+08 1.545E+08 1.517E+08 1.423E+08 1.332E+08 1.270E+08 1.226E+08 1.190E+08 1.151E+08
ADS ON SOIL 6.610E+08 6.700E+08 6.802E+08 6.977E+08 7.146E+08 7.298E+08 7.420E+08 7.464E+08 7.492E+08 7.525E+08 7.538E+08 7.555E+08
IN SOIL AIR 1.957E+08 1.935E+08 1.900E+08 1.782E+08 1.816E+08 1.896E+08 1.979E+08 2.048E+08 2.086E+08 2.099E+08 2.128E+08 2.170E+08

SUBLAYER 2

IN SOIL MOI 3.511E+07 4.015E+07 4.610E+07 5.973E+07 6.366E+07 6.432E+07 6.127E+07 5.755E+07 5.493E+07 5.303E+07 5.153E+07 4.998E+07
ADS ON SOIL 2.392E+08 2.481E+08 2.583E+08 2.777E+08 2.944E+08 3.094E+08 3.195E+08 3.225E+08 3.239E+08 3.255E+08 3.263E+08 3.280E+08
IN SOIL AIR 7.082E+07 7.168E+07 7.216E+07 7.092E+07 7.480E+07 8.040E+07 8.521E+07 8.847E+07 9.020E+07 9.080E+07 9.214E+07 9.422E+07

SUBLAYER 3

IN SOIL MOI 1.027E+07 1.186E+07 1.377E+07 1.831E+07 1.994E+07 2.054E+07 1.978E+07 1.862E+07 1.779E+07 1.717E+07 1.670E+07 1.622E+07
ADS ON SOIL 6.998E+07 7.327E+07 7.716E+07 8.512E+07 9.224E+07 9.880E+07 1.031E+08 1.043E+08 1.049E+08 1.054E+08 1.057E+08 1.065E+08
IN SOIL AIR 2.072E+07 2.117E+07 2.155E+07 2.174E+07 2.343E+07 2.567E+07 2.750E+07 2.863E+07 2.921E+07 2.941E+07 2.986E+07 3.059E+07

SUBLAYER 4

IN SOIL MOI 4.321E+06 4.868E+06 5.517E+06 7.046E+06 7.481E+06 7.563E+06 7.217E+06 6.784E+06 6.477E+06 6.253E+06 6.077E+06 5.895E+06
ADS ON SOIL 2.943E+07 3.009E+07 3.092E+07 3.276E+07 3.460E+07 3.638E+07 3.763E+07 3.802E+07 3.820E+07 3.838E+07 3.848E+07 3.869E+07
IN SOIL AIR 8.714E+06 8.692E+06 8.636E+06 8.366E+06 8.791E+06 9.454E+06 1.004E+07 1.043E+07 1.064E+07 1.071E+07 1.087E+07 1.111E+07

SUBLAYER 5

SOIL MOI 3.358E+06 3.707E+06 4.103E+06 4.992E+06 5.097E+06 4.982E+06 4.666E+06 4.367E+06 4.165E+06 4.020E+06 3.903E+06 3.773E+06
DS ON SOIL 2.287E+07 2.291E+07 2.299E+07 2.321E+07 2.358E+07 2.397E+07 2.433E+07 2.447E+07 2.456E+07 2.467E+07 2.471E+07 2.476E+07
IN SOIL AIR 6.773E+06 6.619E+06 6.423E+06 5.926E+06 5.990E+06 6.227E+06 6.489E+06 6.714E+06 6.840E+06 6.883E+06 6.978E+06 7.114E+06

SUBLAYER 6

IN SOIL MOI 3.249E+06 3.572E+06 3.933E+06 4.728E+06 4.775E+06 4.619E+06 4.299E+06 4.018E+06 3.831E+06 3.696E+06 3.588E+06 3.465E+06
ADS ON SOIL 2.213E+07 2.208E+07 2.204E+07 2.198E+07 2.209E+07 2.222E+07 2.242E+07 2.252E+07 2.259E+07 2.269E+07 2.272E+07 2.274E+07
IN SOIL AIR 6.552E+06 6.377E+06 6.157E+06 5.613E+06 5.611E+06 5.774E+06 5.979E+06 6.177E+06 6.291E+06 6.330E+06 6.414E+06 6.532E+06

SUBLAYER 7

IN SOIL MOI 3.244E+06 3.565E+06 3.924E+06 4.710E+06 4.750E+06 4.588E+06 4.266E+06 3.986E+06 3.800E+06 3.667E+06 3.559E+06 3.437E+06
ADS ON SOIL 2.210E+07 2.204E+07 2.199E+07 2.190E+07 2.197E+07 2.207E+07 2.224E+07 2.234E+07 2.241E+07 2.251E+07 2.254E+07 2.255E+07
IN SOIL AIR 6.543E+06 6.366E+06 6.142E+06 5.592E+06 5.581E+06 5.734E+06 5.933E+06 6.128E+06 6.241E+06 6.279E+06 6.363E+06 6.479E+06

SUBLAYER 8

IN SOIL MOI 3.254E+06 3.576E+06 3.936E+06 4.723E+06 4.762E+06 4.599E+06 4.276E+06 3.996E+06 3.809E+06 3.676E+06 3.567E+06 3.445E+06
ADS ON SOIL 2.217E+07 2.210E+07 2.205E+07 2.196E+07 2.203E+07 2.212E+07 2.230E+07 2.239E+07 2.247E+07 2.256E+07 2.259E+07 2.261E+07
IN SOIL AIR 6.563E+06 6.385E+06 6.161E+06 5.607E+06 5.596E+06 5.749E+06 5.947E+06 6.143E+06 6.256E+06 6.294E+06 6.378E+06 6.494E+06

SUBLAYER 9

IN SOIL MOI 3.271E+06 3.594E+06 3.956E+06 4.747E+06 4.786E+06 4.622E+06 4.298E+06 4.016E+06 3.828E+06 3.694E+06 3.585E+06 3.462E+06
ADS ON SOIL 2.228E+07 2.221E+07 2.217E+07 2.207E+07 2.214E+07 2.223E+07 2.241E+07 2.250E+07 2.258E+07 2.267E+07 2.270E+07 2.272E+07
IN SOIL AIR 6.596E+06 6.417E+06 6.192E+06 5.636E+06 5.624E+06 5.777E+06 5.977E+06 6.173E+06 6.287E+06 6.325E+06 6.410E+06 6.526E+06

SUBLAYER 10

IN SOIL MOI 3.623E+06 3.981E+06 4.383E+06 5.303E+06 5.395E+06 5.245E+06 4.894E+06 4.580E+06 4.369E+06 4.215E+06 4.091E+06 3.950E+06
ADS ON SOIL 2.468E+07 2.460E+07 2.456E+07 2.466E+07 2.495E+07 2.523E+07 2.552E+07 2.566E+07 2.576E+07 2.587E+07 2.591E+07 2.593E+07
IN SOIL AIR 7.307E+06 7.107E+06 6.861E+06 6.296E+06 6.340E+06 6.556E+06 6.806E+06 7.041E+06 7.174E+06 7.218E+06 7.314E+06 7.447E+06

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.680E-08 2.010E-08 1.022E-08 3.100E-09 1.100E-09 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10
%SOLUBILITY 1.533E-08 8.375E-09 4.258E-09 1.292E-09 4.583E-10 2.917E-10 2.917E-10 2.917E-10 2.917E-10 2.917E-10 2.917E-10 2.917E-10
ADSORBED 1.246E-08 6.804E-09 3.460E-09 1.049E-09 3.724E-10 2.370E-10 2.370E-10 2.370E-10 2.370E-10 2.370E-10 2.370E-10 2.370E-10
SOIL AIR 2.669E-08 1.476E-08 7.579E-09 2.328E-09 8.246E-10 5.238E-10 5.139E-10 5.098E-10 5.056E-10 4.979E-10 4.976E-10 4.992E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.297E-07 1.810E-07 9.220E-08 2.800E-08 1.060E-08 6.000E-09 6.000E-09 6.000E-09 6.000E-09 6.000E-09 6.000E-09 6.000E-09
%SOLUBILITY 1.374E-07 7.542E-08 3.842E-08 1.167E-08 4.417E-09 2.500E-09 2.500E-09 2.500E-09 2.500E-09 2.500E-09 2.500E-09 2.500E-09
ADSORBED 1.116E-07 6.127E-08 3.121E-08 9.479E-09 3.588E-09 2.031E-09 2.031E-09 2.031E-09 2.031E-09 2.031E-09 2.031E-09 2.031E-09
SOIL AIR 2.391E-07 1.329E-07 6.838E-08 2.103E-08 7.946E-09 4.490E-09 4.404E-09 4.370E-09 4.333E-09 4.268E-09 4.265E-09 4.279E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 3.746E+00 3.716E+00 3.687E+00 3.634E+00 3.619E+00 3.612E+00 3.628E+00 3.640E+00 3.652E+00 3.667E+00 3.671E+00 3.671E+00
%SOLUBILITY 1.561E+00 1.548E+00 1.536E+00 1.514E+00 1.508E+00 1.505E+00 1.512E+00 1.517E+00 1.522E+00 1.528E+00 1.530E+00 1.530E+00
ADSORBED 1.268E+00 1.258E+00 1.248E+00 1.230E+00 1.225E+00 1.223E+00 1.228E+00 1.232E+00 1.236E+00 1.241E+00 1.243E+00 1.243E+00
SOIL AIR 2.716E+00 2.729E+00 2.734E+00 2.730E+00 2.713E+00 2.703E+00 2.663E+00 2.651E+00 2.638E+00 2.608E+00 2.609E+00 2.618E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.463E+00 1.483E+00 1.505E+00 1.544E+00 1.581E+00 1.615E+00 1.642E+00 1.652E+00 1.658E+00 1.665E+00 1.668E+00 1.672E+00
%SOLUBILITY 6.094E-01 6.177E-01 6.271E-01 6.433E-01 6.588E-01 6.728E-01 6.841E-01 6.882E-01 6.907E-01 6.938E-01 6.950E-01 6.965E-01
ADSORBED 4.951E-01 5.019E-01 5.095E-01 5.226E-01 5.353E-01 5.466E-01 5.558E-01 5.591E-01 5.612E-01 5.637E-01 5.646E-01 5.659E-01
SOIL AIR 1.061E+00 1.089E+00 1.116E+00 1.159E+00 1.185E+00 1.208E+00 1.205E+00 1.203E+00 1.197E+00 1.184E+00 1.186E+00 1.192E+00

SUBLAYER 2

MOISTURE 5.292E-01 5.490E-01 5.716E-01 6.145E-01 6.515E-01 6.847E-01 7.069E-01 7.136E-01 7.168E-01 7.202E-01 7.221E-01 7.258E-01
%SOLUBILITY 2.205E-01 2.288E-01 2.382E-01 2.560E-01 2.714E-01 2.853E-01 2.945E-01 2.973E-01 2.987E-01 3.001E-01 3.009E-01 3.024E-01
ADSORBED 1.792E-01 1.859E-01 1.935E-01 2.080E-01 2.205E-01 2.318E-01 2.393E-01 2.416E-01 2.426E-01 2.438E-01 2.444E-01 2.457E-01
SOIL AIR 3.838E-01 4.032E-01 4.239E-01 4.615E-01 4.884E-01 5.123E-01 5.189E-01 5.197E-01 5.177E-01 5.123E-01 5.133E-01 5.176E-01

SUBLAYER 3

MOISTURE 1.549E-01 1.621E-01 1.707E-01 1.884E-01 2.041E-01 2.186E-01 2.282E-01 2.309E-01 2.321E-01 2.332E-01 2.340E-01 2.356E-01
%SOLUBILITY 6.452E-02 6.755E-02 7.114E-02 7.848E-02 8.504E-02 9.109E-02 9.507E-02 9.621E-02 9.670E-02 9.719E-02 9.749E-02 9.817E-02
ADSORBED 5.242E-02 5.488E-02 5.780E-02 6.376E-02 6.909E-02 7.401E-02 7.724E-02 7.816E-02 7.856E-02 7.896E-02 7.921E-02 7.976E-02
SOIL AIR 1.123E-01 1.191E-01 1.266E-01 1.415E-01 1.530E-01 1.636E-01 1.675E-01 1.682E-01 1.676E-01 1.659E-01 1.663E-01 1.680E-01

SUBLAYER 4

MOISTURE 6.512E-02 6.658E-02 6.841E-02 7.249E-02 7.656E-02 8.051E-02 8.327E-02 8.412E-02 8.452E-02 8.493E-02 8.515E-02 8.561E-02
%SOLUBILITY 2.713E-02 2.774E-02 2.851E-02 3.020E-02 3.190E-02 3.354E-02 3.469E-02 3.505E-02 3.522E-02 3.539E-02 3.548E-02 3.567E-02
ADSORBED 2.204E-02 2.254E-02 2.316E-02 2.454E-02 2.592E-02 2.725E-02 2.819E-02 2.848E-02 2.861E-02 2.875E-02 2.883E-02 2.898E-02
SOIL AIR 4.722E-02 4.890E-02 5.073E-02 5.444E-02 5.740E-02 6.024E-02 6.112E-02 6.126E-02 6.104E-02 6.041E-02 6.053E-02 6.105E-02

SUBLAYER 5

MOISTURE 5.061E-02 5.070E-02 5.088E-02 5.135E-02 5.216E-02 5.303E-02 5.383E-02 5.415E-02 5.435E-02 5.460E-02 5.468E-02 5.480E-02
%SOLUBILITY 2.109E-02 2.113E-02 2.120E-02 2.140E-02 2.174E-02 2.210E-02 2.243E-02 2.256E-02 2.265E-02 2.275E-02 2.279E-02 2.283E-02
ADSORBED 1.713E-02 1.716E-02 1.722E-02 1.738E-02 1.766E-02 1.795E-02 1.822E-02 1.833E-02 1.840E-02 1.848E-02 1.851E-02 1.855E-02
SOIL AIR 3.670E-02 3.724E-02 3.773E-02 3.856E-02 3.910E-02 3.968E-02 3.952E-02 3.944E-02 3.926E-02 3.883E-02 3.887E-02 3.908E-02

SUBLAYER 6

MOISTURE 4.896E-02 4.885E-02 4.877E-02 4.864E-02 4.887E-02 4.917E-02 4.960E-02 4.982E-02 4.999E-02 5.020E-02 5.027E-02 5.032E-02
%SOLUBILITY 2.040E-02 2.035E-02 2.032E-02 2.027E-02 2.036E-02 2.049E-02 2.067E-02 2.076E-02 2.083E-02 2.092E-02 2.095E-02 2.097E-02
ADSORBED 1.658E-02 1.654E-02 1.651E-02 1.646E-02 1.654E-02 1.664E-02 1.679E-02 1.687E-02 1.692E-02 1.700E-02 1.702E-02 1.703E-02
SOIL AIR 3.551E-02 3.588E-02 3.617E-02 3.653E-02 3.663E-02 3.679E-02 3.641E-02 3.628E-02 3.610E-02 3.571E-02 3.573E-02 3.589E-02

SUBLAYER 7

MOISTURE 4.890E-02 4.876E-02 4.866E-02 4.845E-02 4.861E-02 4.883E-02 4.922E-02 4.943E-02 4.959E-02 4.980E-02 4.987E-02 4.991E-02
%SOLUBILITY 2.037E-02 2.032E-02 2.027E-02 2.019E-02 2.025E-02 2.035E-02 2.051E-02 2.059E-02 2.066E-02 2.075E-02 2.078E-02 2.079E-02
ADSORBED 1.655E-02 1.651E-02 1.647E-02 1.640E-02 1.646E-02 1.653E-02 1.666E-02 1.673E-02 1.679E-02 1.686E-02 1.688E-02 1.689E-02
SOIL AIR 3.546E-02 3.581E-02 3.608E-02 3.639E-02 3.644E-02 3.654E-02 3.613E-02 3.600E-02 3.582E-02 3.542E-02 3.545E-02 3.559E-02

SUBLAYER 8

MOISTURE 4.905E-02 4.891E-02 4.880E-02 4.859E-02 4.874E-02 4.896E-02 4.934E-02 4.954E-02 4.971E-02 4.992E-02 4.998E-02 5.002E-02
%SOLUBILITY 2.044E-02 2.038E-02 2.033E-02 2.024E-02 2.031E-02 2.040E-02 2.056E-02 2.064E-02 2.071E-02 2.080E-02 2.083E-02 2.084E-02
ADSORBED 1.660E-02 1.656E-02 1.652E-02 1.645E-02 1.650E-02 1.657E-02 1.670E-02 1.677E-02 1.683E-02 1.690E-02 1.692E-02 1.693E-02
SOIL AIR 3.557E-02 3.592E-02 3.619E-02 3.649E-02 3.654E-02 3.663E-02 3.622E-02 3.608E-02 3.590E-02 3.551E-02 3.553E-02 3.568E-02

SUBLAYER 9

MOISTURE 4.929E-02 4.915E-02 4.905E-02 4.883E-02 4.898E-02 4.920E-02 4.958E-02 4.979E-02 4.995E-02 5.017E-02 5.023E-02 5.027E-02
%SOLUBILITY 2.054E-02 2.048E-02 2.044E-02 2.035E-02 2.041E-02 2.050E-02 2.066E-02 2.075E-02 2.081E-02 2.090E-02 2.093E-02 2.095E-02
ADSORBED 1.669E-02 1.664E-02 1.660E-02 1.653E-02 1.658E-02 1.665E-02 1.679E-02 1.686E-02 1.691E-02 1.698E-02 1.700E-02 1.702E-02
SOIL AIR 3.575E-02 3.610E-02 3.637E-02 3.667E-02 3.672E-02 3.681E-02 3.640E-02 3.626E-02 3.608E-02 3.568E-02 3.571E-02 3.585E-02

SUBLAYER 10

MOISTURE 5.461E-02 5.444E-02 5.435E-02 5.456E-02 5.521E-02 5.583E-02 5.647E-02 5.679E-02 5.701E-02 5.725E-02 5.732E-02 5.737E-02
%SOLUBILITY 2.275E-02 2.268E-02 2.265E-02 2.273E-02 2.300E-02 2.326E-02 2.353E-02 2.366E-02 2.375E-02 2.386E-02 2.388E-02 2.390E-02
ADSORBED 1.849E-02 1.843E-02 1.840E-02 1.847E-02 1.869E-02 1.890E-02 1.911E-02 1.922E-02 1.930E-02 1.938E-02 1.940E-02 1.942E-02
SOIL AIR 3.960E-02 3.998E-02 4.030E-02 4.097E-02 4.139E-02 4.178E-02 4.145E-02 4.136E-02 4.117E-02 4.072E-02 4.075E-02 4.091E-02

POL DEP CM 1.818E+03 1.819E+03 1.819E+03 1.821E+03 1.822E+03 1.823E+03 1.823E+03 1.823E+03 1.824E+03 1.824E+03 1.824E+03 1.824E+03
1 YEAR - 5 ANNUAL SUMMARY REPORT
==========

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 6.352E-09
ADSORBED SOIL (UG/G) 2.150E-09
SOIL AIR (UG/ML) 4.644E-09

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 5.696E-08
ADSORBED SOIL (UG/G) 1.928E-08
SOIL AIR (UG/ML) 4.165E-08

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.662E+00
ADSORBED SOIL (UG/G) 1.240E+00

SOIL AIR (UG/ML) 2.676E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.595E+00
ADSORBED SOIL (UG/G) 5.401E-01
SOIL AIR (UG/ML) 1.166E+00

SUBLAYER 2

SOIL MOISTURE (UG/ML) 6.588E-01
ADSORBED SOIL (UG/G) 2.230E-01
SOIL AIR (UG/ML) 4.810E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.077E-01
ADSORBED SOIL (UG/G) 7.032E-02
SOIL AIR (UG/ML) 1.516E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 7.810E-02
ADSORBED SOIL (UG/G) 2.644E-02
SOIL AIR (UG/ML) 5.703E-02

SUBLAYER 5

SOIL MOISTURE (UG/ML) 5.293E-02
ADSORBED SOIL (UG/G) 1.792E-02
SOIL AIR (UG/ML) 3.867E-02

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.945E-02
ADSORBED SOIL (UG/G) 1.674E-02
SOIL AIR (UG/ML) 3.614E-02

SUBLAYER 7

SOIL MOISTURE (UG/ML) 4.917E-02
ADSORBED SOIL (UG/G) 1.664E-02
SOIL AIR (UG/ML) 3.593E-02

SUBLAYER 8

SOIL MOISTURE (UG/ML) 4.930E-02
ADSORBED SOIL (UG/G) 1.669E-02
SOIL AIR (UG/ML) 3.602E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.954E-02
ADSORBED SOIL (UG/G) 1.677E-02
SOIL AIR (UG/ML) 3.620E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.593E-02
ADSORBED SOIL (UG/G) 1.893E-02
SOIL AIR (UG/ML) 4.087E-02

MAX. POLL. DEPTH (M) 1.824E+01

1

YEAR - 10 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	1.372E+09	1.500E+09	1.641E+09	1.950E+09	1.952E+09	1.873E+09	1.735E+09	1.621E+09	1.545E+09	1.490E+09	1.446E+09	1.395E+09
ADS ON SOIL	9.344E+09	9.269E+09	9.196E+09	9.066E+09	9.029E+09	9.011E+09	9.049E+09	9.081E+09	9.110E+09	9.148E+09	9.158E+09	9.158E+09
IN SOIL AIR	2.767E+09	2.678E+09	2.569E+09	2.315E+09	2.294E+09	2.341E+09	2.414E+09	2.491E+09	2.537E+09	2.552E+09	2.586E+09	2.631E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	1.398E+08	1.537E+08	1.692E+08	2.033E+08	2.050E+08	1.980E+08	1.840E+08	1.720E+08	1.639E+08	1.582E+08	1.535E+08	1.482E+08
ADS ON SOIL	9.519E+08	9.498E+08	9.484E+08	9.450E+08	9.482E+08	9.523E+08	9.597E+08	9.637E+08	9.668E+08	9.710E+08	9.721E+08	9.728E+08
IN SOIL AIR	2.819E+08	2.744E+08	2.649E+08	2.413E+08	2.409E+08	2.475E+08	2.560E+08	2.644E+08	2.692E+08	2.709E+08	2.745E+08	2.794E+08

SUBLAYER 2

IN SOIL MOI 9.704E+07 1.077E+08 1.198E+08 1.466E+08 1.499E+08 1.465E+08 1.371E+08 1.283E+08 1.223E+08 1.180E+08 1.146E+08 1.108E+08
ADS ON SOIL 6.610E+08 6.657E+08 6.714E+08 6.816E+08 6.935E+08 7.048E+08 7.148E+08 7.187E+08 7.213E+08 7.245E+08 7.257E+08 7.271E+08
IN SOIL AIR 1.957E+08 1.923E+08 1.875E+08 1.741E+08 1.762E+08 1.831E+08 1.907E+08 1.972E+08 2.009E+08 2.021E+08 2.049E+08 2.089E+08

SUBLAYER 3

IN SOIL MOI 4.885E+07 5.476E+07 6.159E+07 7.701E+07 8.008E+07 7.934E+07 7.480E+07 7.011E+07 6.689E+07 6.456E+07 6.270E+07 6.069E+07
ADS ON SOIL 3.327E+08 3.384E+08 3.451E+08 3.581E+08 3.704E+08 3.817E+08 3.900E+08 3.929E+08 3.945E+08 3.963E+08 3.971E+08 3.984E+08
IN SOIL AIR 9.852E+07 9.777E+07 9.641E+07 9.143E+07 9.410E+07 9.918E+07 1.040E+08 1.078E+08 1.098E+08 1.105E+08 1.121E+08 1.144E+08

SUBLAYER 4

IN SOIL MOI 1.940E+07 2.190E+07 2.483E+07 3.160E+07 3.332E+07 3.341E+07 3.171E+07 2.977E+07 2.841E+07 2.742E+07 2.664E+07 2.582E+07
ADS ON SOIL 1.321E+08 1.353E+08 1.391E+08 1.469E+08 1.541E+08 1.607E+08 1.653E+08 1.668E+08 1.675E+08 1.683E+08 1.687E+08 1.694E+08
IN SOIL AIR 3.913E+07 3.910E+07 3.887E+07 3.751E+07 3.915E+07 4.176E+07 4.410E+07 4.576E+07 4.665E+07 4.696E+07 4.764E+07 4.867E+07

SUBLAYER 5

IN SOIL MOI 7.634E+06 8.589E+06 9.709E+06 1.232E+07 1.299E+07 1.303E+07 1.237E+07 1.162E+07 1.109E+07 1.071E+07 1.040E+07 1.008E+07
ADS ON SOIL 5.200E+07 5.308E+07 5.441E+07 5.728E+07 6.008E+07 6.269E+07 6.452E+07 6.512E+07 6.541E+07 6.572E+07 6.587E+07 6.615E+07
IN SOIL AIR 1.540E+07 1.533E+07 1.520E+07 1.463E+07 1.527E+07 1.629E+07 1.721E+07 1.786E+07 1.822E+07 1.833E+07 1.860E+07 1.900E+07

SUBLAYER 6

IN SOIL MOI 4.332E+06 4.807E+06 5.353E+06 6.596E+06 6.803E+06 6.703E+06 6.304E+06 5.907E+06 5.636E+06 5.439E+06 5.282E+06 5.109E+06
ADS ON SOIL 2.950E+07 2.971E+07 2.999E+07 3.066E+07 3.147E+07 3.225E+07 3.287E+07 3.310E+07 3.324E+07 3.339E+07 3.345E+07 3.353E+07
IN SOIL AIR 8.736E+06 8.583E+06 8.378E+06 7.831E+06 7.994E+06 8.379E+06 8.767E+06 9.081E+06 9.255E+06 9.314E+06 9.443E+06 9.632E+06

SUBLAYER 7

IN SOIL MOI 3.662E+06 4.033E+06 4.448E+06 5.370E+06 5.444E+06 5.283E+06 4.926E+06 4.607E+06 4.393E+06 4.239E+06 4.114E+06 3.975E+06
ADS ON SOIL 2.495E+07 2.492E+07 2.493E+07 2.497E+07 2.518E+07 2.542E+07 2.569E+07 2.582E+07 2.591E+07 2.602E+07 2.605E+07 2.609E+07
IN SOIL AIR 7.386E+06 7.200E+06 6.963E+06 6.375E+06 6.397E+06 6.604E+06 6.852E+06 7.082E+06 7.214E+06 7.258E+06 7.356E+06 7.493E+06

SUBLAYER 8

IN SOIL MOI 3.571E+06 3.925E+06 4.321E+06 5.190E+06 5.237E+06 5.061E+06 4.708E+06 4.400E+06 4.195E+06 4.047E+06 3.928E+06 3.793E+06
ADS ON SOIL 2.432E+07 2.426E+07 2.421E+07 2.413E+07 2.422E+07 2.435E+07 2.455E+07 2.465E+07 2.474E+07 2.484E+07 2.487E+07 2.490E+07
IN SOIL AIR 7.202E+06 7.008E+06 6.764E+06 6.162E+06 6.154E+06 6.326E+06 6.548E+06 6.763E+06 6.888E+06 6.930E+06 7.023E+06 7.151E+06

SUBLAYER 9

IN SOIL MOI 3.577E+06 3.931E+06 4.326E+06 5.192E+06 5.235E+06 5.056E+06 4.701E+06 4.393E+06 4.188E+06 4.041E+06 3.922E+06 3.787E+06
ADS ON SOIL 2.436E+07 2.429E+07 2.424E+07 2.414E+07 2.421E+07 2.432E+07 2.451E+07 2.462E+07 2.470E+07 2.480E+07 2.483E+07 2.485E+07
IN SOIL AIR 7.214E+06 7.018E+06 6.771E+06 6.164E+06 6.152E+06 6.320E+06 6.538E+06 6.753E+06 6.877E+06 6.919E+06 7.012E+06 7.140E+06

SUBLAYER 10

IN SOIL MOI 4.079E+06 4.481E+06 4.929E+06 5.906E+06 5.946E+06 5.735E+06 5.329E+06 4.978E+06 4.746E+06 4.579E+06 4.444E+06 4.291E+06
ADS ON SOIL 2.778E+07 2.769E+07 2.762E+07 2.746E+07 2.750E+07 2.759E+07 2.779E+07 2.790E+07 2.799E+07 2.811E+07 2.814E+07 2.816E+07
IN SOIL AIR 8.226E+06 8.000E+06 7.716E+06 7.012E+06 6.987E+06 7.169E+06 7.411E+06 7.653E+06 7.793E+06 7.841E+06 7.945E+06 8.090E+06
GWR. RUNOFF 0.000E+00 0.000E+00 3.241E+04 3.848E+05 4.115E+05 3.205E+05 1.690E+05 7.088E+04 2.609E+04 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10

SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 3.341E+00 3.315E+00 3.289E+00 3.242E+00 3.229E+00 3.222E+00 3.236E+00 3.247E+00 3.258E+00 3.272E+00 3.275E+00 3.275E+00
%SOLUBILITY 1.392E+00 1.381E+00 1.370E+00 1.351E+00 1.345E+00 1.343E+00 1.348E+00 1.353E+00 1.357E+00 1.363E+00 1.364E+00 1.365E+00
ADSORBED 1.131E+00 1.122E+00 1.113E+00 1.098E+00 1.093E+00 1.091E+00 1.095E+00 1.099E+00 1.103E+00 1.107E+00 1.109E+00 1.109E+00
SOIL AIR 2.423E+00 2.434E+00 2.439E+00 2.435E+00 2.420E+00 2.411E+00 2.376E+00 2.365E+00 2.353E+00 2.327E+00 2.328E+00 2.336E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.106E+00 2.102E+00 2.099E+00 2.091E+00 2.098E+00 2.107E+00 2.123E+00 2.132E+00 2.139E+00 2.148E+00 2.151E+00 2.153E+00
%SOLUBILITY 8.776E-01 8.757E-01 8.744E-01 8.713E-01 8.742E-01 8.780E-01 8.848E-01 8.884E-01 8.914E-01 8.952E-01 8.963E-01 8.969E-01
ADSORBED 7.130E-01 7.115E-01 7.104E-01 7.079E-01 7.102E-01 7.133E-01 7.188E-01 7.218E-01 7.242E-01 7.273E-01 7.282E-01 7.287E-01
SOIL AIR 1.527E+00 1.544E+00 1.556E+00 1.570E+00 1.573E+00 1.577E+00 1.559E+00 1.553E+00 1.545E+00 1.528E+00 1.529E+00 1.535E+00

SUBLAYER 2

MOISTURE 1.463E+00 1.473E+00 1.486E+00 1.508E+00 1.535E+00 1.560E+00 1.582E+00 1.590E+00 1.596E+00 1.603E+00 1.606E+00 1.609E+00
%SOLUBILITY 6.094E-01 6.137E-01 6.190E-01 6.284E-01 6.394E-01 6.498E-01 6.590E-01 6.627E-01 6.650E-01 6.680E-01 6.691E-01 6.703E-01
ADSORBED 4.951E-01 4.986E-01 5.029E-01 5.106E-01 5.195E-01 5.279E-01 5.354E-01 5.384E-01 5.403E-01 5.427E-01 5.436E-01 5.446E-01
SOIL AIR 1.061E+00 1.082E+00 1.102E+00 1.133E+00 1.150E+00 1.167E+00 1.161E+00 1.158E+00 1.153E+00 1.140E+00 1.141E+00 1.147E+00

SUBLAYER 3

MOISTURE 7.362E-01 7.489E-01 7.637E-01 7.923E-01 8.196E-01 8.445E-01 8.630E-01 8.693E-01 8.728E-01 8.768E-01 8.786E-01 8.814E-01
%SOLUBILITY 3.068E-01 3.120E-01 3.182E-01 3.301E-01 3.415E-01 3.519E-01 3.596E-01 3.622E-01 3.637E-01 3.653E-01 3.661E-01 3.673E-01
ADSORBED 2.492E-01 2.535E-01 2.585E-01 2.682E-01 2.774E-01 2.859E-01 2.922E-01 2.943E-01 2.955E-01 2.968E-01 2.974E-01 2.984E-01
SOIL AIR 5.339E-01 5.500E-01 5.663E-01 5.950E-01 6.144E-01 6.320E-01 6.335E-01 6.331E-01 6.304E-01 6.237E-01 6.245E-01 6.286E-01

SUBLAYER 4

MOISTURE 2.924E-01 2.995E-01 3.079E-01 3.250E-01 3.410E-01 3.556E-01 3.658E-01 3.691E-01 3.707E-01 3.725E-01 3.733E-01 3.749E-01
%SOLUBILITY 1.218E-01 1.248E-01 1.283E-01 1.354E-01 1.421E-01 1.482E-01 1.524E-01 1.538E-01 1.545E-01 1.552E-01 1.556E-01 1.562E-01
ADSORBED 9.898E-02 1.014E-01 1.042E-01 1.100E-01 1.154E-01 1.204E-01 1.238E-01 1.249E-01 1.255E-01 1.261E-01 1.264E-01 1.269E-01
SOIL AIR 2.120E-01 2.200E-01 2.283E-01 2.441E-01 2.556E-01 2.661E-01 2.685E-01 2.688E-01 2.677E-01 2.649E-01 2.654E-01 2.674E-01

SUBLAYER 5

MOISTURE 1.150E-01 1.175E-01 1.204E-01 1.267E-01 1.329E-01 1.387E-01 1.428E-01 1.441E-01 1.447E-01 1.454E-01 1.458E-01 1.464E-01
%SOLUBILITY 4.794E-02 4.894E-02 5.016E-02 5.281E-02 5.540E-02 5.780E-02 5.949E-02 6.003E-02 6.031E-02 6.059E-02 6.073E-02 6.099E-02
ADSORBED 3.895E-02 3.976E-02 4.075E-02 4.291E-02 4.501E-02 4.696E-02 4.833E-02 4.877E-02 4.900E-02 4.923E-02 4.934E-02 4.955E-02
SOIL AIR 8.343E-02 8.627E-02 8.928E-02 9.519E-02 9.966E-02 1.038E-01 1.048E-01 1.049E-01 1.045E-01 1.034E-01 1.036E-01 1.044E-01

SUBLAYER 6

MOISTURE 6.528E-02 6.574E-02 6.637E-02 6.785E-02 6.962E-02 7.135E-02 7.273E-02 7.324E-02 7.354E-02 7.387E-02 7.401E-02 7.420E-02
%SOLUBILITY 2.720E-02 2.739E-02 2.765E-02 2.827E-02 2.901E-02 2.973E-02 3.030E-02 3.052E-02 3.064E-02 3.078E-02 3.084E-02 3.092E-02
ADSORBED 2.210E-02 2.225E-02 2.247E-02 2.297E-02 2.357E-02 2.415E-02 2.462E-02 2.479E-02 2.489E-02 2.501E-02 2.505E-02 2.512E-02
SOIL AIR 4.734E-02 4.828E-02 4.922E-02 5.096E-02 5.219E-02 5.339E-02 5.339E-02 5.334E-02 5.311E-02 5.254E-02 5.260E-02 5.292E-02

SUBLAYER 7

MOISTURE 5.520E-02 5.515E-02 5.516E-02 5.524E-02 5.571E-02 5.624E-02 5.684E-02 5.712E-02 5.732E-02 5.757E-02 5.765E-02 5.772E-02
%SOLUBILITY 2.300E-02 2.298E-02 2.298E-02 2.302E-02 2.321E-02 2.343E-02 2.368E-02 2.380E-02 2.388E-02 2.399E-02 2.402E-02 2.405E-02
ADSORBED 1.869E-02 1.867E-02 1.867E-02 1.870E-02 1.886E-02 1.904E-02 1.924E-02 1.934E-02 1.940E-02 1.949E-02 1.952E-02 1.954E-02
SOIL AIR 4.003E-02 4.050E-02 4.090E-02 4.149E-02 4.177E-02 4.208E-02 4.173E-02 4.160E-02 4.140E-02 4.095E-02 4.098E-02 4.117E-02

SUBLAYER 8

MOISTURE 5.382E-02 5.368E-02 5.358E-02 5.339E-02 5.360E-02 5.387E-02 5.432E-02 5.455E-02 5.473E-02 5.497E-02 5.504E-02 5.509E-02
%SOLUBILITY 2.243E-02 2.237E-02 2.233E-02 2.225E-02 2.233E-02 2.245E-02 2.263E-02 2.273E-02 2.281E-02 2.290E-02 2.293E-02 2.295E-02
ADSORBED 1.822E-02 1.817E-02 1.814E-02 1.807E-02 1.814E-02 1.824E-02 1.839E-02 1.847E-02 1.853E-02 1.861E-02 1.863E-02 1.865E-02
SOIL AIR 3.903E-02 3.943E-02 3.973E-02 4.010E-02 4.018E-02 4.031E-02 3.987E-02 3.973E-02 3.953E-02 3.910E-02 3.912E-02 3.929E-02

SUBLAYER 9

MOISTURE 5.391E-02 5.375E-02 5.364E-02 5.341E-02 5.358E-02 5.382E-02 5.424E-02 5.447E-02 5.465E-02 5.488E-02 5.495E-02 5.500E-02
%SOLUBILITY 2.246E-02 2.240E-02 2.235E-02 2.225E-02 2.232E-02 2.242E-02 2.260E-02 2.270E-02 2.277E-02 2.287E-02 2.290E-02 2.292E-02
ADSORBED 1.825E-02 1.820E-02 1.816E-02 1.808E-02 1.814E-02 1.822E-02 1.836E-02 1.844E-02 1.850E-02 1.858E-02 1.860E-02 1.862E-02
SOIL AIR 3.909E-02 3.948E-02 3.978E-02 4.011E-02 4.016E-02 4.027E-02 3.982E-02 3.967E-02 3.947E-02 3.904E-02 3.906E-02 3.922E-02

SUBLAYER 10

MOISTURE 6.147E-02 6.128E-02 6.112E-02 6.075E-02 6.085E-02 6.105E-02 6.148E-02 6.173E-02 6.193E-02 6.219E-02 6.227E-02 6.232E-02
%SOLUBILITY 2.561E-02 2.553E-02 2.547E-02 2.531E-02 2.535E-02 2.544E-02 2.562E-02 2.572E-02 2.580E-02 2.591E-02 2.594E-02 2.596E-02
ADSORBED 2.081E-02 2.074E-02 2.069E-02 2.057E-02 2.060E-02 2.067E-02 2.081E-02 2.090E-02 2.096E-02 2.105E-02 2.108E-02 2.110E-02
SOIL AIR 4.458E-02 4.501E-02 4.533E-02 4.563E-02 4.562E-02 4.568E-02 4.513E-02 4.496E-02 4.472E-02 4.423E-02 4.426E-02 4.444E-02

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 1.265E-05 1.499E-04 1.602E-04 1.248E-04 6.586E-05 2.763E-05 1.017E-05 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 10 ANNUAL SUMMARY REPORT
==========

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.415E+06

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.267E+00
ADSORBED SOIL (UG/G) 1.106E+00
SOIL AIR (UG/ML) 2.387E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.121E+00

ADSORBED SOIL (UG/G) 7.179E-01
SOIL AIR (UG/ML) 1.550E+00

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.551E+00
ADSORBED SOIL (UG/G) 5.250E-01
SOIL AIR (UG/ML) 1.133E+00

SUBLAYER 3

SOIL MOISTURE (UG/ML) 8.289E-01
ADSORBED SOIL (UG/G) 2.806E-01
SOIL AIR (UG/ML) 6.055E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 3.456E-01
ADSORBED SOIL (UG/G) 1.170E-01
SOIL AIR (UG/ML) 2.524E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 1.350E-01
ADSORBED SOIL (UG/G) 4.571E-02
SOIL AIR (UG/ML) 9.861E-02

SUBLAYER 6

SOIL MOISTURE (UG/ML) 7.065E-02
ADSORBED SOIL (UG/G) 2.392E-02
SOIL AIR (UG/ML) 5.161E-02

SUBLAYER 7

SOIL MOISTURE (UG/ML) 5.641E-02
ADSORBED SOIL (UG/G) 1.910E-02
SOIL AIR (UG/ML) 4.122E-02

SUBLAYER 8

SOIL MOISTURE (UG/ML) 5.422E-02
ADSORBED SOIL (UG/G) 1.835E-02
SOIL AIR (UG/ML) 3.962E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 5.419E-02
ADSORBED SOIL (UG/G) 1.834E-02
SOIL AIR (UG/ML) 3.960E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 6.154E-02
ADSORBED SOIL (UG/G) 2.083E-02
SOIL AIR (UG/ML) 4.497E-02

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 4.594E-05
1

YEAR - 20 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	1.092E+09	1.193E+09	1.306E+09	1.552E+09	1.553E+09	1.490E+09	1.381E+09	1.289E+09	1.229E+09	1.186E+09	1.151E+09	1.110E+09
ADS ON SOIL	7.435E+09	7.375E+09	7.317E+09	7.214E+09	7.184E+09	7.170E+09	7.200E+09	7.226E+09	7.249E+09	7.279E+09	7.286E+09	7.287E+09
IN SOIL AIR	2.201E+09	2.131E+09	2.044E+09	1.842E+09	1.825E+09	1.863E+09	1.921E+09	1.982E+09	2.018E+09	2.031E+09	2.057E+09	2.093E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	1.360E+08	1.489E+08	1.631E+08	1.941E+08	1.945E+08	1.867E+08	1.731E+08	1.616E+08	1.541E+08	1.486E+08	1.442E+08	1.392E+08
ADS ON SOIL	9.265E+08	9.201E+08	9.141E+08	9.025E+08	8.995E+08	8.984E+08	9.026E+08	9.057E+08	9.086E+08	9.124E+08	9.134E+08	9.135E+08
IN SOIL AIR	2.743E+08	2.658E+08	2.553E+08	2.305E+08	2.285E+08	2.334E+08	2.407E+08	2.485E+08	2.530E+08	2.545E+08	2.579E+08	2.624E+08

SUBLAYER 2

N SOIL MOI 1.458E+08 1.600E+08 1.758E+08 2.102E+08 2.113E+08 2.036E+08 1.890E+08 1.765E+08 1.683E+08 1.624E+08 1.576E+08 1.521E+08
ADS ON SOIL 9.934E+08 9.890E+08 9.851E+08 9.773E+08 9.775E+08 9.793E+08 9.855E+08 9.893E+08 9.925E+08 9.967E+08 9.979E+08 9.984E+08
IN SOIL AIR 2.941E+08 2.857E+08 2.752E+08 2.496E+08 2.484E+08 2.545E+08 2.629E+08 2.714E+08 2.764E+08 2.781E+08 2.817E+08 2.868E+08

SUBLAYER 3

IN SOIL MOI 1.305E+08 1.437E+08 1.586E+08 1.912E+08 1.934E+08 1.873E+08 1.744E+08 1.630E+08 1.554E+08 1.500E+08 1.456E+08 1.406E+08
ADS ON SOIL 8.888E+08 8.884E+08 8.887E+08 8.890E+08 8.947E+08 9.011E+08 9.095E+08 9.136E+08 9.167E+08 9.206E+08 9.218E+08 9.228E+08
IN SOIL AIR 2.632E+08 2.566E+08 2.482E+08 2.270E+08 2.273E+08 2.342E+08 2.426E+08 2.506E+08 2.553E+08 2.568E+08 2.603E+08 2.651E+08

SUBLAYER 4

IN SOIL MOI 9.346E+07 1.034E+08 1.147E+08 1.397E+08 1.425E+08 1.390E+08 1.299E+08 1.215E+08 1.159E+08 1.118E+08 1.086E+08 1.049E+08
ADS ON SOIL 6.366E+08 6.392E+08 6.428E+08 6.497E+08 6.593E+08 6.685E+08 6.773E+08 6.809E+08 6.834E+08 6.864E+08 6.874E+08 6.886E+08
IN SOIL AIR 1.885E+08 1.847E+08 1.796E+08 1.659E+08 1.675E+08 1.737E+08 1.806E+08 1.868E+08 1.903E+08 1.915E+08 1.941E+08 1.978E+08

SUBLAYER 5

IN SOIL MOI 5.318E+07 5.912E+07 6.590E+07 8.119E+07 8.354E+07 8.207E+07 7.702E+07 7.213E+07 6.880E+07 6.640E+07 6.447E+07 6.235E+07
ADS ON SOIL 3.622E+08 3.654E+08 3.693E+08 3.774E+08 3.864E+08 3.948E+08 4.016E+08 4.042E+08 4.057E+08 4.076E+08 4.082E+08 4.092E+08
IN SOIL AIR 1.073E+08 1.055E+08 1.032E+08 9.639E+07 9.818E+07 1.026E+08 1.071E+08 1.109E+08 1.130E+08 1.137E+08 1.153E+08 1.175E+08

SUBLAYER 6

IN SOIL MOI 2.483E+07 2.768E+07 3.097E+07 3.849E+07 3.992E+07 3.946E+07 3.717E+07 3.484E+07 3.324E+07 3.208E+07 3.115E+07 3.014E+07
ADS ON SOIL 1.691E+08 1.711E+08 1.735E+08 1.790E+08 1.846E+08 1.898E+08 1.938E+08 1.952E+08 1.960E+08 1.969E+08 1.973E+08 1.978E+08
IN SOIL AIR 5.007E+07 4.942E+07 4.847E+07 4.570E+07 4.691E+07 4.933E+07 5.169E+07 5.356E+07 5.459E+07 5.494E+07 5.570E+07 5.683E+07

SUBLAYER 7

IN SOIL MOI 1.081E+07 1.203E+07 1.345E+07 1.672E+07 1.736E+07 1.718E+07 1.619E+07 1.518E+07 1.448E+07 1.398E+07 1.357E+07 1.313E+07
ADS ON SOIL 7.361E+07 7.437E+07 7.536E+07 7.772E+07 8.027E+07 8.263E+07 8.440E+07 8.505E+07 8.542E+07 8.581E+07 8.596E+07 8.619E+07
IN SOIL AIR 2.180E+07 2.148E+07 2.105E+07 1.985E+07 2.040E+07 2.147E+07 2.251E+07 2.333E+07 2.379E+07 2.394E+07 2.427E+07 2.476E+07

SUBLAYER 8

IN SOIL MOI 5.815E+06 6.432E+06 7.136E+06 8.740E+06 8.972E+06 8.797E+06 8.249E+06 7.727E+06 7.371E+06 7.113E+06 6.906E+06 6.676E+06
ADS ON SOIL 3.961E+07 3.975E+07 3.999E+07 4.063E+07 4.150E+07 4.232E+07 4.301E+07 4.330E+07 4.347E+07 4.366E+07 4.373E+07 4.381E+07
IN SOIL AIR 1.173E+07 1.148E+07 1.117E+07 1.038E+07 1.054E+07 1.100E+07 1.147E+07 1.188E+07 1.210E+07 1.218E+07 1.235E+07 1.259E+07

SUBLAYER 9

IN SOIL MOI 4.542E+06 4.999E+06 5.512E+06 6.651E+06 6.742E+06 6.541E+06 6.098E+06 5.702E+06 5.438E+06 5.247E+06 5.093E+06 4.919E+06
ADS ON SOIL 3.094E+07 3.089E+07 3.088E+07 3.092E+07 3.119E+07 3.147E+07 3.179E+07 3.195E+07 3.207E+07 3.221E+07 3.225E+07 3.228E+07
IN SOIL AIR 9.161E+06 8.925E+06 8.627E+06 7.897E+06 7.923E+06 8.176E+06 8.480E+06 8.766E+06 8.929E+06 8.984E+06 9.105E+06 9.273E+06

SUBLAYER 10

IN SOIL MOI 4.672E+06 5.134E+06 5.649E+06 6.778E+06 6.833E+06 6.599E+06 6.135E+06 5.733E+06 5.466E+06 5.273E+06 5.118E+06 4.942E+06
ADS ON SOIL 3.182E+07 3.173E+07 3.166E+07 3.151E+07 3.161E+07 3.174E+07 3.199E+07 3.212E+07 3.223E+07 3.237E+07 3.241E+07 3.244E+07
IN SOIL AIR 9.422E+06 9.165E+06 8.843E+06 8.047E+06 8.030E+06 8.248E+06 8.533E+06 8.813E+06 8.975E+06 9.030E+06 9.151E+06 9.317E+06
GWR. RUNOFF 0.000E+00 0.000E+00 3.714E+04 4.414E+05 4.726E+05 3.685E+05 1.945E+05 8.161E+04 3.005E+04 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
OIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 2.659E+00 2.637E+00 2.617E+00 2.580E+00 2.569E+00 2.564E+00 2.575E+00 2.584E+00 2.592E+00 2.603E+00 2.606E+00 2.606E+00
%SOLUBILITY 1.108E+00 1.099E+00 1.090E+00 1.075E+00 1.070E+00 1.068E+00 1.073E+00 1.077E+00 1.080E+00 1.085E+00 1.086E+00 1.086E+00
ADSORBED 9.000E-01 8.928E-01 8.858E-01 8.733E-01 8.697E-01 8.680E-01 8.717E-01 8.747E-01 8.775E-01 8.812E-01 8.821E-01 8.821E-01
SOIL AIR 1.928E+00 1.937E+00 1.941E+00 1.937E+00 1.926E+00 1.919E+00 1.890E+00 1.882E+00 1.872E+00 1.851E+00 1.852E+00 1.859E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.050E+00 2.036E+00 2.023E+00 1.997E+00 1.990E+00 1.988E+00 1.997E+00 2.004E+00 2.010E+00 2.019E+00 2.021E+00 2.021E+00
%SOLUBILITY 8.542E-01 8.483E-01 8.427E-01 8.320E-01 8.293E-01 8.283E-01 8.321E-01 8.350E-01 8.377E-01 8.412E-01 8.421E-01 8.422E-01
ADSORBED 6.940E-01 6.892E-01 6.847E-01 6.760E-01 6.737E-01 6.729E-01 6.761E-01 6.784E-01 6.806E-01 6.835E-01 6.841E-01 6.843E-01
SOIL AIR 1.487E+00 1.495E+00 1.500E+00 1.500E+00 1.492E+00 1.487E+00 1.466E+00 1.460E+00 1.452E+00 1.436E+00 1.437E+00 1.442E+00

SUBLAYER 2

MOISTURE 2.198E+00 2.188E+00 2.180E+00 2.162E+00 2.163E+00 2.167E+00 2.181E+00 2.189E+00 2.196E+00 2.205E+00 2.208E+00 2.209E+00
%SOLUBILITY 9.158E-01 9.118E-01 9.082E-01 9.010E-01 9.012E-01 9.029E-01 9.086E-01 9.121E-01 9.150E-01 9.189E-01 9.200E-01 9.205E-01
ADSORBED 7.441E-01 7.408E-01 7.379E-01 7.320E-01 7.322E-01 7.335E-01 7.382E-01 7.410E-01 7.434E-01 7.466E-01 7.474E-01 7.478E-01
SOIL AIR 1.594E+00 1.607E+00 1.616E+00 1.624E+00 1.621E+00 1.621E+00 1.601E+00 1.594E+00 1.586E+00 1.569E+00 1.569E+00 1.576E+00

SUBLAYER 3

MOISTURE 1.967E+00 1.966E+00 1.966E+00 1.967E+00 1.980E+00 1.994E+00 2.012E+00 2.021E+00 2.028E+00 2.037E+00 2.040E+00 2.042E+00
%SOLUBILITY 8.194E-01 8.190E-01 8.193E-01 8.196E-01 8.249E-01 8.308E-01 8.385E-01 8.423E-01 8.451E-01 8.488E-01 8.499E-01 8.508E-01
ADSORBED 6.658E-01 6.654E-01 6.657E-01 6.659E-01 6.702E-01 6.750E-01 6.813E-01 6.843E-01 6.866E-01 6.896E-01 6.905E-01 6.912E-01
SOIL AIR 1.426E+00 1.444E+00 1.458E+00 1.477E+00 1.484E+00 1.492E+00 1.477E+00 1.472E+00 1.465E+00 1.449E+00 1.450E+00 1.456E+00

SUBLAYER 4

MOISTURE 1.409E+00 1.414E+00 1.422E+00 1.438E+00 1.459E+00 1.479E+00 1.499E+00 1.507E+00 1.512E+00 1.519E+00 1.521E+00 1.524E+00
%SOLUBILITY 5.869E-01 5.893E-01 5.926E-01 5.990E-01 6.078E-01 6.164E-01 6.244E-01 6.278E-01 6.300E-01 6.328E-01 6.338E-01 6.348E-01
ADSORBED 4.768E-01 4.788E-01 4.815E-01 4.867E-01 4.938E-01 5.008E-01 5.073E-01 5.100E-01 5.119E-01 5.141E-01 5.149E-01 5.158E-01
SOIL AIR 1.021E+00 1.039E+00 1.055E+00 1.080E+00 1.094E+00 1.107E+00 1.100E+00 1.097E+00 1.092E+00 1.080E+00 1.081E+00 1.087E+00

SUBLAYER 5

MOISTURE 8.015E-01 8.085E-01 8.172E-01 8.352E-01 8.550E-01 8.736E-01 8.886E-01 8.943E-01 8.978E-01 9.018E-01 9.033E-01 9.054E-01
%SOLUBILITY 3.340E-01 3.369E-01 3.405E-01 3.480E-01 3.563E-01 3.640E-01 3.703E-01 3.726E-01 3.741E-01 3.757E-01 3.764E-01 3.773E-01
ADSORBED 2.713E-01 2.737E-01 2.766E-01 2.827E-01 2.894E-01 2.957E-01 3.008E-01 3.027E-01 3.039E-01 3.053E-01 3.058E-01 3.065E-01
SOIL AIR 5.812E-01 5.938E-01 6.060E-01 6.272E-01 6.410E-01 6.537E-01 6.523E-01 6.513E-01 6.484E-01 6.414E-01 6.421E-01 6.458E-01

SUBLAYER 6

MOISTURE 3.742E-01 3.785E-01 3.840E-01 3.960E-01 4.085E-01 4.201E-01 4.288E-01 4.320E-01 4.338E-01 4.357E-01 4.365E-01 4.378E-01
%SOLUBILITY 1.559E-01 1.577E-01 1.600E-01 1.650E-01 1.702E-01 1.750E-01 1.787E-01 1.800E-01 1.807E-01 1.816E-01 1.819E-01 1.824E-01
ADSORBED 1.267E-01 1.281E-01 1.300E-01 1.340E-01 1.383E-01 1.422E-01 1.452E-01 1.462E-01 1.468E-01 1.475E-01 1.478E-01 1.482E-01
SOIL AIR 2.713E-01 2.780E-01 2.848E-01 2.974E-01 3.062E-01 3.143E-01 3.148E-01 3.146E-01 3.133E-01 3.099E-01 3.103E-01 3.122E-01

SUBLAYER 7

MOISTURE 1.629E-01 1.646E-01 1.667E-01 1.720E-01 1.776E-01 1.828E-01 1.868E-01 1.882E-01 1.890E-01 1.899E-01 1.902E-01 1.907E-01
%SOLUBILITY 6.786E-02 6.857E-02 6.948E-02 7.166E-02 7.401E-02 7.618E-02 7.782E-02 7.842E-02 7.875E-02 7.911E-02 7.925E-02 7.947E-02
ADSORBED 5.514E-02 5.571E-02 5.645E-02 5.822E-02 6.013E-02 6.189E-02 6.322E-02 6.371E-02 6.398E-02 6.427E-02 6.439E-02 6.456E-02
SOIL AIR 1.181E-01 1.209E-01 1.237E-01 1.292E-01 1.332E-01 1.368E-01 1.371E-01 1.371E-01 1.365E-01 1.350E-01 1.352E-01 1.360E-01

SUBLAYER 8

MOISTURE 8.764E-02 8.797E-02 8.848E-02 8.991E-02 9.182E-02 9.364E-02 9.518E-02 9.580E-02 9.619E-02 9.661E-02 9.677E-02 9.695E-02
%SOLUBILITY 3.652E-02 3.665E-02 3.686E-02 3.746E-02 3.826E-02 3.902E-02 3.966E-02 3.992E-02 4.008E-02 4.026E-02 4.032E-02 4.039E-02
ADSORBED 2.967E-02 2.978E-02 2.995E-02 3.044E-02 3.108E-02 3.170E-02 3.222E-02 3.243E-02 3.256E-02 3.271E-02 3.276E-02 3.282E-02
SOIL AIR 6.355E-02 6.461E-02 6.561E-02 6.752E-02 6.883E-02 7.007E-02 6.987E-02 6.978E-02 6.947E-02 6.872E-02 6.878E-02 6.914E-02

SUBLAYER 9

MOISTURE 6.846E-02 6.836E-02 6.834E-02 6.843E-02 6.900E-02 6.963E-02 7.035E-02 7.070E-02 7.095E-02 7.126E-02 7.136E-02 7.143E-02
%SOLUBILITY 2.852E-02 2.848E-02 2.847E-02 2.851E-02 2.875E-02 2.901E-02 2.931E-02 2.946E-02 2.956E-02 2.969E-02 2.973E-02 2.976E-02
ADSORBED 2.317E-02 2.314E-02 2.313E-02 2.316E-02 2.336E-02 2.357E-02 2.382E-02 2.393E-02 2.402E-02 2.412E-02 2.416E-02 2.418E-02
SOIL AIR 4.964E-02 5.021E-02 5.068E-02 5.139E-02 5.173E-02 5.210E-02 5.164E-02 5.149E-02 5.125E-02 5.069E-02 5.072E-02 5.095E-02

SUBLAYER 10

MOISTURE 7.041E-02 7.020E-02 7.005E-02 6.973E-02 6.993E-02 7.024E-02 7.079E-02 7.108E-02 7.132E-02 7.163E-02 7.171E-02 7.177E-02
%SOLUBILITY 2.934E-02 2.925E-02 2.919E-02 2.905E-02 2.914E-02 2.927E-02 2.949E-02 2.962E-02 2.972E-02 2.984E-02 2.988E-02 2.990E-02
ADSORBED 2.383E-02 2.377E-02 2.371E-02 2.360E-02 2.367E-02 2.378E-02 2.396E-02 2.406E-02 2.414E-02 2.425E-02 2.428E-02 2.430E-02
SOIL AIR 5.106E-02 5.156E-02 5.195E-02 5.236E-02 5.243E-02 5.256E-02 5.196E-02 5.177E-02 5.151E-02 5.094E-02 5.098E-02 5.119E-02

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 1.450E-05 1.721E-04 1.841E-04 1.436E-04 7.583E-05 3.182E-05 1.172E-05 0.000E+00 0.000E+00 0.000E+00

1 YEAR - 20 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.626E+06

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.599E+00
ADSORBED SOIL (UG/G) 8.799E-01
SOIL AIR (UG/ML) 1.900E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.013E+00
ADSORBED SOIL (UG/G) 6.814E-01
SOIL AIR (UG/ML) 1.471E+00

SUBLAYER 2

SOIL MOISTURE (UG/ML) 2.187E+00
ADSORBED SOIL (UG/G) 7.404E-01
SOIL AIR (UG/ML) 1.598E+00

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.002E+00
ADSORBED SOIL (UG/G) 6.776E-01
SOIL AIR (UG/ML) 1.463E+00

SUBLAYER 4

SOIL MOISTURE (UG/ML) 1.475E+00
ADSORBED SOIL (UG/G) 4.994E-01
SOIL AIR (UG/ML) 1.078E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 8.652E-01
ADSORBED SOIL (UG/G) 2.929E-01
SOIL AIR (UG/ML) 6.320E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.138E-01
ADSORBED SOIL (UG/G) 1.401E-01
SOIL AIR (UG/ML) 3.023E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.801E-01
ADSORBED SOIL (UG/G) 6.097E-02
SOIL AIR (UG/ML) 1.316E-01

SUBLAYER 8

SOIL MOISTURE (UG/ML) 9.308E-02
ADSORBED SOIL (UG/G) 3.151E-02
SOIL AIR (UG/ML) 6.800E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 6.986E-02
ADSORBED SOIL (UG/G) 2.365E-02
SOIL AIR (UG/ML) 5.104E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 7.074E-02
ADSORBED SOIL (UG/G) 2.395E-02
SOIL AIR (UG/ML) 5.169E-02

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 5.281E-05
1

YEAR - 30 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
IN SOIL MOI	8.684E+08	9.494E+08	1.039E+09	1.234E+09	1.236E+09	1.186E+09	1.099E+09	1.026E+09	9.779E+08	9.434E+08	9.154E+08	8.833E+08
ADS ON SOIL	5.915E+09	5.868E+09	5.822E+09	5.739E+09	5.716E+09	5.704E+09	5.729E+09	5.749E+09	5.767E+09	5.791E+09	5.797E+09	5.797E+09
IN SOIL AIR	1.751E+09	1.695E+09	1.626E+09	1.466E+09	1.452E+09	1.482E+09	1.528E+09	1.577E+09	1.606E+09	1.616E+09	1.637E+09	1.665E+09

LOWER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
IN SOIL MOI	1.116E+08	1.221E+08	1.337E+08	1.589E+08	1.590E+08	1.526E+08	1.413E+08	1.320E+08	1.258E+08	1.214E+08	1.178E+08	1.136E+08
ADS ON SOIL	7.602E+08	7.545E+08	7.490E+08	7.385E+08	7.354E+08	7.339E+08	7.370E+08	7.396E+08	7.419E+08	7.450E+08	7.457E+08	7.458E+08
IN SOIL AIR	2.251E+08	2.179E+08	2.092E+08	1.886E+08	1.868E+08	1.907E+08	1.966E+08	2.029E+08	2.066E+08	2.078E+08	2.106E+08	2.142E+08

SUBLAYER 2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
IN SOIL MOI	1.347E+08	1.474E+08	1.615E+08	1.922E+08	1.926E+08	1.849E+08	1.714E+08	1.601E+08	1.526E+08	1.472E+08	1.428E+08	1.378E+08

ADS ON SOIL 9.173E+08 9.112E+08 9.052E+08 8.938E+08 8.907E+08 8.897E+08 8.938E+08 8.969E+08 8.998E+08 9.036E+08 9.045E+08 9.047E+08
I SOIL AIR 2.716E+08 2.632E+08 2.529E+08 2.282E+08 2.263E+08 2.312E+08 2.384E+08 2.461E+08 2.505E+08 2.521E+08 2.554E+08 2.599E+08

SUBLAYER 3

IN SOIL MOI 1.515E+08 1.661E+08 1.823E+08 2.177E+08 2.186E+08 2.104E+08 1.952E+08 1.823E+08 1.738E+08 1.677E+08 1.627E+08 1.571E+08
ADS ON SOIL 1.032E+09 1.026E+09 1.022E+09 1.012E+09 1.011E+09 1.012E+09 1.018E+09 1.022E+09 1.025E+09 1.029E+09 1.031E+09 1.031E+09
IN SOIL AIR 3.055E+08 2.965E+08 2.854E+08 2.584E+08 2.569E+08 2.630E+08 2.715E+08 2.803E+08 2.854E+08 2.872E+08 2.910E+08 2.962E+08

SUBLAYER 4

IN SOIL MOI 1.491E+08 1.639E+08 1.804E+08 2.166E+08 2.184E+08 2.110E+08 1.961E+08 1.833E+08 1.747E+08 1.686E+08 1.636E+08 1.580E+08
ADS ON SOIL 1.016E+09 1.013E+09 1.011E+09 1.007E+09 1.010E+09 1.015E+09 1.023E+09 1.027E+09 1.030E+09 1.035E+09 1.036E+09 1.037E+09
IN SOIL AIR 3.007E+08 2.926E+08 2.824E+08 2.572E+08 2.567E+08 2.637E+08 2.728E+08 2.817E+08 2.869E+08 2.887E+08 2.925E+08 2.979E+08

SUBLAYER 5

IN SOIL MOI 1.224E+08 1.349E+08 1.491E+08 1.802E+08 1.827E+08 1.773E+08 1.653E+08 1.545E+08 1.474E+08 1.422E+08 1.380E+08 1.333E+08
ADS ON SOIL 8.336E+08 8.340E+08 8.353E+08 8.378E+08 8.453E+08 8.530E+08 8.619E+08 8.660E+08 8.690E+08 8.728E+08 8.740E+08 8.750E+08
IN SOIL AIR 2.468E+08 2.409E+08 2.333E+08 2.139E+08 2.148E+08 2.216E+08 2.299E+08 2.376E+08 2.420E+08 2.435E+08 2.468E+08 2.513E+08

SUBLAYER 6

IN SOIL MOI 8.144E+07 9.007E+07 9.984E+07 1.217E+08 1.242E+08 1.211E+08 1.133E+08 1.060E+08 1.011E+08 9.752E+07 9.467E+07 9.150E+07
ADS ON SOIL 5.547E+08 5.567E+08 5.595E+08 5.656E+08 5.744E+08 5.828E+08 5.906E+08 5.938E+08 5.960E+08 5.986E+08 5.995E+08 6.005E+08
IN SOIL AIR 1.643E+08 1.608E+08 1.563E+08 1.444E+08 1.459E+08 1.514E+08 1.575E+08 1.629E+08 1.660E+08 1.670E+08 1.693E+08 1.725E+08

SUBLAYER 7

IN SOIL MOI 4.374E+07 4.849E+07 5.390E+07 6.618E+07 6.799E+07 6.669E+07 6.253E+07 5.856E+07 5.586E+07 5.391E+07 5.234E+07 5.060E+07
ADS ON SOIL 2.979E+08 2.997E+08 3.021E+08 3.077E+08 3.145E+08 3.208E+08 3.261E+08 3.282E+08 3.294E+08 3.309E+08 3.314E+08 3.321E+08
IN SOIL AIR 8.821E+07 8.657E+07 8.438E+07 7.858E+07 7.990E+07 8.336E+07 8.697E+07 9.002E+07 9.174E+07 9.231E+07 9.358E+07 9.540E+07

SUBLAYER 8

SOIL MOI 1.987E+07 2.204E+07 2.452E+07 3.024E+07 3.119E+07 3.070E+07 2.884E+07 2.703E+07 2.579E+07 2.489E+07 2.417E+07 2.336E+07
ADS ON SOIL 1.354E+08 1.362E+08 1.374E+08 1.406E+08 1.443E+08 1.477E+08 1.504E+08 1.515E+08 1.521E+08 1.528E+08 1.530E+08 1.533E+08
IN SOIL AIR 4.008E+07 3.935E+07 3.839E+07 3.590E+07 3.666E+07 3.838E+07 4.012E+07 4.155E+07 4.235E+07 4.262E+07 4.321E+07 4.405E+07

SUBLAYER 9

IN SOIL MOI 9.225E+06 1.020E+07 1.131E+07 1.386E+07 1.425E+07 1.398E+07 1.312E+07 1.229E+07 1.173E+07 1.131E+07 1.098E+07 1.062E+07
ADS ON SOIL 6.283E+07 6.302E+07 6.335E+07 6.445E+07 6.591E+07 6.727E+07 6.839E+07 6.886E+07 6.915E+07 6.945E+07 6.955E+07 6.967E+07
IN SOIL AIR 1.860E+07 1.821E+07 1.770E+07 1.646E+07 1.675E+07 1.748E+07 1.824E+07 1.889E+07 1.925E+07 1.937E+07 1.964E+07 2.001E+07

SUBLAYER 10

IN SOIL MOI 6.167E+06 6.786E+06 7.482E+06 9.045E+06 9.186E+06 8.925E+06 8.326E+06 7.788E+06 7.428E+06 7.167E+06 6.957E+06 6.719E+06
ADS ON SOIL 4.201E+07 4.194E+07 4.193E+07 4.205E+07 4.249E+07 4.293E+07 4.341E+07 4.364E+07 4.381E+07 4.400E+07 4.405E+07 4.410E+07
IN SOIL AIR 1.244E+07 1.212E+07 1.171E+07 1.074E+07 1.079E+07 1.116E+07 1.158E+07 1.197E+07 1.220E+07 1.227E+07 1.244E+07 1.267E+07
GWR. RUNOFF 0.000E+00 0.000E+00 4.914E+04 5.868E+05 6.331E+05 4.970E+05 2.635E+05 1.108E+05 4.083E+04 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 2.115E+00 2.098E+00 2.082E+00 2.052E+00 2.044E+00 2.040E+00 2.049E+00 2.056E+00 2.062E+00 2.071E+00 2.073E+00 2.073E+00
%SOLUBILITY 8.814E-01 8.743E-01 8.675E-01 8.552E-01 8.516E-01 8.500E-01 8.536E-01 8.565E-01 8.593E-01 8.629E-01 8.638E-01 8.638E-01
ADSORBED 7.161E-01 7.103E-01 7.048E-01 6.948E-01 6.919E-01 6.906E-01 6.935E-01 6.959E-01 6.981E-01 7.011E-01 7.018E-01 7.018E-01
SOIL AIR 1.534E+00 1.541E+00 1.544E+00 1.541E+00 1.532E+00 1.526E+00 1.504E+00 1.497E+00 1.489E+00 1.473E+00 1.474E+00 1.479E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.682E+00 1.669E+00 1.657E+00 1.634E+00 1.627E+00 1.624E+00 1.631E+00 1.636E+00 1.642E+00 1.648E+00 1.650E+00 1.650E+00
%SOLUBILITY 7.008E-01 6.956E-01 6.905E-01 6.809E-01 6.780E-01 6.766E-01 6.795E-01 6.818E-01 6.840E-01 6.869E-01 6.875E-01 6.876E-01
ADSORBED 5.694E-01 5.651E-01 5.610E-01 5.532E-01 5.508E-01 5.497E-01 5.521E-01 5.540E-01 5.557E-01 5.580E-01 5.586E-01 5.586E-01
SOIL AIR 1.220E+00 1.226E+00 1.229E+00 1.227E+00 1.220E+00 1.215E+00 1.197E+00 1.192E+00 1.186E+00 1.172E+00 1.173E+00 1.177E+00

SUBLAYER 2

MOISTURE 2.030E+00 2.016E+00 2.003E+00 1.978E+00 1.971E+00 1.969E+00 1.978E+00 1.985E+00 1.991E+00 1.999E+00 2.001E+00 2.002E+00
%SOLUBILITY 8.457E-01 8.400E-01 8.346E-01 8.240E-01 8.212E-01 8.202E-01 8.241E-01 8.269E-01 8.295E-01 8.330E-01 8.339E-01 8.341E-01
ADSORBED 6.871E-01 6.825E-01 6.780E-01 6.695E-01 6.672E-01 6.664E-01 6.695E-01 6.718E-01 6.740E-01 6.768E-01 6.775E-01 6.777E-01
SOIL AIR 1.472E+00 1.481E+00 1.485E+00 1.485E+00 1.477E+00 1.473E+00 1.452E+00 1.445E+00 1.438E+00 1.422E+00 1.423E+00 1.428E+00

SUBLAYER 3

MOISTURE 2.283E+00 2.271E+00 2.261E+00 2.239E+00 2.237E+00 2.239E+00 2.252E+00 2.261E+00 2.268E+00 2.278E+00 2.280E+00 2.281E+00
%SOLUBILITY 9.512E-01 9.464E-01 9.419E-01 9.331E-01 9.322E-01 9.331E-01 9.385E-01 9.420E-01 9.450E-01 9.490E-01 9.501E-01 9.505E-01
ADSORBED 7.728E-01 7.689E-01 7.653E-01 7.581E-01 7.574E-01 7.581E-01 7.625E-01 7.653E-01 7.678E-01 7.711E-01 7.719E-01 7.723E-01
SOIL AIR 1.656E+00 1.668E+00 1.676E+00 1.682E+00 1.677E+00 1.676E+00 1.653E+00 1.647E+00 1.638E+00 1.620E+00 1.621E+00 1.627E+00

SUBLAYER 4

MOISTURE 2.247E+00 2.242E+00 2.237E+00 2.228E+00 2.236E+00 2.246E+00 2.263E+00 2.272E+00 2.280E+00 2.290E+00 2.293E+00 2.294E+00
%SOLUBILITY 9.364E-01 9.340E-01 9.322E-01 9.285E-01 9.315E-01 9.356E-01 9.429E-01 9.468E-01 9.500E-01 9.541E-01 9.552E-01 9.560E-01
ADSORBED 7.608E-01 7.588E-01 7.573E-01 7.543E-01 7.568E-01 7.601E-01 7.661E-01 7.693E-01 7.718E-01 7.751E-01 7.761E-01 7.767E-01
SOIL AIR 1.630E+00 1.646E+00 1.659E+00 1.673E+00 1.676E+00 1.680E+00 1.661E+00 1.655E+00 1.647E+00 1.629E+00 1.630E+00 1.636E+00

SUBLAYER 5

MOISTURE 1.845E+00 1.845E+00 1.848E+00 1.854E+00 1.870E+00 1.887E+00 1.907E+00 1.916E+00 1.923E+00 1.931E+00 1.934E+00 1.936E+00
%SOLUBILITY 7.686E-01 7.689E-01 7.701E-01 7.724E-01 7.793E-01 7.864E-01 7.946E-01 7.984E-01 8.012E-01 8.047E-01 8.057E-01 8.067E-01
ADSORBED 6.244E-01 6.247E-01 6.257E-01 6.276E-01 6.331E-01 6.389E-01 6.456E-01 6.487E-01 6.509E-01 6.537E-01 6.546E-01 6.554E-01
SOIL AIR 1.338E+00 1.355E+00 1.371E+00 1.392E+00 1.402E+00 1.412E+00 1.400E+00 1.396E+00 1.389E+00 1.374E+00 1.375E+00 1.381E+00

SUBLAYER 6

MOISTURE 1.227E+00 1.232E+00 1.238E+00 1.252E+00 1.271E+00 1.289E+00 1.307E+00 1.314E+00 1.319E+00 1.325E+00 1.327E+00 1.329E+00
%SOLUBILITY 5.114E-01 5.132E-01 5.158E-01 5.215E-01 5.295E-01 5.373E-01 5.445E-01 5.475E-01 5.495E-01 5.519E-01 5.527E-01 5.536E-01
ADSORBED 4.155E-01 4.170E-01 4.191E-01 4.237E-01 4.302E-01 4.365E-01 4.424E-01 4.448E-01 4.464E-01 4.484E-01 4.491E-01 4.498E-01
SOIL AIR 8.901E-01 9.047E-01 9.181E-01 9.400E-01 9.527E-01 9.649E-01 9.592E-01 9.570E-01 9.525E-01 9.421E-01 9.430E-01 9.477E-01

SUBLAYER 7

MOISTURE 6.592E-01 6.631E-01 6.684E-01 6.809E-01 6.959E-01 7.099E-01 7.215E-01 7.261E-01 7.290E-01 7.322E-01 7.334E-01 7.348E-01
%SOLUBILITY 2.747E-01 2.763E-01 2.785E-01 2.837E-01 2.899E-01 2.958E-01 3.006E-01 3.025E-01 3.037E-01 3.051E-01 3.056E-01 3.062E-01
ADSORBED 2.232E-01 2.245E-01 2.263E-01 2.305E-01 2.356E-01 2.403E-01 2.442E-01 2.458E-01 2.468E-01 2.479E-01 2.483E-01 2.48BE-01
SOIL AIR 4.780E-01 4.870E-01 4.957E-01 5.113E-01 5.216E-01 5.312E-01 5.296E-01 5.288E-01 5.265E-01 5.208E-01 5.213E-01 5.241E-01

SUBLAYER 8

MOISTURE 2.995E-01 3.014E-01 3.041E-01 3.110E-01 3.193E-01 3.268E-01 3.328E-01 3.352E-01 3.365E-01 3.380E-01 3.386E-01 3.393E-01

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%SOLUBILITY 1.248E-01 1.256E-01 1.267E-01 1.296E-01 1.330E-01 1.362E-01 1.387E-01 1.396E-01 1.402E-01 1.409E-01 1.411E-01 1.414E-01
 DSORBED   1.014E-01 1.020E-01 1.029E-01 1.053E-01 1.081E-01 1.106E-01 1.127E-01 1.135E-01 1.139E-01 1.144E-01 1.146E-01 1.149E-01
 OIL AIR   2.172E-01 2.214E-01 2.255E-01 2.336E-01 2.393E-01 2.446E-01 2.443E-01 2.441E-01 2.431E-01 2.404E-01 2.407E-01 2.420E-01

      SUBLAYER 9

MOISTURE   1.390E-01 1.395E-01 1.402E-01 1.426E-01 1.458E-01 1.489E-01 1.513E-01 1.524E-01 1.530E-01 1.537E-01 1.539E-01 1.542E-01
%SOLUBILITY 5.793E-02 5.810E-02 5.841E-02 5.942E-02 6.077E-02 6.202E-02 6.305E-02 6.349E-02 6.375E-02 6.403E-02 6.413E-02 6.423E-02
ADSORBED   4.706E-02 4.721E-02 4.745E-02 4.827E-02 4.937E-02 5.039E-02 5.123E-02 5.158E-02 5.179E-02 5.202E-02 5.210E-02 5.219E-02
SOIL AIR   1.008E-01 1.024E-01 1.040E-01 1.071E-01 1.093E-01 1.114E-01 1.111E-01 1.110E-01 1.105E-01 1.093E-01 1.094E-01 1.100E-01

      SUBLAYER 10

MOISTURE   9.295E-02 9.280E-02 9.277E-02 9.305E-02 9.401E-02 9.500E-02 9.606E-02 9.657E-02 9.693E-02 9.735E-02 9.747E-02 9.757E-02
%SOLUBILITY 3.873E-02 3.867E-02 3.865E-02 3.877E-02 3.917E-02 3.958E-02 4.002E-02 4.024E-02 4.039E-02 4.056E-02 4.061E-02 4.066E-02
ADSORBED   3.146E-02 3.142E-02 3.140E-02 3.150E-02 3.183E-02 3.216E-02 3.252E-02 3.269E-02 3.281E-02 3.295E-02 3.300E-02 3.303E-02
SOIL AIR   6.740E-02 6.816E-02 6.880E-02 6.988E-02 7.048E-02 7.109E-02 7.051E-02 7.033E-02 7.000E-02 6.924E-02 6.929E-02 6.959E-02


POL DEP CM  1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

   -- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC.  0.000E+00 0.000E+00 1.921E-05 2.296E-04 2.475E-04 1.943E-04 1.029E-04 4.323E-05 1.592E-05 0.000E+00 0.000E+00 0.000E+00
1                YEAR -  30 ANNUAL SUMMARY REPORT
                 ==================================


    -- TOTAL INPUTS (UG) --


UPPER SOIL ZONE          0.000E+00
SOIL ZONE 2            0.000E+00
SOIL ZONE 3            0.000E+00
 OWER SOIL ZONE          0.000E+00


      -- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)            8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)      8.992
TOTAL PRECIPITATION (CM)                  32.338
TOTAL INFILTRATION (CM)                   25.841
TOTAL EVAPOTRANSPIRATION (CM)             24.575
TOTAL SURFACE RUNOFF (CM)                  6.491
TOTAL GRW RUNOFF (CM)                      1.265
TOTAL MOISTURE RETENTION (CM)              0.001
TOTAL YIELD (CM)                       7.763
0       -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED
        ---------------------------------------------------------------------------------------------------------
FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE
(MONTH SEP)
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   UPPER SOIL ZONE:

      SUBLAYER 1


   SOIL ZONE 2:

      SUBLAYER 1


   SOIL ZONE 3:

      SUBLAYER 1
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LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 2.181E+06

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.068E+00
ADSORBED SOIL (UG/G) 7.000E-01
SOIL AIR (UG/ML) 1.511E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.646E+00
ADSORBED SOIL (UG/G) 5.572E-01
SOIL AIR (UG/ML) 1.203E+00

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.993E+00
ADSORBED SOIL (UG/G) 6.748E-01
SOIL AIR (UG/ML) 1.457E+00

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.263E+00
ADSORBED SOIL (UG/G) 7.659E-01
SOIL AIR (UG/ML) 1.653E+00

SUBLAYER 4

SOIL MOISTURE (UG/ML) 2.261E+00
ADSORBED SOIL (UG/G) 7.653E-01
SOIL AIR (UG/ML) 1.652E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 1.891E+00
ADSORBED SOIL (UG/G) 6.403E-01
SOIL AIR (UG/ML) 1.382E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 1.286E+00
ADSORBED SOIL (UG/G) 4.352E-01
SOIL AIR (UG/ML) 9.393E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 7.045E-01
ADSORBED SOIL (UG/G) 2.385E-01
SOIL AIR (UG/ML) 5.147E-01

SUBLAYER 8

SOIL MOISTURE (UG/ML) 3.236E-01
ADSORBED SOIL (UG/G) 1.095E-01
SOIL AIR (UG/ML) 2.363E-01

SUBLAYER 9

SOIL MOISTURE (UG/ML) 1.479E-01
ADSORBED SOIL (UG/G) 5.006E-02
SOIL AIR (UG/ML) 1.080E-01

SUBLAYER 10

SOIL MOISTURE (UG/ML) 9.521E-02
ADSORBED SOIL (UG/G) 3.223E-02
SOIL AIR (UG/ML) 6.956E-02

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 7.105E-05
1

YEAR - 40 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	6.908E+08	7.552E+08	8.264E+08	9.820E+08	9.829E+08	9.432E+08	8.739E+08	8.160E+08	7.778E+08	7.504E+08	7.282E+08	7.026E+08
ADS ON SOIL	4.705E+09	4.667E+09	4.631E+09	4.565E+09	4.546E+09	4.537E+09	4.557E+09	4.573E+09	4.587E+09	4.606E+09	4.611E+09	4.611E+09
IN SOIL AIR	1.393E+09	1.348E+09	1.294E+09	1.166E+09	1.155E+09	1.179E+09	1.215E+09	1.254E+09	1.277E+09	1.285E+09	1.302E+09	1.325E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	8.924E+07	9.760E+07	1.068E+08	1.270E+08	1.271E+08	1.219E+08	1.129E+08	1.054E+08	1.005E+08	9.697E+07	9.408E+07	9.078E+07
ADS ON SOIL	6.078E+08	6.032E+08	5.987E+08	5.903E+08	5.877E+08	5.864E+08	5.889E+08	5.909E+08	5.927E+08	5.952E+08	5.958E+08	5.958E+08
IN SOIL AIR	1.800E+08	1.743E+08	1.672E+08	1.507E+08	1.493E+08	1.524E+08	1.571E+08	1.621E+08	1.650E+08	1.660E+08	1.682E+08	1.712E+08

SUBLAYER 2

IN SOIL MOI	1.112E+08	1.217E+08	1.332E+08	1.583E+08	1.585E+08	1.521E+08	1.409E+08	1.315E+08	1.254E+08	1.210E+08	1.174E+08	1.133E+08
ADS ON SOIL	7.574E+08	7.519E+08	7.465E+08	7.361E+08	7.330E+08	7.315E+08	7.346E+08	7.371E+08	7.394E+08	7.426E+08	7.433E+08	7.434E+08
IN SOIL AIR	2.243E+08	2.172E+08	2.085E+08	1.880E+08	1.862E+08	1.901E+08	1.959E+08	2.022E+08	2.059E+08	2.071E+08	2.099E+08	2.136E+08

SUBLAYER 3

SOIL MOI 1.369E+08 1.499E+08 1.643E+08 1.955E+08 1.958E+08 1.881E+08 1.743E+08 1.628E+08 1.552E+08 1.497E+08 1.453E+08 1.402E+08
ADS ON SOIL 9.327E+08 9.265E+08 9.206E+08 9.089E+08 9.058E+08 9.047E+08 9.090E+08 9.121E+08 9.150E+08 9.188E+08 9.198E+08 9.200E+08
IN SOIL AIR 2.762E+08 2.676E+08 2.571E+08 2.321E+08 2.301E+08 2.351E+08 2.424E+08 2.502E+08 2.548E+08 2.563E+08 2.597E+08 2.643E+08

SUBLAYER 4

IN SOIL MOI 1.590E+08 1.743E+08 1.913E+08 2.282E+08 2.291E+08 2.204E+08 2.045E+08 1.910E+08 1.820E+08 1.756E+08 1.704E+08 1.645E+08
ADS ON SOIL 1.083E+09 1.077E+09 1.072E+09 1.061E+09 1.060E+09 1.060E+09 1.066E+09 1.070E+09 1.073E+09 1.078E+09 1.079E+09 1.080E+09
IN SOIL AIR 3.206E+08 3.111E+08 2.994E+08 2.710E+08 2.692E+08 2.755E+08 2.844E+08 2.936E+08 2.989E+08 3.007E+08 3.047E+08 3.101E+08

SUBLAYER 5

IN SOIL MOI 1.643E+08 1.804E+08 1.985E+08 2.379E+08 2.396E+08 2.311E+08 2.148E+08 2.006E+08 1.913E+08 1.845E+08 1.791E+08 1.729E+08
ADS ON SOIL 1.119E+09 1.115E+09 1.112E+09 1.106E+09 1.108E+09 1.112E+09 1.120E+09 1.124E+09 1.128E+09 1.133E+09 1.134E+09 1.135E+09
IN SOIL AIR 3.313E+08 3.222E+08 3.107E+08 2.824E+08 2.815E+08 2.889E+08 2.987E+08 3.084E+08 3.141E+08 3.160E+08 3.202E+08 3.260E+08

SUBLAYER 6

IN SOIL MOI 1.436E+08 1.580E+08 1.743E+08 2.101E+08 2.125E+08 2.058E+08 1.916E+08 1.791E+08 1.708E+08 1.648E+08 1.599E+08 1.545E+08
ADS ON SOIL 9.778E+08 9.768E+08 9.767E+08 9.766E+08 9.829E+08 9.900E+08 9.992E+08 1.004E+09 1.007E+09 1.012E+09 1.013E+09 1.014E+09
IN SOIL AIR 2.895E+08 2.822E+08 2.728E+08 2.494E+08 2.497E+08 2.572E+08 2.665E+08 2.754E+08 2.805E+08 2.822E+08 2.860E+08 2.912E+08

SUBLAYER 7

IN SOIL MOI 1.021E+08 1.127E+08 1.246E+08 1.511E+08 1.537E+08 1.495E+08 1.396E+08 1.305E+08 1.245E+08 1.201E+08 1.166E+08 1.127E+08
ADS ON SOIL 6.956E+08 6.964E+08 6.982E+08 7.027E+08 7.110E+08 7.193E+08 7.278E+08 7.315E+08 7.342E+08 7.374E+08 7.384E+08 7.394E+08
IN SOIL AIR 2.060E+08 2.012E+08 1.950E+08 1.794E+08 1.806E+08 1.869E+08 1.941E+08 2.007E+08 2.044E+08 2.057E+08 2.085E+08 2.124E+08

SUBLAYER 8

IN SOIL MOI 5.794E+07 6.404E+07 7.096E+07 8.663E+07 8.861E+07 8.659E+07 8.103E+07 7.585E+07 7.235E+07 6.981E+07 6.777E+07 6.550E+07
ADS ON SOIL 3.946E+08 3.958E+08 3.977E+08 4.027E+08 4.098E+08 4.165E+08 4.225E+08 4.250E+08 4.267E+08 4.285E+08 4.292E+08 4.299E+08
IN SOIL AIR 1.168E+08 1.143E+08 1.111E+08 1.028E+08 1.041E+08 1.082E+08 1.127E+08 1.166E+08 1.188E+08 1.195E+08 1.212E+08 1.235E+08

SUBLAYER 9

IN SOIL MOI 2.676E+07 2.958E+07 3.279E+07 4.020E+07 4.130E+07 4.050E+07 3.797E+07 3.557E+07 3.394E+07 3.275E+07 3.179E+07 3.072E+07
ADS ON SOIL 1.822E+08 1.828E+08 1.838E+08 1.869E+08 1.910E+08 1.948E+08 1.980E+08 1.993E+08 2.001E+08 2.010E+08 2.013E+08 2.016E+08
IN SOIL AIR 5.396E+07 5.281E+07 5.133E+07 4.772E+07 4.853E+07 5.062E+07 5.281E+07 5.468E+07 5.573E+07 5.608E+07 5.684E+07 5.792E+07

SUBLAYER 10

IN SOIL MOI 1.199E+07 1.322E+07 1.461E+07 1.784E+07 1.829E+07 1.790E+07 1.677E+07 1.571E+07 1.499E+07 1.446E+07 1.404E+07 1.356E+07
ADS ON SOIL 8.166E+07 8.169E+07 8.187E+07 8.295E+07 8.461E+07 8.613E+07 8.744E+07 8.802E+07 8.839E+07 8.877E+07 8.890E+07 8.901E+07
IN SOIL AIR 2.418E+07 2.360E+07 2.287E+07 2.118E+07 2.150E+07 2.238E+07 2.332E+07 2.415E+07 2.461E+07 2.477E+07 2.510E+07 2.557E+07
GWR. RUNOFF 0.000E+00 0.000E+00 9.585E+04 1.152E+06 1.255E+06 9.935E+05 5.297E+05 2.233E+05 8.236E+04 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09

%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 1.683E+00 1.669E+00 1.656E+00 1.633E+00 1.626E+00 1.623E+00 1.630E+00 1.635E+00 1.640E+00 1.647E+00 1.649E+00 1.649E+00
%SOLUBILITY 7.011E-01 6.954E-01 6.900E-01 6.802E-01 6.774E-01 6.761E-01 6.790E-01 6.813E-01 6.835E-01 6.864E-01 6.871E-01 6.871E-01
ADSORBED 5.696E-01 5.650E-01 5.606E-01 5.527E-01 5.504E-01 5.493E-01 5.516E-01 5.535E-01 5.553E-01 5.576E-01 5.582E-01 5.582E-01
SOIL AIR 1.220E+00 1.226E+00 1.228E+00 1.226E+00 1.219E+00 1.214E+00 1.196E+00 1.191E+00 1.185E+00 1.172E+00 1.172E+00 1.176E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.345E+00 1.335E+00 1.325E+00 1.306E+00 1.300E+00 1.298E+00 1.303E+00 1.307E+00 1.311E+00 1.317E+00 1.318E+00 1.318E+00
%SOLUBILITY 5.604E-01 5.561E-01 5.520E-01 5.442E-01 5.418E-01 5.406E-01 5.429E-01 5.447E-01 5.464E-01 5.488E-01 5.493E-01 5.493E-01
ADSORBED 4.553E-01 4.518E-01 4.485E-01 4.421E-01 4.402E-01 4.392E-01 4.411E-01 4.426E-01 4.440E-01 4.458E-01 4.463E-01 4.463E-01
SOIL AIR 9.753E-01 9.803E-01 9.825E-01 9.809E-01 9.748E-01 9.709E-01 9.565E-01 9.522E-01 9.472E-01 9.367E-01 9.371E-01 9.403E-01

SUBLAYER 2

MOISTURE 1.676E+00 1.664E+00 1.652E+00 1.629E+00 1.622E+00 1.619E+00 1.626E+00 1.631E+00 1.636E+00 1.643E+00 1.645E+00 1.645E+00
%SOLUBILITY 6.983E-01 6.932E-01 6.882E-01 6.787E-01 6.758E-01 6.744E-01 6.773E-01 6.796E-01 6.817E-01 6.846E-01 6.853E-01 6.854E-01
ADSORBED 5.673E-01 5.632E-01 5.591E-01 5.514E-01 5.490E-01 5.479E-01 5.503E-01 5.521E-01 5.539E-01 5.562E-01 5.568E-01 5.569E-01
SOIL AIR 1.215E+00 1.222E+00 1.225E+00 1.223E+00 1.216E+00 1.211E+00 1.193E+00 1.188E+00 1.182E+00 1.169E+00 1.169E+00 1.173E+00

SUBLAYER 3

MOISTURE 2.064E+00 2.050E+00 2.037E+00 2.011E+00 2.004E+00 2.002E+00 2.011E+00 2.018E+00 2.025E+00 2.033E+00 2.035E+00 2.036E+00
%SOLUBILITY 8.599E-01 8.542E-01 8.487E-01 8.380E-01 8.351E-01 8.341E-01 8.380E-01 8.409E-01 8.436E-01 8.471E-01 8.480E-01 8.482E-01
ADSORBED 6.986E-01 6.940E-01 6.895E-01 6.808E-01 6.785E-01 6.777E-01 6.808E-01 6.832E-01 6.853E-01 6.882E-01 6.890E-01 6.891E-01
SOIL AIR 1.497E+00 1.506E+00 1.511E+00 1.510E+00 1.503E+00 1.498E+00 1.476E+00 1.470E+00 1.462E+00 1.446E+00 1.447E+00 1.452E+00

SUBLAYER 4

MOISTURE 2.396E+00 2.383E+00 2.371E+00 2.348E+00 2.345E+00 2.346E+00 2.359E+00 2.368E+00 2.375E+00 2.385E+00 2.388E+00 2.389E+00
%SOLUBILITY 9.983E-01 9.930E-01 9.881E-01 9.783E-01 9.769E-01 9.774E-01 9.830E-01 9.865E-01 9.897E-01 9.939E-01 9.950E-01 9.954E-01
ADSORBED 8.111E-01 8.068E-01 8.028E-01 7.948E-01 7.937E-01 7.941E-01 7.986E-01 8.015E-01 8.041E-01 8.075E-01 8.084E-01 8.087E-01
SOIL AIR 1.737E+00 1.750E+00 1.759E+00 1.763E+00 1.758E+00 1.755E+00 1.732E+00 1.724E+00 1.715E+00 1.697E+00 1.697E+00 1.704E+00

SUBLAYER 5

MOISTURE 2.476E+00 2.468E+00 2.461E+00 2.447E+00 2.452E+00 2.460E+00 2.478E+00 2.488E+00 2.496E+00 2.507E+00 2.510E+00 2.511E+00
%SOLUBILITY 1.032E+00 1.028E+00 1.025E+00 1.020E+00 1.022E+00 1.025E+00 1.032E+00 1.037E+00 1.040E+00 1.044E+00 1.046E+00 1.046E+00
ADSORBED 8.381E-01 8.353E-01 8.330E-01 8.283E-01 8.300E-01 8.328E-01 8.388E-01 8.421E-01 8.449E-01 8.485E-01 8.495E-01 8.501E-01
SOIL AIR 1.795E+00 1.812E+00 1.825E+00 1.838E+00 1.838E+00 1.841E+00 1.819E+00 1.812E+00 1.803E+00 1.783E+00 1.784E+00 1.791E+00

SUBLAYER 6

MOISTURE 2.164E+00 2.161E+00 2.161E+00 2.161E+00 2.175E+00 2.191E+00 2.211E+00 2.221E+00 2.229E+00 2.238E+00 2.241E+00 2.243E+00
%SOLUBILITY 9.015E-01 9.005E-01 9.004E-01 9.004E-01 9.062E-01 9.127E-01 9.212E-01 9.254E-01 9.286E-01 9.326E-01 9.338E-01 9.347E-01
ADSORBED 7.324E-01 7.316E-01 7.316E-01 7.315E-01 7.363E-01 7.415E-01 7.485E-01 7.518E-01 7.544E-01 7.577E-01 7.587E-01 7.594E-01
SOIL AIR 1.569E+00 1.587E+00 1.603E+00 1.623E+00 1.630E+00 1.639E+00 1.623E+00 1.618E+00 1.610E+00 1.592E+00 1.593E+00 1.600E+00

SUBLAYER 7

MOISTURE 1.539E+00 1.541E+00 1.545E+00 1.555E+00 1.573E+00 1.592E+00 1.610E+00 1.619E+00 1.624E+00 1.632E+00 1.634E+00 1.636E+00
%SOLUBILITY 6.413E-01 6.421E-01 6.437E-01 6.478E-01 6.555E-01 6.632E-01 6.710E-01 6.744E-01 6.769E-01 6.798E-01 6.808E-01 6.817E-01
ADSORBED 5.210E-01 5.217E-01 5.230E-01 5.263E-01 5.326E-01 5.388E-01 5.451E-01 5.480E-01 5.499E-01 5.523E-01 5.531E-01 5.538E-01
SOIL AIR 1.116E+00 1.132E+00 1.146E+00 1.168E+00 1.179E+00 1.191E+00 1.182E+00 1.179E+00 1.173E+00 1.160E+00 1.161E+00 1.167E+00

SUBLAYER 8

MOISTURE 8.732E-01 8.758E-01 8.799E-01 8.911E-01 9.068E-01 9.217E-01 9.349E-01 9.405E-01 9.441E-01 9.482E-01 9.496E-01 9.512E-01
%SOLUBILITY 3.638E-01 3.649E-01 3.666E-01 3.713E-01 3.779E-01 3.840E-01 3.895E-01 3.919E-01 3.934E-01 3.951E-01 3.957E-01 3.963E-01
ADSORBED 2.956E-01 2.965E-01 2.979E-01 3.017E-01 3.070E-01 3.120E-01 3.165E-01 3.184E-01 3.196E-01 3.210E-01 3.215E-01 3.220E-01
SOIL AIR 6.332E-01 6.432E-01 6.525E-01 6.692E-01 6.798E-01 6.897E-01 6.863E-01 6.849E-01 6.818E-01 6.744E-01 6.750E-01 6.784E-01

SUBLAYER 9

MOISTURE 4.032E-01 4.045E-01 4.066E-01 4.135E-01 4.227E-01 4.311E-01 4.381E-01 4.410E-01 4.428E-01 4.448E-01 4.454E-01 4.462E-01
%SOLUBILITY 1.680E-01 1.685E-01 1.694E-01 1.723E-01 1.761E-01 1.796E-01 1.825E-01 1.838E-01 1.845E-01 1.853E-01 1.856E-01 1.859E-01
ADSORBED 1.365E-01 1.369E-01 1.376E-01 1.400E-01 1.431E-01 1.459E-01 1.483E-01 1.493E-01 1.499E-01 1.506E-01 1.508E-01 1.510E-01
SOIL AIR 2.924E-01 2.971E-01 3.015E-01 3.105E-01 3.169E-01 3.226E-01 3.216E-01 3.212E-01 3.198E-01 3.164E-01 3.166E-01 3.182E-01

SUBLAYER 10

MOISTURE 1.807E-01 1.807E-01 1.812E-01 1.835E-01 1.872E-01 1.906E-01 1.935E-01 1.948E-01 1.956E-01 1.964E-01 1.967E-01 1.970E-01
%SOLUBILITY 7.529E-02 7.531E-02 7.548E-02 7.647E-02 7.800E-02 7.941E-02 8.061E-02 8.115E-02 8.149E-02 8.185E-02 8.196E-02 8.206E-02
ADSORBED 6.117E-02 6.119E-02 6.132E-02 6.213E-02 6.337E-02 6.452E-02 6.549E-02 6.593E-02 6.621E-02 6.650E-02 6.659E-02 6.667E-02
SOIL AIR 1.310E-01 1.328E-01 1.343E-01 1.378E-01 1.403E-01 1.426E-01 1.420E-01 1.419E-01 1.413E-01 1.397E-01 1.398E-01 1.405E-01

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 3.751E-05 4.529E-04 4.929E-04 3.897E-04 2.072E-04 8.719E-05 3.213E-05 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 40 ANNUAL SUMMARY REPORT
==========

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 4.332E+06

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.645E+00
ADSORBED SOIL (UG/G) 5.568E-01
SOIL AIR (UG/ML) 1.202E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.315E+00
ADSORBED SOIL (UG/G) 4.453E-01
SOIL AIR (UG/ML) 9.612E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.641E+00
ADSORBED SOIL (UG/G) 5.553E-01

SOIL AIR (UG/ML) 1.199E+00

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.027E+00
ADSORBED SOIL (UG/G) 6.862E-01
SOIL AIR (UG/ML) 1.481E+00

SUBLAYER 4

SOIL MOISTURE (UG/ML) 2.371E+00
ADSORBED SOIL (UG/G) 8.027E-01
SOIL AIR (UG/ML) 1.733E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 2.479E+00
ADSORBED SOIL (UG/G) 8.393E-01
SOIL AIR (UG/ML) 1.812E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 2.200E+00
ADSORBED SOIL (UG/G) 7.446E-01
SOIL AIR (UG/ML) 1.607E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.592E+00
ADSORBED SOIL (UG/G) 5.388E-01
SOIL AIR (UG/ML) 1.163E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 9.181E-01
ADSORBED SOIL (UG/G) 3.108E-01
SOIL AIR (UG/ML) 6.707E-01

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.283E-01
ADSORBED SOIL (UG/G) 1.450E-01
SOIL AIR (UG/ML) 3.129E-01

SUBLAYER 10

SOIL MOISTURE (UG/ML) 1.898E-01
ADSORBED SOIL (UG/G) 6.426E-02
SOIL AIR (UG/ML) 1.387E-01

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 1.416E-04
1

YEAR - 50 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1OIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
IOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685

PRECIPATION (CM) 0.577 3.988 4.381 8.036 6.021 4.888 2.542 0.512 0.090 0.051 0.566 0.685
NET INFILT. (CM) 0.490 3.313 3.723 6.362 4.615 4.066 2.266 0.407 0.068 0.044 0.094 0.392
EVAPOTRANS. (CM) 1.064 2.241 2.405 3.094 4.046 4.331 3.306 1.349 0.720 0.570 0.535 0.913
MOIS. RETEN (CM) -0.427 1.152 1.280 2.815 0.085 -0.640 -1.237 -1.024 -0.682 -0.512 -0.384 -0.427
SUR. RUNOFF (CM) 0.087 0.675 0.658 1.675 1.406 0.822 0.276 0.105 0.022 0.000 0.472 0.293
GRW. RUNOFF (CM) -0.148 -0.080 0.038 0.453 0.483 0.375 0.196 0.082 0.030 -0.014 -0.057 -0.095
YIELD (CM) -0.061 0.595 0.696 2.128 1.889 1.197 0.472 0.187 0.052 -0.007 0.415 0.199

PAU/MPA (GZU) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008
PA/MPA (GZ) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

PRECIP. 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD UPPER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 5.493E+08 6.005E+08 6.572E+08 7.809E+08 7.817E+08 7.501E+08 6.949E+08 6.489E+08 6.186E+08 5.968E+08 5.790E+08 5.587E+08
ADS ON SOIL 3.742E+09 3.712E+09 3.683E+09 3.630E+09 3.615E+09 3.608E+09 3.624E+09 3.636E+09 3.648E+09 3.663E+09 3.667E+09 3.667E+09
IN SOIL AIR 1.108E+09 1.072E+09 1.029E+09 9.271E+08 9.186E+08 9.376E+08 9.665E+08 9.975E+08 1.016E+09 1.022E+09 1.035E+09 1.053E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 7.103E+07 7.768E+07 8.504E+07 1.010E+08 1.011E+08 9.701E+07 8.987E+07 8.391E+07 7.998E+07 7.717E+07 7.487E+07 7.224E+07
ADS ON SOIL 4.838E+08 4.801E+08 4.765E+08 4.698E+08 4.677E+08 4.667E+08 4.686E+08 4.702E+08 4.717E+08 4.737E+08 4.741E+08 4.742E+08
IN SOIL AIR 1.432E+08 1.387E+08 1.331E+08 1.200E+08 1.188E+08 1.213E+08 1.250E+08 1.290E+08 1.313E+08 1.321E+08 1.339E+08 1.362E+08

SUBLAYER 2

IN SOIL MOI 8.924E+07 9.761E+07 1.069E+08 1.270E+08 1.271E+08 1.219E+08 1.129E+08 1.054E+08 1.005E+08 9.697E+07 9.409E+07 9.079E+07
ADS ON SOIL 6.078E+08 6.033E+08 5.989E+08 5.904E+08 5.877E+08 5.864E+08 5.889E+08 5.909E+08 5.927E+08 5.952E+08 5.958E+08 5.959E+08
IN SOIL AIR 1.800E+08 1.743E+08 1.673E+08 1.508E+08 1.493E+08 1.524E+08 1.571E+08 1.621E+08 1.650E+08 1.660E+08 1.682E+08 1.712E+08

SUBLAYER 3

IN SOIL MOI 1.136E+08 1.243E+08 1.361E+08 1.618E+08 1.620E+08 1.554E+08 1.440E+08 1.344E+08 1.282E+08 1.236E+08 1.200E+08 1.158E+08
ADS ON SOIL 7.738E+08 7.682E+08 7.628E+08 7.523E+08 7.491E+08 7.477E+08 7.509E+08 7.534E+08 7.558E+08 7.590E+08 7.597E+08 7.599E+08

IN SOIL AIR 2.291E+08 2.219E+08 2.131E+08 1.921E+08 1.903E+08 1.943E+08 2.003E+08 2.067E+08 2.104E+08 2.117E+08 2.145E+08 2.183E+08

SUBLAYER 4

IN SOIL MOI 1.430E+08 1.566E+08 1.716E+08 2.042E+08 2.046E+08 1.965E+08 1.821E+08 1.701E+08 1.621E+08 1.564E+08 1.518E+08 1.465E+08
ADS ON SOIL 9.740E+08 9.677E+08 9.616E+08 9.496E+08 9.463E+08 9.452E+08 9.497E+08 9.530E+08 9.559E+08 9.600E+08 9.610E+08 9.613E+08
IN SOIL AIR 2.884E+08 2.795E+08 2.686E+08 2.425E+08 2.404E+08 2.456E+08 2.533E+08 2.614E+08 2.662E+08 2.678E+08 2.713E+08 2.761E+08

SUBLAYER 5

IN SOIL MOI 1.699E+08 1.863E+08 2.044E+08 2.439E+08 2.448E+08 2.355E+08 2.185E+08 2.041E+08 1.945E+08 1.877E+08 1.821E+08 1.758E+08
ADS ON SOIL 1.157E+09 1.151E+09 1.146E+09 1.134E+09 1.132E+09 1.133E+09 1.139E+09 1.143E+09 1.147E+09 1.152E+09 1.153E+09 1.154E+09
IN SOIL AIR 3.427E+08 3.326E+08 3.200E+08 2.896E+08 2.877E+08 2.944E+08 3.039E+08 3.137E+08 3.194E+08 3.214E+08 3.256E+08 3.314E+08

SUBLAYER 6

IN SOIL MOI 1.799E+08 1.976E+08 2.173E+08 2.602E+08 2.620E+08 2.527E+08 2.347E+08 2.193E+08 2.091E+08 2.017E+08 1.958E+08 1.890E+08
ADS ON SOIL 1.225E+09 1.221E+09 1.217E+09 1.210E+09 1.212E+09 1.215E+09 1.224E+09 1.229E+09 1.233E+09 1.238E+09 1.240E+09 1.240E+09
IN SOIL AIR 3.628E+08 3.527E+08 3.401E+08 3.090E+08 3.079E+08 3.158E+08 3.265E+08 3.371E+08 3.433E+08 3.454E+08 3.500E+08 3.563E+08

SUBLAYER 7

IN SOIL MOI 1.606E+08 1.767E+08 1.948E+08 2.345E+08 2.370E+08 2.293E+08 2.135E+08 1.995E+08 1.902E+08 1.835E+08 1.781E+08 1.720E+08
ADS ON SOIL 1.094E+09 1.092E+09 1.091E+09 1.090E+09 1.096E+09 1.103E+09 1.113E+09 1.118E+09 1.122E+09 1.127E+09 1.128E+09 1.129E+09
IN SOIL AIR 3.239E+08 3.155E+08 3.049E+08 2.784E+08 2.785E+08 2.867E+08 2.969E+08 3.067E+08 3.124E+08 3.143E+08 3.185E+08 3.243E+08

SUBLAYER 8

IN SOIL MOI 1.154E+08 1.272E+08 1.405E+08 1.701E+08 1.728E+08 1.679E+08 1.566E+08 1.464E+08 1.396E+08 1.347E+08 1.308E+08 1.263E+08
ADS ON SOIL 7.863E+08 7.864E+08 7.874E+08 7.909E+08 7.992E+08 8.075E+08 8.165E+08 8.206E+08 8.235E+08 8.271E+08 8.282E+08 8.292E+08
IN SOIL AIR 2.328E+08 2.272E+08 2.200E+08 2.020E+08 2.030E+08 2.098E+08 2.178E+08 2.251E+08 2.293E+08 2.307E+08 2.338E+08 2.382E+08

SUBLAYER 9

IN SOIL MOI 6.467E+07 7.135E+07 7.891E+07 9.605E+07 9.807E+07 9.568E+07 8.945E+07 8.372E+07 7.986E+07 7.706E+07 7.480E+07 7.227E+07
DS ON SOIL 4.405E+08 4.410E+08 4.422E+08 4.466E+08 4.536E+08 4.603E+08 4.664E+08 4.692E+08 4.710E+08 4.730E+08 4.737E+08 4.743E+08
N SOIL AIR 1.304E+08 1.274E+08 1.235E+08 1.140E+08 1.152E+08 1.196E+08 1.244E+08 1.287E+08 1.311E+08 1.320E+08 1.337E+08 1.362E+08

SUBLAYER 10

IN SOIL MOI 2.871E+07 3.166E+07 3.499E+07 4.274E+07 4.381E+07 4.287E+07 4.014E+07 3.760E+07 3.588E+07 3.462E+07 3.360E+07 3.246E+07
ADS ON SOIL 1.956E+08 1.956E+08 1.961E+08 1.987E+08 2.026E+08 2.062E+08 2.093E+08 2.107E+08 2.116E+08 2.125E+08 2.128E+08 2.131E+08
IN SOIL AIR 5.791E+07 5.652E+07 5.478E+07 5.074E+07 5.148E+07 5.359E+07 5.583E+07 5.780E+07 5.891E+07 5.928E+07 6.008E+07 6.120E+07
GWR. RUNOFF 0.000E+00 0.000E+00 2.296E+05 2.759E+06 3.006E+06 2.379E+06 1.268E+06 5.346E+05 1.971E+05 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) – NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
OIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 1.338E+00 1.327E+00 1.317E+00 1.298E+00 1.293E+00 1.290E+00 1.296E+00 1.300E+00 1.304E+00 1.310E+00 1.311E+00 1.311E+00
%SOLUBILITY 5.575E-01 5.530E-01 5.487E-01 5.409E-01 5.387E-01 5.376E-01 5.399E-01 5.418E-01 5.435E-01 5.458E-01 5.464E-01 5.464E-01
ADSORBED 4.529E-01 4.493E-01 4.458E-01 4.395E-01 4.377E-01 4.368E-01 4.387E-01 4.402E-01 4.416E-01 4.434E-01 4.439E-01 4.439E-01
SOIL AIR 9.703E-01 9.748E-01 9.766E-01 9.750E-01 9.692E-01 9.655E-01 9.512E-01 9.471E-01 9.421E-01 9.317E-01 9.321E-01 9.353E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.070E+00 1.062E+00 1.054E+00 1.039E+00 1.035E+00 1.033E+00 1.037E+00 1.040E+00 1.044E+00 1.048E+00 1.049E+00 1.049E+00
%SOLUBILITY 4.460E-01 4.426E-01 4.393E-01 4.331E-01 4.312E-01 4.303E-01 4.321E-01 4.335E-01 4.349E-01 4.367E-01 4.371E-01 4.371E-01
ADSORBED 3.624E-01 3.596E-01 3.569E-01 3.519E-01 3.503E-01 3.496E-01 3.510E-01 3.522E-01 3.533E-01 3.548E-01 3.551E-01 3.552E-01
SOIL AIR 7.763E-01 7.802E-01 7.820E-01 7.806E-01 7.758E-01 7.727E-01 7.612E-01 7.578E-01 7.538E-01 7.455E-01 7.457E-01 7.483E-01

SUBLAYER 2

MOISTURE 1.345E+00 1.335E+00 1.325E+00 1.306E+00 1.300E+00 1.298E+00 1.303E+00 1.307E+00 1.311E+00 1.317E+00 1.318E+00 1.319E+00
%SOLUBILITY 5.604E-01 5.562E-01 5.521E-01 5.443E-01 5.419E-01 5.407E-01 5.429E-01 5.447E-01 5.464E-01 5.488E-01 5.493E-01 5.494E-01
ADSORBED 4.553E-01 4.519E-01 4.486E-01 4.422E-01 4.402E-01 4.393E-01 4.411E-01 4.426E-01 4.440E-01 4.458E-01 4.463E-01 4.463E-01
SOIL AIR 9.753E-01 9.804E-01 9.827E-01 9.811E-01 9.749E-01 9.710E-01 9.565E-01 9.522E-01 9.472E-01 9.367E-01 9.371E-01 9.404E-01

SUBLAYER 3

MOISTURE 1.712E+00 1.700E+00 1.688E+00 1.665E+00 1.658E+00 1.654E+00 1.661E+00 1.667E+00 1.672E+00 1.679E+00 1.681E+00 1.681E+00
%SOLUBILITY 7.134E-01 7.083E-01 7.033E-01 6.936E-01 6.907E-01 6.893E-01 6.923E-01 6.946E-01 6.968E-01 6.997E-01 7.004E-01 7.006E-01
ADSORBED 5.796E-01 5.754E-01 5.714E-01 5.635E-01 5.611E-01 5.600E-01 5.624E-01 5.643E-01 5.661E-01 5.685E-01 5.691E-01 5.692E-01
SOIL AIR 1.242E+00 1.248E+00 1.252E+00 1.250E+00 1.243E+00 1.238E+00 1.220E+00 1.214E+00 1.208E+00 1.194E+00 1.195E+00 1.199E+00

SUBLAYER 4

MOISTURE 2.155E+00 2.141E+00 2.128E+00 2.101E+00 2.094E+00 2.091E+00 2.101E+00 2.109E+00 2.115E+00 2.124E+00 2.126E+00 2.127E+00
%SOLUBILITY 8.979E-01 8.921E-01 8.865E-01 8.754E-01 8.725E-01 8.715E-01 8.756E-01 8.786E-01 8.813E-01 8.851E-01 8.860E-01 8.863E-01
ADSORBED 7.295E-01 7.248E-01 7.203E-01 7.113E-01 7.088E-01 7.080E-01 7.114E-01 7.138E-01 7.160E-01 7.191E-01 7.198E-01 7.200E-01
SOIL AIR 1.563E+00 1.573E+00 1.578E+00 1.578E+00 1.570E+00 1.565E+00 1.543E+00 1.536E+00 1.528E+00 1.511E+00 1.512E+00 1.517E+00

SUBLAYER 5

MOISTURE 2.561E+00 2.547E+00 2.535E+00 2.509E+00 2.506E+00 2.507E+00 2.521E+00 2.530E+00 2.538E+00 2.549E+00 2.552E+00 2.553E+00
%SOLUBILITY 1.067E+00 1.061E+00 1.056E+00 1.046E+00 1.044E+00 1.045E+00 1.050E+00 1.054E+00 1.058E+00 1.062E+00 1.063E+00 1.064E+00
ADSORBED 8.669E-01 8.623E-01 8.581E-01 8.495E-01 8.482E-01 8.486E-01 8.534E-01 8.565E-01 8.592E-01 8.629E-01 8.638E-01 8.642E-01
SOIL AIR 1.857E+00 1.871E+00 1.880E+00 1.885E+00 1.878E+00 1.876E+00 1.851E+00 1.843E+00 1.833E+00 1.813E+00 1.814E+00 1.821E+00

SUBLAYER 6

MOISTURE 2.711E+00 2.702E+00 2.694E+00 2.677E+00 2.681E+00 2.689E+00 2.708E+00 2.719E+00 2.728E+00 2.740E+00 2.743E+00 2.745E+00
%SOLUBILITY 1.130E+00 1.126E+00 1.122E+00 1.115E+00 1.117E+00 1.121E+00 1.128E+00 1.133E+00 1.137E+00 1.141E+00 1.143E+00 1.144E+00
ADSORBED 9.179E-01 9.146E-01 9.119E-01 9.063E-01 9.076E-01 9.104E-01 9.168E-01 9.204E-01 9.234E-01 9.274E-01 9.285E-01 9.291E-01
SOIL AIR 1.966E+00 1.984E+00 1.998E+00 2.011E+00 2.010E+00 2.012E+00 1.988E+00 1.980E+00 1.970E+00 1.949E+00 1.950E+00 1.958E+00

SUBLAYER 7

MOISTURE 2.421E+00 2.417E+00 2.415E+00 2.412E+00 2.425E+00 2.441E+00 2.463E+00 2.474E+00 2.482E+00 2.493E+00 2.496E+00 2.498E+00
%SOLUBILITY 1.009E+00 1.007E+00 1.006E+00 1.005E+00 1.011E+00 1.017E+00 1.026E+00 1.031E+00 1.034E+00 1.039E+00 1.040E+00 1.041E+00
ADSORBED 8.195E-01 8.182E-01 8.175E-01 8.165E-01 8.211E-01 8.263E-01 8.337E-01 8.374E-01 8.402E-01 8.439E-01 8.450E-01 8.458E-01
SOIL AIR 1.756E+00 1.775E+00 1.791E+00 1.811E+00 1.818E+00 1.827E+00 1.808E+00 1.802E+00 1.793E+00 1.773E+00 1.774E+00 1.782E+00

SUBLAYER 8

MOISTURE 1.740E+00 1.740E+00 1.742E+00 1.750E+00 1.768E+00 1.787E+00 1.807E+00 1.816E+00 1.822E+00 1.830E+00 1.833E+00 1.835E+00
%SOLUBILITY 7.249E-01 7.250E-01 7.260E-01 7.292E-01 7.368E-01 7.445E-01 7.527E-01 7.566E-01 7.593E-01 7.626E-01 7.636E-01 7.645E-01
ADSORBED 5.890E-01 5.890E-01 5.898E-01 5.924E-01 5.986E-01 6.049E-01 6.116E-01 6.147E-01 6.169E-01 6.195E-01 6.204E-01 6.211E-01
SOIL AIR 1.262E+00 1.278E+00 1.292E+00 1.314E+00 1.326E+00 1.337E+00 1.326E+00 1.322E+00 1.316E+00 1.302E+00 1.303E+00 1.309E+00

SUBLAYER 9

MOISTURE 9.746E-01 9.757E-01 9.784E-01 9.881E-01 1.004E+00 1.018E+00 1.032E+00 1.038E+00 1.042E+00 1.047E+00 1.048E+00 1.050E+00

%SOLUBILITY 4.061E-01 4.065E-01 4.077E-01 4.117E-01 4.182E-01 4.244E-01 4.300E-01 4.325E-01 4.342E-01 4.361E-01 4.367E-01 4.373E-01
DSORBED 3.299E-01 3.303E-01 3.312E-01 3.345E-01 3.398E-01 3.448E-01 3.494E-01 3.514E-01 3.528E-01 3.543E-01 3.548E-01 3.553E-01
OIL AIR 7.068E-01 7.166E-01 7.256E-01 7.421E-01 7.524E-01 7.621E-01 7.576E-01 7.561E-01 7.526E-01 7.444E-01 7.450E-01 7.485E-01

SUBLAYER 10

MOISTURE 4.328E-01 4.329E-01 4.339E-01 4.396E-01 4.483E-01 4.563E-01 4.631E-01 4.662E-01 4.681E-01 4.702E-01 4.708E-01 4.714E-01
%SOLUBILITY 1.803E-01 1.804E-01 1.808E-01 1.832E-01 1.868E-01 1.901E-01 1.930E-01 1.943E-01 1.951E-01 1.959E-01 1.962E-01 1.964E-01
ADSORBED 1.465E-01 1.465E-01 1.469E-01 1.488E-01 1.518E-01 1.545E-01 1.568E-01 1.578E-01 1.585E-01 1.592E-01 1.594E-01 1.596E-01
SOIL AIR 3.138E-01 3.180E-01 3.218E-01 3.302E-01 3.361E-01 3.415E-01 3.400E-01 3.396E-01 3.381E-01 3.344E-01 3.347E-01 3.362E-01

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 8.983E-05 1.085E-03 1.180E-03 9.331E-04 4.961E-04 2.087E-04 7.691E-05 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 50 ANNUAL SUMMARY REPORT
==========

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
OTAL PRECIPITATION (CM) 32.338
. OTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.037E+07

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.308E+00
ADSORBED SOIL (UG/G) 4.428E-01
SOIL AIR (UG/ML) 9.559E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.047E+00
ADSORBED SOIL (UG/G) 3.544E-01
SOIL AIR (UG/ML) 7.650E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.315E+00
ADSORBED SOIL (UG/G) 4.453E-01
SOIL AIR (UG/ML) 9.613E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 1.677E+00
ADSORBED SOIL (UG/G) 5.676E-01
SOIL AIR (UG/ML) 1.225E+00

SUBLAYER 4

SOIL MOISTURE (UG/ML) 2.118E+00
ADSORBED SOIL (UG/G) 7.169E-01
SOIL AIR (UG/ML) 1.548E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 2.534E+00
ADSORBED SOIL (UG/G) 8.578E-01
SOIL AIR (UG/ML) 1.852E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 2.711E+00
ADSORBED SOIL (UG/G) 9.179E-01
SOIL AIR (UG/ML) 1.981E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 2.453E+00
ADSORBED SOIL (UG/G) 8.304E-01
SOIL AIR (UG/ML) 1.792E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 1.789E+00
ADSORBED SOIL (UG/G) 6.057E-01
SOIL AIR (UG/ML) 1.307E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 1.016E+00
ADSORBED SOIL (UG/G) 3.440E-01
SOIL AIR (UG/ML) 7.425E-01

SUBLAYER 10

SOIL MOISTURE (UG/ML) 4.545E-01
ADSORBED SOIL (UG/G) 1.539E-01
SOIL AIR (UG/ML) 3.320E-01

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 3.392E-04
1

YEAR - 60 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685

NET INFILT. (CM) 0.490 3.313 3.723 6.362 4.615 4.066 2.266 0.407 0.068 0.044 0.094 0.392
EVAPOTRANS. (CM) 1.064 2.241 2.405 3.094 4.046 4.331 3.306 1.349 0.720 0.570 0.535 0.913
MOIS. RETEN (CM) -0.427 1.152 1.280 2.815 0.085 -0.640 -1.237 -1.024 -0.682 -0.512 -0.384 -0.427
SUR. RUNOFF (CM) 0.087 0.675 0.658 1.675 1.406 0.822 0.276 0.105 0.022 0.000 0.472 0.293
GRW. RUNOFF (CM) -0.148 -0.080 0.038 0.453 0.483 0.375 0.196 0.082 0.030 -0.014 -0.057 -0.095
YIELD (CM) -0.061 0.595 0.696 2.128 1.889 1.197 0.472 0.187 0.052 -0.007 0.415 0.199

PAU/MPA (GZU) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008
PA/MPA (GZ) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

PRECIP. 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD UPPER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 4.367E+08 4.774E+08 5.225E+08 6.208E+08 6.214E+08 5.963E+08 5.525E+08 5.159E+08 4.918E+08 4.744E+08 4.603E+08 4.442E+08
ADS ON SOIL 2.975E+09 2.951E+09 2.928E+09 2.886E+09 2.874E+09 2.869E+09 2.881E+09 2.891E+09 2.900E+09 2.912E+09 2.915E+09 2.915E+09
IN SOIL AIR 8.808E+08 8.524E+08 8.178E+08 7.370E+08 7.303E+08 7.454E+08 7.684E+08 7.931E+08 8.075E+08 8.124E+08 8.231E+08 8.374E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 5.651E+07 6.181E+07 6.766E+07 8.039E+07 8.045E+07 7.718E+07 7.150E+07 6.676E+07 6.364E+07 6.140E+07 5.957E+07 5.748E+07
ADS ON SOIL 3.849E+08 3.820E+08 3.792E+08 3.738E+08 3.721E+08 3.713E+08 3.728E+08 3.741E+08 3.753E+08 3.769E+08 3.772E+08 3.773E+08
IN SOIL AIR 1.140E+08 1.103E+08 1.059E+08 9.545E+07 9.454E+07 9.648E+07 9.945E+07 1.026E+08 1.045E+08 1.051E+08 1.065E+08 1.084E+08

SUBLAYER 2

IN SOIL MOI 7.111E+07 7.778E+07 8.516E+07 1.012E+08 1.012E+08 9.713E+07 8.997E+07 8.401E+07 8.007E+07 7.725E+07 7.496E+07 7.233E+07
ADS ON SOIL 4.844E+08 4.807E+08 4.772E+08 4.704E+08 4.683E+08 4.672E+08 4.692E+08 4.707E+08 4.722E+08 4.742E+08 4.747E+08 4.747E+08
IN SOIL AIR 1.434E+08 1.389E+08 1.333E+08 1.201E+08 1.190E+08 1.214E+08 1.251E+08 1.291E+08 1.315E+08 1.323E+08 1.340E+08 1.364E+08

SUBLAYER 3

IN SOIL MOI 9.153E+07 1.001E+08 1.096E+08 1.303E+08 1.304E+08 1.251E+08 1.159E+08 1.082E+08 1.031E+08 9.948E+07 9.653E+07 9.315E+07
ADS ON SOIL 6.234E+08 6.189E+08 6.144E+08 6.057E+08 6.030E+08 6.017E+08 6.042E+08 6.062E+08 6.081E+08 6.106E+08 6.112E+08 6.113E+08
IN SOIL AIR 1.846E+08 1.788E+08 1.716E+08 1.547E+08 1.532E+08 1.563E+08 1.611E+08 1.663E+08 1.693E+08 1.703E+08 1.726E+08 1.756E+08

SUBLAYER 4

IN SOIL MOI 1.195E+08 1.308E+08 1.433E+08 1.703E+08 1.705E+08 1.636E+08 1.516E+08 1.415E+08 1.349E+08 1.301E+08 1.263E+08 1.219E+08
ADS ON SOIL 8.139E+08 8.083E+08 8.027E+08 7.918E+08 7.885E+08 7.870E+08 7.904E+08 7.930E+08 7.955E+08 7.988E+08 7.997E+08 7.998E+08
IN SOIL AIR 2.410E+08 2.335E+08 2.242E+08 2.022E+08 2.003E+08 2.045E+08 2.108E+08 2.175E+08 2.215E+08 2.228E+08 2.258E+08 2.298E+08

SUBLAYER 5

IN SOIL MOI 1.538E+08 1.685E+08 1.847E+08 2.199E+08 2.203E+08 2.116E+08 1.962E+08 1.832E+08 1.746E+08 1.685E+08 1.635E+08 1.578E+08
ADS ON SOIL 1.048E+09 1.041E+09 1.035E+09 1.022E+09 1.019E+09 1.018E+09 1.023E+09 1.026E+09 1.030E+09 1.034E+09 1.035E+09 1.035E+09
IN SOIL AIR 3.103E+08 3.008E+08 2.891E+08 2.611E+08 2.589E+08 2.645E+08 2.728E+08 2.816E+08 2.867E+08 2.885E+08 2.923E+08 2.974E+08

SUBLAYER 6

IN SOIL MOI 1.857E+08 2.036E+08 2.235E+08 2.668E+08 2.678E+08 2.577E+08 2.391E+08 2.233E+08 2.129E+08 2.054E+08 1.993E+08 1.924E+08
ADS ON SOIL 1.265E+09 1.259E+09 1.253E+09 1.241E+09 1.239E+09 1.240E+09 1.247E+09 1.251E+09 1.255E+09 1.261E+09 1.262E+09 1.263E+09
IN SOIL AIR 3.745E+08 3.636E+08 3.499E+08 3.168E+08 3.148E+08 3.221E+08 3.325E+08 3.433E+08 3.495E+08 3.517E+08 3.563E+08 3.627E+08

SUBLAYER 7

IN SOIL MOI 1.975E+08 2.169E+08 2.386E+08 2.858E+08 2.878E+08 2.775E+08 2.579E+08 2.409E+08 2.297E+08 2.216E+08 2.151E+08 2.076E+08
ADS ON SOIL 1.345E+09 1.341E+09 1.337E+09 1.329E+09 1.331E+09 1.335E+09 1.345E+09 1.350E+09 1.354E+09 1.360E+09 1.362E+09 1.363E+09
IN SOIL AIR 3.983E+08 3.873E+08 3.734E+08 3.393E+08 3.382E+08 3.469E+08 3.587E+08 3.704E+08 3.771E+08 3.795E+08 3.845E+08 3.915E+08

SUBLAYER 8

IN SOIL MOI 1.740E+08 1.914E+08 2.109E+08 2.539E+08 2.566E+08 2.483E+08 2.311E+08 2.160E+08 2.060E+08 1.987E+08 1.929E+08 1.863E+08
ADS ON SOIL 1.185E+09 1.183E+09 1.182E+09 1.180E+09 1.187E+09 1.194E+09 1.205E+09 1.210E+09 1.215E+09 1.220E+09 1.221E+09 1.223E+09
IN SOIL AIR 3.509E+08 3.418E+08 3.302E+08 3.014E+08 3.015E+08 3.104E+08 3.214E+08 3.321E+08 3.382E+08 3.403E+08 3.448E+08 3.512E+08

SUBLAYER 9

IN SOIL MOI 1.200E+08 1.321E+08 1.458E+08 1.764E+08 1.792E+08 1.740E+08 1.623E+08 1.518E+08 1.448E+08 1.397E+08 1.356E+08 1.310E+08
ADS ON SOIL 8.171E+08 8.166E+08 8.172E+08 8.203E+08 8.287E+08 8.372E+08 8.464E+08 8.507E+08 8.538E+08 8.575E+08 8.586E+08 8.596E+08
SOIL AIR 2.419E+08 2.359E+08 2.283E+08 2.095E+08 2.106E+08 2.175E+08 2.258E+08 2.334E+08 2.377E+08 2.392E+08 2.424E+08 2.469E+08

SUBLAYER 10

IN SOIL MOI 6.199E+07 6.829E+07 7.540E+07 9.167E+07 9.357E+07 9.125E+07 8.529E+07 7.984E+07 7.616E+07 7.349E+07 7.133E+07 6.890E+07
ADS ON SOIL 4.222E+08 4.221E+08 4.225E+08 4.262E+08 4.328E+08 4.390E+08 4.447E+08 4.474E+08 4.491E+08 4.511E+08 4.517E+08 4.522E+08
IN SOIL AIR 1.250E+08 1.219E+08 1.180E+08 1.088E+08 1.100E+08 1.141E+08 1.186E+08 1.227E+08 1.251E+08 1.258E+08 1.275E+08 1.299E+08
GWR. RUNOFF 0.000E+00 0.000E+00 4.949E+05 5.932E+06 6.434E+06 5.072E+06 2.697E+06 1.136E+06 4.185E+05 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 1.064E+00 1.055E+00 1.047E+00 1.032E+00 1.028E+00 1.026E+00 1.030E+00 1.034E+00 1.037E+00 1.041E+00 1.042E+00 1.043E+00
%SOLUBILITY 4.432E-01 4.397E-01 4.362E-01 4.301E-01 4.283E-01 4.274E-01 4.292E-01 4.307E-01 4.321E-01 4.339E-01 4.344E-01 4.344E-01
ADSORBED 3.601E-01 3.572E-01 3.544E-01 3.494E-01 3.480E-01 3.473E-01 3.487E-01 3.500E-01 3.511E-01 3.525E-01 3.529E-01 3.529E-01
SOIL AIR 7.714E-01 7.750E-01 7.764E-01 7.751E-01 7.705E-01 7.676E-01 7.562E-01 7.529E-01 7.490E-01 7.407E-01 7.410E-01 7.435E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 8.517E-01 8.452E-01 8.389E-01 8.270E-01 8.233E-01 8.216E-01 8.250E-01 8.278E-01 8.304E-01 8.339E-01 8.347E-01 8.348E-01
%SOLUBILITY 3.549E-01 3.522E-01 3.496E-01 3.446E-01 3.431E-01 3.423E-01 3.437E-01 3.449E-01 3.460E-01 3.475E-01 3.478E-01 3.478E-01
ADSORBED 2.883E-01 2.861E-01 2.840E-01 2.800E-01 2.787E-01 2.781E-01 2.793E-01 2.802E-01 2.811E-01 2.823E-01 2.826E-01 2.826E-01
SOIL AIR 6.176E-01 6.208E-01 6.222E-01 6.211E-01 6.172E-01 6.148E-01 6.056E-01 6.029E-01 5.997E-01 5.931E-01 5.933E-01 5.954E-01

SUBLAYER 2

MOISTURE 1.072E+00 1.064E+00 1.056E+00 1.041E+00 1.036E+00 1.034E+00 1.038E+00 1.042E+00 1.045E+00 1.049E+00 1.050E+00 1.050E+00
%SOLUBILITY 4.466E-01 4.432E-01 4.400E-01 4.337E-01 4.317E-01 4.308E-01 4.325E-01 4.340E-01 4.353E-01 4.372E-01 4.376E-01 4.377E-01
ADSORBED 3.628E-01 3.601E-01 3.574E-01 3.524E-01 3.508E-01 3.500E-01 3.514E-01 3.526E-01 3.537E-01 3.552E-01 3.555E-01 3.556E-01
SOIL AIR 7.772E-01 7.813E-01 7.830E-01 7.817E-01 7.767E-01 7.736E-01 7.621E-01 7.586E-01 7.546E-01 7.463E-01 7.466E-01 7.492E-01

SUBLAYER 3

MOISTURE 1.379E+00 1.369E+00 1.359E+00 1.340E+00 1.334E+00 1.331E+00 1.337E+00 1.341E+00 1.345E+00 1.351E+00 1.353E+00 1.353E+00
%SOLUBILITY 5.748E-01 5.706E-01 5.665E-01 5.585E-01 5.559E-01 5.547E-01 5.570E-01 5.589E-01 5.606E-01 5.630E-01 5.635E-01 5.636E-01
ADSORBED 4.670E-01 4.636E-01 4.602E-01 4.537E-01 4.517E-01 4.507E-01 4.525E-01 4.540E-01 4.555E-01 4.574E-01 4.578E-01 4.579E-01
SOIL AIR 1.000E+00 1.006E+00 1.008E+00 1.007E+00 1.000E+00 9.962E-01 9.813E-01 9.769E-01 9.717E-01 9.610E-01 9.614E-01 9.648E-01

SUBLAYER 4

MOISTURE 1.801E+00 1.788E+00 1.776E+00 1.752E+00 1.745E+00 1.741E+00 1.749E+00 1.755E+00 1.760E+00 1.768E+00 1.769E+00 1.770E+00
%SOLUBILITY 7.504E-01 7.452E-01 7.401E-01 7.300E-01 7.269E-01 7.255E-01 7.287E-01 7.311E-01 7.334E-01 7.365E-01 7.373E-01 7.374E-01
ADSORBED 6.097E-01 6.054E-01 6.013E-01 5.931E-01 5.906E-01 5.895E-01 5.920E-01 5.940E-01 5.958E-01 5.984E-01 5.990E-01 5.991E-01
SOIL AIR 1.306E+00 1.314E+00 1.317E+00 1.316E+00 1.308E+00 1.303E+00 1.284E+00 1.278E+00 1.271E+00 1.257E+00 1.258E+00 1.262E+00

SUBLAYER 5

MOISTURE 2.319E+00 2.304E+00 2.290E+00 2.262E+00 2.255E+00 2.253E+00 2.263E+00 2.271E+00 2.278E+00 2.288E+00 2.290E+00 2.291E+00
%SOLUBILITY 9.661E-01 9.601E-01 9.543E-01 9.426E-01 9.396E-01 9.386E-01 9.431E-01 9.463E-01 9.493E-01 9.533E-01 9.543E-01 9.546E-01
ADSORBED 7.849E-01 7.800E-01 7.753E-01 7.658E-01 7.633E-01 7.625E-01 7.662E-01 7.688E-01 7.712E-01 7.745E-01 7.754E-01 7.756E-01
SOIL AIR 1.681E+00 1.692E+00 1.699E+00 1.699E+00 1.690E+00 1.686E+00 1.662E+00 1.654E+00 1.645E+00 1.627E+00 1.628E+00 1.634E+00

SUBLAYER 6

MOISTURE 2.799E+00 2.785E+00 2.772E+00 2.745E+00 2.741E+00 2.743E+00 2.759E+00 2.769E+00 2.777E+00 2.789E+00 2.792E+00 2.794E+00
%SOLUBILITY 1.166E+00 1.160E+00 1.155E+00 1.144E+00 1.142E+00 1.143E+00 1.149E+00 1.154E+00 1.157E+00 1.162E+00 1.164E+00 1.164E+00
ADSORBED 9.474E-01 9.427E-01 9.383E-01 9.292E-01 9.280E-01 9.285E-01 9.339E-01 9.372E-01 9.402E-01 9.442E-01 9.453E-01 9.457E-01
SOIL AIR 2.030E+00 2.045E+00 2.056E+00 2.061E+00 2.055E+00 2.053E+00 2.025E+00 2.016E+00 2.006E+00 1.984E+00 1.985E+00 1.993E+00

SUBLAYER 7

MOISTURE 2.977E+00 2.967E+00 2.958E+00 2.940E+00 2.945E+00 2.954E+00 2.975E+00 2.987E+00 2.997E+00 3.010E+00 3.013E+00 3.015E+00
%SOLUBILITY 1.240E+00 1.236E+00 1.233E+00 1.225E+00 1.227E+00 1.231E+00 1.240E+00 1.245E+00 1.249E+00 1.254E+00 1.256E+00 1.256E+00
ADSORBED 1.008E+00 1.004E+00 1.001E+00 9.953E-01 9.970E-01 1.000E+00 1.007E+00 1.011E+00 1.014E+00 1.019E+00 1.020E+00 1.021E+00
SOIL AIR 2.159E+00 2.179E+00 2.194E+00 2.208E+00 2.208E+00 2.211E+00 2.184E+00 2.176E+00 2.164E+00 2.141E+00 2.142E+00 2.151E+00

SUBLAYER 8

MOISTURE 2.623E+00 2.618E+00 2.615E+00 2.612E+00 2.626E+00 2.643E+00 2.667E+00 2.678E+00 2.687E+00 2.699E+00 2.703E+00 2.705E+00
%SOLUBILITY 1.093E+00 1.091E+00 1.090E+00 1.088E+00 1.094E+00 1.101E+00 1.111E+00 1.116E+00 1.120E+00 1.125E+00 1.126E+00 1.127E+00
ADSORBED 8.878E-01 8.862E-01 8.853E-01 8.841E-01 8.890E-01 8.947E-01 9.027E-01 9.067E-01 9.098E-01 9.137E-01 9.149E-01 9.157E-01
SOIL AIR 1.902E+00 1.923E+00 1.939E+00 1.961E+00 1.969E+00 1.978E+00 1.957E+00 1.951E+00 1.941E+00 1.920E+00 1.921E+00 1.929E+00

SUBLAYER 9

MOISTURE 1.808E+00 1.807E+00 1.808E+00 1.815E+00 1.834E+00 1.853E+00 1.873E+00 1.882E+00 1.889E+00 1.897E+00 1.900E+00 1.902E+00
%SOLUBILITY 7.533E-01 7.529E-01 7.534E-01 7.562E-01 7.640E-01 7.719E-01 7.803E-01 7.843E-01 7.872E-01 7.906E-01 7.916E-01 7.925E-01

ADSORBED 6.120E-01 6.117E-01 6.121E-01 6.144E-01 6.207E-01 6.271E-01 6.340E-01 6.372E-01 6.395E-01 6.423E-01 6.432E-01 6.439E-01
OIL AIR 1.311E+00 1.327E+00 1.341E+00 1.363E+00 1.375E+00 1.386E+00 1.375E+00 1.371E+00 1.364E+00 1.350E+00 1.350E+00 1.357E+00

SUBLAYER 10

MOISTURE 9.343E-01 9.339E-01 9.350E-01 9.431E-01 9.576E-01 9.713E-01 9.840E-01 9.899E-01 9.938E-01 9.981E-01 9.994E-01 1.001E+00
%SOLUBILITY 3.893E-01 3.891E-01 3.896E-01 3.929E-01 3.990E-01 4.047E-01 4.100E-01 4.125E-01 4.141E-01 4.159E-01 4.164E-01 4.169E-01
ADSORBED 3.163E-01 3.161E-01 3.165E-01 3.192E-01 3.242E-01 3.288E-01 3.331E-01 3.351E-01 3.364E-01 3.379E-01 3.383E-01 3.387E-01
SOIL AIR 6.775E-01 6.859E-01 6.934E-01 7.082E-01 7.179E-01 7.268E-01 7.223E-01 7.210E-01 7.177E-01 7.099E-01 7.104E-01 7.136E-01

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 1.936E-04 2.327E-03 2.521E-03 1.986E-03 1.054E-03 4.431E-04 1.633E-04 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 60 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 2.218E+07

1 – AVERAGE POLLUTANT CONCENTRATIONS – NOTE: ONLY NON-ZERO VALUES ARE PRINTED –

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.040E+00
ADSORBED SOIL (UG/G) 3.520E-01
SOIL AIR (UG/ML) 7.600E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 8.329E-01
ADSORBED SOIL (UG/G) 2.819E-01
SOIL AIR (UG/ML) 6.086E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.048E+00
ADSORBED SOIL (UG/G) 3.548E-01
SOIL AIR (UG/ML) 7.659E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 1.349E+00

ADSORBED SOIL (UG/G) 4.568E-01
SOIL AIR (UG/ML) 9.862E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 1.765E+00
ADSORBED SOIL (UG/G) 5.973E-01
SOIL AIR (UG/ML) 1.289E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 2.280E+00
ADSORBED SOIL (UG/G) 7.720E-01
SOIL AIR (UG/ML) 1.666E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 2.772E+00
ADSORBED SOIL (UG/G) 9.384E-01
SOIL AIR (UG/ML) 2.026E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 2.978E+00
ADSORBED SOIL (UG/G) 1.008E+00
SOIL AIR (UG/ML) 2.176E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 2.656E+00
ADSORBED SOIL (UG/G) 8.992E-01
SOIL AIR (UG/ML) 1.941E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 1.856E+00
ADSORBED SOIL (UG/G) 6.282E-01
SOIL AIR (UG/ML) 1.356E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 9.701E-01
ADSORBED SOIL (UG/G) 3.284E-01
SOIL AIR (UG/ML) 7.087E-01

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 7.241E-04
1

YEAR - 70 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685

NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	3.475E+08	3.799E+08	4.157E+08	4.940E+08	4.945E+08	4.745E+08	4.396E+08	4.105E+08	3.913E+08	3.776E+08	3.663E+08	3.535E+08
ADS ON SOIL	2.367E+09	2.348E+09	2.330E+09	2.297E+09	2.287E+09	2.283E+09	2.292E+09	2.300E+09	2.308E+09	2.318E+09	2.320E+09	2.320E+09
IN SOIL AIR	7.009E+08	6.783E+08	6.508E+08	5.865E+08	5.811E+08	5.932E+08	6.115E+08	6.311E+08	6.426E+08	6.465E+08	6.550E+08	6.664E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	4.495E+07	4.916E+07	5.382E+07	6.395E+07	6.400E+07	6.140E+07	5.688E+07	5.311E+07	5.062E+07	4.884E+07	4.739E+07	4.573E+07
ADS ON SOIL	3.062E+08	3.039E+08	3.016E+08	2.973E+08	2.960E+08	2.954E+08	2.966E+08	2.976E+08	2.985E+08	2.998E+08	3.001E+08	3.001E+08
IN SOIL AIR	9.066E+07	8.778E+07	8.425E+07	7.593E+07	7.520E+07	7.675E+07	7.911E+07	8.164E+07	8.313E+07	8.363E+07	8.473E+07	8.621E+07

SUBLAYER 2

IN SOIL MOI	5.662E+07	6.193E+07	6.780E+07	8.056E+07	8.060E+07	7.733E+07	7.163E+07	6.688E+07	6.375E+07	6.151E+07	5.968E+07	5.759E+07
ADS ON SOIL	3.857E+08	3.828E+08	3.799E+08	3.745E+08	3.728E+08	3.720E+08	3.735E+08	3.748E+08	3.760E+08	3.775E+08	3.779E+08	3.780E+08
IN SOIL AIR	1.142E+08	1.106E+08	1.061E+08	9.564E+07	9.472E+07	9.666E+07	9.963E+07	1.028E+08	1.047E+08	1.053E+08	1.067E+08	1.086E+08

SUBLAYER 3

IN SOIL MOI	7.308E+07	7.994E+07	8.753E+07	1.040E+08	1.041E+08	9.983E+07	9.247E+07	8.634E+07	8.229E+07	7.939E+07	7.704E+07	7.434E+07
ADS ON SOIL	4.978E+08	4.941E+08	4.905E+08	4.835E+08	4.813E+08	4.802E+08	4.822E+08	4.838E+08	4.853E+08	4.873E+08	4.878E+08	4.879E+08
IN SOIL AIR	1.474E+08	1.427E+08	1.370E+08	1.235E+08	1.223E+08	1.248E+08	1.286E+08	1.327E+08	1.351E+08	1.360E+08	1.377E+08	1.402E+08

SUBLAYER 4

IN SOIL MOI 9.684E+07 1.060E+08 1.160E+08 1.379E+08 1.380E+08 1.324E+08 1.226E+08 1.145E+08 1.091E+08 1.053E+08 1.022E+08 9.859E+07
ADS ON SOIL 6.596E+08 6.549E+08 6.503E+08 6.412E+08 6.382E+08 6.368E+08 6.395E+08 6.416E+08 6.436E+08 6.463E+08 6.470E+08 6.471E+08
IN SOIL AIR 1.953E+08 1.892E+08 1.816E+08 1.637E+08 1.622E+08 1.655E+08 1.706E+08 1.760E+08 1.792E+08 1.803E+08 1.827E+08 1.859E+08

SUBLAYER 5

IN SOIL MOI 1.301E+08 1.425E+08 1.561E+08 1.856E+08 1.858E+08 1.783E+08 1.652E+08 1.543E+08 1.471E+08 1.419E+08 1.377E+08 1.329E+08
ADS ON SOIL 8.864E+08 8.805E+08 8.747E+08 8.630E+08 8.594E+08 8.579E+08 8.617E+08 8.645E+08 8.672E+08 8.709E+08 8.718E+08 8.720E+08
IN SOIL AIR 2.625E+08 2.543E+08 2.443E+08 2.204E+08 2.184E+08 2.229E+08 2.298E+08 2.372E+08 2.415E+08 2.429E+08 2.461E+08 2.505E+08

SUBLAYER 6

IN SOIL MOI 1.711E+08 1.875E+08 2.056E+08 2.449E+08 2.455E+08 2.358E+08 2.186E+08 2.041E+08 1.946E+08 1.877E+08 1.822E+08 1.758E+08
ADS ON SOIL 1.166E+09 1.159E+09 1.152E+09 1.139E+09 1.135E+09 1.134E+09 1.140E+09 1.144E+09 1.148E+09 1.152E+09 1.154E+09 1.154E+09
IN SOIL AIR 3.452E+08 3.348E+08 3.219E+08 2.908E+08 2.884E+08 2.948E+08 3.041E+08 3.138E+08 3.195E+08 3.215E+08 3.257E+08 3.315E+08

SUBLAYER 7

IN SOIL MOI 2.076E+08 2.278E+08 2.501E+08 2.988E+08 3.000E+08 2.888E+08 2.680E+08 2.503E+08 2.386E+08 2.302E+08 2.234E+08 2.157E+08
ADS ON SOIL 1.414E+09 1.408E+09 1.402E+09 1.389E+09 1.388E+09 1.389E+09 1.397E+09 1.403E+09 1.407E+09 1.413E+09 1.415E+09 1.415E+09
IN SOIL AIR 4.187E+08 4.066E+08 3.916E+08 3.547E+08 3.526E+08 3.610E+08 3.727E+08 3.848E+08 3.918E+08 3.942E+08 3.994E+08 4.066E+08

SUBLAYER 8

IN SOIL MOI 2.166E+08 2.379E+08 2.617E+08 3.138E+08 3.161E+08 3.051E+08 2.835E+08 2.649E+08 2.525E+08 2.436E+08 2.365E+08 2.283E+08
ADS ON SOIL 1.475E+09 1.470E+09 1.467E+09 1.459E+09 1.462E+09 1.467E+09 1.478E+09 1.484E+09 1.489E+09 1.496E+09 1.497E+09 1.498E+09
IN SOIL AIR 4.368E+08 4.248E+08 4.097E+08 3.726E+08 3.715E+08 3.813E+08 3.943E+08 4.072E+08 4.147E+08 4.172E+08 4.228E+08 4.304E+08

SUBLAYER 9

IN SOIL MOI 1.806E+08 1.987E+08 2.189E+08 2.637E+08 2.667E+08 2.582E+08 2.404E+08 2.247E+08 2.143E+08 2.067E+08 2.006E+08 1.938E+08
ADS ON SOIL 1.230E+09 1.228E+09 1.227E+09 1.226E+09 1.233E+09 1.242E+09 1.253E+09 1.259E+09 1.264E+09 1.269E+09 1.271E+09 1.272E+09
IN SOIL AIR 3.642E+08 3.547E+08 3.427E+08 3.130E+08 3.134E+08 3.227E+08 3.343E+08 3.454E+08 3.518E+08 3.540E+08 3.587E+08 3.653E+08

SUBLAYER 10

IN SOIL MOI 1.120E+08 1.233E+08 1.360E+08 1.646E+08 1.673E+08 1.626E+08 1.516E+08 1.419E+08 1.353E+08 1.306E+08 1.267E+08 1.224E+08
ADS ON SOIL 7.629E+08 7.619E+08 7.619E+08 7.651E+08 7.736E+08 7.820E+08 7.908E+08 7.950E+08 7.979E+08 8.014E+08 8.024E+08 8.032E+08
IN SOIL AIR 2.259E+08 2.201E+08 2.128E+08 1.954E+08 1.965E+08 2.032E+08 2.109E+08 2.181E+08 2.222E+08 2.236E+08 2.266E+08 2.307E+08
GWR. RUNOFF 0.000E+00 0.000E+00 8.930E+05 1.067E+07 1.152E+07 9.050E+06 4.799E+06 2.018E+06 7.437E+05 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 8.465E-01 8.397E-01 8.331E-01 8.213E-01 8.179E-01 8.163E-01 8.198E-01 8.227E-01 8.253E-01 8.288E-01 8.296E-01 8.297E-01
%SOLUBILITY 3.527E-01 3.499E-01 3.471E-01 3.422E-01 3.408E-01 3.401E-01 3.416E-01 3.428E-01 3.439E-01 3.453E-01 3.457E-01 3.457E-01
ADSORBED 2.865E-01 2.843E-01 2.820E-01 2.780E-01 2.769E-01 2.763E-01 2.775E-01 2.785E-01 2.794E-01 2.806E-01 2.808E-01 2.809E-01
SOIL AIR 6.138E-01 6.167E-01 6.178E-01 6.168E-01 6.132E-01 6.109E-01 6.018E-01 5.992E-01 5.961E-01 5.895E-01 5.897E-01 5.917E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 6.775E-01 6.724E-01 6.674E-01 6.579E-01 6.550E-01 6.536E-01 6.563E-01 6.585E-01 6.606E-01 6.634E-01 6.640E-01 6.641E-01
%SOLUBILITY 2.823E-01 2.801E-01 2.781E-01 2.741E-01 2.729E-01 2.723E-01 2.735E-01 2.744E-01 2.752E-01 2.764E-01 2.767E-01 2.767E-01
ADSORBED 2.293E-01 2.276E-01 2.259E-01 2.227E-01 2.217E-01 2.212E-01 2.222E-01 2.229E-01 2.236E-01 2.246E-01 2.248E-01 2.248E-01
SOIL AIR 4.913E-01 4.938E-01 4.949E-01 4.941E-01 4.910E-01 4.890E-01 4.818E-01 4.796E-01 4.771E-01 4.718E-01 4.720E-01 4.736E-01

SUBLAYER 2

MOISTURE 8.533E-01 8.469E-01 8.407E-01 8.287E-01 8.249E-01 8.231E-01 8.265E-01 8.293E-01 8.319E-01 8.354E-01 8.362E-01 8.364E-01
%SOLUBILITY 3.556E-01 3.529E-01 3.503E-01 3.453E-01 3.437E-01 3.430E-01 3.444E-01 3.455E-01 3.466E-01 3.481E-01 3.484E-01 3.485E-01
ADSORBED 2.889E-01 2.867E-01 2.846E-01 2.805E-01 2.793E-01 2.786E-01 2.798E-01 2.807E-01 2.816E-01 2.828E-01 2.831E-01 2.831E-01
SOIL AIR 6.188E-01 6.220E-01 6.235E-01 6.224E-01 6.184E-01 6.159E-01 6.067E-01 6.040E-01 6.008E-01 5.942E-01 5.944E-01 5.965E-01

SUBLAYER 3

MOISTURE 1.101E+00 1.093E+00 1.085E+00 1.070E+00 1.065E+00 1.063E+00 1.067E+00 1.070E+00 1.074E+00 1.078E+00 1.079E+00 1.080E+00
%SOLUBILITY 4.589E-01 4.555E-01 4.522E-01 4.458E-01 4.437E-01 4.427E-01 4.446E-01 4.460E-01 4.474E-01 4.493E-01 4.498E-01 4.498E-01
ADSORBED 3.729E-01 3.701E-01 3.674E-01 3.622E-01 3.605E-01 3.597E-01 3.612E-01 3.624E-01 3.635E-01 3.650E-01 3.654E-01 3.655E-01
SOIL AIR 7.987E-01 8.030E-01 8.049E-01 8.035E-01 7.983E-01 7.951E-01 7.832E-01 7.797E-01 7.756E-01 7.670E-01 7.673E-01 7.700E-01

SUBLAYER 4

MOISTURE 1.460E+00 1.449E+00 1.439E+00 1.419E+00 1.412E+00 1.409E+00 1.415E+00 1.420E+00 1.424E+00 1.430E+00 1.432E+00 1.432E+00
%SOLUBILITY 6.082E-01 6.038E-01 5.995E-01 5.911E-01 5.884E-01 5.871E-01 5.896E-01 5.915E-01 5.934E-01 5.959E-01 5.965E-01 5.966E-01
ADSORBED 4.941E-01 4.906E-01 4.871E-01 4.803E-01 4.781E-01 4.770E-01 4.790E-01 4.806E-01 4.821E-01 4.841E-01 4.846E-01 4.847E-01
SOIL AIR 1.058E+00 1.064E+00 1.067E+00 1.065E+00 1.059E+00 1.054E+00 1.039E+00 1.034E+00 1.029E+00 1.017E+00 1.018E+00 1.021E+00

SUBLAYER 5

MOISTURE 1.961E+00 1.948E+00 1.935E+00 1.910E+00 1.902E+00 1.898E+00 1.907E+00 1.913E+00 1.919E+00 1.927E+00 1.929E+00 1.929E+00
%SOLUBILITY 8.173E-01 8.118E-01 8.064E-01 7.957E-01 7.924E-01 7.909E-01 7.944E-01 7.971E-01 7.995E-01 8.029E-01 8.038E-01 8.040E-01
ADSORBED 6.640E-01 6.595E-01 6.552E-01 6.464E-01 6.438E-01 6.426E-01 6.454E-01 6.476E-01 6.496E-01 6.523E-01 6.530E-01 6.532E-01
SOIL AIR 1.422E+00 1.431E+00 1.435E+00 1.434E+00 1.426E+00 1.420E+00 1.400E+00 1.393E+00 1.386E+00 1.371E+00 1.371E+00 1.376E+00

SUBLAYER 6

MOISTURE 2.579E+00 2.564E+00 2.550E+00 2.520E+00 2.512E+00 2.510E+00 2.523E+00 2.531E+00 2.539E+00 2.550E+00 2.553E+00 2.554E+00
%SOLUBILITY 1.075E+00 1.068E+00 1.062E+00 1.050E+00 1.047E+00 1.046E+00 1.051E+00 1.055E+00 1.058E+00 1.062E+00 1.064E+00 1.064E+00
ADSORBED 8.731E-01 8.680E-01 8.631E-01 8.530E-01 8.504E-01 8.497E-01 8.539E-01 8.569E-01 8.595E-01 8.632E-01 8.641E-01 8.645E-01
SOIL AIR 1.870E+00 1.883E+00 1.891E+00 1.892E+00 1.883E+00 1.878E+00 1.852E+00 1.844E+00 1.834E+00 1.814E+00 1.815E+00 1.821E+00

SUBLAYER 7

MOISTURE 3.129E+00 3.115E+00 3.102E+00 3.073E+00 3.071E+00 3.074E+00 3.092E+00 3.104E+00 3.113E+00 3.127E+00 3.130E+00 3.132E+00
%SOLUBILITY 1.304E+00 1.298E+00 1.292E+00 1.281E+00 1.279E+00 1.281E+00 1.288E+00 1.293E+00 1.297E+00 1.303E+00 1.304E+00 1.305E+00
ADSORBED 1.059E+00 1.054E+00 1.050E+00 1.040E+00 1.040E+00 1.041E+00 1.047E+00 1.051E+00 1.054E+00 1.058E+00 1.060E+00 1.060E+00
SOIL AIR 2.269E+00 2.288E+00 2.300E+00 2.308E+00 2.302E+00 2.300E+00 2.270E+00 2.260E+00 2.249E+00 2.224E+00 2.225E+00 2.234E+00

SUBLAYER 8

MOISTURE 3.264E+00 3.254E+00 3.245E+00 3.228E+00 3.235E+00 3.247E+00 3.271E+00 3.284E+00 3.295E+00 3.309E+00 3.313E+00 3.316E+00
%SOLUBILITY 1.360E+00 1.356E+00 1.352E+00 1.345E+00 1.348E+00 1.353E+00 1.363E+00 1.368E+00 1.373E+00 1.379E+00 1.380E+00 1.382E+00
ADSORBED 1.105E+00 1.101E+00 1.099E+00 1.093E+00 1.095E+00 1.099E+00 1.107E+00 1.112E+00 1.115E+00 1.120E+00 1.122E+00 1.122E+00
SOIL AIR 2.367E+00 2.390E+00 2.407E+00 2.424E+00 2.425E+00 2.430E+00 2.401E+00 2.392E+00 2.380E+00 2.354E+00 2.355E+00 2.365E+00

SUBLAYER 9

MOISTURE 2.722E+00 2.717E+00 2.714E+00 2.712E+00 2.729E+00 2.748E+00 2.773E+00 2.786E+00 2.796E+00 2.808E+00 2.811E+00 2.814E+00
%SOLUBILITY 1.134E+00 1.132E+00 1.131E+00 1.130E+00 1.137E+00 1.145E+00 1.156E+00 1.161E+00 1.165E+00 1.170E+00 1.171E+00 1.173E+00

ADSORBED 9.214E-01 9.198E-01 9.189E-01 9.182E-01 9.239E-01 9.303E-01 9.389E-01 9.432E-01 9.464E-01 9.505E-01 9.517E-01 9.526E-01
OIL AIR 1.974E+00 1.995E+00 2.013E+00 2.037E+00 2.046E+00 2.056E+00 2.036E+00 2.029E+00 2.019E+00 1.997E+00 1.998E+00 2.007E+00

SUBLAYER 10

MOISTURE 1.688E+00 1.686E+00 1.686E+00 1.693E+00 1.712E+00 1.730E+00 1.750E+00 1.759E+00 1.766E+00 1.773E+00 1.775E+00 1.777E+00
%SOLUBILITY 7.034E-01 7.025E-01 7.025E-01 7.054E-01 7.132E-01 7.209E-01 7.290E-01 7.329E-01 7.356E-01 7.388E-01 7.398E-01 7.405E-01
ADSORBED 5.714E-01 5.707E-01 5.707E-01 5.731E-01 5.795E-01 5.857E-01 5.923E-01 5.955E-01 5.977E-01 6.003E-01 6.010E-01 6.017E-01
SOIL AIR 1.224E+00 1.238E+00 1.250E+00 1.271E+00 1.283E+00 1.295E+00 1.284E+00 1.281E+00 1.275E+00 1.261E+00 1.262E+00 1.268E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 3.490E-04 4.178E-03 4.507E-03 3.538E-03 1.874E-03 7.875E-04 2.901E-04 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 70 ANNUAL SUMMARY REPORT
==========

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
OTAL INFILTRATION (CM) 25.841
OTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 3.970E+07

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 8.276E-01
ADSORBED SOIL (UG/G) 2.801E-01
SOIL AIR (UG/ML) 6.048E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 6.625E-01
ADSORBED SOIL (UG/G) 2.243E-01
SOIL AIR (UG/ML) 4.842E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 8.344E-01
ADSORBED SOIL (UG/G) 2.825E-01
SOIL AIR (UG/ML) 6.098E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 1.077E+00

ADSORBED SOIL (UG/G) 3.646E-01
SOIL AIR (UG/ML) 7.872E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 1.428E+00
ADSORBED SOIL (UG/G) 4.835E-01
SOIL AIR (UG/ML) 1.044E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 1.923E+00
ADSORBED SOIL (UG/G) 6.510E-01
SOIL AIR (UG/ML) 1.405E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 2.540E+00
ADSORBED SOIL (UG/G) 8.600E-01
SOIL AIR (UG/ML) 1.856E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 3.105E+00
ADSORBED SOIL (UG/G) 1.051E+00
SOIL AIR (UG/ML) 2.269E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 3.272E+00
ADSORBED SOIL (UG/G) 1.108E+00
SOIL AIR (UG/ML) 2.391E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 2.761E+00
ADSORBED SOIL (UG/G) 9.347E-01
SOIL AIR (UG/ML) 2.017E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 1.733E+00
ADSORBED SOIL (UG/G) 5.866E-01
SOIL AIR (UG/ML) 1.266E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 1.294E-03
1

YEAR - 80 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392

EVAPOTRANS. (CM) 1.064 2.241 2.405 3.094 4.046 4.331 3.306 1.349 0.720 0.570 0.535 0.913
MOIS. RETEN (CM) -0.427 1.152 1.280 2.815 0.085 -0.640 -1.237 -1.024 -0.682 -0.512 -0.384 -0.427
SUR. RUNOFF (CM) 0.087 0.675 0.658 1.675 1.406 0.822 0.276 0.105 0.022 0.000 0.472 0.293
GRW. RUNOFF (CM) -0.148 -0.080 0.038 0.453 0.483 0.375 0.196 0.082 0.030 -0.014 -0.057 -0.095
YIELD (CM) -0.061 0.595 0.696 2.128 1.889 1.197 0.472 0.187 0.052 -0.007 0.415 0.199

PAU/MPA (GZU) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008
PA/MPA (GZ) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

PRECIP. 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD UPPER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 2.766E+08 3.024E+08 3.309E+08 3.932E+08 3.936E+08 3.777E+08 3.499E+08 3.268E+08 3.115E+08 3.005E+08 2.916E+08 2.814E+08
ADS ON SOIL 1.884E+09 1.869E+09 1.854E+09 1.828E+09 1.820E+09 1.817E+09 1.825E+09 1.831E+09 1.837E+09 1.845E+09 1.846E+09 1.847E+09
IN SOIL AIR 5.578E+08 5.399E+08 5.180E+08 4.668E+08 4.625E+08 4.721E+08 4.867E+08 5.023E+08 5.115E+08 5.146E+08 5.213E+08 5.304E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 3.577E+07 3.913E+07 4.283E+07 5.090E+07 5.093E+07 4.886E+07 4.527E+07 4.227E+07 4.029E+07 3.887E+07 3.771E+07 3.639E+07
ADS ON SOIL 2.437E+08 2.418E+08 2.400E+08 2.366E+08 2.356E+08 2.351E+08 2.360E+08 2.368E+08 2.376E+08 2.386E+08 2.388E+08 2.388E+08
IN SOIL AIR 7.215E+07 6.986E+07 6.705E+07 6.042E+07 5.985E+07 6.108E+07 6.296E+07 6.497E+07 6.616E+07 6.656E+07 6.743E+07 6.861E+07

SUBLAYER 2

IN SOIL MOI 4.506E+07 4.929E+07 5.396E+07 6.411E+07 6.415E+07 6.154E+07 5.701E+07 5.323E+07 5.074E+07 4.895E+07 4.750E+07 4.583E+07
ADS ON SOIL 3.069E+08 3.046E+08 3.024E+08 2.981E+08 2.967E+08 2.961E+08 2.973E+08 2.983E+08 2.992E+08 3.005E+08 3.008E+08 3.008E+08
IN SOIL AIR 9.088E+07 8.800E+07 8.447E+07 7.612E+07 7.539E+07 7.693E+07 7.929E+07 8.183E+07 8.332E+07 8.382E+07 8.492E+07 8.641E+07

SUBLAYER 3

IN SOIL MOI 5.824E+07 6.372E+07 6.976E+07 8.289E+07 8.293E+07 7.955E+07 7.369E+07 6.880E+07 6.558E+07 6.327E+07 6.140E+07 5.925E+07
ADS ON SOIL 3.967E+08 3.938E+08 3.909E+08 3.854E+08 3.836E+08 3.827E+08 3.843E+08 3.856E+08 3.868E+08 3.884E+08 3.888E+08 3.888E+08
IN SOIL AIR 1.175E+08 1.138E+08 1.092E+08 9.841E+07 9.745E+07 9.944E+07 1.025E+08 1.058E+08 1.077E+08 1.083E+08 1.098E+08 1.117E+08

SUBLAYER 4

SOIL MOI 7.757E+07 8.487E+07 9.294E+07 1.104E+08 1.105E+08 1.060E+08 9.818E+07 9.166E+07 8.737E+07 8.429E+07 8.179E+07 7.893E+07
ADS ON SOIL 5.284E+08 5.245E+08 5.208E+08 5.134E+08 5.110E+08 5.098E+08 5.119E+08 5.136E+08 5.152E+08 5.174E+08 5.179E+08 5.180E+08
IN SOIL AIR 1.564E+08 1.515E+08 1.455E+08 1.311E+08 1.298E+08 1.325E+08 1.365E+08 1.409E+08 1.435E+08 1.443E+08 1.462E+08 1.488E+08

SUBLAYER 5

IN SOIL MOI 1.065E+08 1.165E+08 1.276E+08 1.517E+08 1.518E+08 1.456E+08 1.349E+08 1.259E+08 1.200E+08 1.158E+08 1.124E+08 1.085E+08
ADS ON SOIL 7.251E+08 7.201E+08 7.152E+08 7.052E+08 7.020E+08 7.005E+08 7.034E+08 7.057E+08 7.079E+08 7.109E+08 7.117E+08 7.118E+08
IN SOIL AIR 2.147E+08 2.080E+08 1.998E+08 1.801E+08 1.784E+08 1.820E+08 1.876E+08 1.936E+08 1.971E+08 1.983E+08 2.009E+08 2.045E+08

SUBLAYER 6

IN SOIL MOI 1.476E+08 1.616E+08 1.772E+08 2.108E+08 2.110E+08 2.026E+08 1.877E+08 1.753E+08 1.671E+08 1.612E+08 1.564E+08 1.509E+08
ADS ON SOIL 1.005E+09 9.990E+08 9.928E+08 9.800E+08 9.761E+08 9.745E+08 9.789E+08 9.822E+08 9.852E+08 9.894E+08 9.904E+08 9.907E+08
IN SOIL AIR 2.977E+08 2.886E+08 2.773E+08 2.502E+08 2.480E+08 2.532E+08 2.611E+08 2.694E+08 2.743E+08 2.760E+08 2.796E+08 2.846E+08

SUBLAYER 7

IN SOIL MOI 1.971E+08 2.161E+08 2.371E+08 2.826E+08 2.834E+08 2.724E+08 2.526E+08 2.359E+08 2.248E+08 2.169E+08 2.105E+08 2.032E+08
ADS ON SOIL 1.343E+09 1.336E+09 1.329E+09 1.314E+09 1.311E+09 1.310E+09 1.317E+09 1.322E+09 1.326E+09 1.331E+09 1.333E+09 1.333E+09
IN SOIL AIR 3.976E+08 3.858E+08 3.712E+08 3.356E+08 3.330E+08 3.405E+08 3.513E+08 3.626E+08 3.692E+08 3.714E+08 3.763E+08 3.830E+08

SUBLAYER 8

IN SOIL MOI 2.360E+08 2.590E+08 2.847E+08 3.403E+08 3.420E+08 3.294E+08 3.058E+08 2.857E+08 2.723E+08 2.627E+08 2.550E+08 2.462E+08
ADS ON SOIL 1.608E+09 1.601E+09 1.595E+09 1.582E+09 1.582E+09 1.585E+09 1.595E+09 1.601E+09 1.606E+09 1.613E+09 1.615E+09 1.616E+09
IN SOIL AIR 4.760E+08 4.625E+08 4.456E+08 4.041E+08 4.020E+08 4.118E+08 4.254E+08 4.391E+08 4.472E+08 4.499E+08 4.559E+08 4.641E+08

SUBLAYER 9

IN SOIL MOI 2.329E+08 2.559E+08 2.817E+08 3.381E+08 3.410E+08 3.293E+08 3.062E+08 2.861E+08 2.728E+08 2.632E+08 2.554E+08 2.467E+08
ADS ON SOIL 1.586E+09 1.582E+09 1.579E+09 1.572E+09 1.577E+09 1.584E+09 1.597E+09 1.603E+09 1.609E+09 1.616E+09 1.618E+09 1.619E+09
IN SOIL AIR 4.697E+08 4.570E+08 4.410E+08 4.014E+08 4.007E+08 4.117E+08 4.259E+08 4.399E+08 4.479E+08 4.507E+08 4.567E+08 4.650E+08

SUBLAYER 10

IN SOIL MOI 1.729E+08 1.902E+08 2.096E+08 2.527E+08 2.560E+08 2.481E+08 2.311E+08 2.161E+08 2.060E+08 1.988E+08 1.929E+08 1.863E+08
ADS ON SOIL 1.178E+09 1.175E+09 1.174E+09 1.175E+09 1.184E+09 1.193E+09 1.205E+09 1.211E+09 1.215E+09 1.220E+09 1.222E+09 1.223E+09
IN SOIL AIR 3.487E+08 3.396E+08 3.280E+08 3.000E+08 3.008E+08 3.101E+08 3.214E+08 3.322E+08 3.383E+08 3.404E+08 3.450E+08 3.513E+08
GWR. RUNOFF 0.000E+00 0.000E+00 1.377E+06 1.642E+07 1.766E+07 1.383E+07 7.318E+06 3.075E+06 1.133E+06 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 6.737E-01 6.683E-01 6.631E-01 6.537E-01 6.510E-01 6.497E-01 6.525E-01 6.548E-01 6.569E-01 6.596E-01 6.603E-01 6.603E-01
%SOLUBILITY 2.807E-01 2.785E-01 2.763E-01 2.724E-01 2.713E-01 2.707E-01 2.719E-01 2.728E-01 2.737E-01 2.749E-01 2.751E-01 2.751E-01
ADSORBED 2.281E-01 2.262E-01 2.245E-01 2.213E-01 2.204E-01 2.200E-01 2.209E-01 2.217E-01 2.224E-01 2.233E-01 2.235E-01 2.235E-01
SOIL AIR 4.886E-01 4.909E-01 4.918E-01 4.910E-01 4.880E-01 4.862E-01 4.790E-01 4.769E-01 4.744E-01 4.692E-01 4.694E-01 4.710E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 5.392E-01 5.351E-01 5.311E-01 5.236E-01 5.212E-01 5.201E-01 5.223E-01 5.241E-01 5.257E-01 5.279E-01 5.284E-01 5.285E-01
%SOLUBILITY 2.247E-01 2.230E-01 2.213E-01 2.182E-01 2.172E-01 2.167E-01 2.176E-01 2.184E-01 2.190E-01 2.200E-01 2.202E-01 2.202E-01
ADSORBED 1.825E-01 1.811E-01 1.798E-01 1.772E-01 1.765E-01 1.761E-01 1.768E-01 1.774E-01 1.780E-01 1.787E-01 1.789E-01 1.789E-01
SOIL AIR 3.910E-01 3.930E-01 3.939E-01 3.932E-01 3.907E-01 3.892E-01 3.834E-01 3.817E-01 3.797E-01 3.755E-01 3.756E-01 3.769E-01

SUBLAYER 2

MOISTURE 6.792E-01 6.741E-01 6.691E-01 6.596E-01 6.565E-01 6.551E-01 6.578E-01 6.600E-01 6.621E-01 6.649E-01 6.655E-01 6.656E-01
%SOLUBILITY 2.830E-01 2.809E-01 2.788E-01 2.748E-01 2.736E-01 2.730E-01 2.741E-01 2.750E-01 2.759E-01 2.770E-01 2.773E-01 2.773E-01
ADSORBED 2.299E-01 2.282E-01 2.265E-01 2.233E-01 2.223E-01 2.218E-01 2.227E-01 2.234E-01 2.241E-01 2.251E-01 2.253E-01 2.253E-01
SOIL AIR 4.925E-01 4.951E-01 4.962E-01 4.953E-01 4.922E-01 4.902E-01 4.829E-01 4.807E-01 4.782E-01 4.729E-01 4.731E-01 4.747E-01

SUBLAYER 3

MOISTURE 8.778E-01 8.713E-01 8.650E-01 8.527E-01 8.487E-01 8.468E-01 8.503E-01 8.531E-01 8.558E-01 8.594E-01 8.603E-01 8.604E-01
%SOLUBILITY 3.658E-01 3.631E-01 3.604E-01 3.553E-01 3.536E-01 3.528E-01 3.543E-01 3.555E-01 3.566E-01 3.581E-01 3.584E-01 3.585E-01
ADSORBED 2.972E-01 2.950E-01 2.928E-01 2.886E-01 2.873E-01 2.867E-01 2.878E-01 2.888E-01 2.897E-01 2.909E-01 2.912E-01 2.913E-01
SOIL AIR 6.366E-01 6.400E-01 6.415E-01 6.404E-01 6.362E-01 6.336E-01 6.242E-01 6.213E-01 6.181E-01 6.113E-01 6.115E-01 6.136E-01

SUBLAYER 4

MOISTURE 1.169E+00 1.161E+00 1.152E+00 1.136E+00 1.131E+00 1.128E+00 1.133E+00 1.137E+00 1.140E+00 1.145E+00 1.146E+00 1.146E+00
%SOLUBILITY 4.871E-01 4.836E-01 4.802E-01 4.733E-01 4.711E-01 4.701E-01 4.720E-01 4.735E-01 4.750E-01 4.770E-01 4.775E-01 4.776E-01
ADSORBED 3.958E-01 3.929E-01 3.901E-01 3.846E-01 3.828E-01 3.819E-01 3.835E-01 3.847E-01 3.859E-01 3.875E-01 3.879E-01 3.880E-01
SOIL AIR 8.478E-01 8.524E-01 8.546E-01 8.532E-01 8.476E-01 8.442E-01 8.315E-01 8.277E-01 8.234E-01 8.143E-01 8.146E-01 8.175E-01

SUBLAYER 5

MOISTURE 1.604E+00 1.593E+00 1.582E+00 1.560E+00 1.553E+00 1.550E+00 1.556E+00 1.562E+00 1.566E+00 1.573E+00 1.575E+00 1.575E+00
%SOLUBILITY 6.685E-01 6.639E-01 6.594E-01 6.502E-01 6.472E-01 6.458E-01 6.485E-01 6.507E-01 6.527E-01 6.554E-01 6.561E-01 6.563E-01
ADSORBED 5.431E-01 5.394E-01 5.357E-01 5.282E-01 5.258E-01 5.247E-01 5.269E-01 5.286E-01 5.303E-01 5.325E-01 5.331E-01 5.332E-01
SOIL AIR 1.164E+00 1.170E+00 1.174E+00 1.172E+00 1.164E+00 1.160E+00 1.143E+00 1.137E+00 1.131E+00 1.119E+00 1.119E+00 1.123E+00

SUBLAYER 6

MOISTURE 2.225E+00 2.211E+00 2.197E+00 2.168E+00 2.160E+00 2.156E+00 2.166E+00 2.173E+00 2.180E+00 2.189E+00 2.192E+00 2.192E+00
%SOLUBILITY 9.270E-01 9.211E-01 9.154E-01 9.035E-01 8.999E-01 8.985E-01 9.025E-01 9.055E-01 9.083E-01 9.122E-01 9.131E-01 9.134E-01
ADSORBED 7.531E-01 7.483E-01 7.437E-01 7.340E-01 7.311E-01 7.300E-01 7.332E-01 7.357E-01 7.379E-01 7.411E-01 7.419E-01 7.421E-01
SOIL AIR 1.613E+00 1.624E+00 1.629E+00 1.628E+00 1.619E+00 1.614E+00 1.590E+00 1.583E+00 1.574E+00 1.557E+00 1.558E+00 1.563E+00

SUBLAYER 7

MOISTURE 2.971E+00 2.955E+00 2.940E+00 2.908E+00 2.900E+00 2.899E+00 2.914E+00 2.924E+00 2.934E+00 2.946E+00 2.949E+00 2.951E+00
%SOLUBILITY 1.238E+00 1.231E+00 1.225E+00 1.212E+00 1.208E+00 1.208E+00 1.214E+00 1.219E+00 1.222E+00 1.228E+00 1.229E+00 1.229E+00
ADSORBED 1.006E+00 1.000E+00 9.953E-01 9.843E-01 9.818E-01 9.815E-01 9.866E-01 9.900E-01 9.931E-01 9.973E-01 9.984E-01 9.988E-01
SOIL AIR 2.155E+00 2.171E+00 2.180E+00 2.184E+00 2.174E+00 2.169E+00 2.139E+00 2.130E+00 2.119E+00 2.095E+00 2.096E+00 2.104E+00

SUBLAYER 8

MOISTURE 3.557E+00 3.542E+00 3.530E+00 3.501E+00 3.501E+00 3.507E+00 3.529E+00 3.542E+00 3.553E+00 3.568E+00 3.573E+00 3.575E+00
%SOLUBILITY 1.482E+00 1.476E+00 1.471E+00 1.459E+00 1.459E+00 1.461E+00 1.470E+00 1.476E+00 1.481E+00 1.487E+00 1.489E+00 1.490E+00
ADSORBED 1.204E+00 1.199E+00 1.195E+00 1.185E+00 1.185E+00 1.187E+00 1.195E+00 1.199E+00 1.203E+00 1.208E+00 1.209E+00 1.210E+00
SOIL AIR 2.579E+00 2.602E+00 2.618E+00 2.629E+00 2.624E+00 2.624E+00 2.590E+00 2.580E+00 2.566E+00 2.538E+00 2.539E+00 2.550E+00

SUBLAYER 9

MOISTURE 3.510E+00 3.500E+00 3.493E+00 3.478E+00 3.490E+00 3.505E+00 3.533E+00 3.548E+00 3.559E+00 3.575E+00 3.579E+00 3.582E+00
%SOLUBILITY 1.462E+00 1.458E+00 1.455E+00 1.449E+00 1.454E+00 1.461E+00 1.472E+00 1.478E+00 1.483E+00 1.490E+00 1.491E+00 1.493E+00
ADSORBED 1.188E+00 1.185E+00 1.182E+00 1.178E+00 1.181E+00 1.187E+00 1.196E+00 1.201E+00 1.205E+00 1.210E+00 1.212E+00 1.213E+00

SOIL AIR 2.545E+00 2.571E+00 2.590E+00 2.612E+00 2.616E+00 2.623E+00 2.594E+00 2.584E+00 2.571E+00 2.543E+00 2.544E+00 2.555E+00

SUBLAYER 10

MOISTURE 2.606E+00 2.601E+00 2.599E+00 2.600E+00 2.620E+00 2.641E+00 2.666E+00 2.679E+00 2.689E+00 2.700E+00 2.704E+00 2.706E+00
%SOLUBILITY 1.086E+00 1.084E+00 1.083E+00 1.083E+00 1.091E+00 1.100E+00 1.111E+00 1.116E+00 1.120E+00 1.125E+00 1.126E+00 1.128E+00
ADSORBED 8.822E-01 8.805E-01 8.797E-01 8.800E-01 8.868E-01 8.939E-01 9.026E-01 9.069E-01 9.101E-01 9.141E-01 9.152E-01 9.161E-01
SOIL AIR 1.890E+00 1.910E+00 1.927E+00 1.952E+00 1.964E+00 1.976E+00 1.957E+00 1.951E+00 1.942E+00 1.921E+00 1.922E+00 1.930E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 5.380E-04 6.415E-03 6.896E-03 5.399E-03 2.856E-03 1.199E-03 4.417E-04 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 80 ANNUAL SUMMARY REPORT
==========

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 6.081E+07

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 6.587E-01
ADSORBED SOIL (UG/G) 2.230E-01
SOIL AIR (UG/ML) 4.813E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 5.273E-01
ADSORBED SOIL (UG/G) 1.785E-01
SOIL AIR (UG/ML) 3.853E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 6.641E-01
ADSORBED SOIL (UG/G) 2.248E-01
SOIL AIR (UG/ML) 4.853E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 8.585E-01
ADSORBED SOIL (UG/G) 2.906E-01

SOIL AIR (UG/ML) 6.274E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 1.144E+00
ADSORBED SOIL (UG/G) 3.871E-01
SOIL AIR (UG/ML) 8.357E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 1.571E+00
ADSORBED SOIL (UG/G) 5.318E-01
SOIL AIR (UG/ML) 1.148E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 2.184E+00
ADSORBED SOIL (UG/G) 7.393E-01
SOIL AIR (UG/ML) 1.596E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 2.933E+00
ADSORBED SOIL (UG/G) 9.928E-01
SOIL AIR (UG/ML) 2.143E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 3.540E+00
ADSORBED SOIL (UG/G) 1.198E+00
SOIL AIR (UG/ML) 2.587E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 3.529E+00
ADSORBED SOIL (UG/G) 1.195E+00
SOIL AIR (UG/ML) 2.579E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 2.651E+00
ADSORBED SOIL (UG/G) 8.973E-01
SOIL AIR (UG/ML) 1.937E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 1.979E-03

1

YEAR - 90 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427

SUR. RUNOFF (CM) 0.087 0.675 0.658 1.675 1.406 0.822 0.276 0.105 0.022 0.000 0.472 0.293
GRW. RUNOFF (CM) -0.148 -0.080 0.038 0.453 0.483 0.375 0.196 0.082 0.030 -0.014 -0.057 -0.095
YIELD (CM) -0.061 0.595 0.696 2.128 1.889 1.197 0.472 0.187 0.052 -0.007 0.415 0.199

PAU/MPA (GZU) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008
PA/MPA (GZ) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

PRECIP. 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD UPPER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 2.201E+08 2.407E+08 2.634E+08 3.129E+08 3.132E+08 3.006E+08 2.785E+08 2.601E+08 2.479E+08 2.392E+08 2.321E+08 2.239E+08
ADS ON SOIL 1.499E+09 1.487E+09 1.476E+09 1.455E+09 1.449E+09 1.446E+09 1.452E+09 1.457E+09 1.462E+09 1.468E+09 1.470E+09 1.470E+09
IN SOIL AIR 4.440E+08 4.297E+08 4.122E+08 3.715E+08 3.681E+08 3.757E+08 3.873E+08 3.998E+08 4.071E+08 4.095E+08 4.149E+08 4.221E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.847E+07 3.114E+07 3.409E+07 4.051E+07 4.053E+07 3.889E+07 3.603E+07 3.364E+07 3.206E+07 3.093E+07 3.002E+07 2.896E+07
ADS ON SOIL 1.939E+08 1.925E+08 1.910E+08 1.883E+08 1.875E+08 1.871E+08 1.879E+08 1.885E+08 1.891E+08 1.899E+08 1.901E+08 1.901E+08
IN SOIL AIR 5.742E+07 5.560E+07 5.336E+07 4.809E+07 4.763E+07 4.861E+07 5.011E+07 5.171E+07 5.265E+07 5.297E+07 5.367E+07 5.460E+07

SUBLAYER 2

IN SOIL MOI 3.586E+07 3.923E+07 4.295E+07 5.103E+07 5.105E+07 4.898E+07 4.537E+07 4.236E+07 4.038E+07 3.896E+07 3.780E+07 3.648E+07
ADS ON SOIL 2.443E+08 2.424E+08 2.407E+08 2.372E+08 2.361E+08 2.356E+08 2.366E+08 2.374E+08 2.381E+08 2.391E+08 2.394E+08 2.394E+08
IN SOIL AIR 7.233E+07 7.004E+07 6.722E+07 6.058E+07 6.000E+07 6.122E+07 6.310E+07 6.512E+07 6.631E+07 6.671E+07 6.759E+07 6.877E+07

SUBLAYER 3

IN SOIL MOI 4.638E+07 5.073E+07 5.555E+07 6.600E+07 6.603E+07 6.334E+07 5.868E+07 5.478E+07 5.222E+07 5.038E+07 4.888E+07 4.717E+07
ADS ON SOIL 3.159E+08 3.136E+08 3.113E+08 3.068E+08 3.054E+08 3.047E+08 3.060E+08 3.070E+08 3.079E+08 3.092E+08 3.096E+08 3.096E+08
IN SOIL AIR 9.354E+07 9.058E+07 8.695E+07 7.835E+07 7.759E+07 7.918E+07 8.161E+07 8.421E+07 8.575E+07 8.627E+07 8.740E+07 8.893E+07

SUBLAYER 4

IN SOIL MOI 6.191E+07 6.773E+07 7.417E+07 8.812E+07 8.816E+07 8.457E+07 7.834E+07 7.314E+07 6.971E+07 6.726E+07 6.526E+07 6.298E+07
DS ON SOIL 4.217E+08 4.186E+08 4.156E+08 4.097E+08 4.078E+08 4.068E+08 4.085E+08 4.098E+08 4.111E+08 4.129E+08 4.133E+08 4.133E+08
N SOIL AIR 1.249E+08 1.209E+08 1.161E+08 1.046E+08 1.036E+08 1.057E+08 1.090E+08 1.124E+08 1.145E+08 1.152E+08 1.167E+08 1.187E+08

SUBLAYER 5

IN SOIL MOI 8.574E+07 9.383E+07 1.028E+08 1.221E+08 1.222E+08 1.172E+08 1.086E+08 1.013E+08 9.660E+07 9.320E+07 9.043E+07 8.727E+07
ADS ON SOIL 5.840E+08 5.799E+08 5.759E+08 5.677E+08 5.650E+08 5.637E+08 5.661E+08 5.679E+08 5.697E+08 5.721E+08 5.727E+08 5.728E+08
IN SOIL AIR 1.729E+08 1.675E+08 1.609E+08 1.450E+08 1.436E+08 1.465E+08 1.510E+08 1.558E+08 1.586E+08 1.596E+08 1.617E+08 1.645E+08

SUBLAYER 6

IN SOIL MOI 1.226E+08 1.342E+08 1.471E+08 1.749E+08 1.750E+08 1.679E+08 1.555E+08 1.452E+08 1.384E+08 1.335E+08 1.296E+08 1.250E+08
ADS ON SOIL 8.351E+08 8.296E+08 8.242E+08 8.129E+08 8.093E+08 8.076E+08 8.110E+08 8.137E+08 8.162E+08 8.196E+08 8.205E+08 8.207E+08
IN SOIL AIR 2.473E+08 2.396E+08 2.302E+08 2.076E+08 2.056E+08 2.098E+08 2.163E+08 2.232E+08 2.273E+08 2.287E+08 2.317E+08 2.358E+08

SUBLAYER 7

IN SOIL MOI 1.752E+08 1.919E+08 2.105E+08 2.506E+08 2.510E+08 2.410E+08 2.234E+08 2.086E+08 1.988E+08 1.918E+08 1.861E+08 1.796E+08
ADS ON SOIL 1.193E+09 1.186E+09 1.180E+09 1.165E+09 1.161E+09 1.159E+09 1.165E+09 1.169E+09 1.172E+09 1.177E+09 1.179E+09 1.179E+09
IN SOIL AIR 3.533E+08 3.427E+08 3.295E+08 2.975E+08 2.949E+08 3.013E+08 3.107E+08 3.206E+08 3.264E+08 3.284E+08 3.328E+08 3.387E+08

SUBLAYER 8

IN SOIL MOI 2.342E+08 2.569E+08 2.821E+08 3.366E+08 3.378E+08 3.248E+08 3.014E+08 2.814E+08 2.682E+08 2.588E+08 2.512E+08 2.425E+08
ADS ON SOIL 1.595E+09 1.588E+09 1.581E+09 1.565E+09 1.562E+09 1.563E+09 1.571E+09 1.577E+09 1.582E+09 1.589E+09 1.590E+09 1.591E+09
IN SOIL AIR 4.724E+08 4.587E+08 4.416E+08 3.996E+08 3.969E+08 4.061E+08 4.191E+08 4.326E+08 4.405E+08 4.432E+08 4.491E+08 4.571E+08

SUBLAYER 9

IN SOIL MOI 2.677E+08 2.940E+08 3.233E+08 3.871E+08 3.895E+08 3.755E+08 3.488E+08 3.258E+08 3.106E+08 2.997E+08 2.909E+08 2.808E+08
ADS ON SOIL 1.823E+09 1.817E+09 1.812E+09 1.800E+09 1.802E+09 1.806E+09 1.819E+09 1.826E+09 1.832E+09 1.840E+09 1.842E+09 1.843E+09
IN SOIL AIR 5.399E+08 5.249E+08 5.061E+08 4.596E+08 4.577E+08 4.694E+08 4.851E+08 5.009E+08 5.101E+08 5.132E+08 5.200E+08 5.294E+08

SUBLAYER 10

IN SOIL MOI 2.354E+08 2.587E+08 2.849E+08 3.425E+08 3.460E+08 3.346E+08 3.113E+08 2.910E+08 2.774E+08 2.677E+08 2.598E+08 2.509E+08
ADS ON SOIL 1.603E+09 1.599E+09 1.596E+09 1.593E+09 1.600E+09 1.610E+09 1.623E+09 1.631E+09 1.636E+09 1.643E+09 1.645E+09 1.647E+09
IN SOIL AIR 4.747E+08 4.619E+08 4.459E+08 4.067E+08 4.066E+08 4.182E+08 4.330E+08 4.473E+08 4.556E+08 4.584E+08 4.645E+08 4.730E+08
GWR. RUNOFF 0.000E+00 0.000E+00 1.873E+06 2.228E+07 2.391E+07 1.867E+07 9.865E+06 4.142E+06 1.525E+06 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 5.362E-01 5.319E-01 5.277E-01 5.203E-01 5.181E-01 5.171E-01 5.193E-01 5.211E-01 5.228E-01 5.250E-01 5.255E-01 5.255E-01
%SOLUBILITY 2.234E-01 2.216E-01 2.199E-01 2.168E-01 2.159E-01 2.155E-01 2.164E-01 2.171E-01 2.178E-01 2.187E-01 2.190E-01 2.190E-01
ADSORBED 1.815E-01 1.801E-01 1.787E-01 1.761E-01 1.754E-01 1.751E-01 1.758E-01 1.764E-01 1.770E-01 1.777E-01 1.779E-01 1.779E-01
SOIL AIR 3.888E-01 3.907E-01 3.914E-01 3.907E-01 3.884E-01 3.869E-01 3.812E-01 3.795E-01 3.776E-01 3.734E-01 3.735E-01 3.748E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.291E-01 4.259E-01 4.227E-01 4.167E-01 4.148E-01 4.140E-01 4.157E-01 4.171E-01 4.184E-01 4.202E-01 4.206E-01 4.206E-01
%SOLUBILITY 1.788E-01 1.774E-01 1.761E-01 1.736E-01 1.729E-01 1.725E-01 1.732E-01 1.738E-01 1.743E-01 1.751E-01 1.752E-01 1.753E-01
ADSORBED 1.453E-01 1.442E-01 1.431E-01 1.411E-01 1.404E-01 1.401E-01 1.407E-01 1.412E-01 1.416E-01 1.422E-01 1.424E-01 1.424E-01
SOIL AIR 3.112E-01 3.128E-01 3.135E-01 3.129E-01 3.110E-01 3.098E-01 3.051E-01 3.038E-01 3.022E-01 2.988E-01 2.990E-01 3.000E-01

SUBLAYER 2

MOISTURE 5.405E-01 5.365E-01 5.325E-01 5.249E-01 5.225E-01 5.213E-01 5.235E-01 5.253E-01 5.269E-01 5.291E-01 5.297E-01 5.297E-01
%SOLUBILITY 2.252E-01 2.235E-01 2.219E-01 2.187E-01 2.177E-01 2.172E-01 2.181E-01 2.189E-01 2.195E-01 2.205E-01 2.207E-01 2.207E-01
ADSORBED 1.830E-01 1.816E-01 1.803E-01 1.777E-01 1.769E-01 1.765E-01 1.772E-01 1.778E-01 1.784E-01 1.791E-01 1.793E-01 1.793E-01
SOIL AIR 3.920E-01 3.940E-01 3.949E-01 3.942E-01 3.917E-01 3.901E-01 3.843E-01 3.826E-01 3.805E-01 3.764E-01 3.765E-01 3.778E-01

SUBLAYER 3

MOISTURE 6.990E-01 6.938E-01 6.888E-01 6.789E-01 6.758E-01 6.742E-01 6.770E-01 6.792E-01 6.814E-01 6.842E-01 6.850E-01 6.850E-01
%SOLUBILITY 2.912E-01 2.891E-01 2.870E-01 2.829E-01 2.816E-01 2.809E-01 2.821E-01 2.830E-01 2.839E-01 2.851E-01 2.854E-01 2.854E-01
ADSORBED 2.366E-01 2.349E-01 2.332E-01 2.298E-01 2.288E-01 2.282E-01 2.292E-01 2.299E-01 2.307E-01 2.316E-01 2.319E-01 2.319E-01
SOIL AIR 5.069E-01 5.096E-01 5.108E-01 5.099E-01 5.066E-01 5.045E-01 4.970E-01 4.947E-01 4.921E-01 4.867E-01 4.869E-01 4.886E-01

SUBLAYER 4

MOISTURE 9.331E-01 9.263E-01 9.197E-01 9.066E-01 9.023E-01 9.002E-01 9.039E-01 9.069E-01 9.097E-01 9.135E-01 9.145E-01 9.146E-01
%SOLUBILITY 3.888E-01 3.860E-01 3.832E-01 3.777E-01 3.759E-01 3.751E-01 3.766E-01 3.779E-01 3.790E-01 3.806E-01 3.810E-01 3.811E-01
ADSORBED 3.159E-01 3.136E-01 3.113E-01 3.069E-01 3.054E-01 3.047E-01 3.060E-01 3.070E-01 3.079E-01 3.092E-01 3.096E-01 3.096E-01
SOIL AIR 6.766E-01 6.803E-01 6.820E-01 6.808E-01 6.764E-01 6.736E-01 6.635E-01 6.605E-01 6.570E-01 6.498E-01 6.500E-01 6.523E-01

SUBLAYER 5

MOISTURE 1.292E+00 1.283E+00 1.274E+00 1.256E+00 1.250E+00 1.247E+00 1.253E+00 1.257E+00 1.260E+00 1.266E+00 1.267E+00 1.267E+00
%SOLUBILITY 5.384E-01 5.347E-01 5.309E-01 5.234E-01 5.210E-01 5.198E-01 5.219E-01 5.236E-01 5.252E-01 5.274E-01 5.280E-01 5.281E-01
ADSORBED 4.375E-01 4.344E-01 4.314E-01 4.253E-01 4.232E-01 4.223E-01 4.240E-01 4.254E-01 4.267E-01 4.285E-01 4.289E-01 4.290E-01
SOIL AIR 9.371E-01 9.424E-01 9.450E-01 9.434E-01 9.373E-01 9.334E-01 9.194E-01 9.152E-01 9.104E-01 9.003E-01 9.007E-01 9.039E-01

SUBLAYER 6

MOISTURE 1.848E+00 1.836E+00 1.824E+00 1.799E+00 1.791E+00 1.787E+00 1.795E+00 1.800E+00 1.806E+00 1.814E+00 1.816E+00 1.816E+00
%SOLUBILITY 7.699E-01 7.648E-01 7.598E-01 7.495E-01 7.461E-01 7.446E-01 7.477E-01 7.502E-01 7.525E-01 7.557E-01 7.565E-01 7.567E-01
ADSORBED 6.255E-01 6.214E-01 6.173E-01 6.089E-01 6.062E-01 6.049E-01 6.075E-01 6.095E-01 6.114E-01 6.139E-01 6.146E-01 6.147E-01
SOIL AIR 1.340E+00 1.348E+00 1.352E+00 1.351E+00 1.342E+00 1.337E+00 1.317E+00 1.311E+00 1.304E+00 1.290E+00 1.291E+00 1.295E+00

SUBLAYER 7

MOISTURE 2.640E+00 2.625E+00 2.610E+00 2.578E+00 2.569E+00 2.565E+00 2.577E+00 2.586E+00 2.594E+00 2.605E+00 2.608E+00 2.609E+00
%SOLUBILITY 1.100E+00 1.094E+00 1.088E+00 1.074E+00 1.070E+00 1.069E+00 1.074E+00 1.078E+00 1.081E+00 1.085E+00 1.087E+00 1.087E+00
ADSORBED 8.939E-01 8.886E-01 8.836E-01 8.726E-01 8.695E-01 8.684E-01 8.725E-01 8.754E-01 8.781E-01 8.818E-01 8.828E-01 8.831E-01
SOIL AIR 1.915E+00 1.928E+00 1.936E+00 1.936E+00 1.925E+00 1.920E+00 1.892E+00 1.883E+00 1.873E+00 1.853E+00 1.854E+00 1.861E+00

SUBLAYER 8

MOISTURE 3.530E+00 3.513E+00 3.498E+00 3.463E+00 3.457E+00 3.458E+00 3.477E+00 3.489E+00 3.500E+00 3.515E+00 3.519E+00 3.521E+00
%SOLUBILITY 1.471E+00 1.464E+00 1.457E+00 1.443E+00 1.440E+00 1.441E+00 1.449E+00 1.454E+00 1.458E+00 1.465E+00 1.466E+00 1.467E+00
ADSORBED 1.195E+00 1.189E+00 1.184E+00 1.172E+00 1.170E+00 1.171E+00 1.177E+00 1.181E+00 1.185E+00 1.190E+00 1.191E+00 1.192E+00
SOIL AIR 2.560E+00 2.580E+00 2.594E+00 2.601E+00 2.591E+00 2.587E+00 2.552E+00 2.541E+00 2.528E+00 2.500E+00 2.502E+00 2.511E+00

SUBLAYER 9

MOISTURE 4.035E+00 4.021E+00 4.009E+00 3.982E+00 3.986E+00 3.997E+00 4.025E+00 4.040E+00 4.053E+00 4.071E+00 4.075E+00 4.078E+00
%SOLUBILITY 1.681E+00 1.675E+00 1.670E+00 1.659E+00 1.661E+00 1.665E+00 1.677E+00 1.683E+00 1.689E+00 1.696E+00 1.698E+00 1.699E+00
ADSORBED 1.366E+00 1.361E+00 1.357E+00 1.348E+00 1.349E+00 1.353E+00 1.362E+00 1.368E+00 1.372E+00 1.378E+00 1.380E+00 1.381E+00
SOIL AIR 2.926E+00 2.953E+00 2.973E+00 2.991E+00 2.988E+00 2.991E+00 2.954E+00 2.942E+00 2.927E+00 2.895E+00 2.897E+00 2.909E+00

SUBLAYER 10

OISTURE 3.547E+00 3.538E+00 3.532E+00 3.524E+00 3.541E+00 3.561E+00 3.592E+00 3.608E+00 3.620E+00 3.636E+00 3.640E+00 3.643E+00
%SOLUBILITY 1.478E+00 1.474E+00 1.472E+00 1.468E+00 1.475E+00 1.484E+00 1.497E+00 1.503E+00 1.508E+00 1.515E+00 1.517E+00 1.518E+00
ADSORBED 1.201E+00 1.198E+00 1.196E+00 1.193E+00 1.199E+00 1.206E+00 1.216E+00 1.221E+00 1.225E+00 1.231E+00 1.232E+00 1.233E+00
SOIL AIR 2.572E+00 2.599E+00 2.620E+00 2.646E+00 2.654E+00 2.665E+00 2.637E+00 2.628E+00 2.615E+00 2.586E+00 2.588E+00 2.598E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 7.313E-04 8.696E-03 9.322E-03 7.283E-03 3.848E-03 1.615E-03 5.948E-04 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 90 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
OTAL GRW RUNOFF (CM) 1.265
OTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 8.227E+07

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 5.242E-01
ADSORBED SOIL (UG/G) 1.775E-01
SOIL AIR (UG/ML) 3.831E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.196E-01
ADSORBED SOIL (UG/G) 1.421E-01
SOIL AIR (UG/ML) 3.067E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 5.285E-01
ADSORBED SOIL (UG/G) 1.789E-01
SOIL AIR (UG/ML) 3.862E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 6.835E-01
ADSORBED SOIL (UG/G) 2.314E-01
SOIL AIR (UG/ML) 4.995E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 9.126E-01
ADSORBED SOIL (UG/G) 3.089E-01
SOIL AIR (UG/ML) 6.669E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 1.264E+00
ADSORBED SOIL (UG/G) 4.280E-01
SOIL AIR (UG/ML) 9.240E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 1.811E+00
ADSORBED SOIL (UG/G) 6.130E-01
SOIL AIR (UG/ML) 1.323E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 2.597E+00
ADSORBED SOIL (UG/G) 8.792E-01
SOIL AIR (UG/ML) 1.898E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 3.495E+00
ADSORBED SOIL (UG/G) 1.183E+00
SOIL AIR (UG/ML) 2.554E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.031E+00
ADSORBED SOIL (UG/G) 1.365E+00
SOIL AIR (UG/ML) 2.946E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 3.582E+00
ADSORBED SOIL (UG/G) 1.213E+00
SOIL AIR (UG/ML) 2.617E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 2.674E-03
1

YEAR - 100 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
UR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
RW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095

YIELD (CM) -0.061 0.595 0.696 2.128 1.889 1.197 0.472 0.187 0.052 -0.007 0.415 0.199

PAU/MPA (GZU) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008
PA/MPA (GZ) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008

1 – POLLUTANT MASS INPUT TO COLUMN (UG) –

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

PRECIP. 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD UPPER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) – NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 1.752E+08 1.915E+08 2.096E+08 2.491E+08 2.493E+08 2.392E+08 2.216E+08 2.070E+08 1.973E+08 1.903E+08 1.847E+08 1.782E+08
ADS ON SOIL 1.193E+09 1.184E+09 1.175E+09 1.158E+09 1.153E+09 1.151E+09 1.156E+09 1.160E+09 1.163E+09 1.168E+09 1.170E+09 1.170E+09
IN SOIL AIR 3.533E+08 3.420E+08 3.281E+08 2.957E+08 2.930E+08 2.990E+08 3.083E+08 3.182E+08 3.240E+08 3.259E+08 3.302E+08 3.360E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.266E+07 2.478E+07 2.713E+07 3.224E+07 3.226E+07 3.095E+07 2.867E+07 2.677E+07 2.552E+07 2.462E+07 2.389E+07 2.305E+07
ADS ON SOIL 1.543E+08 1.532E+08 1.520E+08 1.499E+08 1.492E+08 1.489E+08 1.495E+08 1.500E+08 1.505E+08 1.511E+08 1.513E+08 1.513E+08
IN SOIL AIR 4.570E+07 4.425E+07 4.247E+07 3.827E+07 3.791E+07 3.869E+07 3.988E+07 4.115E+07 4.190E+07 4.216E+07 4.271E+07 4.346E+07

SUBLAYER 2

IN SOIL MOI 2.854E+07 3.122E+07 3.418E+07 4.061E+07 4.063E+07 3.898E+07 3.611E+07 3.371E+07 3.214E+07 3.100E+07 3.008E+07 2.903E+07
ADS ON SOIL 1.944E+08 1.929E+08 1.915E+08 1.888E+08 1.879E+08 1.875E+08 1.883E+08 1.889E+08 1.895E+08 1.903E+08 1.905E+08 1.905E+08
IN SOIL AIR 5.756E+07 5.574E+07 5.350E+07 4.821E+07 4.775E+07 4.872E+07 5.022E+07 5.183E+07 5.277E+07 5.309E+07 5.379E+07 5.473E+07

SUBLAYER 3

IN SOIL MOI 3.691E+07 4.038E+07 4.421E+07 5.253E+07 5.255E+07 5.041E+07 4.670E+07 4.360E+07 4.156E+07 4.010E+07 3.891E+07 3.754E+07
ADS ON SOIL 2.514E+08 2.496E+08 2.477E+08 2.442E+08 2.431E+08 2.425E+08 2.435E+08 2.443E+08 2.451E+08 2.461E+08 2.464E+08 2.464E+08
IN SOIL AIR 7.445E+07 7.209E+07 6.920E+07 6.236E+07 6.176E+07 6.302E+07 6.495E+07 6.703E+07 6.825E+07 6.866E+07 6.956E+07 7.078E+07

SUBLAYER 4

IN SOIL MOI 4.934E+07 5.398E+07 5.911E+07 7.023E+07 7.025E+07 6.739E+07 6.242E+07 5.828E+07 5.555E+07 5.359E+07 5.200E+07 5.018E+07
ADS ON SOIL 3.361E+08 3.336E+08 3.312E+08 3.265E+08 3.249E+08 3.242E+08 3.255E+08 3.266E+08 3.276E+08 3.290E+08 3.293E+08 3.294E+08

IN SOIL AIR 9.951E+07 9.637E+07 9.252E+07 8.337E+07 8.256E+07 8.424E+07 8.682E+07 8.959E+07 9.122E+07 9.177E+07 9.298E+07 9.461E+07

SUBLAYER 5

IN SOIL MOI 6.860E+07 7.507E+07 8.222E+07 9.769E+07 9.772E+07 9.373E+07 8.682E+07 8.105E+07 7.726E+07 7.453E+07 7.232E+07 6.979E+07
ADS ON SOIL 4.673E+08 4.640E+08 4.607E+08 4.542E+08 4.520E+08 4.509E+08 4.527E+08 4.542E+08 4.556E+08 4.575E+08 4.580E+08 4.581E+08
IN SOIL AIR 1.384E+08 1.340E+08 1.287E+08 1.160E+08 1.148E+08 1.172E+08 1.208E+08 1.246E+08 1.269E+08 1.276E+08 1.293E+08 1.316E+08

SUBLAYER 6

IN SOIL MOI 9.975E+07 1.092E+08 1.196E+08 1.422E+08 1.422E+08 1.364E+08 1.264E+08 1.180E+08 1.124E+08 1.085E+08 1.053E+08 1.016E+08
ADS ON SOIL 6.794E+08 6.748E+08 6.703E+08 6.609E+08 6.578E+08 6.563E+08 6.590E+08 6.611E+08 6.631E+08 6.659E+08 6.666E+08 6.668E+08
IN SOIL AIR 2.012E+08 1.949E+08 1.872E+08 1.688E+08 1.671E+08 1.705E+08 1.758E+08 1.814E+08 1.847E+08 1.858E+08 1.882E+08 1.915E+08

SUBLAYER 7

IN SOIL MOI 1.492E+08 1.634E+08 1.791E+08 2.131E+08 2.132E+08 2.047E+08 1.896E+08 1.770E+08 1.687E+08 1.628E+08 1.580E+08 1.525E+08
ADS ON SOIL 1.016E+09 1.010E+09 1.004E+09 9.906E+08 9.863E+08 9.845E+08 9.889E+08 9.921E+08 9.951E+08 9.993E+08 1.000E+09 1.001E+09
IN SOIL AIR 3.009E+08 2.917E+08 2.804E+08 2.530E+08 2.506E+08 2.558E+08 2.638E+08 2.722E+08 2.771E+08 2.788E+08 2.825E+08 2.875E+08

SUBLAYER 8

IN SOIL MOI 2.175E+08 2.385E+08 2.617E+08 3.119E+08 3.125E+08 3.003E+08 2.785E+08 2.600E+08 2.478E+08 2.391E+08 2.320E+08 2.240E+08
ADS ON SOIL 1.482E+09 1.474E+09 1.467E+09 1.450E+09 1.446E+09 1.445E+09 1.452E+09 1.457E+09 1.461E+09 1.468E+09 1.469E+09 1.470E+09
IN SOIL AIR 4.387E+08 4.258E+08 4.097E+08 3.702E+08 3.673E+08 3.754E+08 3.873E+08 3.997E+08 4.069E+08 4.094E+08 4.148E+08 4.222E+08

SUBLAYER 9

IN SOIL MOI 2.823E+08 3.099E+08 3.406E+08 4.070E+08 4.088E+08 3.936E+08 3.654E+08 3.412E+08 3.252E+08 3.138E+08 3.045E+08 2.940E+08
ADS ON SOIL 1.923E+09 1.915E+09 1.909E+09 1.892E+09 1.891E+09 1.894E+09 1.905E+09 1.912E+09 1.918E+09 1.926E+09 1.929E+09 1.930E+09
IN SOIL AIR 5.694E+08 5.533E+08 5.331E+08 4.832E+08 4.805E+08 4.920E+08 5.081E+08 5.245E+08 5.341E+08 5.374E+08 5.445E+08 5.543E+08

SUBLAYER 10

IN SOIL MOI 2.902E+08 3.188E+08 3.509E+08 4.209E+08 4.242E+08 4.096E+08 3.807E+08 3.557E+08 3.391E+08 3.272E+08 3.176E+08 3.066E+08
)S ON SOIL 1.976E+09 1.971E+09 1.966E+09 1.957E+09 1.962E+09 1.970E+09 1.985E+09 1.993E+09 2.000E+09 2.009E+09 2.011E+09 2.013E+09
..N SOIL AIR 5.852E+08 5.693E+08 5.492E+08 4.997E+08 4.985E+08 5.119E+08 5.295E+08 5.468E+08 5.569E+08 5.603E+08 5.678E+08 5.781E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.307E+06 2.741E+07 2.935E+07 2.288E+07 1.207E+07 5.064E+06 1.864E+06 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

)ISTURE 4.267E-01 4.233E-01 4.200E-01 4.141E-01 4.124E-01 4.116E-01 4.133E-01 4.147E-01 4.161E-01 4.178E-01 4.182E-01 4.183E-01
SOLUBILITY 1.778E-01 1.764E-01 1.750E-01 1.725E-01 1.718E-01 1.715E-01 1.722E-01 1.728E-01 1.734E-01 1.741E-01 1.743E-01 1.743E-01

ADSORBED 1.445E-01 1.433E-01 1.422E-01 1.402E-01 1.396E-01 1.393E-01 1.399E-01 1.404E-01 1.408E-01 1.414E-01 1.416E-01 1.416E-01
SOIL AIR 3.095E-01 3.109E-01 3.115E-01 3.110E-01 3.091E-01 3.080E-01 3.034E-01 3.021E-01 3.005E-01 2.972E-01 2.973E-01 2.983E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.415E-01 3.389E-01 3.364E-01 3.316E-01 3.301E-01 3.294E-01 3.308E-01 3.319E-01 3.330E-01 3.344E-01 3.347E-01 3.347E-01
%SOLUBILITY 1.423E-01 1.412E-01 1.402E-01 1.382E-01 1.376E-01 1.373E-01 1.378E-01 1.383E-01 1.387E-01 1.393E-01 1.395E-01 1.395E-01
ADSORBED 1.156E-01 1.147E-01 1.139E-01 1.123E-01 1.118E-01 1.115E-01 1.120E-01 1.124E-01 1.127E-01 1.132E-01 1.133E-01 1.133E-01
SOIL AIR 2.477E-01 2.489E-01 2.495E-01 2.491E-01 2.475E-01 2.465E-01 2.428E-01 2.418E-01 2.405E-01 2.378E-01 2.379E-01 2.387E-01

SUBLAYER 2

MOISTURE 4.302E-01 4.269E-01 4.238E-01 4.177E-01 4.158E-01 4.149E-01 4.166E-01 4.180E-01 4.193E-01 4.211E-01 4.215E-01 4.216E-01
%SOLUBILITY 1.792E-01 1.779E-01 1.766E-01 1.741E-01 1.733E-01 1.729E-01 1.736E-01 1.742E-01 1.747E-01 1.755E-01 1.756E-01 1.757E-01
ADSORBED 1.456E-01 1.445E-01 1.435E-01 1.414E-01 1.408E-01 1.405E-01 1.410E-01 1.415E-01 1.420E-01 1.426E-01 1.427E-01 1.427E-01
SOIL AIR 3.119E-01 3.136E-01 3.143E-01 3.137E-01 3.117E-01 3.105E-01 3.058E-01 3.045E-01 3.029E-01 2.995E-01 2.996E-01 3.007E-01

SUBLAYER 3

MOISTURE 5.563E-01 5.522E-01 5.482E-01 5.404E-01 5.379E-01 5.366E-01 5.388E-01 5.406E-01 5.423E-01 5.446E-01 5.452E-01 5.452E-01
%SOLUBILITY 2.318E-01 2.301E-01 2.284E-01 2.252E-01 2.241E-01 2.236E-01 2.245E-01 2.253E-01 2.260E-01 2.269E-01 2.272E-01 2.272E-01
ADSORBED 1.883E-01 1.869E-01 1.856E-01 1.829E-01 1.821E-01 1.817E-01 1.824E-01 1.830E-01 1.836E-01 1.844E-01 1.845E-01 1.846E-01
SOIL AIR 4.034E-01 4.056E-01 4.065E-01 4.058E-01 4.032E-01 4.016E-01 3.955E-01 3.937E-01 3.917E-01 3.874E-01 3.875E-01 3.889E-01

SUBLAYER 4

MOISTURE 7.436E-01 7.382E-01 7.329E-01 7.224E-01 7.190E-01 7.173E-01 7.202E-01 7.226E-01 7.249E-01 7.279E-01 7.287E-01 7.288E-01
%SOLUBILITY 3.098E-01 3.076E-01 3.054E-01 3.010E-01 2.996E-01 2.989E-01 3.001E-01 3.011E-01 3.020E-01 3.033E-01 3.036E-01 3.037E-01
ADSORBED 2.517E-01 2.499E-01 2.481E-01 2.446E-01 2.434E-01 2.428E-01 2.438E-01 2.446E-01 2.454E-01 2.464E-01 2.467E-01 2.467E-01
SOIL AIR 5.392E-01 5.422E-01 5.435E-01 5.425E-01 5.390E-01 5.368E-01 5.287E-01 5.263E-01 5.235E-01 5.177E-01 5.180E-01 5.198E-01

SUBLAYER 5

MOISTURE 1.034E+00 1.027E+00 1.019E+00 1.005E+00 1.000E+00 9.977E-01 1.002E+00 1.005E+00 1.008E+00 1.012E+00 1.013E+00 1.014E+00
%SOLUBILITY 4.308E-01 4.277E-01 4.248E-01 4.187E-01 4.167E-01 4.157E-01 4.174E-01 4.188E-01 4.200E-01 4.218E-01 4.222E-01 4.223E-01
ADSORBED 3.500E-01 3.475E-01 3.451E-01 3.402E-01 3.385E-01 3.377E-01 3.391E-01 3.402E-01 3.413E-01 3.427E-01 3.431E-01 3.431E-01
SOIL AIR 7.498E-01 7.540E-01 7.560E-01 7.547E-01 7.497E-01 7.466E-01 7.354E-01 7.320E-01 7.281E-01 7.200E-01 7.203E-01 7.229E-01

SUBLAYER 6

MOISTURE 1.503E+00 1.493E+00 1.483E+00 1.462E+00 1.455E+00 1.452E+00 1.458E+00 1.463E+00 1.467E+00 1.474E+00 1.475E+00 1.475E+00
%SOLUBILITY 6.264E-01 6.222E-01 6.180E-01 6.094E-01 6.064E-01 6.051E-01 6.076E-01 6.095E-01 6.114E-01 6.140E-01 6.146E-01 6.147E-01
ADSORBED 5.089E-01 5.055E-01 5.021E-01 4.951E-01 4.927E-01 4.916E-01 4.936E-01 4.952E-01 4.967E-01 4.988E-01 4.993E-01 4.995E-01
SOIL AIR 1.090E+00 1.097E+00 1.100E+00 1.098E+00 1.091E+00 1.087E+00 1.070E+00 1.065E+00 1.060E+00 1.048E+00 1.049E+00 1.052E+00

SUBLAYER 7

MOISTURE 2.248E+00 2.235E+00 2.221E+00 2.192E+00 2.182E+00 2.178E+00 2.188E+00 2.195E+00 2.202E+00 2.211E+00 2.214E+00 2.214E+00
%SOLUBILITY 9.369E-01 9.311E-01 9.254E-01 9.133E-01 9.093E-01 9.077E-01 9.117E-01 9.147E-01 9.175E-01 9.213E-01 9.223E-01 9.226E-01
ADSORBED 7.612E-01 7.565E-01 7.519E-01 7.420E-01 7.388E-01 7.375E-01 7.407E-01 7.431E-01 7.454E-01 7.485E-01 7.494E-01 7.496E-01
SOIL AIR 1.631E+00 1.641E+00 1.647E+00 1.646E+00 1.636E+00 1.630E+00 1.606E+00 1.599E+00 1.590E+00 1.573E+00 1.573E+00 1.579E+00

SUBLAYER 8

MOISTURE 3.279E+00 3.261E+00 3.245E+00 3.208E+00 3.199E+00 3.197E+00 3.213E+00 3.224E+00 3.233E+00 3.247E+00 3.251E+00 3.252E+00
%SOLUBILITY 1.366E+00 1.359E+00 1.352E+00 1.337E+00 1.333E+00 1.332E+00 1.339E+00 1.343E+00 1.347E+00 1.353E+00 1.355E+00 1.355E+00
ADSORBED 1.110E+00 1.104E+00 1.099E+00 1.086E+00 1.083E+00 1.082E+00 1.088E+00 1.091E+00 1.095E+00 1.099E+00 1.101E+00 1.101E+00
SOIL AIR 2.377E+00 2.395E+00 2.407E+00 2.409E+00 2.398E+00 2.392E+00 2.358E+00 2.348E+00 2.335E+00 2.310E+00 2.311E+00 2.320E+00

SUBLAYER 9

MOISTURE 4.255E+00 4.238E+00 4.223E+00 4.187E+00 4.184E+00 4.190E+00 4.215E+00 4.231E+00 4.244E+00 4.262E+00 4.267E+00 4.270E+00
%SOLUBILITY 1.773E+00 1.766E+00 1.760E+00 1.745E+00 1.743E+00 1.746E+00 1.756E+00 1.763E+00 1.768E+00 1.776E+00 1.778E+00 1.779E+00
ADSORBED 1.440E+00 1.435E+00 1.430E+00 1.417E+00 1.416E+00 1.418E+00 1.427E+00 1.432E+00 1.437E+00 1.443E+00 1.445E+00 1.445E+00
SOIL AIR 3.086E+00 3.113E+00 3.132E+00 3.144E+00 3.137E+00 3.135E+00 3.094E+00 3.081E+00 3.065E+00 3.032E+00 3.033E+00 3.045E+00

SUBLAYER 10

MOISTURE 4.373E+00 4.360E+00 4.351E+00 4.330E+00 4.342E+00 4.359E+00 4.393E+00 4.411E+00 4.425E+00 4.444E+00 4.450E+00 4.453E+00
%SOLUBILITY 1.822E+00 1.817E+00 1.813E+00 1.804E+00 1.809E+00 1.816E+00 1.830E+00 1.838E+00 1.844E+00 1.852E+00 1.854E+00 1.856E+00
DSORBED 1.480E+00 1.476E+00 1.473E+00 1.466E+00 1.470E+00 1.476E+00 1.487E+00 1.493E+00 1.498E+00 1.504E+00 1.506E+00 1.508E+00
SOIL AIR 3.171E+00 3.202E+00 3.226E+00 3.252E+00 3.255E+00 3.262E+00 3.225E+00 3.212E+00 3.196E+00 3.161E+00 3.163E+00 3.176E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 9.007E-04 1.069E-02 1.143E-02 8.915E-03 4.705E-03 1.975E-03 7.270E-04 0.000E+00 0.000E+00 0.000E+00

1 YEAR - 100 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
OTAL YIELD (CM) 7.763

-- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.009E+08

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.172E-01
ADSORBED SOIL (UG/G) 1.412E-01
SOIL AIR (UG/ML) 3.049E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.340E-01
ADSORBED SOIL (UG/G) 1.131E-01
SOIL AIR (UG/ML) 2.441E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 4.206E-01
ADSORBED SOIL (UG/G) 1.424E-01
SOIL AIR (UG/ML) 3.074E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 5.440E-01
ADSORBED SOIL (UG/G) 1.842E-01
SOIL AIR (UG/ML) 3.976E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 7.272E-01
ADSORBED SOIL (UG/G) 2.462E-01
SOIL AIR (UG/ML) 5.314E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 1.011E+00
ADSORBED SOIL (UG/G) 3.424E-01
SOIL AIR (UG/ML) 7.391E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 1.472E+00
ADSORBED SOIL (UG/G) 4.982E-01
SOIL AIR (UG/ML) 1.076E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 2.207E+00
ADSORBED SOIL (UG/G) 7.470E-01
SOIL AIR (UG/ML) 1.613E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 3.234E+00
ADSORBED SOIL (UG/G) 1.095E+00
SOIL AIR (UG/ML) 2.363E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.231E+00
ADSORBED SOIL (UG/G) 1.432E+00
SOIL AIR (UG/ML) 3.091E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 4.391E+00
ADSORBED SOIL (UG/G) 1.486E+00
SOIL AIR (UG/ML) 3.209E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 3.278E-03
1

YEAR - 110 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
RW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
ELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199

PAU/MPA (GZU) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008
PA/MPA (GZ) 1.088 0.992 0.998 0.992 1.000 0.998 1.001 1.138 1.002 1.705 2.177 1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	1.394E+08	1.524E+08	1.668E+08	1.982E+08	1.984E+08	1.904E+08	1.764E+08	1.647E+08	1.570E+08	1.515E+08	1.470E+08	1.418E+08
ADS ON SOIL	9.497E+08	9.421E+08	9.347E+08	9.215E+08	9.177E+08	9.159E+08	9.198E+08	9.230E+08	9.259E+08	9.298E+08	9.308E+08	9.308E+08
IN SOIL AIR	2.812E+08	2.721E+08	2.611E+08	2.353E+08	2.332E+08	2.380E+08	2.453E+08	2.532E+08	2.578E+08	2.594E+08	2.628E+08	2.674E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	1.803E+07	1.972E+07	2.159E+07	2.565E+07	2.567E+07	2.463E+07	2.282E+07	2.130E+07	2.031E+07	1.959E+07	1.901E+07	1.834E+07
ADS ON SOIL	1.228E+08	1.219E+08	1.210E+08	1.193E+08	1.187E+08	1.185E+08	1.190E+08	1.194E+08	1.198E+08	1.203E+08	1.204E+08	1.204E+08
IN SOIL AIR	3.637E+07	3.521E+07	3.380E+07	3.046E+07	3.017E+07	3.079E+07	3.173E+07	3.275E+07	3.335E+07	3.355E+07	3.399E+07	3.458E+07

SUBLAYER 2

IN SOIL MOI	2.271E+07	2.484E+07	2.720E+07	3.232E+07	3.233E+07	3.102E+07	2.874E+07	2.683E+07	2.557E+07	2.467E+07	2.394E+07	2.310E+07
ADS ON SOIL	1.547E+08	1.535E+08	1.524E+08	1.502E+08	1.496E+08	1.492E+08	1.498E+08	1.503E+08	1.508E+08	1.515E+08	1.516E+08	1.516E+08
IN SOIL AIR	4.581E+07	4.436E+07	4.258E+07	3.837E+07	3.800E+07	3.877E+07	3.997E+07	4.124E+07	4.200E+07	4.225E+07	4.280E+07	4.355E+07

SUBLAYER 3

IN SOIL MOI	2.938E+07	3.214E+07	3.519E+07	4.180E+07	4.182E+07	4.012E+07	3.717E+07	3.470E+07	3.308E+07	3.191E+07	3.096E+07	2.988E+07
ADS ON SOIL	2.001E+08	1.986E+08	1.972E+08	1.944E+08	1.935E+08	1.930E+08	1.938E+08	1.944E+08	1.951E+08	1.959E+08	1.961E+08	1.961E+08
IN SOIL AIR	5.925E+07	5.738E+07	5.508E+07	4.963E+07	4.915E+07	5.015E+07	5.169E+07	5.334E+07	5.431E+07	5.464E+07	5.536E+07	5.633E+07

SUBLAYER 4

IN SOIL MOI	3.928E+07	4.298E+07	4.706E+07	5.591E+07	5.593E+07	5.365E+07	4.970E+07	4.640E+07	4.422E+07	4.267E+07	4.140E+07	3.995E+07
ADS ON SOIL	2.676E+08	2.656E+08	2.637E+08	2.599E+08	2.587E+08	2.581E+08	2.591E+08	2.600E+08	2.608E+08	2.619E+08	2.622E+08	2.622E+08
IN SOIL AIR	7.922E+07	7.673E+07	7.366E+07	6.638E+07	6.573E+07	6.706E+07	6.912E+07	7.133E+07	7.262E+07	7.306E+07	7.402E+07	7.532E+07

SUBLAYER 5

IN SOIL MOI 5.477E+07 5.993E+07 6.563E+07 7.798E+07 7.800E+07 7.481E+07 6.930E+07 6.470E+07 6.166E+07 5.949E+07 5.773E+07 5.571E+07
ADS ON SOIL 3.730E+08 3.704E+08 3.678E+08 3.625E+08 3.608E+08 3.599E+08 3.614E+08 3.625E+08 3.636E+08 3.652E+08 3.656E+08 3.656E+08
IN SOIL AIR 1.105E+08 1.070E+08 1.027E+08 9.258E+07 9.166E+07 9.351E+07 9.638E+07 9.945E+07 1.013E+08 1.019E+08 1.032E+08 1.050E+08

SUBLAYER 6

IN SOIL MOI 8.029E+07 8.788E+07 9.627E+07 1.144E+08 1.144E+08 1.097E+08 1.017E+08 9.489E+07 9.045E+07 8.726E+07 8.467E+07 8.171E+07
ADS ON SOIL 5.469E+08 5.431E+08 5.394E+08 5.318E+08 5.292E+08 5.279E+08 5.300E+08 5.318E+08 5.334E+08 5.356E+08 5.362E+08 5.363E+08
IN SOIL AIR 1.619E+08 1.569E+08 1.507E+08 1.358E+08 1.344E+08 1.372E+08 1.414E+08 1.459E+08 1.485E+08 1.494E+08 1.514E+08 1.541E+08

SUBLAYER 7

IN SOIL MOI 1.236E+08 1.354E+08 1.484E+08 1.764E+08 1.765E+08 1.693E+08 1.569E+08 1.464E+08 1.396E+08 1.347E+08 1.307E+08 1.261E+08
ADS ON SOIL 8.422E+08 8.368E+08 8.316E+08 8.202E+08 8.164E+08 8.146E+08 8.180E+08 8.206E+08 8.231E+08 8.266E+08 8.275E+08 8.277E+08
IN SOIL AIR 2.494E+08 2.417E+08 2.323E+08 2.095E+08 2.074E+08 2.117E+08 2.182E+08 2.251E+08 2.292E+08 2.306E+08 2.336E+08 2.378E+08

SUBLAYER 8

IN SOIL MOI 1.927E+08 2.112E+08 2.317E+08 2.758E+08 2.762E+08 2.652E+08 2.458E+08 2.294E+08 2.187E+08 2.110E+08 2.048E+08 1.976E+08
ADS ON SOIL 1.313E+09 1.305E+09 1.298E+09 1.282E+09 1.277E+09 1.276E+09 1.282E+09 1.286E+09 1.290E+09 1.295E+09 1.297E+09 1.297E+09
IN SOIL AIR 3.886E+08 3.771E+08 3.626E+08 3.274E+08 3.245E+08 3.315E+08 3.418E+08 3.527E+08 3.591E+08 3.613E+08 3.661E+08 3.726E+08

SUBLAYER 9

IN SOIL MOI 2.789E+08 3.061E+08 3.362E+08 4.012E+08 4.025E+08 3.871E+08 3.591E+08 3.353E+08 3.196E+08 3.083E+08 2.992E+08 2.889E+08
ADS ON SOIL 1.900E+09 1.892E+09 1.884E+09 1.865E+09 1.861E+09 1.862E+09 1.872E+09 1.879E+09 1.885E+09 1.893E+09 1.895E+09 1.896E+09
IN SOIL AIR 5.625E+08 5.464E+08 5.262E+08 4.763E+08 4.729E+08 4.838E+08 4.994E+08 5.154E+08 5.248E+08 5.280E+08 5.350E+08 5.446E+08

SUBLAYER 10

IN SOIL MOI 3.309E+08 3.635E+08 3.998E+08 4.788E+08 4.817E+08 4.644E+08 4.314E+08 4.030E+08 3.841E+08 3.706E+08 3.597E+08 3.473E+08
ADS ON SOIL 2.254E+09 2.247E+09 2.240E+09 2.226E+09 2.228E+09 2.234E+09 2.250E+09 2.258E+09 2.265E+09 2.275E+09 2.278E+09 2.280E+09
SOIL AIR 6.673E+08 6.490E+08 6.258E+08 5.684E+08 5.661E+08 5.805E+08 6.000E+08 6.195E+08 6.308E+08 6.347E+08 6.431E+08 6.548E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.629E+06 3.121E+07 3.335E+07 2.596E+07 1.368E+07 5.738E+06 2.112E+06 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 3.396E-01 3.369E-01 3.343E-01 3.295E-01 3.282E-01 3.275E-01 3.289E-01 3.301E-01 3.311E-01 3.325E-01 3.328E-01 3.329E-01
SOLUBILITY 1.415E-01 1.404E-01 1.393E-01 1.373E-01 1.367E-01 1.365E-01 1.370E-01 1.375E-01 1.380E-01 1.385E-01 1.387E-01 1.387E-01
ADSORBED 1.150E-01 1.140E-01 1.132E-01 1.116E-01 1.111E-01 1.109E-01 1.113E-01 1.117E-01 1.121E-01 1.126E-01 1.127E-01 1.127E-01

SOIL AIR 2.463E-01 2.474E-01 2.479E-01 2.475E-01 2.460E-01 2.451E-01 2.414E-01 2.404E-01 2.391E-01 2.365E-01 2.366E-01 2.374E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.718E-01 2.697E-01 2.677E-01 2.639E-01 2.627E-01 2.622E-01 2.633E-01 2.642E-01 2.650E-01 2.661E-01 2.664E-01 2.664E-01
%SOLUBILITY 1.132E-01 1.124E-01 1.115E-01 1.100E-01 1.095E-01 1.092E-01 1.097E-01 1.101E-01 1.104E-01 1.109E-01 1.110E-01 1.110E-01
ADSORBED 9.200E-02 9.130E-02 9.062E-02 8.934E-02 8.894E-02 8.875E-02 8.912E-02 8.942E-02 8.970E-02 9.008E-02 9.017E-02 9.018E-02
SOIL AIR 1.971E-01 1.981E-01 1.985E-01 1.982E-01 1.970E-01 1.962E-01 1.933E-01 1.924E-01 1.914E-01 1.893E-01 1.893E-01 1.900E-01

SUBLAYER 2

MOISTURE 3.423E-01 3.398E-01 3.373E-01 3.324E-01 3.309E-01 3.302E-01 3.316E-01 3.327E-01 3.337E-01 3.351E-01 3.355E-01 3.355E-01
%SOLUBILITY 1.426E-01 1.416E-01 1.405E-01 1.385E-01 1.379E-01 1.376E-01 1.381E-01 1.386E-01 1.390E-01 1.396E-01 1.398E-01 1.398E-01
ADSORBED 1.159E-01 1.150E-01 1.142E-01 1.125E-01 1.120E-01 1.118E-01 1.122E-01 1.126E-01 1.130E-01 1.134E-01 1.136E-01 1.136E-01
SOIL AIR 2.482E-01 2.495E-01 2.501E-01 2.497E-01 2.481E-01 2.471E-01 2.434E-01 2.423E-01 2.410E-01 2.384E-01 2.385E-01 2.393E-01

SUBLAYER 3

MOISTURE 4.428E-01 4.395E-01 4.363E-01 4.301E-01 4.280E-01 4.271E-01 4.288E-01 4.303E-01 4.316E-01 4.334E-01 4.339E-01 4.339E-01
%SOLUBILITY 1.845E-01 1.831E-01 1.818E-01 1.792E-01 1.784E-01 1.779E-01 1.787E-01 1.793E-01 1.798E-01 1.806E-01 1.808E-01 1.808E-01
ADSORBED 1.499E-01 1.488E-01 1.477E-01 1.456E-01 1.449E-01 1.446E-01 1.452E-01 1.456E-01 1.461E-01 1.467E-01 1.469E-01 1.469E-01
SOIL AIR 3.211E-01 3.228E-01 3.235E-01 3.230E-01 3.209E-01 3.196E-01 3.148E-01 3.134E-01 3.117E-01 3.083E-01 3.084E-01 3.095E-01

SUBLAYER 4

MOISTURE 5.920E-01 5.877E-01 5.835E-01 5.752E-01 5.724E-01 5.711E-01 5.734E-01 5.753E-01 5.771E-01 5.795E-01 5.801E-01 5.802E-01
%SOLUBILITY 2.467E-01 2.449E-01 2.431E-01 2.396E-01 2.385E-01 2.379E-01 2.389E-01 2.397E-01 2.404E-01 2.415E-01 2.417E-01 2.418E-01
ADSORBED 2.004E-01 1.990E-01 1.975E-01 1.947E-01 1.938E-01 1.933E-01 1.941E-01 1.947E-01 1.954E-01 1.962E-01 1.964E-01 1.964E-01
SOIL AIR 4.293E-01 4.316E-01 4.327E-01 4.319E-01 4.291E-01 4.273E-01 4.209E-01 4.190E-01 4.168E-01 4.122E-01 4.124E-01 4.138E-01

SUBLAYER 5

MOISTURE 8.254E-01 8.195E-01 8.138E-01 8.022E-01 7.983E-01 7.963E-01 7.996E-01 8.022E-01 8.046E-01 8.080E-01 8.089E-01 8.090E-01
%SOLUBILITY 3.439E-01 3.415E-01 3.391E-01 3.342E-01 3.326E-01 3.318E-01 3.332E-01 3.342E-01 3.353E-01 3.367E-01 3.370E-01 3.371E-01
ADSORBED 2.794E-01 2.774E-01 2.755E-01 2.715E-01 2.702E-01 2.696E-01 2.707E-01 2.716E-01 2.724E-01 2.735E-01 2.738E-01 2.739E-01
SOIL AIR 5.986E-01 6.019E-01 6.035E-01 6.024E-01 5.984E-01 5.959E-01 5.869E-01 5.842E-01 5.811E-01 5.747E-01 5.750E-01 5.770E-01

SUBLAYER 6

MOISTURE 1.210E+00 1.202E+00 1.194E+00 1.177E+00 1.171E+00 1.168E+00 1.173E+00 1.177E+00 1.180E+00 1.185E+00 1.186E+00 1.187E+00
%SOLUBILITY 5.042E-01 5.007E-01 4.973E-01 4.903E-01 4.879E-01 4.867E-01 4.887E-01 4.903E-01 4.917E-01 4.938E-01 4.943E-01 4.945E-01
ADSORBED 4.096E-01 4.068E-01 4.041E-01 3.983E-01 3.964E-01 3.954E-01 3.970E-01 3.983E-01 3.995E-01 4.012E-01 4.016E-01 4.017E-01
SOIL AIR 8.775E-01 8.826E-01 8.852E-01 8.837E-01 8.778E-01 8.741E-01 8.609E-01 8.569E-01 8.524E-01 8.430E-01 8.433E-01 8.464E-01

SUBLAYER 7

MOISTURE 1.864E+00 1.852E+00 1.840E+00 1.815E+00 1.806E+00 1.802E+00 1.810E+00 1.816E+00 1.821E+00 1.829E+00 1.831E+00 1.832E+00
%SOLUBILITY 7.765E-01 7.715E-01 7.667E-01 7.562E-01 7.527E-01 7.510E-01 7.542E-01 7.566E-01 7.589E-01 7.621E-01 7.629E-01 7.631E-01
ADSORBED 6.309E-01 6.268E-01 6.229E-01 6.144E-01 6.115E-01 6.102E-01 6.127E-01 6.147E-01 6.166E-01 6.192E-01 6.198E-01 6.200E-01
SOIL AIR 1.351E+00 1.360E+00 1.365E+00 1.363E+00 1.354E+00 1.349E+00 1.329E+00 1.323E+00 1.315E+00 1.301E+00 1.302E+00 1.306E+00

SUBLAYER 8

MOISTURE 2.904E+00 2.888E+00 2.873E+00 2.837E+00 2.826E+00 2.823E+00 2.836E+00 2.845E+00 2.854E+00 2.866E+00 2.869E+00 2.870E+00
%SOLUBILITY 1.210E+00 1.203E+00 1.197E+00 1.182E+00 1.178E+00 1.176E+00 1.182E+00 1.185E+00 1.189E+00 1.194E+00 1.195E+00 1.196E+00
ADSORBED 9.832E-01 9.777E-01 9.724E-01 9.604E-01 9.568E-01 9.555E-01 9.599E-01 9.631E-01 9.660E-01 9.701E-01 9.712E-01 9.716E-01
SOIL AIR 2.106E+00 2.121E+00 2.130E+00 2.131E+00 2.119E+00 2.112E+00 2.082E+00 2.072E+00 2.061E+00 2.038E+00 2.039E+00 2.047E+00

SUBLAYER 9

MOISTURE 4.204E+00 4.185E+00 4.168E+00 4.127E+00 4.119E+00 4.120E+00 4.143E+00 4.157E+00 4.170E+00 4.188E+00 4.193E+00 4.195E+00
%SOLUBILITY 1.752E+00 1.744E+00 1.737E+00 1.720E+00 1.716E+00 1.717E+00 1.726E+00 1.732E+00 1.738E+00 1.745E+00 1.747E+00 1.748E+00
ADSORBED 1.423E+00 1.417E+00 1.411E+00 1.397E+00 1.394E+00 1.395E+00 1.402E+00 1.407E+00 1.412E+00 1.418E+00 1.419E+00 1.420E+00
SOIL AIR 3.049E+00 3.074E+00 3.091E+00 3.099E+00 3.088E+00 3.083E+00 3.041E+00 3.028E+00 3.012E+00 2.979E+00 2.980E+00 2.992E+00

SUBLAYER 10

MOISTURE 4.987E+00 4.971E+00 4.957E+00 4.925E+00 4.930E+00 4.943E+00 4.978E+00 4.997E+00 5.013E+00 5.034E+00 5.040E+00 5.044E+00

%SOLUBILITY 2.078E+00 2.071E+00 2.066E+00 2.052E+00 2.054E+00 2.060E+00 2.074E+00 2.082E+00 2.089E+00 2.098E+00 2.100E+00 2.102E+00
ADSORBED 1.688E+00 1.683E+00 1.678E+00 1.667E+00 1.669E+00 1.673E+00 1.685E+00 1.691E+00 1.697E+00 1.704E+00 1.706E+00 1.708E+00
SOIL AIR 3.616E+00 3.651E+00 3.676E+00 3.699E+00 3.696E+00 3.699E+00 3.654E+00 3.639E+00 3.620E+00 3.581E+00 3.583E+00 3.597E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 1.026E-03 1.215E-02 1.298E-02 1.011E-02 5.332E-03 2.237E-03 8.235E-04 0.000E+00 0.000E+00 0.000E+00

1 YEAR - 110 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763

-- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.147E+08

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.320E-01
ADSORBED SOIL (UG/G) 1.124E-01
SOIL AIR (UG/ML) 2.426E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.658E-01
ADSORBED SOIL (UG/G) 8.997E-02
SOIL AIR (UG/ML) 1.942E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 3.347E-01
ADSORBED SOIL (UG/G) 1.133E-01
SOIL AIR (UG/ML) 2.446E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 4.330E-01
ADSORBED SOIL (UG/G) 1.466E-01
SOIL AIR (UG/ML) 3.164E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 5.790E-01

ADSORBED SOIL (UG/G) 1.960E-01
SOIL AIR (UG/ML) 4.231E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 8.073E-01
ADSORBED SOIL (UG/G) 2.733E-01
SOIL AIR (UG/ML) 5.900E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 1.184E+00
ADSORBED SOIL (UG/G) 4.008E-01
SOIL AIR (UG/ML) 8.653E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.826E+00
ADSORBED SOIL (UG/G) 6.183E-01
SOIL AIR (UG/ML) 1.335E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 2.858E+00
ADSORBED SOIL (UG/G) 9.673E-01
SOIL AIR (UG/ML) 2.088E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.164E+00
ADSORBED SOIL (UG/G) 1.410E+00
SOIL AIR (UG/ML) 3.043E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 4.985E+00
ADSORBED SOIL (UG/G) 1.687E+00
SOIL AIR (UG/ML) 3.643E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 3.722E-03
1

YEAR - 120 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

-- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	1.109E+08	1.213E+08	1.327E+08	1.577E+08	1.579E+08	1.515E+08	1.404E+08	1.311E+08	1.249E+08	1.205E+08	1.170E+08	1.129E+08
ADS ON SOIL	7.557E+08	7.497E+08	7.438E+08	7.333E+08	7.302E+08	7.288E+08	7.319E+08	7.345E+08	7.368E+08	7.399E+08	7.406E+08	7.407E+08
IN SOIL AIR	2.238E+08	2.166E+08	2.078E+08	1.873E+08	1.855E+08	1.894E+08	1.952E+08	2.015E+08	2.052E+08	2.064E+08	2.091E+08	2.128E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	1.435E+07	1.569E+07	1.718E+07	2.041E+07	2.043E+07	1.960E+07	1.816E+07	1.695E+07	1.616E+07	1.559E+07	1.513E+07	1.459E+07
ADS ON SOIL	9.773E+07	9.699E+07	9.627E+07	9.490E+07	9.448E+07	9.428E+07	9.467E+07	9.499E+07	9.529E+07	9.569E+07	9.578E+07	9.579E+07
IN SOIL AIR	2.894E+07	2.802E+07	2.689E+07	2.423E+07	2.400E+07	2.450E+07	2.525E+07	2.606E+07	2.653E+07	2.669E+07	2.704E+07	2.752E+07

SUBLAYER 2

IN SOIL MOI	1.807E+07	1.977E+07	2.164E+07	2.571E+07	2.573E+07	2.468E+07	2.287E+07	2.135E+07	2.035E+07	1.963E+07	1.905E+07	1.838E+07
ADS ON SOIL	1.231E+08	1.222E+08	1.213E+08	1.195E+08	1.190E+08	1.187E+08	1.192E+08	1.196E+08	1.200E+08	1.205E+08	1.206E+08	1.206E+08
IN SOIL AIR	3.645E+07	3.529E+07	3.388E+07	3.053E+07	3.023E+07	3.085E+07	3.180E+07	3.282E+07	3.342E+07	3.362E+07	3.406E+07	3.466E+07

SUBLAYER 3

IN SOIL MOI	2.338E+07	2.557E+07	2.800E+07	3.327E+07	3.328E+07	3.193E+07	2.957E+07	2.761E+07	2.632E+07	2.539E+07	2.464E+07	2.378E+07
ADS ON SOIL	1.592E+08	1.580E+08	1.569E+08	1.547E+08	1.539E+08	1.536E+08	1.542E+08	1.547E+08	1.552E+08	1.559E+08	1.560E+08	1.560E+08
IN SOIL AIR	4.715E+07	4.566E+07	4.383E+07	3.949E+07	3.911E+07	3.991E+07	4.113E+07	4.245E+07	4.322E+07	4.348E+07	4.405E+07	4.483E+07

SUBLAYER 4

IN SOIL MOI	3.126E+07	3.420E+07	3.745E+07	4.450E+07	4.451E+07	4.270E+07	3.955E+07	3.693E+07	3.520E+07	3.396E+07	3.295E+07	3.180E+07
ADS ON SOIL	2.129E+08	2.114E+08	2.099E+08	2.069E+08	2.059E+08	2.054E+08	2.062E+08	2.069E+08	2.076E+08	2.084E+08	2.087E+08	2.087E+08
IN SOIL AIR	6.305E+07	6.107E+07	5.863E+07	5.283E+07	5.231E+07	5.337E+07	5.501E+07	5.677E+07	5.780E+07	5.815E+07	5.891E+07	5.995E+07

SUBLAYER 5

IN SOIL MOI	4.364E+07	4.775E+07	5.230E+07	6.213E+07	6.215E+07	5.961E+07	5.521E+07	5.155E+07	4.913E+07	4.740E+07	4.599E+07	4.439E+07
ADS ON SOIL	2.972E+08	2.951E+08	2.931E+08	2.889E+08	2.874E+08	2.867E+08	2.879E+08	2.888E+08	2.897E+08	2.910E+08	2.913E+08	2.913E+08

IN SOIL AIR 8.801E+07 8.525E+07 8.186E+07 7.376E+07 7.303E+07 7.451E+07 7.679E+07 7.924E+07 8.068E+07 8.117E+07 8.224E+07 8.368E+07

SUBLAYER 6

IN SOIL MOI 6.428E+07 7.036E+07 7.707E+07 9.157E+07 9.158E+07 8.784E+07 8.136E+07 7.595E+07 7.239E+07 6.984E+07 6.777E+07 6.541E+07
ADS ON SOIL 4.378E+08 4.348E+08 4.319E+08 4.257E+08 4.236E+08 4.225E+08 4.243E+08 4.256E+08 4.269E+08 4.287E+08 4.292E+08 4.293E+08
IN SOIL AIR 1.296E+08 1.256E+08 1.206E+08 1.087E+08 1.076E+08 1.098E+08 1.132E+08 1.168E+08 1.189E+08 1.196E+08 1.212E+08 1.233E+08

SUBLAYER 7

IN SOIL MOI 1.008E+08 1.104E+08 1.210E+08 1.437E+08 1.438E+08 1.379E+08 1.277E+08 1.192E+08 1.137E+08 1.097E+08 1.064E+08 1.027E+08
ADS ON SOIL 6.866E+08 6.821E+08 6.778E+08 6.683E+08 6.650E+08 6.634E+08 6.661E+08 6.682E+08 6.703E+08 6.731E+08 6.738E+08 6.740E+08
IN SOIL AIR 2.033E+08 1.971E+08 1.893E+08 1.707E+08 1.690E+08 1.724E+08 1.777E+08 1.833E+08 1.866E+08 1.878E+08 1.902E+08 1.936E+08

SUBLAYER 8

IN SOIL MOI 1.651E+08 1.809E+08 1.984E+08 2.360E+08 2.362E+08 2.266E+08 2.100E+08 1.960E+08 1.868E+08 1.803E+08 1.749E+08 1.688E+08
ADS ON SOIL 1.124E+09 1.118E+09 1.112E+09 1.097E+09 1.092E+09 1.090E+09 1.095E+09 1.099E+09 1.102E+09 1.107E+09 1.108E+09 1.108E+09
IN SOIL AIR 3.329E+08 3.229E+08 3.105E+08 2.802E+08 2.775E+08 2.833E+08 2.921E+08 3.014E+08 3.068E+08 3.087E+08 3.128E+08 3.183E+08

SUBLAYER 9

IN SOIL MOI 2.621E+08 2.875E+08 3.157E+08 3.763E+08 3.772E+08 3.624E+08 3.361E+08 3.138E+08 2.991E+08 2.886E+08 2.800E+08 2.703E+08
ADS ON SOIL 1.785E+09 1.777E+09 1.769E+09 1.750E+09 1.745E+09 1.744E+09 1.753E+09 1.758E+09 1.764E+09 1.771E+09 1.773E+09 1.774E+09
IN SOIL AIR 5.287E+08 5.133E+08 4.942E+08 4.468E+08 4.432E+08 4.530E+08 4.674E+08 4.824E+08 4.911E+08 4.941E+08 5.007E+08 5.096E+08

SUBLAYER 10

IN SOIL MOI 3.547E+08 3.895E+08 4.283E+08 5.121E+08 5.146E+08 4.955E+08 4.601E+08 4.297E+08 4.095E+08 3.952E+08 3.835E+08 3.703E+08
ADS ON SOIL 2.416E+09 2.407E+09 2.400E+09 2.381E+09 2.380E+09 2.384E+09 2.399E+09 2.408E+09 2.415E+09 2.426E+09 2.428E+09 2.430E+09
IN SOIL AIR 7.153E+08 6.954E+08 6.704E+08 6.080E+08 6.047E+08 6.194E+08 6.398E+08 6.605E+08 6.725E+08 6.766E+08 6.857E+08 6.981E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.817E+06 3.340E+07 3.565E+07 2.771E+07 1.459E+07 6.118E+06 2.252E+06 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT RINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 2.702E-01 2.681E-01 2.660E-01 2.622E-01 2.611E-01 2.606E-01 2.617E-01 2.626E-01 2.635E-01 2.646E-01 2.649E-01 2.649E-01
%SOLUBILITY 1.126E-01 1.117E-01 1.108E-01 1.093E-01 1.088E-01 1.086E-01 1.091E-01 1.094E-01 1.098E-01 1.102E-01 1.104E-01 1.104E-01
ADSORBED 9.148E-02 9.075E-02 9.004E-02 8.877E-02 8.840E-02 8.823E-02 8.860E-02 8.891E-02 8.919E-02 8.957E-02 8.966E-02 8.966E-02
SOIL AIR 1.960E-01 1.969E-01 1.973E-01 1.969E-01 1.958E-01 1.950E-01 1.921E-01 1.913E-01 1.903E-01 1.882E-01 1.883E-01 1.889E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.162E-01 2.146E-01 2.130E-01 2.100E-01 2.091E-01 2.086E-01 2.095E-01 2.102E-01 2.108E-01 2.117E-01 2.119E-01 2.120E-01
%SOLUBILITY 9.010E-02 8.942E-02 8.875E-02 8.750E-02 8.711E-02 8.692E-02 8.728E-02 8.758E-02 8.785E-02 8.822E-02 8.831E-02 8.831E-02
ADSORBED 7.320E-02 7.265E-02 7.211E-02 7.109E-02 7.077E-02 7.062E-02 7.091E-02 7.115E-02 7.137E-02 7.168E-02 7.175E-02 7.175E-02
SOIL AIR 1.568E-01 1.576E-01 1.580E-01 1.577E-01 1.567E-01 1.561E-01 1.538E-01 1.531E-01 1.523E-01 1.506E-01 1.507E-01 1.512E-01

SUBLAYER 2

MOISTURE 2.724E-01 2.703E-01 2.683E-01 2.645E-01 2.633E-01 2.627E-01 2.638E-01 2.647E-01 2.655E-01 2.666E-01 2.669E-01 2.670E-01
%SOLUBILITY 1.135E-01 1.126E-01 1.118E-01 1.102E-01 1.097E-01 1.095E-01 1.099E-01 1.103E-01 1.106E-01 1.111E-01 1.112E-01 1.112E-01
ADSORBED 9.221E-02 9.152E-02 9.084E-02 8.955E-02 8.914E-02 8.894E-02 8.931E-02 8.961E-02 8.989E-02 9.027E-02 9.036E-02 9.037E-02
SOIL AIR 1.975E-01 1.986E-01 1.990E-01 1.987E-01 1.974E-01 1.966E-01 1.937E-01 1.928E-01 1.918E-01 1.897E-01 1.897E-01 1.904E-01

SUBLAYER 3

MOISTURE 3.523E-01 3.497E-01 3.472E-01 3.422E-01 3.406E-01 3.398E-01 3.412E-01 3.424E-01 3.434E-01 3.449E-01 3.452E-01 3.453E-01
%SOLUBILITY 1.468E-01 1.457E-01 1.447E-01 1.426E-01 1.419E-01 1.416E-01 1.422E-01 1.427E-01 1.431E-01 1.437E-01 1.438E-01 1.439E-01
ADSORBED 1.193E-01 1.184E-01 1.175E-01 1.158E-01 1.153E-01 1.150E-01 1.155E-01 1.159E-01 1.163E-01 1.168E-01 1.169E-01 1.169E-01
SOIL AIR 2.555E-01 2.568E-01 2.575E-01 2.570E-01 2.553E-01 2.543E-01 2.505E-01 2.494E-01 2.480E-01 2.453E-01 2.454E-01 2.463E-01

SUBLAYER 4

MOISTURE 4.712E-01 4.678E-01 4.644E-01 4.578E-01 4.556E-01 4.545E-01 4.564E-01 4.579E-01 4.593E-01 4.612E-01 4.617E-01 4.618E-01
%SOLUBILITY 1.963E-01 1.949E-01 1.935E-01 1.907E-01 1.898E-01 1.894E-01 1.901E-01 1.908E-01 1.914E-01 1.922E-01 1.924E-01 1.924E-01
ADSORBED 1.595E-01 1.583E-01 1.572E-01 1.550E-01 1.542E-01 1.539E-01 1.545E-01 1.550E-01 1.555E-01 1.561E-01 1.563E-01 1.563E-01
SOIL AIR 3.417E-01 3.435E-01 3.444E-01 3.438E-01 3.415E-01 3.401E-01 3.350E-01 3.335E-01 3.317E-01 3.280E-01 3.282E-01 3.293E-01

SUBLAYER 5

MOISTURE 6.577E-01 6.530E-01 6.484E-01 6.392E-01 6.360E-01 6.345E-01 6.370E-01 6.391E-01 6.411E-01 6.438E-01 6.445E-01 6.446E-01
%SOLUBILITY 2.740E-01 2.721E-01 2.702E-01 2.663E-01 2.650E-01 2.644E-01 2.654E-01 2.663E-01 2.671E-01 2.683E-01 2.685E-01 2.686E-01
ADSORBED 2.226E-01 2.211E-01 2.195E-01 2.164E-01 2.153E-01 2.148E-01 2.157E-01 2.164E-01 2.170E-01 2.179E-01 2.182E-01 2.182E-01
SOIL AIR 4.770E-01 4.796E-01 4.809E-01 4.800E-01 4.768E-01 4.748E-01 4.676E-01 4.655E-01 4.630E-01 4.579E-01 4.581E-01 4.597E-01

SUBLAYER 6

MOISTURE 9.688E-01 9.621E-01 9.556E-01 9.420E-01 9.373E-01 9.350E-01 9.387E-01 9.418E-01 9.446E-01 9.486E-01 9.496E-01 9.499E-01
%SOLUBILITY 4.037E-01 4.009E-01 3.982E-01 3.925E-01 3.905E-01 3.896E-01 3.911E-01 3.924E-01 3.936E-01 3.953E-01 3.957E-01 3.958E-01
ADSORBED 3.280E-01 3.257E-01 3.235E-01 3.189E-01 3.173E-01 3.165E-01 3.178E-01 3.188E-01 3.198E-01 3.211E-01 3.215E-01 3.215E-01
SOIL AIR 7.026E-01 7.066E-01 7.087E-01 7.074E-01 7.026E-01 6.996E-01 6.891E-01 6.859E-01 6.823E-01 6.747E-01 6.750E-01 6.775E-01

SUBLAYER 7

MOISTURE 1.519E+00 1.509E+00 1.500E+00 1.479E+00 1.471E+00 1.468E+00 1.474E+00 1.479E+00 1.483E+00 1.489E+00 1.491E+00 1.491E+00
%SOLUBILITY 6.330E-01 6.289E-01 6.249E-01 6.161E-01 6.131E-01 6.116E-01 6.141E-01 6.161E-01 6.179E-01 6.206E-01 6.212E-01 6.214E-01
ADSORBED 5.143E-01 5.110E-01 5.077E-01 5.006E-01 4.981E-01 4.969E-01 4.989E-01 5.005E-01 5.020E-01 5.042E-01 5.047E-01 5.048E-01
SOIL AIR 1.102E+00 1.109E+00 1.112E+00 1.111E+00 1.103E+00 1.098E+00 1.082E+00 1.077E+00 1.071E+00 1.059E+00 1.060E+00 1.064E+00

SUBLAYER 8

MOISTURE 2.488E+00 2.474E+00 2.460E+00 2.427E+00 2.417E+00 2.412E+00 2.423E+00 2.431E+00 2.438E+00 2.448E+00 2.451E+00 2.452E+00
%SOLUBILITY 1.037E+00 1.031E+00 1.025E+00 1.011E+00 1.007E+00 1.005E+00 1.010E+00 1.013E+00 1.016E+00 1.020E+00 1.021E+00 1.022E+00
ADSORBED 8.422E-01 8.374E-01 8.326E-01 8.218E-01 8.182E-01 8.166E-01 8.202E-01 8.229E-01 8.253E-01 8.289E-01 8.298E-01 8.301E-01
SOIL AIR 1.804E+00 1.817E+00 1.824E+00 1.823E+00 1.812E+00 1.805E+00 1.779E+00 1.770E+00 1.761E+00 1.742E+00 1.742E+00 1.749E+00

SUBLAYER 9

MOISTURE 3.951E+00 3.932E+00 3.914E+00 3.871E+00 3.860E+00 3.858E+00 3.878E+00 3.891E+00 3.903E+00 3.919E+00 3.924E+00 3.926E+00
%SOLUBILITY 1.646E+00 1.638E+00 1.631E+00 1.613E+00 1.608E+00 1.607E+00 1.616E+00 1.621E+00 1.626E+00 1.633E+00 1.635E+00 1.636E+00
ADSORBED 1.337E+00 1.331E+00 1.325E+00 1.311E+00 1.307E+00 1.306E+00 1.313E+00 1.317E+00 1.321E+00 1.327E+00 1.328E+00 1.329E+00
SOIL AIR 2.865E+00 2.888E+00 2.903E+00 2.907E+00 2.894E+00 2.887E+00 2.847E+00 2.834E+00 2.819E+00 2.788E+00 2.789E+00 2.800E+00

SUBLAYER 10

MOISTURE 5.345E+00 5.327E+00 5.310E+00 5.268E+00 5.266E+00 5.275E+00 5.308E+00 5.327E+00 5.344E+00 5.367E+00 5.374E+00 5.377E+00
%SOLUBILITY 2.227E+00 2.219E+00 2.213E+00 2.195E+00 2.194E+00 2.198E+00 2.212E+00 2.220E+00 2.227E+00 2.236E+00 2.239E+00 2.241E+00
ADSORBED 1.810E+00 1.803E+00 1.798E+00 1.783E+00 1.783E+00 1.786E+00 1.797E+00 1.803E+00 1.809E+00 1.817E+00 1.819E+00 1.820E+00
SOIL AIR 3.876E+00 3.912E+00 3.938E+00 3.956E+00 3.948E+00 3.947E+00 3.897E+00 3.880E+00 3.860E+00 3.817E+00 3.820E+00 3.835E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 1.099E-03 1.300E-02 1.386E-02 1.079E-02 5.686E-03 2.385E-03 8.780E-04 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 120 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.225E+08

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.642E-01
ADSORBED SOIL (UG/G) 8.944E-02
SOIL AIR (UG/ML) 1.931E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.115E-01
ADSORBED SOIL (UG/G) 7.159E-02
SOIL AIR (UG/ML) 1.545E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 2.664E-01
ADSORBED SOIL (UG/G) 9.017E-02
SOIL AIR (UG/ML) 1.946E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 3.445E-01
ADSORBED SOIL (UG/G) 1.166E-01
SOIL AIR (UG/ML) 2.518E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 4.608E-01
ADSORBED SOIL (UG/G) 1.560E-01
SOIL AIR (UG/ML) 3.367E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 6.432E-01
ADSORBED SOIL (UG/G) 2.178E-01
SOIL AIR (UG/ML) 4.701E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 9.478E-01
ADSORBED SOIL (UG/G) 3.209E-01
SOIL AIR (UG/ML) 6.927E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.488E+00
ADSORBED SOIL (UG/G) 5.036E-01
SOIL AIR (UG/ML) 1.087E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 2.443E+00
ADSORBED SOIL (UG/G) 8.272E-01
SOIL AIR (UG/ML) 1.786E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 3.902E+00
ADSORBED SOIL (UG/G) 1.321E+00
SOIL AIR (UG/ML) 2.852E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.324E+00
ADSORBED SOIL (UG/G) 1.802E+00
SOIL AIR (UG/ML) 3.891E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 3.975E-03
1

YEAR - 128 MONTHLY RESULTS (OUTPUT)
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-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	9.240E+07	1.010E+08	1.105E+08	1.314E+08	1.315E+08	1.262E+08	1.169E+08	1.092E+08	1.041E+08	1.004E+08	9.740E+07	9.399E+07
ADS ON SOIL	6.294E+08	6.243E+08	6.194E+08	6.107E+08	6.082E+08	6.070E+08	6.095E+08	6.117E+08	6.136E+08	6.162E+08	6.168E+08	6.169E+08
IN SOIL AIR	1.864E+08	1.804E+08	1.730E+08	1.559E+08	1.545E+08	1.577E+08	1.626E+08	1.678E+08	1.709E+08	1.719E+08	1.742E+08	1.772E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	1.195E+07	1.307E+07	1.431E+07	1.700E+07	1.701E+07	1.632E+07	1.512E+07	1.412E+07	1.346E+07	1.298E+07	1.260E+07	1.215E+07
ADS ON SOIL	8.139E+07	8.077E+07	8.017E+07	7.904E+07	7.868E+07	7.852E+07	7.884E+07	7.911E+07	7.936E+07	7.969E+07	7.977E+07	7.977E+07
IN SOIL AIR	2.410E+07	2.333E+07	2.240E+07	2.018E+07	1.999E+07	2.040E+07	2.103E+07	2.170E+07	2.210E+07	2.223E+07	2.252E+07	2.292E+07

SUBLAYER 2

IN SOIL MOI	1.505E+07	1.646E+07	1.802E+07	2.141E+07	2.143E+07	2.056E+07	1.904E+07	1.778E+07	1.695E+07	1.635E+07	1.586E+07	1.531E+07
ADS ON SOIL	1.025E+08	1.018E+08	1.010E+08	9.956E+07	9.911E+07	9.889E+07	9.929E+07	9.963E+07	9.994E+07	1.004E+08	1.005E+08	1.005E+08
IN SOIL AIR	3.036E+07	2.939E+07	2.821E+07	2.542E+07	2.518E+07	2.569E+07	2.648E+07	2.733E+07	2.783E+07	2.800E+07	2.836E+07	2.886E+07

SUBLAYER 3

IN SOIL MOI	1.947E+07	2.130E+07	2.332E+07	2.771E+07	2.772E+07	2.659E+07	2.463E+07	2.300E+07	2.192E+07	2.115E+07	2.052E+07	1.980E+07
ADS ON SOIL	1.326E+08	1.316E+08	1.307E+08	1.288E+08	1.282E+08	1.279E+08	1.284E+08	1.289E+08	1.293E+08	1.298E+08	1.299E+08	1.300E+08
IN SOIL AIR	3.927E+07	3.802E+07	3.650E+07	3.289E+07	3.257E+07	3.324E+07	3.426E+07	3.535E+07	3.599E+07	3.621E+07	3.669E+07	3.733E+07

SUBLAYER 4

IN SOIL MOI	2.604E+07	2.849E+07	3.120E+07	3.706E+07	3.708E+07	3.557E+07	3.294E+07	3.076E+07	2.932E+07	2.828E+07	2.745E+07	2.648E+07
ADS ON SOIL	1.774E+08	1.761E+08	1.748E+08	1.723E+08	1.715E+08	1.711E+08	1.718E+08	1.724E+08	1.729E+08	1.736E+08	1.738E+08	1.738E+08
IN SOIL AIR	5.252E+07	5.087E+07	4.883E+07	4.400E+07	4.357E+07	4.446E+07	4.582E+07	4.728E+07	4.814E+07	4.843E+07	4.907E+07	4.993E+07

SUBLAYER 5

IN SOIL MOI	3.637E+07	3.979E+07	4.358E+07	5.177E+07	5.179E+07	4.967E+07	4.601E+07	4.295E+07	4.094E+07	3.950E+07	3.833E+07	3.699E+07
ADS ON SOIL	2.477E+08	2.459E+08	2.442E+08	2.407E+08	2.395E+08	2.389E+08	2.399E+08	2.407E+08	2.414E+08	2.424E+08	2.427E+08	2.427E+08
IN SOIL AIR	7.334E+07	7.104E+07	6.821E+07	6.147E+07	6.085E+07	6.209E+07	6.399E+07	6.603E+07	6.723E+07	6.764E+07	6.852E+07	6.973E+07

SUBLAYER 6

N SOIL MOI 5.371E+07 5.879E+07 6.440E+07 7.651E+07 7.651E+07 7.338E+07 6.797E+07 6.345E+07 6.048E+07 5.835E+07 5.662E+07 5.464E+07
DS ON SOIL 3.659E+08 3.633E+08 3.609E+08 3.557E+08 3.539E+08 3.530E+08 3.544E+08 3.556E+08 3.567E+08 3.582E+08 3.585E+08 3.586E+08
IN SOIL AIR 1.083E+08 1.050E+08 1.008E+08 9.083E+07 8.992E+07 9.173E+07 9.453E+07 9.755E+07 9.931E+07 9.992E+07 1.012E+08 1.030E+08

SUBLAYER 7

IN SOIL MOI 8.499E+07 9.305E+07 1.020E+08 1.212E+08 1.212E+08 1.162E+08 1.076E+08 1.005E+08 9.577E+07 9.240E+07 8.966E+07 8.653E+07
ADS ON SOIL 5.789E+08 5.751E+08 5.714E+08 5.633E+08 5.604E+08 5.590E+08 5.613E+08 5.631E+08 5.648E+08 5.672E+08 5.678E+08 5.679E+08
IN SOIL AIR 1.714E+08 1.661E+08 1.596E+08 1.438E+08 1.424E+08 1.453E+08 1.497E+08 1.545E+08 1.573E+08 1.582E+08 1.603E+08 1.631E+08

SUBLAYER 8

IN SOIL MOI 1.434E+08 1.571E+08 1.722E+08 2.048E+08 2.049E+08 1.966E+08 1.821E+08 1.700E+08 1.620E+08 1.563E+08 1.517E+08 1.464E+08
ADS ON SOIL 9.765E+08 9.708E+08 9.651E+08 9.521E+08 9.476E+08 9.456E+08 9.496E+08 9.526E+08 9.555E+08 9.596E+08 9.606E+08 9.610E+08
IN SOIL AIR 2.891E+08 2.804E+08 2.696E+08 2.431E+08 2.408E+08 2.457E+08 2.533E+08 2.613E+08 2.661E+08 2.677E+08 2.712E+08 2.760E+08

SUBLAYER 9

IN SOIL MOI 2.425E+08 2.659E+08 2.919E+08 3.477E+08 3.483E+08 3.345E+08 3.101E+08 2.895E+08 2.759E+08 2.662E+08 2.584E+08 2.494E+08
ADS ON SOIL 1.652E+09 1.644E+09 1.636E+09 1.617E+09 1.611E+09 1.609E+09 1.617E+09 1.622E+09 1.627E+09 1.634E+09 1.636E+09 1.637E+09
IN SOIL AIR 4.891E+08 4.748E+08 4.570E+08 4.128E+08 4.093E+08 4.182E+08 4.313E+08 4.451E+08 4.531E+08 4.559E+08 4.619E+08 4.702E+08

SUBLAYER 10

IN SOIL MOI 3.616E+08 3.970E+08 4.364E+08 5.213E+08 5.234E+08 5.037E+08 4.674E+08 4.365E+08 4.160E+08 4.014E+08 3.896E+08 3.761E+08
ADS ON SOIL 2.463E+09 2.454E+09 2.446E+09 2.424E+09 2.421E+09 2.423E+09 2.437E+09 2.446E+09 2.453E+09 2.464E+09 2.467E+09 2.469E+09
IN SOIL AIR 7.292E+08 7.088E+08 6.831E+08 6.190E+08 6.150E+08 6.296E+08 6.501E+08 6.710E+08 6.832E+08 6.874E+08 6.965E+08 7.091E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.871E+06 3.402E+07 3.627E+07 2.818E+07 1.483E+07 6.216E+06 2.287E+06 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 2.251E-01 2.233E-01 2.215E-01 2.184E-01 2.175E-01 2.171E-01 2.180E-01 2.187E-01 2.194E-01 2.204E-01 2.206E-01 2.206E-01
%SOLUBILITY 9.378E-02 9.303E-02 9.230E-02 9.099E-02 9.062E-02 9.044E-02 9.082E-02 9.114E-02 9.143E-02 9.181E-02 9.191E-02 9.191E-02
ADSORBED 7.619E-02 7.558E-02 7.499E-02 7.393E-02 7.362E-02 7.348E-02 7.379E-02 7.405E-02 7.428E-02 7.459E-02 7.467E-02 7.467E-02
SOIL AIR 1.632E-01 1.640E-01 1.643E-01 1.640E-01 1.630E-01 1.624E-01 1.600E-01 1.593E-01 1.585E-01 1.567E-01 1.568E-01 1.573E-01

LOWER SOIL ZONE:

SUBLAYER 1

OISTURE 1.801E-01 1.787E-01 1.774E-01 1.749E-01 1.741E-01 1.737E-01 1.745E-01 1.750E-01 1.756E-01 1.763E-01 1.765E-01 1.765E-01
SOLUBILITY 7.504E-02 7.447E-02 7.392E-02 7.287E-02 7.254E-02 7.239E-02 7.269E-02 7.294E-02 7.316E-02 7.347E-02 7.354E-02 7.355E-02

ADSORBED 6.097E-02 6.050E-02 6.005E-02 5.920E-02 5.894E-02 5.881E-02 5.906E-02 5.926E-02 5.944E-02 5.969E-02 5.975E-02 5.975E-02
SOIL AIR 1.306E-01 1.313E-01 1.316E-01 1.313E-01 1.305E-01 1.300E-01 1.281E-01 1.275E-01 1.268E-01 1.254E-01 1.255E-01 1.259E-01

SUBLAYER 2

MOISTURE 2.269E-01 2.251E-01 2.235E-01 2.203E-01 2.193E-01 2.188E-01 2.197E-01 2.204E-01 2.211E-01 2.221E-01 2.223E-01 2.223E-01
%SOLUBILITY 9.452E-02 9.381E-02 9.312E-02 9.179E-02 9.137E-02 9.117E-02 9.154E-02 9.185E-02 9.214E-02 9.253E-02 9.262E-02 9.263E-02
ADSORBED 7.679E-02 7.622E-02 7.565E-02 7.458E-02 7.423E-02 7.407E-02 7.437E-02 7.462E-02 7.486E-02 7.517E-02 7.525E-02 7.526E-02
SOIL AIR 1.645E-01 1.654E-01 1.657E-01 1.654E-01 1.644E-01 1.637E-01 1.613E-01 1.606E-01 1.597E-01 1.579E-01 1.580E-01 1.586E-01

SUBLAYER 3

MOISTURE 2.934E-01 2.913E-01 2.891E-01 2.850E-01 2.837E-01 2.830E-01 2.842E-01 2.851E-01 2.860E-01 2.872E-01 2.875E-01 2.876E-01
%SOLUBILITY 1.223E-01 1.214E-01 1.205E-01 1.188E-01 1.182E-01 1.179E-01 1.184E-01 1.188E-01 1.192E-01 1.197E-01 1.198E-01 1.198E-01
ADSORBED 9.933E-02 9.860E-02 9.788E-02 9.648E-02 9.603E-02 9.581E-02 9.620E-02 9.652E-02 9.682E-02 9.723E-02 9.733E-02 9.735E-02
SOIL AIR 2.128E-01 2.139E-01 2.144E-01 2.140E-01 2.127E-01 2.118E-01 2.086E-01 2.077E-01 2.066E-01 2.043E-01 2.044E-01 2.051E-01

SUBLAYER 4

MOISTURE 3.925E-01 3.896E-01 3.868E-01 3.813E-01 3.795E-01 3.786E-01 3.801E-01 3.814E-01 3.825E-01 3.842E-01 3.846E-01 3.846E-01
%SOLUBILITY 1.635E-01 1.623E-01 1.612E-01 1.589E-01 1.581E-01 1.577E-01 1.584E-01 1.589E-01 1.594E-01 1.601E-01 1.602E-01 1.603E-01
ADSORBED 1.329E-01 1.319E-01 1.309E-01 1.291E-01 1.285E-01 1.282E-01 1.287E-01 1.291E-01 1.295E-01 1.300E-01 1.302E-01 1.302E-01
SOIL AIR 2.846E-01 2.862E-01 2.869E-01 2.863E-01 2.845E-01 2.833E-01 2.790E-01 2.778E-01 2.763E-01 2.732E-01 2.734E-01 2.743E-01

SUBLAYER 5

MOISTURE 5.481E-01 5.442E-01 5.403E-01 5.326E-01 5.300E-01 5.287E-01 5.308E-01 5.326E-01 5.342E-01 5.365E-01 5.370E-01 5.371E-01
%SOLUBILITY 2.284E-01 2.267E-01 2.251E-01 2.219E-01 2.208E-01 2.203E-01 2.212E-01 2.219E-01 2.226E-01 2.235E-01 2.238E-01 2.238E-01
ADSORBED 1.855E-01 1.842E-01 1.829E-01 1.803E-01 1.794E-01 1.790E-01 1.797E-01 1.803E-01 1.808E-01 1.816E-01 1.818E-01 1.818E-01
SOIL AIR 3.975E-01 3.997E-01 4.007E-01 4.000E-01 3.973E-01 3.956E-01 3.897E-01 3.879E-01 3.858E-01 3.816E-01 3.817E-01 3.831E-01

SUBLAYER 6

MOISTURE 8.095E-01 8.040E-01 7.985E-01 7.870E-01 7.831E-01 7.811E-01 7.843E-01 7.868E-01 7.892E-01 7.925E-01 7.934E-01 7.935E-01
%SOLUBILITY 3.373E-01 3.350E-01 3.327E-01 3.279E-01 3.263E-01 3.255E-01 3.268E-01 3.278E-01 3.288E-01 3.302E-01 3.306E-01 3.306E-01
ADSORBED 2.740E-01 2.722E-01 2.703E-01 2.664E-01 2.651E-01 2.644E-01 2.655E-01 2.663E-01 2.672E-01 2.683E-01 2.686E-01 2.686E-01
SOIL AIR 5.871E-01 5.905E-01 5.921E-01 5.911E-01 5.870E-01 5.845E-01 5.757E-01 5.730E-01 5.700E-01 5.637E-01 5.639E-01 5.660E-01

SUBLAYER 7

MOISTURE 1.281E+00 1.272E+00 1.264E+00 1.246E+00 1.240E+00 1.237E+00 1.242E+00 1.246E+00 1.250E+00 1.255E+00 1.256E+00 1.257E+00
%SOLUBILITY 5.337E-01 5.302E-01 5.268E-01 5.193E-01 5.167E-01 5.154E-01 5.175E-01 5.191E-01 5.207E-01 5.229E-01 5.234E-01 5.236E-01
ADSORBED 4.336E-01 4.308E-01 4.280E-01 4.219E-01 4.198E-01 4.187E-01 4.204E-01 4.218E-01 4.230E-01 4.248E-01 4.253E-01 4.254E-01
SOIL AIR 9.289E-01 9.346E-01 9.376E-01 9.360E-01 9.296E-01 9.256E-01 9.117E-01 9.074E-01 9.025E-01 8.926E-01 8.930E-01 8.962E-01

SUBLAYER 8

MOISTURE 2.161E+00 2.148E+00 2.135E+00 2.107E+00 2.097E+00 2.092E+00 2.101E+00 2.108E+00 2.114E+00 2.123E+00 2.126E+00 2.126E+00
%SOLUBILITY 9.003E-01 8.950E-01 8.898E-01 8.778E-01 8.737E-01 8.718E-01 8.755E-01 8.783E-01 8.809E-01 8.847E-01 8.856E-01 8.860E-01
ADSORBED 7.315E-01 7.271E-01 7.229E-01 7.132E-01 7.098E-01 7.083E-01 7.113E-01 7.136E-01 7.157E-01 7.188E-01 7.195E-01 7.198E-01
SOIL AIR 1.567E+00 1.578E+00 1.584E+00 1.582E+00 1.572E+00 1.566E+00 1.542E+00 1.535E+00 1.527E+00 1.510E+00 1.511E+00 1.517E+00

SUBLAYER 9

MOISTURE 3.655E+00 3.637E+00 3.620E+00 3.577E+00 3.565E+00 3.561E+00 3.578E+00 3.590E+00 3.601E+00 3.616E+00 3.620E+00 3.622E+00
%SOLUBILITY 1.523E+00 1.515E+00 1.508E+00 1.491E+00 1.485E+00 1.484E+00 1.491E+00 1.496E+00 1.500E+00 1.507E+00 1.508E+00 1.509E+00
ADSORBED 1.237E+00 1.231E+00 1.225E+00 1.211E+00 1.207E+00 1.205E+00 1.211E+00 1.215E+00 1.219E+00 1.224E+00 1.225E+00 1.226E+00
SOIL AIR 2.650E+00 2.671E+00 2.684E+00 2.687E+00 2.672E+00 2.665E+00 2.627E+00 2.615E+00 2.601E+00 2.572E+00 2.573E+00 2.583E+00

SUBLAYER 10

MOISTURE 5.449E+00 5.429E+00 5.411E+00 5.363E+00 5.356E+00 5.361E+00 5.393E+00 5.412E+00 5.429E+00 5.452E+00 5.458E+00 5.462E+00
%SOLUBILITY 2.270E+00 2.262E+00 2.255E+00 2.235E+00 2.232E+00 2.234E+00 2.247E+00 2.255E+00 2.262E+00 2.272E+00 2.274E+00 2.276E+00
ADSORBED 1.845E+00 1.838E+00 1.832E+00 1.816E+00 1.813E+00 1.815E+00 1.826E+00 1.832E+00 1.838E+00 1.846E+00 1.848E+00 1.849E+00
SOIL AIR 3.952E+00 3.987E+00 4.013E+00 4.028E+00 4.015E+00 4.012E+00 3.959E+00 3.942E+00 3.921E+00 3.878E+00 3.880E+00 3.896E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

/VR. CONC. 0.000E+00 0.000E+00 1.120E-03 1.324E-02 1.410E-02 1.096E-02 5.777E-03 2.423E-03 8.919E-04 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 128 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	8.992
TOTAL PRECIPITATION (CM)	32.338
TOTAL INFILTRATION (CM)	25.841
TOTAL EVAPOTRANSPIRATION (CM)	24.575
TOTAL SURFACE RUNOFF (CM)	6.491
TOTAL GRW RUNOFF (CM)	1.265
TOTAL MOISTURE RETENTION (CM)	0.001
TOTAL YIELD (CM)	7.763

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.247E+08

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.200E-01
ADSORBED SOIL (UG/G) 7.449E-02
SOIL AIR (UG/ML) 1.608E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.761E-01
ADSORBED SOIL (UG/G) 5.962E-02
SOIL AIR (UG/ML) 1.287E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 2.218E-01
ADSORBED SOIL (UG/G) 7.509E-02
SOIL AIR (UG/ML) 1.621E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.869E-01
ADSORBED SOIL (UG/G) 9.713E-02
SOIL AIR (UG/ML) 2.097E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 3.838E-01
ADSORBED SOIL (UG/G) 1.299E-01
SOIL AIR (UG/ML) 2.805E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 5.360E-01
ADSORBED SOIL (UG/G) 1.815E-01
SOIL AIR (UG/ML) 3.917E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 7.919E-01
ADSORBED SOIL (UG/G) 2.681E-01
SOIL AIR (UG/ML) 5.787E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.254E+00
ADSORBED SOIL (UG/G) 4.245E-01
SOIL AIR (UG/ML) 9.163E-01

SUBLAYER 8

SOIL MOISTURE (UG/ML) 2.120E+00
ADSORBED SOIL (UG/G) 7.176E-01
SOIL AIR (UG/ML) 1.549E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 3.603E+00
ADSORBED SOIL (UG/G) 1.220E+00
SOIL AIR (UG/ML) 2.633E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.415E+00
ADSORBED SOIL (UG/G) 1.833E+00
SOIL AIR (UG/ML) 3.957E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 4.043E-03

YEAR - 130 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+0

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 8.827E+07 9.650E+07 1.056E+08 1.255E+08 1.256E+08 1.205E+08 1.117E+08 1.043E+08 9.940E+07 9.589E+07 9.305E+07 8.978E+07
ADS ON SOIL 6.012E+08 5.964E+08 5.917E+08 5.834E+08 5.809E+08 5.798E+08 5.823E+08 5.843E+08 5.862E+08 5.886E+08 5.892E+08 5.893E+08
IN SOIL AIR 1.780E+08 1.723E+08 1.653E+08 1.490E+08 1.476E+08 1.507E+08 1.553E+08 1.603E+08 1.632E+08 1.642E+08 1.664E+08 1.693E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 1.142E+07 1.248E+07 1.367E+07 1.624E+07 1.625E+07 1.559E+07 1.444E+07 1.349E+07 1.285E+07 1.240E+07 1.203E+07 1.161E+07
ADS ON SOIL 7.775E+07 7.716E+07 7.659E+07 7.550E+07 7.516E+07 7.500E+07 7.532E+07 7.557E+07 7.581E+07 7.613E+07 7.620E+07 7.621E+07
IN SOIL AIR 2.302E+07 2.229E+07 2.139E+07 1.928E+07 1.910E+07 1.949E+07 2.009E+07 2.073E+07 2.111E+07 2.124E+07 2.151E+07 2.189E+07

SUBLAYER 2

IN SOIL MOI 1.438E+07 1.573E+07 1.722E+07 2.046E+07 2.047E+07 1.964E+07 1.819E+07 1.698E+07 1.619E+07 1.562E+07 1.515E+07 1.462E+07
ADS ON SOIL 9.794E+07 9.720E+07 9.648E+07 9.511E+07 9.467E+07 9.446E+07 9.485E+07 9.517E+07 9.547E+07 9.587E+07 9.597E+07 9.598E+07
IN SOIL AIR 2.900E+07 2.808E+07 2.695E+07 2.429E+07 2.405E+07 2.454E+07 2.530E+07 2.611E+07 2.658E+07 2.674E+07 2.710E+07 2.757E+07

SUBLAYER 3

IN SOIL MOI 1.860E+07 2.035E+07 2.228E+07 2.647E+07 2.648E+07 2.540E+07 2.353E+07 2.197E+07 2.094E+07 2.020E+07 1.960E+07 1.892E+07
ADS ON SOIL 1.267E+08 1.257E+08 1.248E+08 1.230E+08 1.225E+08 1.222E+08 1.227E+08 1.231E+08 1.235E+08 1.240E+08 1.241E+08 1.242E+08
IN SOIL AIR 3.751E+07 3.632E+07 3.487E+07 3.142E+07 3.112E+07 3.175E+07 3.272E+07 3.377E+07 3.439E+07 3.459E+07 3.505E+07 3.566E+07

SUBLAYER 4

IN SOIL MOI 2.488E+07 2.722E+07 2.980E+07 3.541E+07 3.542E+07 3.398E+07 3.147E+07 2.938E+07 2.801E+07 2.702E+07 2.622E+07 2.530E+07
ADS ON SOIL 1.694E+08 1.682E+08 1.670E+08 1.646E+08 1.638E+08 1.634E+08 1.641E+08 1.646E+08 1.652E+08 1.659E+08 1.660E+08 1.661E+08
IN SOIL AIR 5.017E+07 4.859E+07 4.665E+07 4.204E+07 4.162E+07 4.247E+07 4.377E+07 4.517E+07 4.599E+07 4.627E+07 4.688E+07 4.770E+07

SUBLAYER 5

IN SOIL MOI 3.474E+07 3.802E+07 4.163E+07 4.946E+07 4.947E+07 4.745E+07 4.396E+07 4.103E+07 3.911E+07 3.774E+07 3.662E+07 3.534E+07
ADS ON SOIL 2.366E+08 2.350E+08 2.333E+08 2.300E+08 2.288E+08 2.283E+08 2.292E+08 2.299E+08 2.307E+08 2.316E+08 2.319E+08 2.319E+08
IN SOIL AIR 7.007E+07 6.787E+07 6.517E+07 5.872E+07 5.814E+07 5.932E+07 6.113E+07 6.308E+07 6.423E+07 6.462E+07 6.547E+07 6.662E+07

SUBLAYER 6

IN SOIL MOI 5.134E+07 5.619E+07 6.155E+07 7.313E+07 7.313E+07 7.014E+07 6.497E+07 6.065E+07 5.781E+07 5.577E+07 5.412E+07 5.223E+07
ADS ON SOIL 3.497E+08 3.473E+08 3.449E+08 3.400E+08 3.383E+08 3.374E+08 3.388E+08 3.399E+08 3.409E+08 3.423E+08 3.427E+08 3.428E+08
IN SOIL AIR 1.035E+08 1.003E+08 9.635E+07 8.682E+07 8.594E+07 8.767E+07 9.036E+07 9.323E+07 9.492E+07 9.550E+07 9.676E+07 9.846E+07

SUBLAYER 7

SOIL MOI 8.138E+07 8.910E+07 9.763E+07 1.160E+08 1.160E+08 1.113E+08 1.031E+08 9.620E+07 9.169E+07 8.846E+07 8.584E+07 8.284E+07
ADS ON SOIL 5.543E+08 5.506E+08 5.471E+08 5.393E+08 5.366E+08 5.352E+08 5.374E+08 5.391E+08 5.407E+08 5.430E+08 5.436E+08 5.437E+08
IN SOIL AIR 1.641E+08 1.591E+08 1.528E+08 1.377E+08 1.363E+08 1.391E+08 1.433E+08 1.479E+08 1.506E+08 1.515E+08 1.535E+08 1.562E+08

SUBLAYER 8

IN SOIL MOI 1.381E+08 1.513E+08 1.659E+08 1.973E+08 1.974E+08 1.894E+08 1.754E+08 1.638E+08 1.561E+08 1.506E+08 1.461E+08 1.410E+08
ADS ON SOIL 9.410E+08 9.354E+08 9.299E+08 9.173E+08 9.129E+08 9.109E+08 9.148E+08 9.176E+08 9.204E+08 9.243E+08 9.253E+08 9.256E+08
IN SOIL AIR 2.786E+08 2.702E+08 2.597E+08 2.342E+08 2.319E+08 2.367E+08 2.440E+08 2.517E+08 2.563E+08 2.579E+08 2.613E+08 2.659E+08

SUBLAYER 9

IN SOIL MOI 2.370E+08 2.600E+08 2.853E+08 3.398E+08 3.403E+08 3.269E+08 3.030E+08 2.829E+08 2.696E+08 2.601E+08 2.524E+08 2.437E+08
ADS ON SOIL 1.615E+09 1.607E+09 1.599E+09 1.580E+09 1.574E+09 1.572E+09 1.580E+09 1.585E+09 1.590E+09 1.597E+09 1.598E+09 1.599E+09
IN SOIL AIR 4.781E+08 4.641E+08 4.466E+08 4.035E+08 4.000E+08 4.086E+08 4.214E+08 4.348E+08 4.427E+08 4.454E+08 4.513E+08 4.594E+08

SUBLAYER 10

IN SOIL MOI 3.617E+08 3.972E+08 4.366E+08 5.214E+08 5.233E+08 5.036E+08 4.673E+08 4.363E+08 4.159E+08 4.013E+08 3.894E+08 3.760E+08
ADS ON SOIL 2.464E+09 2.455E+09 2.446E+09 2.424E+09 2.421E+09 2.422E+09 2.437E+09 2.445E+09 2.453E+09 2.463E+09 2.466E+09 2.468E+09
IN SOIL AIR 7.295E+08 7.091E+08 6.834E+08 6.190E+08 6.150E+08 6.294E+08 6.499E+08 6.708E+08 6.829E+08 6.871E+08 6.963E+08 7.089E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.872E+06 3.403E+07 3.628E+07 2.817E+07 1.483E+07 6.214E+06 2.286E+06 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 2.150E-01 2.133E-01 2.116E-01 2.086E-01 2.078E-01 2.073E-01 2.082E-01 2.089E-01 2.096E-01 2.105E-01 2.107E-01 2.107E-01
%SOLUBILITY 8.958E-02 8.887E-02 8.817E-02 8.692E-02 8.656E-02 8.639E-02 8.676E-02 8.706E-02 8.734E-02 8.771E-02 8.780E-02 8.780E-02
ADSORBED 7.278E-02 7.220E-02 7.163E-02 7.062E-02 7.033E-02 7.019E-02 7.049E-02 7.073E-02 7.096E-02 7.126E-02 7.133E-02 7.133E-02
SOIL AIR 1.559E-01 1.566E-01 1.569E-01 1.567E-01 1.557E-01 1.552E-01 1.529E-01 1.522E-01 1.514E-01 1.497E-01 1.498E-01 1.503E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.720E-01 1.707E-01 1.695E-01 1.671E-01 1.663E-01 1.660E-01 1.667E-01 1.672E-01 1.677E-01 1.684E-01 1.686E-01 1.686E-01
%SOLUBILITY 7.168E-02 7.114E-02 7.061E-02 6.961E-02 6.930E-02 6.915E-02 6.944E-02 6.967E-02 6.989E-02 7.018E-02 7.025E-02 7.026E-02
ADSORBED 5.824E-02 5.780E-02 5.737E-02 5.655E-02 5.630E-02 5.618E-02 5.641E-02 5.661E-02 5.678E-02 5.702E-02 5.708E-02 5.708E-02
SOIL AIR 1.248E-01 1.254E-01 1.257E-01 1.255E-01 1.247E-01 1.242E-01 1.223E-01 1.218E-01 1.211E-01 1.198E-01 1.199E-01 1.203E-01

SUBLAYER 2

MOISTURE 2.167E-01 2.151E-01 2.135E-01 2.104E-01 2.095E-01 2.090E-01 2.099E-01 2.106E-01 2.112E-01 2.121E-01 2.123E-01 2.124E-01
%SOLUBILITY 9.029E-02 8.961E-02 8.895E-02 8.769E-02 8.728E-02 8.709E-02 8.745E-02 8.774E-02 8.802E-02 8.839E-02 8.848E-02 8.849E-02
ADSORBED 7.336E-02 7.281E-02 7.227E-02 7.124E-02 7.091E-02 7.076E-02 7.105E-02 7.129E-02 7.151E-02 7.181E-02 7.188E-02 7.189E-02
SOIL AIR 1.571E-01 1.580E-01 1.583E-01 1.580E-01 1.570E-01 1.564E-01 1.541E-01 1.534E-01 1.526E-01 1.509E-01 1.509E-01 1.515E-01

SUBLAYER 3

MOISTURE 2.803E-01 2.782E-01 2.762E-01 2.723E-01 2.710E-01 2.704E-01 2.715E-01 2.724E-01 2.732E-01 2.744E-01 2.747E-01 2.747E-01
%SOLUBILITY 1.168E-01 1.159E-01 1.151E-01 1.134E-01 1.129E-01 1.127E-01 1.131E-01 1.135E-01 1.138E-01 1.143E-01 1.144E-01 1.145E-01
ADSORBED 9.489E-02 9.419E-02 9.350E-02 9.217E-02 9.174E-02 9.153E-02 9.190E-02 9.221E-02 9.250E-02 9.289E-02 9.298E-02 9.300E-02
SOIL AIR 2.033E-01 2.044E-01 2.048E-01 2.045E-01 2.031E-01 2.023E-01 1.993E-01 1.984E-01 1.973E-01 1.952E-01 1.952E-01 1.959E-01

SUBLAYER 4

MOISTURE 3.749E-01 3.722E-01 3.695E-01 3.642E-01 3.625E-01 3.616E-01 3.631E-01 3.643E-01 3.654E-01 3.670E-01 3.674E-01 3.674E-01
%SOLUBILITY 1.562E-01 1.551E-01 1.540E-01 1.518E-01 1.510E-01 1.507E-01 1.513E-01 1.518E-01 1.523E-01 1.529E-01 1.531E-01 1.531E-01
ADSORBED 1.269E-01 1.260E-01 1.251E-01 1.233E-01 1.227E-01 1.224E-01 1.229E-01 1.233E-01 1.237E-01 1.242E-01 1.244E-01 1.244E-01
SOIL AIR 2.719E-01 2.734E-01 2.740E-01 2.735E-01 2.717E-01 2.706E-01 2.666E-01 2.653E-01 2.639E-01 2.610E-01 2.611E-01 2.621E-01

SUBLAYER 5

MOISTURE 5.236E-01 5.199E-01 5.162E-01 5.088E-01 5.063E-01 5.051E-01 5.071E-01 5.088E-01 5.104E-01 5.125E-01 5.131E-01 5.132E-01
%SOLUBILITY 2.182E-01 2.166E-01 2.151E-01 2.120E-01 2.110E-01 2.105E-01 2.113E-01 2.120E-01 2.127E-01 2.136E-01 2.138E-01 2.138E-01
ADSORBED 1.773E-01 1.760E-01 1.748E-01 1.723E-01 1.714E-01 1.710E-01 1.717E-01 1.722E-01 1.728E-01 1.735E-01 1.737E-01 1.737E-01
SOIL AIR 3.797E-01 3.818E-01 3.828E-01 3.821E-01 3.796E-01 3.780E-01 3.723E-01 3.706E-01 3.686E-01 3.645E-01 3.647E-01 3.660E-01

SUBLAYER 6

MOISTURE 7.738E-01 7.684E-01 7.632E-01 7.523E-01 7.485E-01 7.466E-01 7.496E-01 7.520E-01 7.543E-01 7.575E-01 7.583E-01 7.585E-01
%SOLUBILITY 3.224E-01 3.202E-01 3.180E-01 3.134E-01 3.119E-01 3.111E-01 3.123E-01 3.133E-01 3.143E-01 3.156E-01 3.160E-01 3.160E-01
ADSORBED 2.619E-01 2.601E-01 2.584E-01 2.547E-01 2.534E-01 2.527E-01 2.538E-01 2.546E-01 2.553E-01 2.564E-01 2.567E-01 2.568E-01
SOIL AIR 5.611E-01 5.644E-01 5.660E-01 5.650E-01 5.611E-01 5.587E-01 5.503E-01 5.477E-01 5.448E-01 5.388E-01 5.390E-01 5.409E-01

SUBLAYER 7

MOISTURE 1.226E+00 1.218E+00 1.211E+00 1.193E+00 1.187E+00 1.184E+00 1.189E+00 1.193E+00 1.196E+00 1.201E+00 1.203E+00 1.203E+00
%SOLUBILITY 5.110E-01 5.077E-01 5.044E-01 4.972E-01 4.947E-01 4.935E-01 4.954E-01 4.970E-01 4.985E-01 5.006E-01 5.011E-01 5.013E-01
ADSORBED 4.152E-01 4.125E-01 4.098E-01 4.040E-01 4.019E-01 4.009E-01 4.025E-01 4.038E-01 4.050E-01 4.067E-01 4.072E-01 4.073E-01
SOIL AIR 8.894E-01 8.949E-01 8.977E-01 8.962E-01 8.900E-01 8.862E-01 8.729E-01 8.687E-01 8.641E-01 8.546E-01 8.549E-01 8.580E-01

SUBLAYER 8

MOISTURE 2.082E+00 2.070E+00 2.058E+00 2.030E+00 2.020E+00 2.016E+00 2.024E+00 2.030E+00 2.037E+00 2.045E+00 2.047E+00 2.048E+00
%SOLUBILITY 8.675E-01 8.624E-01 8.573E-01 8.457E-01 8.417E-01 8.398E-01 8.434E-01 8.460E-01 8.486E-01 8.522E-01 8.531E-01 8.534E-01
ADSORBED 7.048E-01 7.006E-01 6.965E-01 6.871E-01 6.838E-01 6.823E-01 6.852E-01 6.873E-01 6.894E-01 6.923E-01 6.931E-01 6.933E-01
SOIL AIR 1.510E+00 1.520E+00 1.526E+00 1.524E+00 1.514E+00 1.508E+00 1.486E+00 1.479E+00 1.471E+00 1.455E+00 1.455E+00 1.461E+00

SUBLAYER 9

MOISTURE 3.573E+00 3.555E+00 3.538E+00 3.496E+00 3.483E+00 3.479E+00 3.496E+00 3.507E+00 3.518E+00 3.533E+00 3.537E+00 3.539E+00
%SOLUBILITY 1.489E+00 1.481E+00 1.474E+00 1.457E+00 1.451E+00 1.450E+00 1.457E+00 1.461E+00 1.466E+00 1.472E+00 1.474E+00 1.474E+00
ADSORBED 1.209E+00 1.203E+00 1.198E+00 1.183E+00 1.179E+00 1.178E+00 1.183E+00 1.187E+00 1.191E+00 1.196E+00 1.197E+00 1.198E+00
SOIL AIR 2.591E+00 2.611E+00 2.624E+00 2.626E+00 2.611E+00 2.603E+00 2.566E+00 2.554E+00 2.541E+00 2.513E+00 2.514E+00 2.524E+00

SUBLAYER 10

MOISTURE 5.452E+00 5.431E+00 5.413E+00 5.364E+00 5.356E+00 5.360E+00 5.391E+00 5.410E+00 5.427E+00 5.450E+00 5.457E+00 5.460E+00
%SOLUBILITY 2.271E+00 2.263E+00 2.255E+00 2.235E+00 2.232E+00 2.233E+00 2.246E+00 2.254E+00 2.261E+00 2.271E+00 2.274E+00 2.275E+00
ADSORBED 1.845E+00 1.839E+00 1.832E+00 1.816E+00 1.813E+00 1.814E+00 1.825E+00 1.831E+00 1.837E+00 1.845E+00 1.847E+00 1.848E+00
SOIL AIR 3.953E+00 3.989E+00 4.014E+00 4.028E+00 4.015E+00 4.011E+00 3.958E+00 3.940E+00 3.919E+00 3.876E+00 3.879E+00 3.894E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 1.121E-03 1.324E-02 1.410E-02 1.096E-02 5.775E-03 2.422E-03 8.916E-04 0.000E+00 0.000E+00 0.000E+00

1 YEAR - 130 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00
SOIL ZONE 2 0.000E+00
SOIL ZONE 3 0.000E+00
LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.247E+08

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.102E-01
ADSORBED SOIL (UG/G) 7.115E-02
SOIL AIR (UG/ML) 1.536E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.682E-01
ADSORBED SOIL (UG/G) 5.695E-02
SOIL AIR (UG/ML) 1.229E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 2.119E-01
ADSORBED SOIL (UG/G) 7.173E-02
SOIL AIR (UG/ML) 1.549E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.741E-01
ADSORBED SOIL (UG/G) 9.279E-02
SOIL AIR (UG/ML) 2.003E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 3.666E-01
ADSORBED SOIL (UG/G) 1.241E-01
SOIL AIR (UG/ML) 2.679E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 5.121E-01
ADSORBED SOIL (UG/G) 1.734E-01
SOIL AIR (UG/ML) 3.742E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 7.569E-01
ADSORBED SOIL (UG/G) 2.562E-01

SOIL AIR (UG/ML) 5.531E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.200E+00
ADSORBED SOIL (UG/G) 4.064E-01
SOIL AIR (UG/ML) 8.773E-01

SUBLAYER 8

SOIL MOISTURE (UG/ML) 2.042E+00
ADSORBED SOIL (UG/G) 6.913E-01
SOIL AIR (UG/ML) 1.492E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 3.521E+00
ADSORBED SOIL (UG/G) 1.192E+00
SOIL AIR (UG/ML) 2.573E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.414E+00
ADSORBED SOIL (UG/G) 1.833E+00
SOIL AIR (UG/ML) 3.957E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 4.042E-03
1

YEAR - 140 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

-- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 7.021E+07 7.675E+07 8.399E+07 9.980E+07 9.990E+07 9.587E+07 8.882E+07 8.293E+07 7.906E+07 7.627E+07 7.401E+07 7.141E+07
ADS ON SOIL 4.782E+08 4.744E+08 4.707E+08 4.640E+08 4.621E+08 4.612E+08 4.631E+08 4.647E+08 4.662E+08 4.682E+08 4.687E+08 4.687E+08
IN SOIL AIR 1.416E+08 1.370E+08 1.315E+08 1.185E+08 1.174E+08 1.198E+08 1.235E+08 1.275E+08 1.298E+08 1.306E+08 1.323E+08 1.346E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 9.079E+06 9.930E+06 1.087E+07 1.292E+07 1.293E+07 1.240E+07 1.149E+07 1.073E+07 1.022E+07 9.864E+06 9.571E+06 9.235E+06
ADS ON SOIL 6.184E+07 6.137E+07 6.092E+07 6.005E+07 5.978E+07 5.966E+07 5.990E+07 6.011E+07 6.030E+07 6.055E+07 6.061E+07 6.061E+07
IN SOIL AIR 1.831E+07 1.773E+07 1.702E+07 1.534E+07 1.519E+07 1.550E+07 1.598E+07 1.649E+07 1.679E+07 1.689E+07 1.711E+07 1.741E+07

SUBLAYER 2

IN SOIL MOI 1.144E+07 1.251E+07 1.369E+07 1.627E+07 1.628E+07 1.562E+07 1.447E+07 1.351E+07 1.288E+07 1.242E+07 1.205E+07 1.163E+07
ADS ON SOIL 7.790E+07 7.731E+07 7.674E+07 7.565E+07 7.530E+07 7.513E+07 7.544E+07 7.569E+07 7.593E+07 7.625E+07 7.633E+07 7.634E+07
IN SOIL AIR 2.306E+07 2.233E+07 2.144E+07 1.932E+07 1.913E+07 1.952E+07 2.012E+07 2.077E+07 2.114E+07 2.127E+07 2.155E+07 2.193E+07

SUBLAYER 3

IN SOIL MOI 1.479E+07 1.618E+07 1.772E+07 2.105E+07 2.106E+07 2.020E+07 1.872E+07 1.747E+07 1.665E+07 1.607E+07 1.559E+07 1.505E+07
ADS ON SOIL 1.008E+08 1.000E+08 9.929E+07 9.787E+07 9.741E+07 9.719E+07 9.759E+07 9.791E+07 9.822E+07 9.863E+07 9.873E+07 9.875E+07
IN SOIL AIR 2.984E+07 2.889E+07 2.773E+07 2.499E+07 2.475E+07 2.525E+07 2.603E+07 2.686E+07 2.735E+07 2.751E+07 2.788E+07 2.837E+07

SUBLAYER 4

IN SOIL MOI 1.979E+07 2.165E+07 2.371E+07 2.817E+07 2.818E+07 2.703E+07 2.504E+07 2.337E+07 2.228E+07 2.149E+07 2.086E+07 2.013E+07
ADS ON SOIL 1.348E+08 1.338E+08 1.329E+08 1.310E+08 1.303E+08 1.300E+08 1.305E+08 1.310E+08 1.314E+08 1.319E+08 1.321E+08 1.321E+08
IN SOIL AIR 3.991E+07 3.866E+07 3.711E+07 3.344E+07 3.311E+07 3.378E+07 3.482E+07 3.593E+07 3.658E+07 3.681E+07 3.729E+07 3.794E+07

SUBLAYER 5

IN SOIL MOI 2.765E+07 3.025E+07 3.313E+07 3.936E+07 3.937E+07 3.776E+07 3.498E+07 3.265E+07 3.112E+07 3.003E+07 2.914E+07 2.812E+07
ADS ON SOIL 1.883E+08 1.870E+08 1.857E+08 1.830E+08 1.821E+08 1.817E+08 1.824E+08 1.830E+08 1.835E+08 1.843E+08 1.845E+08 1.846E+08
IN SOIL AIR 5.576E+07 5.401E+07 5.186E+07 4.673E+07 4.627E+07 4.720E+07 4.865E+07 5.020E+07 5.111E+07 5.142E+07 5.210E+07 5.301E+07

SUBLAYER 6

IN SOIL MOI 4.092E+07 4.479E+07 4.906E+07 5.828E+07 5.829E+07 5.590E+07 5.178E+07 4.834E+07 4.607E+07 4.445E+07 4.313E+07 4.162E+07
ADS ON SOIL 2.787E+08 2.768E+08 2.749E+08 2.710E+08 2.696E+08 2.689E+08 2.700E+08 2.709E+08 2.717E+08 2.728E+08 2.731E+08 2.732E+08
IN SOIL AIR 8.254E+07 7.996E+07 7.680E+07 6.920E+07 6.850E+07 6.988E+07 7.201E+07 7.431E+07 7.565E+07 7.611E+07 7.711E+07 7.847E+07

SUBLAYER 7

IN SOIL MOI 6.530E+07 7.150E+07 7.834E+07 9.307E+07 9.307E+07 8.926E+07 8.267E+07 7.717E+07 7.355E+07 7.096E+07 6.886E+07 6.646E+07
ADS ON SOIL 4.448E+08 4.419E+08 4.390E+08 4.327E+08 4.305E+08 4.294E+08 4.311E+08 4.324E+08 4.338E+08 4.356E+08 4.361E+08 4.362E+08
IN SOIL AIR 1.317E+08 1.276E+08 1.226E+08 1.105E+08 1.094E+08 1.116E+08 1.150E+08 1.186E+08 1.208E+08 1.215E+08 1.231E+08 1.253E+08

SUBLAYER 8

SOIL MOI 1.137E+08 1.246E+08 1.366E+08 1.623E+08 1.623E+08 1.557E+08 1.442E+08 1.346E+08 1.283E+08 1.238E+08 1.201E+08 1.160E+08
ADS ON SOIL 7.746E+08 7.699E+08 7.653E+08 7.547E+08 7.509E+08 7.491E+08 7.522E+08 7.545E+08 7.568E+08 7.600E+08 7.608E+08 7.611E+08
IN SOIL AIR 2.294E+08 2.224E+08 2.138E+08 1.927E+08 1.908E+08 1.946E+08 2.006E+08 2.070E+08 2.107E+08 2.120E+08 2.148E+08 2.186E+08

SUBLAYER 9

IN SOIL MOI 2.081E+08 2.282E+08 2.504E+08 2.980E+08 2.983E+08 2.863E+08 2.654E+08 2.477E+08 2.361E+08 2.278E+08 2.210E+08 2.134E+08
ADS ON SOIL 1.418E+09 1.410E+09 1.403E+09 1.386E+09 1.380E+09 1.377E+09 1.384E+09 1.388E+09 1.392E+09 1.398E+09 1.400E+09 1.400E+09
IN SOIL AIR 4.197E+08 4.074E+08 3.920E+08 3.538E+08 3.505E+08 3.579E+08 3.691E+08 3.808E+08 3.877E+08 3.900E+08 3.952E+08 4.023E+08

SUBLAYER 10

IN SOIL MOI 3.544E+08 3.890E+08 4.275E+08 5.101E+08 5.116E+08 4.919E+08 4.563E+08 4.260E+08 4.060E+08 3.917E+08 3.802E+08 3.670E+08
ADS ON SOIL 2.414E+09 2.404E+09 2.396E+09 2.372E+09 2.366E+09 2.366E+09 2.379E+09 2.387E+09 2.394E+09 2.405E+09 2.407E+09 2.409E+09
IN SOIL AIR 7.147E+08 6.945E+08 6.692E+08 6.056E+08 6.011E+08 6.148E+08 6.345E+08 6.548E+08 6.667E+08 6.708E+08 6.797E+08 6.920E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.813E+06 3.331E+07 3.547E+07 2.753E+07 1.448E+07 6.066E+06 2.232E+06 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 1.710E-01 1.696E-01 1.683E-01 1.659E-01 1.652E-01 1.649E-01 1.656E-01 1.662E-01 1.667E-01 1.674E-01 1.676E-01 1.676E-01
%SOLUBILITY 7.125E-02 7.068E-02 7.013E-02 6.914E-02 6.885E-02 6.872E-02 6.901E-02 6.925E-02 6.947E-02 6.976E-02 6.983E-02 6.983E-02
ADSORBED 5.789E-02 5.743E-02 5.698E-02 5.617E-02 5.594E-02 5.583E-02 5.606E-02 5.626E-02 5.644E-02 5.668E-02 5.673E-02 5.674E-02
SOIL AIR 1.240E-01 1.246E-01 1.248E-01 1.246E-01 1.239E-01 1.234E-01 1.216E-01 1.210E-01 1.204E-01 1.191E-01 1.191E-01 1.195E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.368E-01 1.358E-01 1.348E-01 1.329E-01 1.323E-01 1.320E-01 1.326E-01 1.330E-01 1.334E-01 1.340E-01 1.341E-01 1.341E-01
%SOLUBILITY 5.702E-02 5.658E-02 5.616E-02 5.537E-02 5.512E-02 5.500E-02 5.523E-02 5.542E-02 5.559E-02 5.582E-02 5.588E-02 5.588E-02
ADSORBED 4.632E-02 4.597E-02 4.563E-02 4.498E-02 4.478E-02 4.468E-02 4.487E-02 4.502E-02 4.516E-02 4.535E-02 4.540E-02 4.540E-02
SOIL AIR 9.923E-02 9.974E-02 9.996E-02 9.979E-02 9.917E-02 9.877E-02 9.730E-02 9.687E-02 9.636E-02 9.529E-02 9.533E-02 9.565E-02

SUBLAYER 2

MOISTURE 1.724E-01 1.711E-01 1.698E-01 1.674E-01 1.666E-01 1.662E-01 1.669E-01 1.675E-01 1.680E-01 1.687E-01 1.689E-01 1.689E-01
%SOLUBILITY 7.182E-02 7.128E-02 7.075E-02 6.974E-02 6.942E-02 6.927E-02 6.955E-02 6.979E-02 7.000E-02 7.030E-02 7.037E-02 7.038E-02
ADSORBED 5.835E-02 5.791E-02 5.748E-02 5.666E-02 5.640E-02 5.628E-02 5.651E-02 5.670E-02 5.688E-02 5.712E-02 5.717E-02 5.718E-02
SOIL AIR 1.250E-01 1.256E-01 1.259E-01 1.257E-01 1.249E-01 1.244E-01 1.225E-01 1.220E-01 1.213E-01 1.200E-01 1.201E-01 1.205E-01

SUBLAYER 3

MOISTURE 2.230E-01 2.213E-01 2.197E-01 2.166E-01 2.155E-01 2.151E-01 2.159E-01 2.167E-01 2.173E-01 2.182E-01 2.185E-01 2.185E-01
%SOLUBILITY 9.290E-02 9.221E-02 9.154E-02 9.023E-02 8.981E-02 8.960E-02 8.997E-02 9.027E-02 9.055E-02 9.093E-02 9.103E-02 9.104E-02
ADSORBED 7.548E-02 7.492E-02 7.437E-02 7.331E-02 7.297E-02 7.280E-02 7.310E-02 7.334E-02 7.357E-02 7.388E-02 7.396E-02 7.397E-02
SOIL AIR 1.617E-01 1.625E-01 1.629E-01 1.626E-01 1.616E-01 1.609E-01 1.585E-01 1.578E-01 1.570E-01 1.552E-01 1.553E-01 1.558E-01

SUBLAYER 4

MOISTURE 2.983E-01 2.961E-01 2.940E-01 2.898E-01 2.884E-01 2.877E-01 2.889E-01 2.898E-01 2.907E-01 2.919E-01 2.922E-01 2.923E-01
%SOLUBILITY 1.243E-01 1.234E-01 1.225E-01 1.207E-01 1.202E-01 1.199E-01 1.204E-01 1.208E-01 1.211E-01 1.216E-01 1.218E-01 1.218E-01
ADSORBED 1.010E-01 1.002E-01 9.951E-02 9.809E-02 9.762E-02 9.739E-02 9.779E-02 9.811E-02 9.841E-02 9.883E-02 9.893E-02 9.895E-02
SOIL AIR 2.163E-01 2.175E-01 2.180E-01 2.176E-01 2.162E-01 2.153E-01 2.120E-01 2.111E-01 2.100E-01 2.076E-01 2.077E-01 2.085E-01

SUBLAYER 5

MOISTURE 4.167E-01 4.137E-01 4.108E-01 4.049E-01 4.029E-01 4.020E-01 4.036E-01 4.049E-01 4.061E-01 4.079E-01 4.083E-01 4.084E-01
%SOLUBILITY 1.736E-01 1.724E-01 1.712E-01 1.687E-01 1.679E-01 1.675E-01 1.682E-01 1.687E-01 1.692E-01 1.699E-01 1.701E-01 1.701E-01
ADSORBED 1.411E-01 1.401E-01 1.391E-01 1.371E-01 1.364E-01 1.361E-01 1.366E-01 1.371E-01 1.375E-01 1.381E-01 1.382E-01 1.382E-01
SOIL AIR 3.022E-01 3.039E-01 3.047E-01 3.041E-01 3.021E-01 3.008E-01 2.963E-01 2.949E-01 2.933E-01 2.901E-01 2.902E-01 2.912E-01

SUBLAYER 6

MOISTURE 6.168E-01 6.125E-01 6.083E-01 5.996E-01 5.965E-01 5.950E-01 5.974E-01 5.993E-01 6.012E-01 6.037E-01 6.043E-01 6.045E-01
%SOLUBILITY 2.570E-01 2.552E-01 2.535E-01 2.498E-01 2.486E-01 2.479E-01 2.489E-01 2.497E-01 2.505E-01 2.515E-01 2.518E-01 2.519E-01
ADSORBED 2.088E-01 2.073E-01 2.059E-01 2.030E-01 2.019E-01 2.014E-01 2.022E-01 2.029E-01 2.035E-01 2.044E-01 2.046E-01 2.046E-01
SOIL AIR 4.473E-01 4.499E-01 4.511E-01 4.503E-01 4.472E-01 4.453E-01 4.385E-01 4.365E-01 4.342E-01 4.294E-01 4.296E-01 4.311E-01

SUBLAYER 7

MOISTURE 9.842E-01 9.777E-01 9.713E-01 9.575E-01 9.525E-01 9.501E-01 9.539E-01 9.569E-01 9.598E-01 9.638E-01 9.649E-01 9.651E-01
%SOLUBILITY 4.101E-01 4.074E-01 4.047E-01 3.990E-01 3.969E-01 3.959E-01 3.974E-01 3.987E-01 3.999E-01 4.016E-01 4.020E-01 4.021E-01
ADSORBED 3.332E-01 3.310E-01 3.288E-01 3.241E-01 3.224E-01 3.216E-01 3.229E-01 3.239E-01 3.249E-01 3.263E-01 3.266E-01 3.267E-01
SOIL AIR 7.137E-01 7.181E-01 7.203E-01 7.191E-01 7.141E-01 7.109E-01 7.002E-01 6.969E-01 6.932E-01 6.855E-01 6.858E-01 6.883E-01

SUBLAYER 8

MOISTURE 1.714E+00 1.704E+00 1.693E+00 1.670E+00 1.662E+00 1.658E+00 1.664E+00 1.669E+00 1.674E+00 1.682E+00 1.683E+00 1.684E+00
%SOLUBILITY 7.142E-01 7.099E-01 7.056E-01 6.958E-01 6.923E-01 6.906E-01 6.935E-01 6.956E-01 6.977E-01 7.007E-01 7.014E-01 7.017E-01
ADSORBED 5.802E-01 5.767E-01 5.733E-01 5.653E-01 5.625E-01 5.611E-01 5.634E-01 5.651E-01 5.668E-01 5.692E-01 5.699E-01 5.701E-01
SOIL AIR 1.243E+00 1.251E+00 1.256E+00 1.254E+00 1.246E+00 1.240E+00 1.222E+00 1.216E+00 1.209E+00 1.196E+00 1.197E+00 1.201E+00

SUBLAYER 9

MOISTURE 3.137E+00 3.120E+00 3.105E+00 3.066E+00 3.053E+00 3.048E+00 3.062E+00 3.071E+00 3.081E+00 3.094E+00 3.097E+00 3.099E+00
%SOLUBILITY 1.307E+00 1.300E+00 1.294E+00 1.277E+00 1.272E+00 1.270E+00 1.276E+00 1.280E+00 1.284E+00 1.289E+00 1.291E+00 1.291E+00
ADSORBED 1.062E+00 1.056E+00 1.051E+00 1.038E+00 1.033E+00 1.032E+00 1.036E+00 1.040E+00 1.043E+00 1.047E+00 1.048E+00 1.049E+00
SOIL AIR 2.275E+00 2.292E+00 2.303E+00 2.303E+00 2.289E+00 2.281E+00 2.248E+00 2.237E+00 2.225E+00 2.200E+00 2.202E+00 2.210E+00

SUBLAYER 10

MOISTURE 5.341E+00 5.320E+00 5.301E+00 5.248E+00 5.235E+00 5.236E+00 5.264E+00 5.282E+00 5.298E+00 5.320E+00 5.327E+00 5.330E+00
%SOLUBILITY 2.225E+00 2.217E+00 2.209E+00 2.187E+00 2.181E+00 2.181E+00 2.193E+00 2.201E+00 2.207E+00 2.217E+00 2.219E+00 2.221E+00
ADSORBED 1.808E+00 1.801E+00 1.794E+00 1.776E+00 1.772E+00 1.772E+00 1.782E+00 1.788E+00 1.793E+00 1.801E+00 1.803E+00 1.804E+00
SOIL AIR 3.873E+00 3.907E+00 3.931E+00 3.941E+00 3.925E+00 3.918E+00 3.864E+00 3.847E+00 3.826E+00 3.784E+00 3.786E+00 3.802E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 1.097E-03 1.295E-02 1.378E-02 1.071E-02 5.639E-03 2.364E-03 8.704E-04 0.000E+00 0.000E+00 0.000E+00

1 YEAR - 140 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00

SOIL ZONE 2 0.000E+00
)IL ZONE 3 0.000E+00
)WER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.219E+08

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.672E-01
ADSORBED SOIL (UG/G) 5.659E-02
SOIL AIR (UG/ML) 1.222E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.338E-01
ADSORBED SOIL (UG/G) 4.530E-02
SOIL AIR (UG/ML) 9.779E-02

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.685E-01
ADSORBED SOIL (UG/G) 5.705E-02
SOIL AIR (UG/ML) 1.232E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.180E-01
ADSORBED SOIL (UG/G) 7.380E-02
SOIL AIR (UG/ML) 1.593E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 2.917E-01
ADSORBED SOIL (UG/G) 9.874E-02
SOIL AIR (UG/ML) 2.131E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 4.075E-01
ADSORBED SOIL (UG/G) 1.380E-01
SOIL AIR (UG/ML) 2.978E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 6.033E-01
ADSORBED SOIL (UG/G) 2.042E-01
SOIL AIR (UG/ML) 4.409E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 9.631E-01
ADSORBED SOIL (UG/G) 3.260E-01

SOIL AIR (UG/ML) 7.039E-01

SUBLAYER 8

SOIL MOISTURE (UG/ML) 1.680E+00
ADSORBED SOIL (UG/G) 5.686E-01
SOIL AIR (UG/ML) 1.228E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 3.086E+00
ADSORBED SOIL (UG/G) 1.045E+00
SOIL AIR (UG/ML) 2.255E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.292E+00
ADSORBED SOIL (UG/G) 1.791E+00
SOIL AIR (UG/ML) 3.867E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 3.951E-03
1

YEAR - 150 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 5.583E+07 6.103E+07 6.679E+07 7.936E+07 7.944E+07 7.623E+07 7.062E+07 6.595E+07 6.286E+07 6.065E+07 5.885E+07 5.678E+07
ADS ON SOIL 3.803E+08 3.772E+08 3.743E+08 3.690E+08 3.674E+08 3.667E+08 3.683E+08 3.695E+08 3.707E+08 3.723E+08 3.727E+08 3.727E+08
IN SOIL AIR 1.126E+08 1.090E+08 1.045E+08 9.422E+07 9.335E+07 9.529E+07 9.822E+07 1.014E+08 1.032E+08 1.039E+08 1.052E+08 1.071E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 7.220E+06 7.896E+06 8.644E+06 1.027E+07 1.028E+07 9.861E+06 9.135E+06 8.529E+06 8.130E+06 7.844E+06 7.611E+06 7.343E+06
ADS ON SOIL 4.918E+07 4.880E+07 4.844E+07 4.775E+07 4.754E+07 4.744E+07 4.764E+07 4.780E+07 4.795E+07 4.815E+07 4.819E+07 4.820E+07
IN SOIL AIR 1.456E+07 1.410E+07 1.353E+07 1.219E+07 1.208E+07 1.233E+07 1.271E+07 1.311E+07 1.335E+07 1.343E+07 1.361E+07 1.384E+07

SUBLAYER 2

IN SOIL MOI 9.094E+06 9.947E+06 1.089E+07 1.294E+07 1.295E+07 1.242E+07 1.150E+07 1.074E+07 1.024E+07 9.878E+06 9.585E+06 9.249E+06
ADS ON SOIL 6.194E+07 6.148E+07 6.102E+07 6.015E+07 5.988E+07 5.974E+07 5.999E+07 6.019E+07 6.038E+07 6.063E+07 6.070E+07 6.070E+07
IN SOIL AIR 1.834E+07 1.776E+07 1.705E+07 1.536E+07 1.521E+07 1.552E+07 1.600E+07 1.651E+07 1.681E+07 1.691E+07 1.714E+07 1.744E+07

SUBLAYER 3

IN SOIL MOI 1.176E+07 1.287E+07 1.409E+07 1.674E+07 1.675E+07 1.607E+07 1.488E+07 1.389E+07 1.324E+07 1.278E+07 1.240E+07 1.196E+07
ADS ON SOIL 8.013E+07 7.953E+07 7.895E+07 7.783E+07 7.746E+07 7.728E+07 7.760E+07 7.786E+07 7.810E+07 7.843E+07 7.851E+07 7.852E+07
IN SOIL AIR 2.373E+07 2.298E+07 2.205E+07 1.987E+07 1.968E+07 2.008E+07 2.070E+07 2.136E+07 2.175E+07 2.188E+07 2.217E+07 2.256E+07

SUBLAYER 4

IN SOIL MOI 1.574E+07 1.722E+07 1.885E+07 2.240E+07 2.241E+07 2.149E+07 1.991E+07 1.859E+07 1.772E+07 1.709E+07 1.659E+07 1.601E+07
ADS ON SOIL 1.072E+08 1.064E+08 1.057E+08 1.041E+08 1.036E+08 1.034E+08 1.038E+08 1.042E+08 1.045E+08 1.049E+08 1.050E+08 1.050E+08
IN SOIL AIR 3.174E+07 3.074E+07 2.951E+07 2.659E+07 2.633E+07 2.687E+07 2.769E+07 2.857E+07 2.909E+07 2.927E+07 2.965E+07 3.017E+07

SUBLAYER 5

IN SOIL MOI 2.199E+07 2.407E+07 2.636E+07 3.131E+07 3.132E+07 3.004E+07 2.782E+07 2.598E+07 2.476E+07 2.389E+07 2.318E+07 2.237E+07
ADS ON SOIL 1.498E+08 1.487E+08 1.477E+08 1.456E+08 1.449E+08 1.445E+08 1.451E+08 1.456E+08 1.460E+08 1.466E+08 1.468E+08 1.468E+08
IN SOIL AIR 4.436E+07 4.297E+07 4.126E+07 3.717E+07 3.680E+07 3.755E+07 3.870E+07 3.993E+07 4.066E+07 4.090E+07 4.144E+07 4.217E+07

SUBLAYER 6

IN SOIL MOI 3.258E+07 3.566E+07 3.906E+07 4.641E+07 4.641E+07 4.451E+07 4.122E+07 3.848E+07 3.668E+07 3.539E+07 3.434E+07 3.314E+07
ADS ON SOIL 2.219E+08 2.204E+08 2.189E+08 2.157E+08 2.147E+08 2.141E+08 2.150E+08 2.156E+08 2.163E+08 2.172E+08 2.175E+08 2.175E+08
IN SOIL AIR 6.572E+07 6.367E+07 6.115E+07 5.509E+07 5.454E+07 5.563E+07 5.733E+07 5.916E+07 6.023E+07 6.060E+07 6.140E+07 6.248E+07

SUBLAYER 7

IN SOIL MOI 5.226E+07 5.721E+07 6.268E+07 7.447E+07 7.446E+07 7.140E+07 6.613E+07 6.173E+07 5.884E+07 5.677E+07 5.508E+07 5.316E+07
ADS ON SOIL 3.559E+08 3.536E+08 3.513E+08 3.462E+08 3.444E+08 3.435E+08 3.448E+08 3.459E+08 3.470E+08 3.485E+08 3.488E+08 3.489E+08
IN SOIL AIR 1.054E+08 1.021E+08 9.812E+07 8.841E+07 8.750E+07 8.925E+07 9.198E+07 9.490E+07 9.662E+07 9.721E+07 9.849E+07 1.002E+08

SUBLAYER 8

IN SOIL MOI 9.260E+07 1.014E+08 1.112E+08 1.321E+08 1.321E+08 1.267E+08 1.173E+08 1.095E+08 1.044E+08 1.007E+08 9.773E+07 9.433E+07
DS ON SOIL 6.307E+08 6.268E+08 6.230E+08 6.143E+08 6.110E+08 6.095E+08 6.119E+08 6.138E+08 6.156E+08 6.182E+08 6.189E+08 6.191E+08
SOIL AIR 1.867E+08 1.811E+08 1.740E+08 1.569E+08 1.552E+08 1.584E+08 1.632E+08 1.684E+08 1.714E+08 1.725E+08 1.747E+08 1.778E+08

SUBLAYER 9

IN SOIL MOI 1.786E+08 1.958E+08 2.148E+08 2.555E+08 2.556E+08 2.453E+08 2.273E+08 2.122E+08 2.022E+08 1.951E+08 1.893E+08 1.827E+08
ADS ON SOIL 1.216E+09 1.210E+09 1.204E+09 1.188E+09 1.182E+09 1.180E+09 1.185E+09 1.189E+09 1.192E+09 1.197E+09 1.199E+09 1.199E+09
IN SOIL AIR 3.601E+08 3.495E+08 3.362E+08 3.034E+08 3.004E+08 3.066E+08 3.161E+08 3.261E+08 3.320E+08 3.340E+08 3.385E+08 3.445E+08

SUBLAYER 10

IN SOIL MOI 3.359E+08 3.688E+08 4.052E+08 4.831E+08 4.841E+08 4.652E+08 4.314E+08 4.027E+08 3.838E+08 3.703E+08 3.594E+08 3.470E+08
ADS ON SOIL 2.288E+09 2.279E+09 2.270E+09 2.246E+09 2.239E+09 2.238E+09 2.249E+09 2.257E+09 2.263E+09 2.273E+09 2.276E+09 2.277E+09
IN SOIL AIR 6.775E+08 6.584E+08 6.342E+08 5.735E+08 5.689E+08 5.815E+08 5.999E+08 6.190E+08 6.302E+08 6.341E+08 6.425E+08 6.541E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.666E+06 3.155E+07 3.358E+07 2.604E+07 1.369E+07 5.735E+06 2.110E+06 0.000E+00 0.000E+00 0.000E+00

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 1.360E-01 1.349E-01 1.338E-01 1.319E-01 1.314E-01 1.311E-01 1.317E-01 1.322E-01 1.326E-01 1.331E-01 1.333E-01 1.333E-01
%SOLUBILITY 5.666E-02 5.621E-02 5.577E-02 5.498E-02 5.475E-02 5.464E-02 5.487E-02 5.506E-02 5.524E-02 5.547E-02 5.553E-02 5.553E-02
ADSORBED 4.603E-02 4.566E-02 4.531E-02 4.467E-02 4.448E-02 4.439E-02 4.458E-02 4.474E-02 4.488E-02 4.507E-02 4.511E-02 4.511E-02
SOIL AIR 9.861E-02 9.907E-02 9.925E-02 9.909E-02 9.850E-02 9.813E-02 9.667E-02 9.625E-02 9.575E-02 9.469E-02 9.473E-02 9.505E-02

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.088E-01 1.080E-01 1.072E-01 1.057E-01 1.052E-01 1.050E-01 1.054E-01 1.058E-01 1.061E-01 1.065E-01 1.066E-01 1.066E-01
%SOLUBILITY 4.534E-02 4.499E-02 4.466E-02 4.403E-02 4.383E-02 4.374E-02 4.392E-02 4.407E-02 4.420E-02 4.439E-02 4.443E-02 4.444E-02
ADSORBED 3.684E-02 3.656E-02 3.628E-02 3.577E-02 3.561E-02 3.553E-02 3.568E-02 3.580E-02 3.591E-02 3.606E-02 3.610E-02 3.610E-02
SOIL AIR 7.891E-02 7.931E-02 7.949E-02 7.935E-02 7.886E-02 7.854E-02 7.737E-02 7.703E-02 7.662E-02 7.577E-02 7.580E-02 7.606E-02

SUBLAYER 2

MOISTURE 1.371E-01 1.360E-01 1.350E-01 1.331E-01 1.325E-01 1.322E-01 1.327E-01 1.332E-01 1.336E-01 1.342E-01 1.343E-01 1.343E-01
%SOLUBILITY 5.711E-02 5.668E-02 5.626E-02 5.546E-02 5.521E-02 5.508E-02 5.531E-02 5.549E-02 5.567E-02 5.590E-02 5.596E-02 5.597E-02
ADSORBED 4.640E-02 4.605E-02 4.571E-02 4.506E-02 4.485E-02 4.475E-02 4.494E-02 4.509E-02 4.523E-02 4.542E-02 4.546E-02 4.547E-02
SOIL AIR 9.939E-02 9.991E-02 1.001E-01 9.996E-02 9.932E-02 9.892E-02 9.744E-02 9.700E-02 9.649E-02 9.543E-02 9.546E-02 9.580E-02

SUBLAYER 3

MOISTURE 1.773E-01 1.760E-01 1.747E-01 1.722E-01 1.714E-01 1.710E-01 1.717E-01 1.723E-01 1.728E-01 1.735E-01 1.737E-01 1.737E-01

%SOLUBILITY 7.387E-02 7.333E-02 7.279E-02 7.175E-02 7.142E-02 7.125E-02 7.155E-02 7.178E-02 7.201E-02 7.231E-02 7.238E-02 7.239E-02
ADSORBED 6.002E-02 5.957E-02 5.914E-02 5.829E-02 5.802E-02 5.789E-02 5.813E-02 5.832E-02 5.850E-02 5.875E-02 5.881E-02 5.882E-02
SOIL AIR 1.286E-01 1.293E-01 1.296E-01 1.293E-01 1.285E-01 1.280E-01 1.260E-01 1.255E-01 1.248E-01 1.234E-01 1.235E-01 1.239E-01

SUBLAYER 4

MOISTURE 2.372E-01 2.355E-01 2.338E-01 2.304E-01 2.293E-01 2.288E-01 2.297E-01 2.305E-01 2.312E-01 2.322E-01 2.324E-01 2.324E-01
%SOLUBILITY 9.883E-02 9.811E-02 9.740E-02 9.601E-02 9.555E-02 9.533E-02 9.571E-02 9.603E-02 9.633E-02 9.673E-02 9.683E-02 9.685E-02
ADSORBED 8.030E-02 7.971E-02 7.914E-02 7.800E-02 7.763E-02 7.745E-02 7.776E-02 7.802E-02 7.826E-02 7.859E-02 7.867E-02 7.868E-02
SOIL AIR 1.720E-01 1.729E-01 1.734E-01 1.730E-01 1.719E-01 1.712E-01 1.686E-01 1.679E-01 1.670E-01 1.651E-01 1.652E-01 1.658E-01

SUBLAYER 5

MOISTURE 3.315E-01 3.291E-01 3.268E-01 3.221E-01 3.205E-01 3.197E-01 3.210E-01 3.221E-01 3.231E-01 3.244E-01 3.248E-01 3.248E-01
%SOLUBILITY 1.381E-01 1.371E-01 1.362E-01 1.342E-01 1.336E-01 1.332E-01 1.338E-01 1.342E-01 1.346E-01 1.352E-01 1.353E-01 1.353E-01
ADSORBED 1.122E-01 1.114E-01 1.106E-01 1.090E-01 1.085E-01 1.082E-01 1.087E-01 1.090E-01 1.094E-01 1.098E-01 1.099E-01 1.100E-01
SOIL AIR 2.404E-01 2.417E-01 2.424E-01 2.419E-01 2.403E-01 2.393E-01 2.357E-01 2.346E-01 2.333E-01 2.308E-01 2.309E-01 2.317E-01

SUBLAYER 6

MOISTURE 4.911E-01 4.877E-01 4.843E-01 4.774E-01 4.750E-01 4.737E-01 4.756E-01 4.772E-01 4.786E-01 4.806E-01 4.812E-01 4.813E-01
%SOLUBILITY 2.046E-01 2.032E-01 2.018E-01 1.989E-01 1.979E-01 1.974E-01 1.982E-01 1.988E-01 1.994E-01 2.003E-01 2.005E-01 2.005E-01
ADSORBED 1.662E-01 1.651E-01 1.640E-01 1.616E-01 1.608E-01 1.604E-01 1.610E-01 1.615E-01 1.620E-01 1.627E-01 1.629E-01 1.629E-01
SOIL AIR 3.561E-01 3.582E-01 3.592E-01 3.585E-01 3.560E-01 3.545E-01 3.492E-01 3.475E-01 3.457E-01 3.419E-01 3.420E-01 3.432E-01

SUBLAYER 7

MOISTURE 7.876E-01 7.824E-01 7.772E-01 7.661E-01 7.620E-01 7.600E-01 7.630E-01 7.654E-01 7.678E-01 7.710E-01 7.718E-01 7.720E-01
%SOLUBILITY 3.282E-01 3.260E-01 3.238E-01 3.192E-01 3.175E-01 3.167E-01 3.179E-01 3.189E-01 3.199E-01 3.213E-01 3.216E-01 3.217E-01
ADSORBED 2.666E-01 2.648E-01 2.631E-01 2.593E-01 2.580E-01 2.573E-01 2.583E-01 2.591E-01 2.599E-01 2.610E-01 2.613E-01 2.614E-01
SOIL AIR 5.711E-01 5.746E-01 5.764E-01 5.753E-01 5.713E-01 5.687E-01 5.601E-01 5.575E-01 5.545E-01 5.484E-01 5.486E-01 5.506E-01

SUBLAYER 8

MOISTURE 1.396E+00 1.387E+00 1.379E+00 1.359E+00 1.352E+00 1.349E+00 1.354E+00 1.358E+00 1.362E+00 1.368E+00 1.369E+00 1.370E+00
%SOLUBILITY 5.815E-01 5.779E-01 5.744E-01 5.663E-01 5.633E-01 5.619E-01 5.641E-01 5.659E-01 5.676E-01 5.700E-01 5.706E-01 5.708E-01
ADSORBED 4.724E-01 4.695E-01 4.667E-01 4.601E-01 4.577E-01 4.565E-01 4.583E-01 4.597E-01 4.611E-01 4.631E-01 4.636E-01 4.637E-01
SOIL AIR 1.012E+00 1.019E+00 1.022E+00 1.021E+00 1.014E+00 1.009E+00 9.939E-01 9.891E-01 9.838E-01 9.730E-01 9.734E-01 9.770E-01

SUBLAYER 9

MOISTURE 2.691E+00 2.677E+00 2.663E+00 2.629E+00 2.616E+00 2.611E+00 2.622E+00 2.631E+00 2.638E+00 2.650E+00 2.653E+00 2.654E+00
%SOLUBILITY 1.121E+00 1.115E+00 1.110E+00 1.095E+00 1.090E+00 1.088E+00 1.093E+00 1.096E+00 1.099E+00 1.104E+00 1.105E+00 1.106E+00
ADSORBED 9.111E-01 9.063E-01 9.016E-01 8.898E-01 8.857E-01 8.839E-01 8.877E-01 8.905E-01 8.931E-01 8.969E-01 8.979E-01 8.983E-01
SOIL AIR 1.952E+00 1.966E+00 1.975E+00 1.974E+00 1.961E+00 1.954E+00 1.925E+00 1.916E+00 1.905E+00 1.885E+00 1.885E+00 1.893E+00

SUBLAYER 10

MOISTURE 5.063E+00 5.043E+00 5.024E+00 4.969E+00 4.954E+00 4.951E+00 4.977E+00 4.993E+00 5.008E+00 5.029E+00 5.035E+00 5.039E+00
%SOLUBILITY 2.110E+00 2.101E+00 2.093E+00 2.071E+00 2.064E+00 2.063E+00 2.074E+00 2.080E+00 2.087E+00 2.096E+00 2.098E+00 2.099E+00
ADSORBED 1.714E+00 1.707E+00 1.701E+00 1.682E+00 1.677E+00 1.676E+00 1.685E+00 1.690E+00 1.695E+00 1.703E+00 1.705E+00 1.706E+00
SOIL AIR 3.672E+00 3.704E+00 3.725E+00 3.732E+00 3.714E+00 3.705E+00 3.653E+00 3.636E+00 3.617E+00 3.577E+00 3.579E+00 3.594E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 1.040E-03 1.226E-02 1.304E-02 1.013E-02 5.331E-03 2.235E-03 8.228E-04 0.000E+00 0.000E+00 0.000E+00

1 YEAR - 150 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00

LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.154E+08
-- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.329E-01
ADSORBED SOIL (UG/G) 4.500E-02
SOIL AIR (UG/ML) 9.715E-02

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.064E-01
ADSORBED SOIL (UG/G) 3.602E-02
SOIL AIR (UG/ML) 7.776E-02

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.340E-01
ADSORBED SOIL (UG/G) 4.537E-02
SOIL AIR (UG/ML) 9.794E-02

SUBLAYER 3

SOIL MOISTURE (UG/ML) 1.734E-01
ADSORBED SOIL (UG/G) 5.869E-02
SOIL AIR (UG/ML) 1.267E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 2.319E-01
ADSORBED SOIL (UG/G) 7.852E-02
SOIL AIR (UG/ML) 1.695E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 3.242E-01
ADSORBED SOIL (UG/G) 1.097E-01
SOIL AIR (UG/ML) 2.369E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.803E-01
ADSORBED SOIL (UG/G) 1.626E-01
SOIL AIR (UG/ML) 3.510E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 7.705E-01
ADSORBED SOIL (UG/G) 2.608E-01
SOIL AIR (UG/ML) 5.631E-01

SUBLAYER 8

SOIL MOISTURE (UG/ML) 1.367E+00
ADSORBED SOIL (UG/G) 4.627E-01
SOIL AIR (UG/ML) 9.989E-01

SUBLAYER 9

SOIL MOISTURE (UG/ML) 2.645E+00
ADSORBED SOIL (UG/G) 8.952E-01
SOIL AIR (UG/ML) 1.933E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.007E+00
ADSORBED SOIL (UG/G) 1.695E+00
SOIL AIR (UG/ML) 3.659E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 3.738E-03

**********EXECUTION COMPLETED**********