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FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

November 15, 2011

Mr. David Young
California Regional Water Quality Control Board
Los Angeles Region
Site Cleanup Program
320 West 4th Street, Suite 200
Los Angeles, California 90013

Soils Investigation Report and Groundwater Well
Installation Workplan
Continental Heat Treating
10643 Norwalk Boulevard, Santa Fe Springs, California ("Site")
(Site Id. No. 204GW00, SCP No. 1057)

Fero Environmental Engineering, Inc. (Fero) submits this report of additional site assessment work at the subject site consistent with the Regional Water Quality Control Board – Los Angeles Region (RWQCB) Order, with the RWQCB, *Requirement to Submit a Revised Work Plan to Conduct Additional Subsurface Investigations…*, dated October 5, 2010, with Fero's, *Modified Soils Investigation Work Plan…*, dated December 30, 2010, with the RWQCB's, *Approval of Modified Work Plan…*, dated January 14, 2011 which conditionally approved the work plan and with various extension requests and approvals culminating in a RWQCB, *Approval of Request for Extensions to Submit Technical Reports…*, dated June 30, 2011. The work was conducted on behalf of Continental Heat Treating, 10643 Norwalk Boulevard, Santa Fe Springs, California 90670.

Site Description

The "Site" is located at 10643 Norwalk Boulevard, Santa Fe Springs, California 90670. It consists of an approximate 70,000 ft^2 rectangular parcel located on the west side of Norwalk Boulevard approximately 450 feet north of Florence Avenue. The parcel is surrounded by primarily industrial properties: Coast Aluminum and Architectural Inc. to the northwest, NHK Laboratories to the north, Oxyhealth LLC to the south, Excel Garden Products to the east across Norwalk Boulevard and an unknown occupant to the west. Improvements on the property include a 20,000 ft^2 industrial building built in 1969 which is occupied by Continental Heat Treating, Inc. ("CHT"). Various above ground tanks which contain coolants used in CHT's metal treatment processes are located to the south and west of the onsite buildings. A 5,000 ft^2 addition is being added to the west end of the existing building. The remaining site is being paved with concrete. Figure 1 provides a plot of the Site.

CHT or its predecessor has occupied the Site since the building was built in 1969 and they use the building to process metal parts with heat to perform carbon nitriding and nitriding on the metal

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surfaces. Although no longer in use, CHT used a solvent degreaser in the approximate middle of the building from 1986 to 1995. Centec reported that prior investigations around the degreaser and in the northwest corner of the Site identified concentrations of chlorinated organics.[1]

Former occupants of the properties to the north were Mobil "Jalk Fee" immediately to the north of the Site and Hathaway further to the west. Centec reported that Hathaway stored abandoned equipment proximate to the northwest corner of the Site and that the former Jalk Fee property was used for oil production and storage, as well as other uses, for several decades. They further indicated that significant soils and groundwater contamination had been detected on the former Jalk Fee property from at least 1990. Extremely high concentrations of Tetrachloroethylene (PCE) were reportedly detected within 6 feet of CHT's northwestern fence and approximately 55 feet north of the fence. Mobil reportedly removed soil from VOC impacted areas of their site, including a small excavation slightly north of CHT's northwest corner.

Ongoing soils and groundwater investigations on the former Jalk Fee property indicate elevated concentrations of chlorinated organics and lesser concentrations of fuel hydrocarbons in both the soil and groundwater. The general groundwater flow direction reported by Cardno ERI was to the south toward the Site and therefore the organics represent a significant threat to the Site.[2] Fero was not provided with soil gas data from the former Jalk Fee property however it has been Fero's experience on the Site that the organics of concern including the chlorinated and fuel hydrocarbon constituents occur primarily in the gas phase. It is likely that the organics in the soils on the former Jalk Fee property are similarly distributed and that significantly higher concentrations of both chlorinated organics and fuel hydrocarbons (primarily short chain aliphatics) occur there in the gas phase.

Cardno confirmed that oil production facilities occupied the former Jalk Fee property from the 1920's to 1990 when they were removed so the site could be redeveloped. Cardno further indicated that TRC Alton Geoscience (TRC) completed remediation at the site along with an exposure assessment that suggested the site did not represent a significant threat to site occupation or to the underlying groundwater. The City of Santa Fe Springs reportedly did not hold the same opinion and reopened the site for further investigations and evaluation.

Background

Environmental Support Technologies, Inc. (EST) conducted a subsurface site investigation at the subject Site in March 1997 and it prepared a report, dated May 6 1997 on the investigation titled, *Site Assessment Report, Continental Heat Treating* (Report). The Report described previous investigations conducted at the Site by EST and it provided near surface soil sampling data collected by Green Environmental. EST and Green identified certain chlorinated hydrocarbons consisting

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[1] Collins, Steven N., REA and Daniel R. Louks, R.G., *Phase II Site Investigation Report*, January 2002, Centec Engineering, Inc., 1601 Dove Street, Suite 100, Newport Beach, CA 92660

[2] Anderson, James and Andy Nelson, Revised Well Installation Report, Former ExxonMobil Jalk Fee Property, May 17, 2011, Cardno ERI, 4572 Telephone Road, Suite 916, Ventura, CA 93003

primarily of Tetrachloroethylene (PCE) and Trichloroethylene (TCE) from grade to just above the water table proximate to a former degreaser location. The PCE and TCE were detected at maximum soil gas concentrations of 1,948 µg/L and 156 µg/L, respectively near the northeast corner of the former degreaser and the concentrations generally decreased with increased radial distance away from that location. EST collected soil gas samples at 15 locations across the site at up to four depths at each location to a maximum depth of 35 feet. Based on the soil gas results, a soil boring was conducted to groundwater approximately five feet to the south of the former degreaser. Groundwater was encountered at approximately 68 feet below grade (fbg). PCE was detected in all of the soil samples collected from 5 to 60 fbg at concentrations ranging from 4.8 to 130 µg/Kg.

On January 13, 2004, Fero conducted a soil vapor extraction test of the 2" well installed by EST to determine whether it would provide sufficient soil vapor capture efficiency. A 1.74 Hp Siemens blower was connected to the well and operated under a various locations permit with the SCAQMD. The blower discharge was channeled through three carbon canisters before release to the atmosphere. During the test, Fero monitored the vacuum that developed in the probes that remained from the EST investigation. The blower drew a vacuum of 48" water column at the well head indicating that although the formation exhibited a low permeability to air flow, it was amenable to vapor extraction. The highest vacuum achieved at the onsite probes was 2" water column. The initial discharge concentration of volatile organic compounds (VOC) measured at the blower using a Photoionization Detector (PID) was in excess of 2,000 ppm. Fero subsequently connected the EST well to a 2.5 Hp blower, moisture knockout and series of carbon canisters located at the rear of the CHT building. The vapor extraction system was started on February 23, 2004. Electrical issues related to the high vacuum required of the blower and a supply load restriction caused the blower to trip its circuit breaker after it heated up. This problem was corrected by March 2, 2004 and, except for periods of carbon change-outs, the system operated continuously from that date through September 21, 2004.

Unfortunately, although vacuums developed after the system was started in all of the probes that remained from the EST investigation, Fero was unable to determine the depths of the probes so additional probes were installed on March 1, 2004. Two borings, FP1 & FP2, located in the area of the former degreaser, were installed to 60 feet below grade (fbg) and five probes were installed in each boring at depths of 5, 15, 30, 45 & 60 fbg. Vacuums were measured in the probes on March 2, 2004 after the system had a chance to equilibrate. Table 1 provides the vacuums measured in the probes. A round of initial soil gas concentrations were collected from the new probes on March 16, 2004. The soil gas concentrations are summarized in Table 2.

The data in Table 2 indicate a significant reduction in chlorinated compound concentrations to 30 fbg in FP2 located approximately 10 feet from the extraction well and a significant reduction to 5 fbg in FP1 located approximately 30 feet from the extraction well. The data collected during the sampling dates are not readily comparable in FP2-15' because the first set was an equilibrium sample suggesting the soil was saturated with water during the first sampling.

The concentrations of the aliphatic hydrocarbons (would be classified TPHg as it eluted) decreased significantly to 45 fbg in FP1 and to 30 fbg in FP2. The concentrations of these gasoline range hydrocarbons doubled in FP1-60' and increased in FP2-45' & 60'. The TPH concentration increases at depth suggest a significant offsite contribution and possibly free product on the water table.

The vapor extraction system did not operate efficiently for removal of the chlorinated hydrocarbons because of the presence of the high concentrations of, primarily aliphatic hydrocarbons in the soil gas. The aliphatics hydrocarbons are more volatile than PCE so they are extracted from the soil more readily. Because of the interference caused by the aliphatic hydrocarbons, the vapor extraction system was shut off on September 21, 2004.

Geology and Hydrogeology

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 (and at greater depths particularly inside the building on the Site) have a higher silt and clay content and lower permeability. Site investigations indicate the underlying soils consist of interbedded layers of silt, sandy silt, sand and gravel from the surface to at least 120 fbg.

The first regional groundwater-bearing zone in the vicinity of the Site is the Exposition Aquifer, which is encountered at approximately 100 fbg. This aquifer ranges in thickness from 75 to 100 feet and is underlain by a 50 foot thick aquiclude, beneath which is the Gage Aquifer.[3] The depth to groundwater during the last year of monitoring has ranged from approximately 91 to 98 feet below top of casing and the slope of the groundwater table has consistently indicated a flow direction of slightly west of south under a gradient of approximately 0.0077 ft/ft.

Soils and Groundwater Investigations

Consistent with Fero's approved, *Modified Work Plan...*, dated December 30, 2010, soil gas probes were installed at 18 locations across the property with depths ranging from 5 to 15 fbg for volatile organics analysis (VOCs). Soil samples were collected from four of the soil gas sampling locations at 5 fbg for total petroleum hydrocarbon – carbon chain (TPHcc) analysis and from three separate locations at 3 fbg for screening analysis of California Assessment Manual (CAM) metals, including hexavalent Chromium. One boring was advanced to 120 fbg and completed as a groundwater monitoring well. The sampling locations are indicated on Figure 1.

Soil Gas Probe Installations and Sampling

Fero retained Hydro-Geo Spectrum (HGS) to install soil gas sampling probes at fourteen locations designated as FVP5-10 and FVP13-20 as indicated on Figure 1 by the "x" or the "Tx". Probes were installed at each of these locations at 5 and 15 fbg using Geoprobe direct push technology either with truck mounted rig or limited access rig or with hand operated roto-hammer equipment. The probes consist of small diameter (1/4 inch) perforated polyethylene tubing. Upon reaching the desired sampling depth, coarse sand (#3 Monterey or equivalent) was placed through the inside of the Geo

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[3] California Department of Water Resources. 1961. *Groundwater Geology of the Coastal Plain of Los Angeles County, Idealized Geologic Sections M-M'-M" and N-N'.*

Probe rods to form an approximate 2 foot thick permeable sand pack around each of the perforated sections of the probes (to 1 foot above). The probes were sealed from each other and from the surface with hydrated bentonite and concrete. To avoid over saturation of the filter pack, granulated bentonite was used and the amount of water used to hydrate the bentonite seals was minimized. The probes were installed on October 27, 2011.

In addition to these shallow soil gas sampling probe installations and pursuant to Fero's, RWQCB, approved *Modified Work Plan…*, dated December 30, 2010, Fero retained soil matrix samples from five feet below grade at four of the soil gas points designated as FVP7, 8 10 & 13 on Figure 1. These sampling points are indicated as "Tx" on the figure. The collected soil samples were analyzed for total petroleum hydrocarbons carbon chain (TPHcc) content using EPA Method 8015m. The soil matrix samples were collected with the Geoprobe in a stainless steel drive sampler fitted with an acetate sleeve. A section at the lead end of each retained sleeve was removed, capped with Teflon sheeting and rubber caps, properly labeled and placed in a cooler with ice at or near 4° C until delivery at the end of the day to Enviro-Chem Laboratories under proper chain of custody documentation for analysis.

Four deep borings were conducted at the site to install soil gas sampling probes at depths of 5, 15, 30, 60 & 90 fbg at the locations designated as FVP1-4 and as indicated on Figure 1 as an "x" inside a circle. All of these borings were conducted using a CME 75 drill rig (either full rig or limited access rig) fitted with 8" hollow stem auger flights. Soil samples were collected from each boring at 5 foot intervals starting at 5 fbg using a California modified split spoon sampler fitted with 6" stainless steel sleeves for lithologic evaluation. In addition, the samples collected at 5, 15, 30, 60 and 90 fbg were retained for soil matrix testing. At the soil matrix sampling depths, the lead sleeve was retained for analytical testing for TPHcc using EPA Method 8015m. These TPHcc sleeves were sealed with Teflon sheeting and plastic caps, they were labeled properly and placed in an ice chest containing ice at or near 4° C. The lead end of the second sleeves retained for analytical testing were further sampled using EPA Method 5035 techniques for VOC analysis. All of the 40 ml vials generated using this sampling technique were properly labeled and placed in the cooler with the sleeves and the cooler and samples were delivered under proper chain of custody documentation at the end of the day to Enviro-Chem Laboratories for analysis.

Upon reaching 90 fbg in each of these deep borings, soil gas sampling probes were installed at 5, 15, 30, 60 & 90 fbg. As indicated above, the probes consisted of small diameter (1/4 inch) perforated polyethylene tubing. The probe ends were attached to a 1" diameter PVC pipe to maintain the appropriate sampling depth. Once installed, the annulus of the borehole was finished as indicated above with coarse sand (#3 Monterey or equivalent) placed through the inside of the auger flights as they were being withdrawn to form an approximate 2 foot thick permeable sand pack around each of the perforated sections of the probes (to 1 foot above). The probes were sealed from each other and from the surface with hydrated bentonite and concrete. To avoid over saturation of the filter pack, the amount of water used to hydrate the bentonite seals was tailored to the thickness of the seal. The deep probes were installed on October 19, 20, 21 and 24 as indicated on the attached borelogs in Attachment A. Note that the hydrocarbon smell indicated in the borelogs consists of light distillates.

At three locations designated as FVP11 & 12 and PVP1a, indicated by a bold "O" on Figure 1, the Geoprobe was used to collect soil samples at 3 fbg for CAM metals analysis, including hexavalent Chromium, using appropriate EPA Methods. These samples were collected at the appropriate depth using a stainless steel drive sampler fitted with an acetate sleeve. A section at the lead end of each sleeve was removed, capped with Teflon sheeting and rubber caps, properly labeled and placed in a cooler with ice at or near 4° C until delivery at the end of the day to Enviro-Chem Laboratories under proper chain of custody documentation for analysis. The soil samples were collected during the soil gas probe installations on October 27, 2011.

The soil gas probes were allowed a week to equilibrate with the surrounding soils prior to sampling. Soil vapor sampling was conducted by connecting the 1/4 inch sampling tube exiting the ground surface at the sampling points to a glass sampling bulb fitted with Teflon stop cocks and a viton rubber sampling port. The bulb was connected in turn to a vacuum gauge, flow meter and portable sampling pump. Initially, both stop cocks are closed, to observe an absence of flow and a slight vacuum. This demonstrates that the sampling train on the far end of the bulb is leak tight (leak test). The first stop cock (pump end) is then opened. An absence of flow demonstrates that the sampling bulb itself is leak tight. The ground end of the bulb is then opened, and a flow of 150 ml/min is maintained for seven to ten purge volumes. During the sampling, an open container of Pentane or iso-Butylene is exposed to the sampling train. Any trace of either of these compounds detected in the sample indicates the intrusion of ambient air into the sampling train invalidating the results of the sample (leak test). The sampling bulbs were delivered by HGS to their stationary laboratory for analysis by GCMS for EPA Method 8260 volatile organic compounds (VOCs). The analysis also provided concentrations for the volatile fraction of aliphatic hydrocarbons in the C3 to C13 range. All of the samples were analyzed by HGS within 24 hours. Soil vapor samples were analyzed for all target compounds listed in section 3.1 of the *Interim Guidance for Active Soil Gas Investigations*.

An additional soil boring was conducted inside the building proximate to soil gas probes FVP4 on October 24 & 25, 2011 to place a groundwater monitoring well. The well installation is indicated as MW4 on Figure 1. The boring was conducted with a limited access CME 75 (because of overhead restrictions). The boring was conducted to 120 fbg and soil samples were collected at 5 foot intervals starting at 90 fbg because of its proximity to FVP4. Consistent with the RWQCB conditional approval, the boring was finished as a groundwater monitoring/VES well. A pilot hole was drilled with 8" augers followed by 10" augers to set the well. The well consists of a 4" PVC pipe with 0.020" slotted sections from 41.5 to 116.5 fbg. The boring annulus was filled to approximately 1 foot above the slotted section of the well with #3 Monterey sand. The space above the filter pack was filled with hydrated bentonite chips to 35 fbg and the annulus was filled from 35 fbg to approximately 1 fbg with neat cement, consistent with County of Los Angeles requirements. The well installation was finished at grade with a traffic rated road vault which was concreted in place. The well was installed consistent with a permit from the County, a copy of which is attached in Attachment B.

The borings were logged by a Fero geologist or engineer and were visually classified in the field in accordance with the Unified Soil Classification System (USCS) or American Society for Testing and Materials (ASTM) including; moisture, consistency, texture, and soil characteristics. All of the field work conducted as part of this investigation was conducted consistent with a Health and Safety Plan, a copy of which is attached in Attachment C. Soil cuttings from the boring operations were retained

onsite in properly labeled, DOT approved drums until laboratory results are available and proper treatment/disposal options for the soils are determined.

Groundwater sampling has not been conducted to allow the well inside the building to settle prior to development. The wells will be resurveyed, properly developed as needed and sampled during the fourth quarter of 2011 as required by the RWQCB. The results of that sampling will be included in a report to the RWQCB on or before January 15, 2012.

Results

A table containing all of the organics observed in the soil gas samples is attached hereto just prior to the plots and again in the laboratory report prepared by HGS in Attachment D. The concentrations of 1,2-DCE, TCE, PCE and HC are also provided on the isoconcentration contours provided herein as Figures 2-21. The concentrations of each of these organic species for each of the sampling depths have been used in the Surfer contouring program to generate the isoconcentration contours.

All of the volatile organics concentrations in the soil matrix samples other than TPHcc are summarized in Table 3. Table 4 contains a summary of the TPHcc analyses. The soil matrix VOC levels, including TPHcc, were too low and sporadic to allow for meaningful contouring.

There was nothing unusual about the metals concentrations in the soil. A summary the data is provided in Table 5. Copies of each of the laboratory reports for the soil matrix sampling are included in Attachment E.

Further Investigation

The RWQCB indicated further delineation of the groundwater impacts was necessary. Fero proposes the installation of four groundwater monitoring wells based on the investigations conducted during October 2011. Fero has included a modified version of the well location and groundwater flow contour plot from the third quarter 2011 groundwater monitoring report as Figure 22. The proposed well installations are indicated on that plot. Fero proposes to install a single 4" water table well along the northern property line as indicated on Figure 22 to further evaluate offsite contributions to the groundwater issues on the subject site and to install a well cluster along the southern property line as indicated on Figure 22 to evaluate both horizontal and vertical groundwater impacts.

The wells will be installed with either a full size or limited access CME-75 depending on access restrictions. The northern boring will be conducted to 120 fbg and soil samples were collected at 5 foot intervals starting at 5 fbg for lithologic logging. The boring will be finished with an extended screen to allow for both groundwater monitoring and VES operation. A pilot hole will be drilled with 8" augers followed by 10" augers to set the well casing. The well will consist of a 4" PVC pipe with 0.020" slotted sections from 40 to 120 fbg. The boring annulus will be filled to approximately 1 foot above the slotted section of the well with #3 Monterey sand and the space above the filter pack will be filled with hydrated bentonite chips to 35 fbg and the remaining annulus above 35 fbg to 1 fbg will be filled with neat cement, consistent with County of Los Angeles requirements. The well installation will be finished at grade with a traffic rated road vault which is concreted in place. The well installation will be permitted through the County of Los Angeles Department of Health Services.

One of the southern well installations will be conducted exactly the same as above except that the borehole will only be conducted to 110 fbg. In addition, Fero will install two 2" wells nested in the same boring proximate to this installation. The nested boring will be advanced to 180 fbg (likely require CME95) and 2" PVC casings with ten feet of screen each will be installed to 180 fbg and 140 fbg consistent with the installations to the north of CHT. The annulus to approximately 1 foot above the screen at each depth will be filled with #3 sand. The annulus between the well screens will be sealed with hydrated bentonite chips and the annulus above the shallower well will be filled with bentonite chips from 109 to approximately 100 fbg. The remaining annulus will be filled with neat cement. Both of the well locations will be completed with well vaults. Diagrams of the proposed well installations are attached as Figures 23 and 24.

The borings will be logged by a Fero geologist or engineer and will be visually classified in the field in accordance with the Unified Soil Classification System (USCS) or American Society for Testing and Materials (ASTM) including; moisture, consistency, texture, and soil characteristics. All of the field work conducted as part of this investigation will be conducted consistent with a Health and Safety Plan, a copy of which is attached in Attachment C. Soil cuttings from the boring operations will be retained onsite in properly labeled, DOT approved drums until laboratory results are available and proper treatment/disposal options for the soils are determined.

Should you have any questions regarding the content of this site assessment work plan, please do not hesitate to call the undersigned at (714) 256-2737.

Respectfully,
Fero Environmental Engineering, Inc.

Rick L. Fero, P.E.
President

RLF:slf
[758AddSoilsInvRpt]

Tables

Table 1
Probe Vacuum
Continental Heat Treating, Inc.
10643 South Norwalk Boulevard, Santa Fe Springs
March 2, 2004

Sample ID	Depth (ft.)	Vacuum (in. H2O)
FP1	5	1.0
	15	1.1
	30	0.8
	45	0.6
	60	0.4
FP2	5	2.5
	15	2.5
	30	2.4
	45	1.7
	60	1.4

ND = not detected at laboratory detection limit.

Table 2
Soil Gas Concentrations
Continental Heat Treating, Inc.
10643 South Norwalk Boulevard, Santa Fe Springs
March 16, 2004 & August 6, 2004
(µg/L)

Sample ID	Depth (ft)	Sampling Date	PCE	TCE	1,2-DCE	VC	HC
FP1	5	3/16/04	2,718	157	107	16	6,300
		8/06/04	640	120	32	ND	15
	15	3/16/04	2,351	136	ND	29	7,700
		8/06/04	2,602	251	328	45	738
	30	3/16/04	1,335	43	16	46	7,500
		8/06/04	2,792	422	445	225	4,345
	45	3/16/04	1,517	54	41	57	8,500
		8/06/04	1,831	235	428	217	6,516
	60	3/16/04	934	43	33	63	8,000
		8/06/04	1,441	194	309	331	15,873
FP2	5	3/16/04	154	32	12	11	4,000
		8/06/04	7.7	1.4	ND	ND	ND
	15(eq.)	3/16/04	3.9	ND	ND	ND	23
		8/06/04	1,881	142	ND	1.4	126
	30	3/16/04	972	80	54	21	12,000
		8/06/04	96	29	57	24	1,226
	45	3/16/04	1,241	48	14	42	8,500
		8/06/04	1,439	159	200	201	9,218
	60	3/16/04	660	49	22	12	12,000
		8/06/04	985	112	84	132	14,888

ND – not detected at laboratory detection limit, PCE – Tetrachloroethylene, TCE – Trichloroethylene, DCE – Dichloroethylene, VC – Vinyl Chloride, HC – Hydrocarbons (C3-C13)

Table 3
Soil Sampling Analytical Results - VOCs
Continental Heat Treat
10643 Norwalk Boulevard, Santa Fe Springs, CA
October 21 - 26, 2011
(mg/Kg)

Sample ID/Depth	1,1-DCP	cis 1,2-DCE	PCE	TCE	n-ButylB	sec-ButylB	Naphth	n-PropylB	1,1,2,2-TCA
FVP1-5	0.005	nd	0.126	0.024	nd	nd	nd	nd	nd
FVP1-15	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP1-30	nd	0.012	0.158	0.024	nd	nd	nd	nd	nd
FVP1-60	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP1-90	0.027	nd	nd	nd	nd	nd	nd	nd	nd
FVP2-5	nd	nd	0.116	nd	nd	nd	nd	nd	nd
FVP2-15	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP2-30	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP2-60	nd	nd	0.006	nd	nd	nd	nd	nd	nd
FVP2-90	nd	nd	0.008	nd	nd	nd	nd	nd	nd
FVP3-5	nd	nd	0.076	nd	nd	nd	nd	nd	nd
FVP3-15	nd	nd	0.027	0.006	nd	nd	nd	nd	nd
FVP3-30	nd	nd	0.281	0.051	nd	nd	nd	nd	nd
FVP3-60	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP3-90	nd	nd	nd	nd	0.028	0.025	0.068	0.047	0.031
FVP4-5	nd	nd	0.072	0.007	nd	nd	nd	nd	nd
FVP4-15	nd	nd	nd	nd	nd	nd	nd	nd	nd
FVP4-30	nd	0.009	0.067	0.006	nd	nd	nd	nd	nd
FVP4-60	nd	0.213	0.132	0.044	nd	nd	nd	nd	nd
FVP4-90	nd	nd	nd	nd	nd	nd	nd	nd	nd

DCP Dichloropropene, DCE=Dichloroethylene, PCE=Tetrachloroethylene, TCE=Trichloroethylene, B Benzene, Napth Naphthalene, TCA=Trichloroethane

Table 4
Soil Sampling Analytical Results - TPHcc
Continental Heat Treat
10643 Norwalk Boulevard, Santa Fe Springs, CA
October 19 - 27, 2011
(mg/Kg)

Sample ID/Depth	Gasoline (C4-C10)	Diesel (C11-C22)	Oil (C23-C35)
FVP1-5	nd	nd	nd
FVP1-15	nd	nd	nd
FVP1-30	nd	nd	nd
FVP1-60	nd	nd	nd
FVP1-90	23.4	75.0	92.3
FVP2-5	nd	nd	nd
FVP2-15	nd	nd	nd
FVP2-30	nd	nd	nd
FVP2-60	nd	nd	nd
FVP2-90	nd	nd	nd
FVP3-5	nd	nd	nd
FVP3-15	nd	nd	nd
FVP3-30	nd	nd	nd
FVP3-60	nd	nd	nd
FVP3-90	nd	nd	nd
FVP4-5	nd	nd	nd
FVP4-15	nd	nd	nd
FVP4-30	nd	nd	nd
FVP4-60	nd	nd	nd
FVP4-90	nd	nd	nd
FVP7-5	nd	nd	nd
FVP8-15	nd	nd	nd
FVP10-30	nd	nd	nd
FVP13-60	nd	nd	nd

Table 5
Soil Metals Concentrations
Continental Heat Treat
10643 Norwalk Boulevard, Santa Fe Springs, CA
October 27, 2011
(mg/Kg)

Sample Id.	Ba	Cr	Cr+6	Co	Cu	Pb	Ni	V	Zn
EPA-RSLs (ind)	190,000	150,000	5.6	23	3,100	400	3,800	390	2,300
FVP11-3'	99.3	17.1	nd	6.22	15.4	3.68	10.3	29.0	43.5
FVP12-3'	88.4	17.2	nd	6.78	12.0	3.37	11.4	31.7	38.4
PVP1a-3'	96.7	15.8	nd	6.01	12.1	3.10	10.2	28.4	37.7

Ba - Barium **Cr**- Chromium **Co**- Cobalt **Cu**- Copper **Ni**- Nickel **Pb**- Lead **V**- Vanadium **Zn**- Zinc
ND- Not detected at laboratory detection limit RSL – Regional Screening Level industrial, formerly PRG, EPA Region 9

Soil Vapor
(µg/L)

TABLE 6

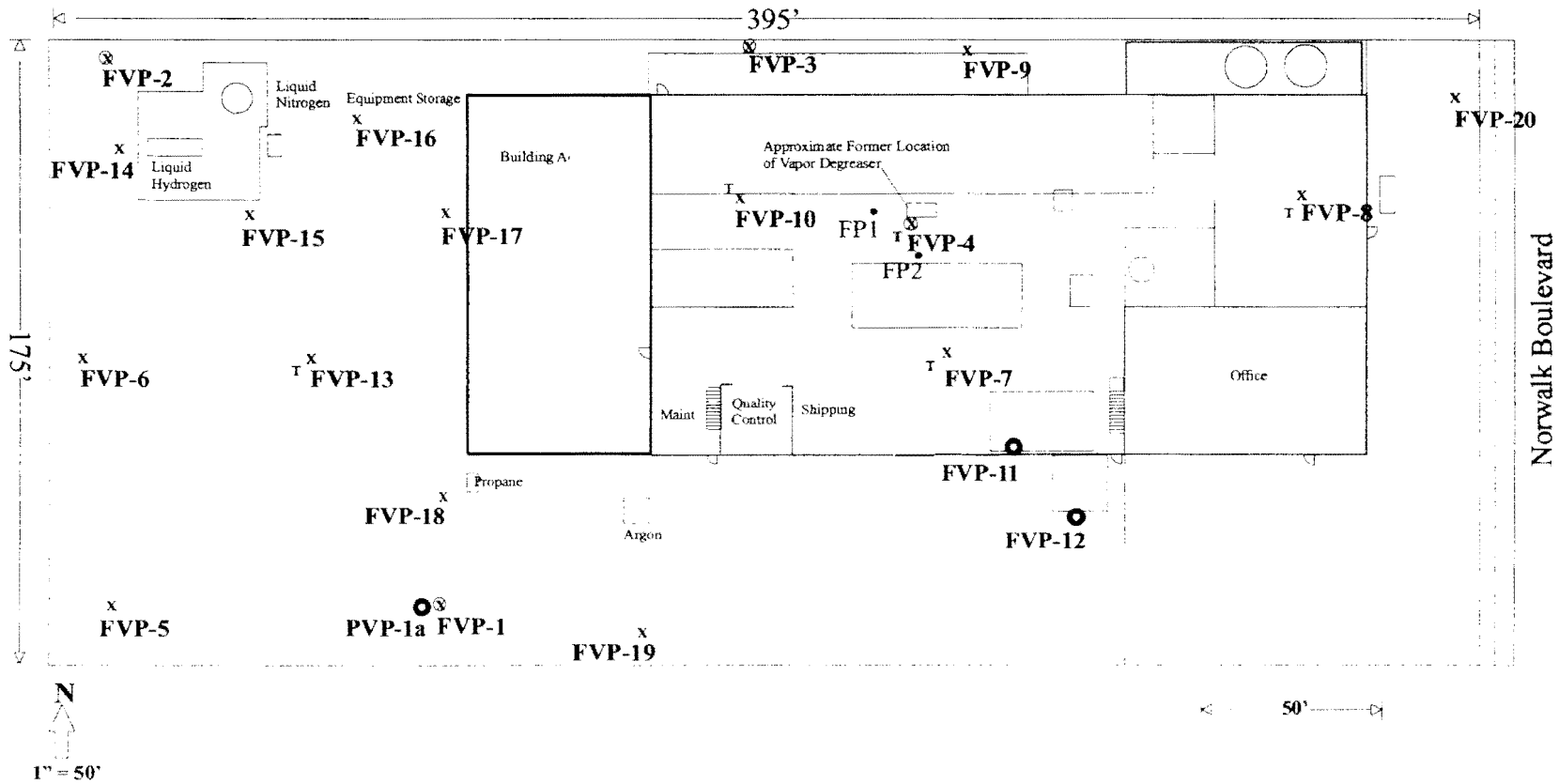
LOCATION-depth(ft)	Date Sampled	1,2-DCE µg/L	TCE µg/L	PCE µg/L	HC µg/L	1,1-DCE µg/L	VC µg/L	Chloroform µg/L	VOA µg/L
FP1-5	08-Nov-11	24	175	1771	N	0.3	N	1.7	N
FP1-15	08-Nov-11	17	96	1728	N	0.4	N	1.5	N
FP1-30	08-Nov-11	27	81	1871	274	0.4	N	1	N
FP1-45	08-Nov-11	224	105	1384	1065	3.2	N	0.4	N
FP1-60	08-Nov-11	170	101	1737	6715	21	N	N	N
FVP1-5	05-Nov-11	73	107	872	3347	13	N	N	N
FVP1-15	05-Nov-11	1.4	59	427	N	N	N	N	N
FVP1-30	05-Nov-11	233	109	669	7375	32	N	N	N
FVP1-60	05-Nov-11	318	89	768	9089	39	N	N	N
FVP1-90	05-Nov-11	91	135	1143	3520	14	N	N	N
FP2-5	08-Nov-11	1.8	18	534	N	N	N	1.1	N
FP2-15	08-Nov-11	9.7	54	1005	N	N	N	1.5	N
FP2-30	08-Nov-11	N	22	1288	152	N	N	N	N
FP2-45	08-Nov-11	99	80	1197	1138	7	N	N	N
FP2-60	08-Nov-11	62	75	1020	5049	11	N	N	N
FVP2-5	05-Nov-11	4.4	100	3905	6201	N	27	N	N
FVP2-15	05-Nov-11	5.5	84	12742	7166	N	16	N	N
FVP2-30	05-Nov-11	6.7	90	7479	6910	N	24	N	N
FVP2-60	05-Nov-11	10	71	2687	8796	N	40	N	N
FVP2-90	05-Nov-11	8.5	51	2122	6392	N	35	N	N
FVP3-5	05-Nov-11	2.2	1.5	25	N	N	N	N	N
FVP3-15	05-Nov-11	513	149	867	590	1.2	N	N	N
FVP3-30	05-Nov-11	1130	186	1512	3540	9.8	N	N	N
FVP3-60	05-Nov-11	755	124	898	4837	20	N	N	N
FVP3-90	05-Nov-11	318	63	1033	7830	31	N	N	N
FVP4-5	05-Nov-11	16	70	430	N	0.4	N	1.4	N
FVP4-15	05-Nov-11	15	76	1381	N	N	N	1.7	N
FVP4-30	05-Nov-11	34	41	576	3593	6.1	N	0.6	N
FVP4-60	05-Nov-11	21	48	336	40386	N	143	N	N
FVP4-90	05-Nov-11	27	45	346	31636	N	121	N	N
FVP5-5 NF	04-Nov-11								N
FVP5-15 NF	04-Nov-11								N
FVP6-5 LF	04-Nov-11	N	0.5	88	N	N	N	N	N
FVP6-15	04-Nov-11	N	6.2	1420	N	N	N	N	N
FVP7-5	04-Nov-11	9	27	152	N	N	N	N	N
FVP7-15	04-Nov-11	3.9	24	372	N	N	N	N	N
FVP8-5	04-Nov-11	15	139	696	N	N	N	N	N
FVP8-15	04-Nov-11	1.6	70	1587	N	N	N	N	N
FVP9-5	04-Nov-11	N	3	92	N	N	N	N	N
FVP9-15	04-Nov-11	N	N	16	N	N	N	N	N
FVP10-5	04-Nov-11	76	140	1889	N	N	N	N	N
FVP10-15	04-Nov-11	103	226	3077	N	N	N	N	N
FVP13-5	04-Nov-11	2.9	62	1510	N	N	N	N	N
FVP13-15	04-Nov-11	18	181	2741	N	N	N	N	N
FVP14-5 NF	04-Nov-11								
FVP14-15	04-Nov-11	2.7	17	5876	N	N	N	N	N
FVP15-5	04-Nov-11	N	3.2	249	N	N	N	N	N
FVP15-15	04-Nov-11	N	57	5163	N	N	N	N	N
FVP16-5	04-Nov-11	0.4	37	3316	N	0.5	N	N	N
FVP16-15	04-Nov-11	4.4	82	8202	N	N	N	N	N
FVP17-5	04-Nov-11	21	120	1426	N	N	N	N	N
FVP17-15	04-Nov-11	96	342	9160	N	N	N	N	N
FVP18-5	04-Nov-11	81	245	723	N	N	N	N	N
FVP18-15	04-Nov-11	48	260	1798	407	N	N	N	N
FVP19-5	09-Nov-11	N	0.1	15	N	N	N	N	N
FVP19-15 leak	*09-Nov-11*	*N*	*0.7*	*16*	*N*	*N*	*N*	*N*	*N*
FVP20-5	04-Nov-11	N	N	5.6	N	N	N	N	N
FVP20-15	04-Nov-11	N	1.4	186	N	N	N	N	N

TCE = Trichloroethylene
PCE = Tetrachloroethylene
DCE = Dichloroethylene

VOC = Volatile Organic Compounds (other)

N = < 0.5 µg/L
NF = no flow
LF = low flow

Figures



Legend

Concentrations in µg/L

X FVP-14 - Gas Sampling Probes (5 & 15 ft)

FVP-1 - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

- Soil Sampling Locations, metals only @ 3'

T - Soil Sampling Locations, TPHcc @ 5'

Base Map Source: Trilogy Regulatory Services

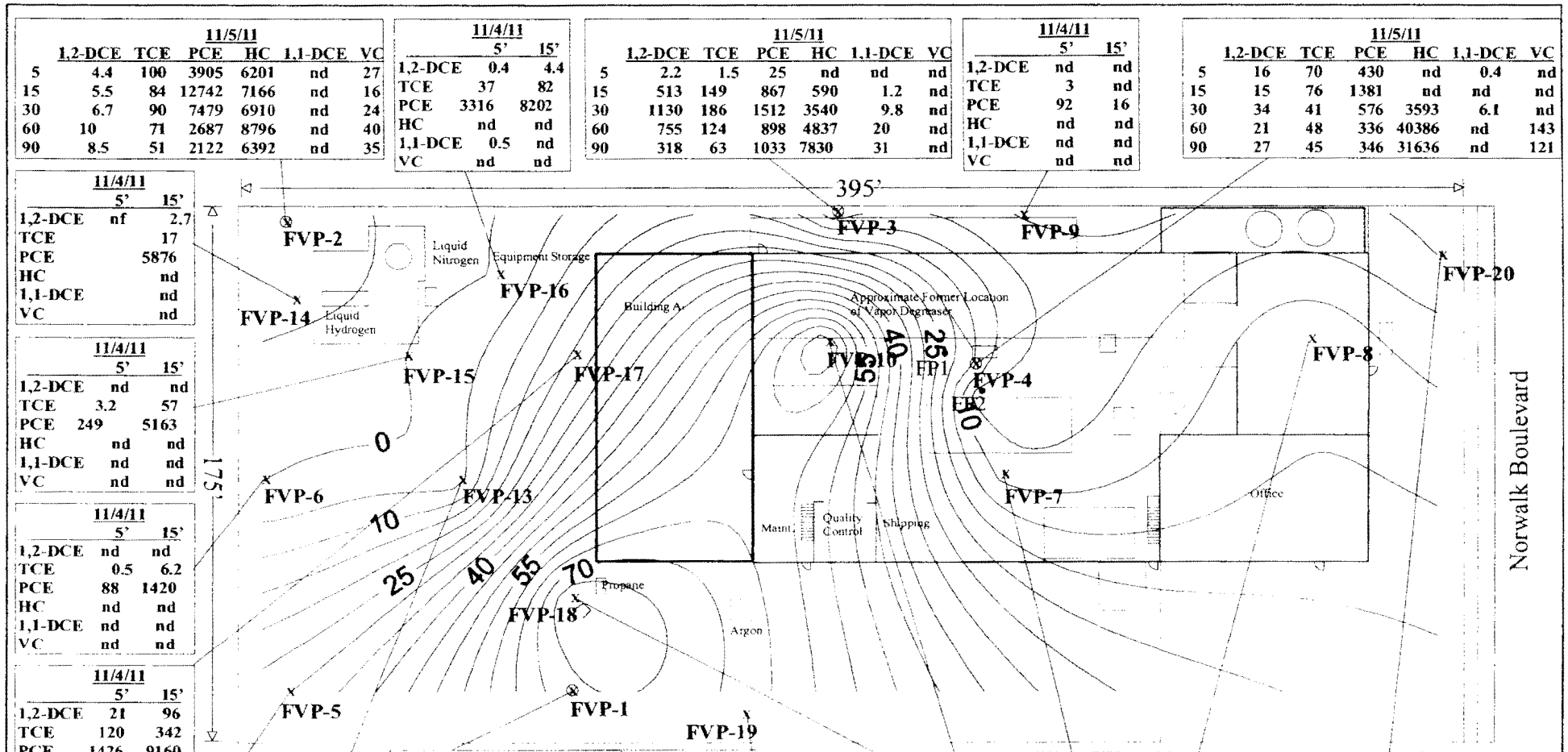
FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

Sampling Locations
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[758samploc2011]

Figure 1



	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14 ⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1 • FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

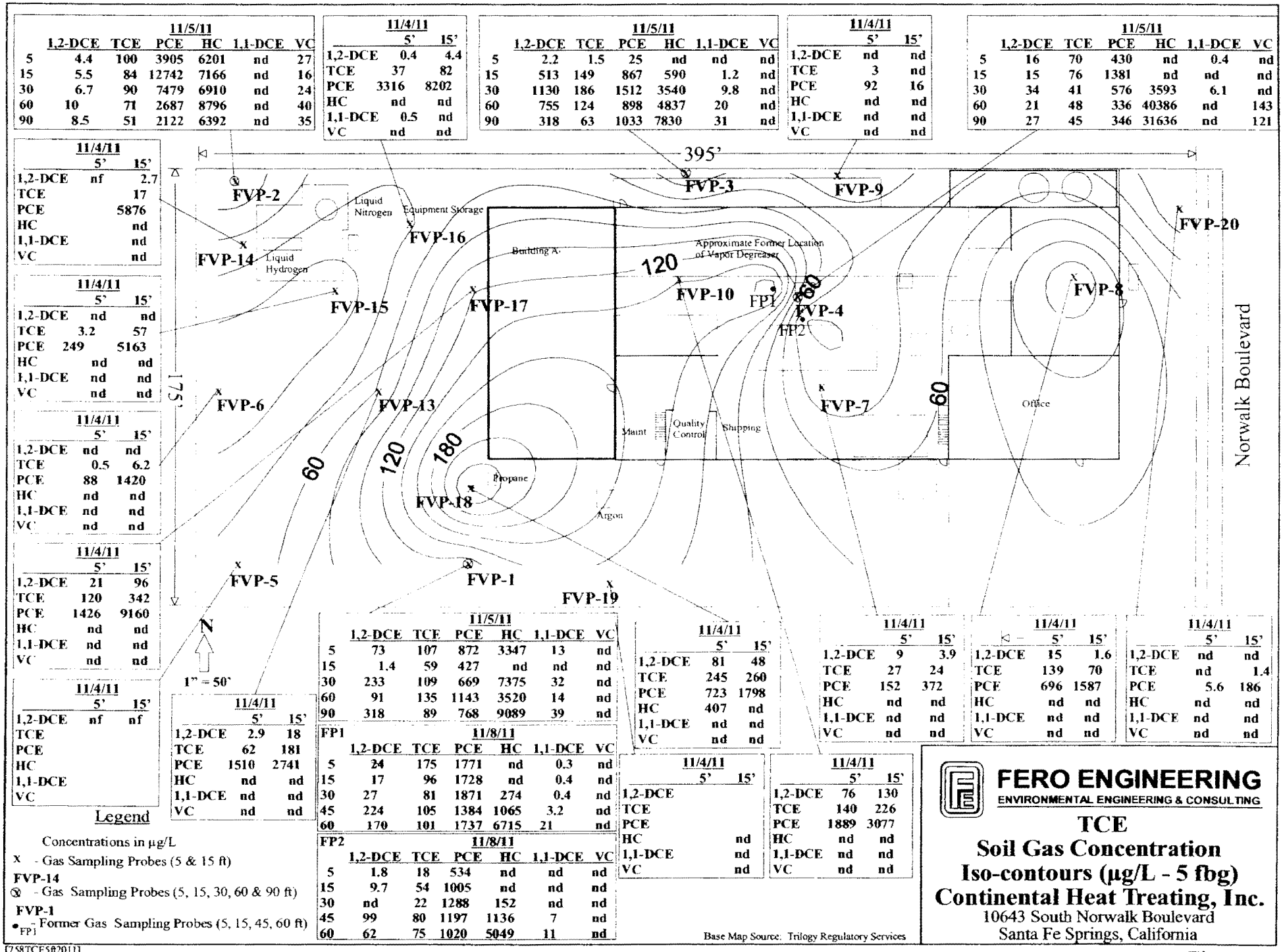
FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

1,2-DCE
Soil Gas Concentration
Iso-contours (µg/L - 5 fbg)
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[7581,2-DCE5ft2011]

Figure 2



	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14

⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1

• FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

FERO ENGINEERING

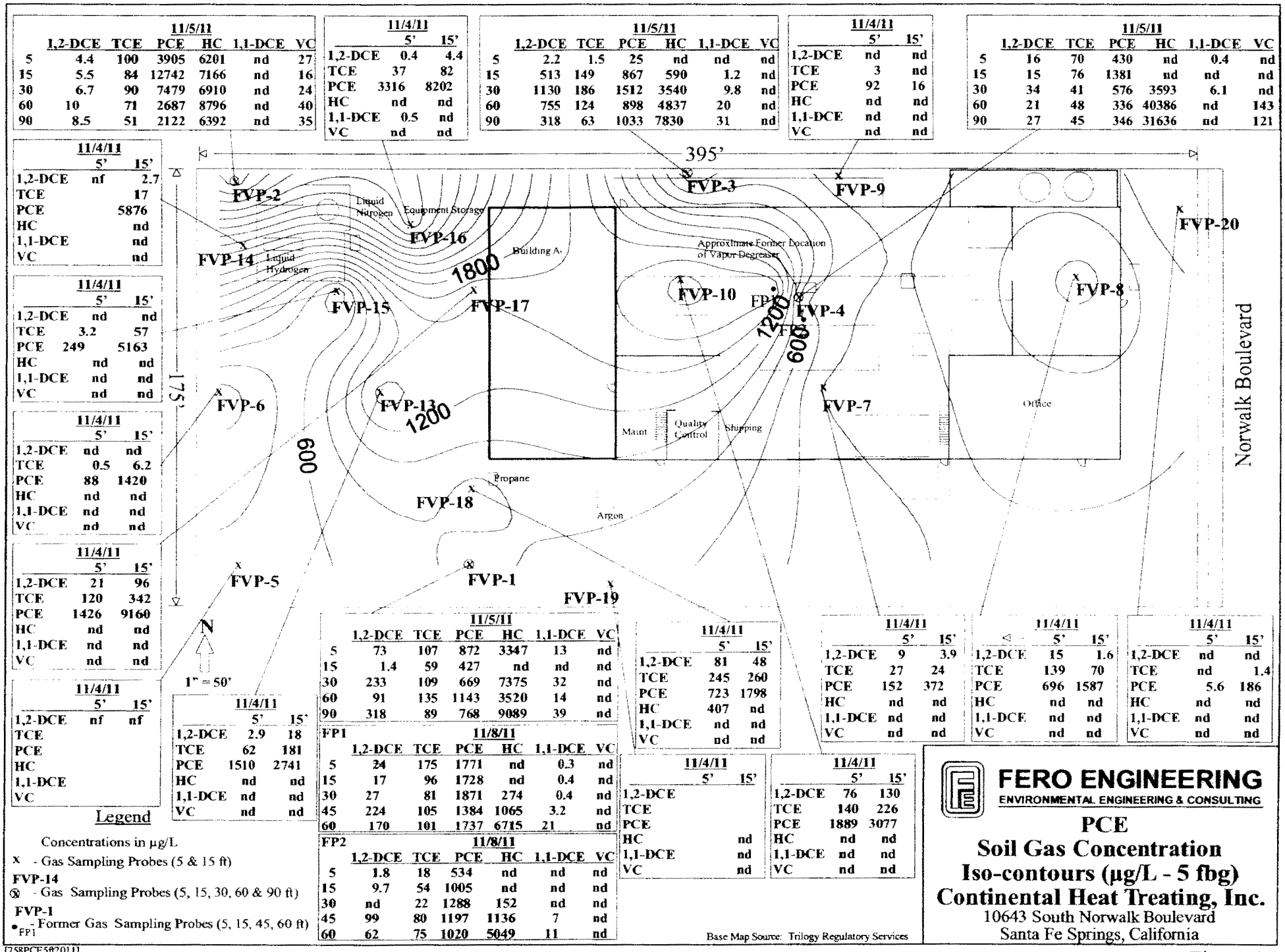
ENVIRONMENTAL ENGINEERING & CONSULTING

TCE
Soil Gas Concentration
Iso-contours (µg/L - 5 fbg)
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[758TCE5ft2011]

Figure 3



	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11		
	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11		
	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11						
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11						
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/5/11						
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11		
	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11		
	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14

⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1

•FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

FERO ENGINEERING

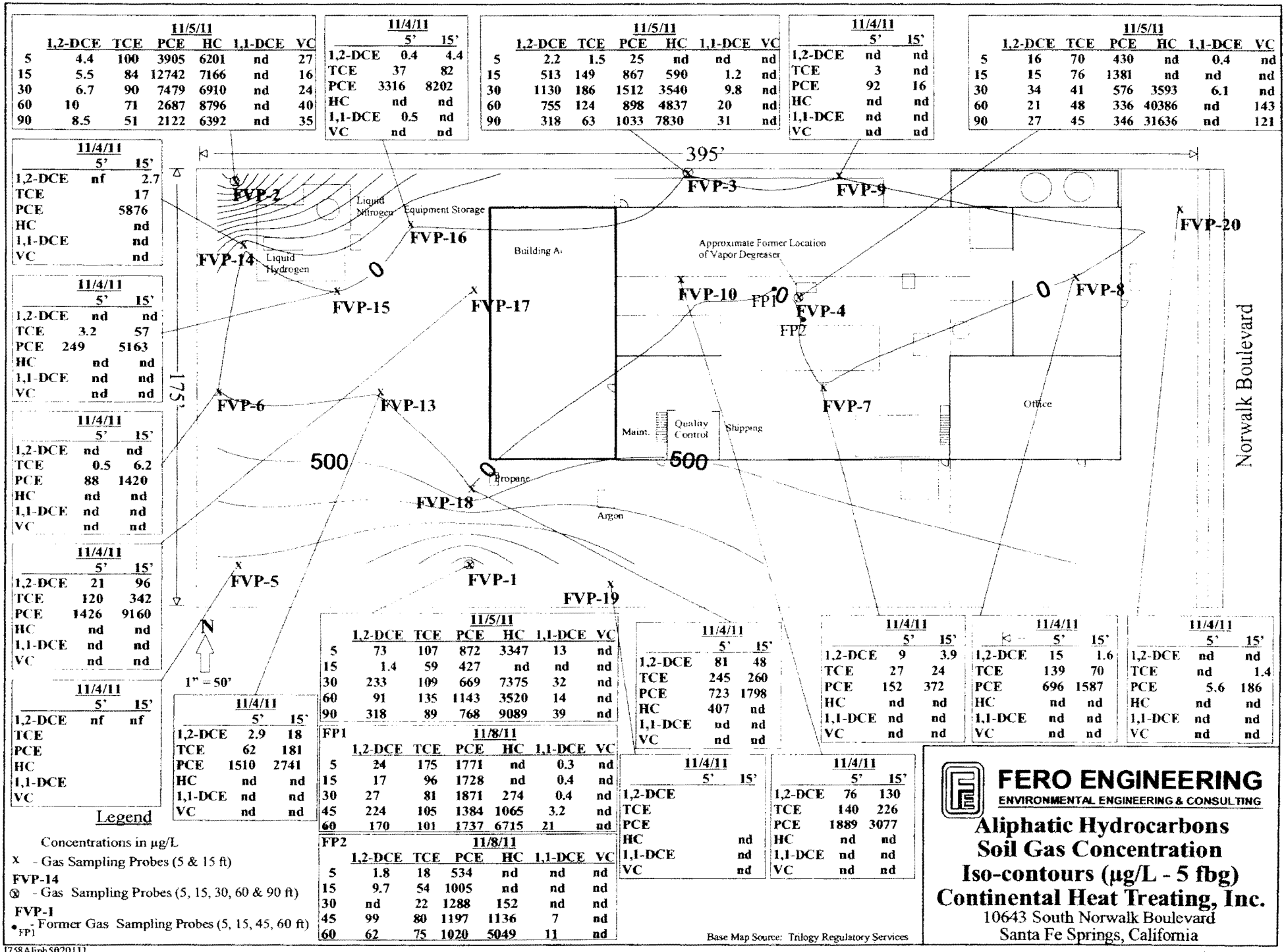
ENVIRONMENTAL ENGINEERING & CONSULTING

PCE
Soil Gas Concentration
Iso-contours (µg/L - 5 fbg)
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[758PCE5ft2011]

Figure 4



11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11

	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11

	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11

	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11

	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11

	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

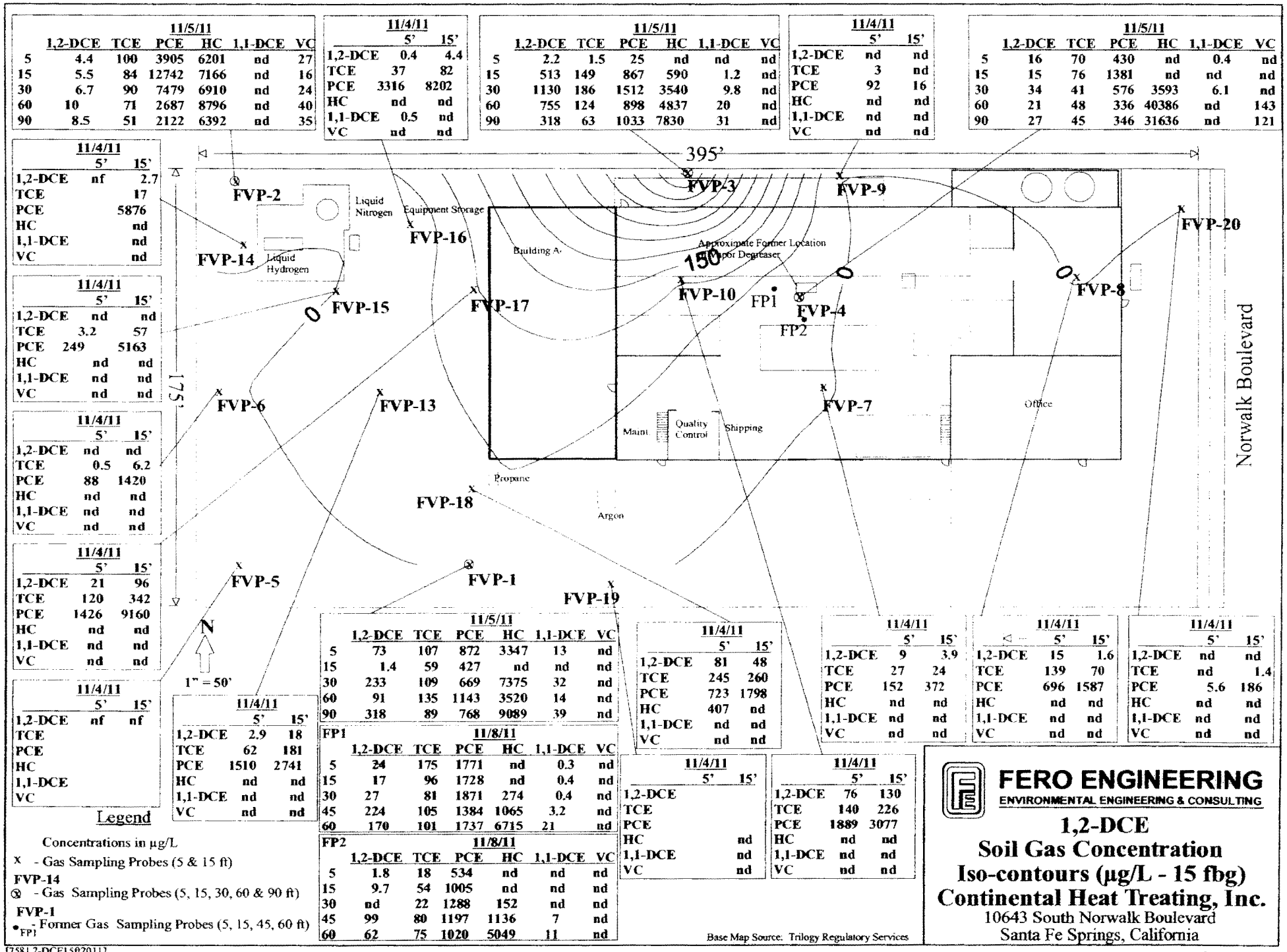
	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

[758Aliph5ft2011]

Figure 5



	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14

⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1

•FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

FERO ENGINEERING

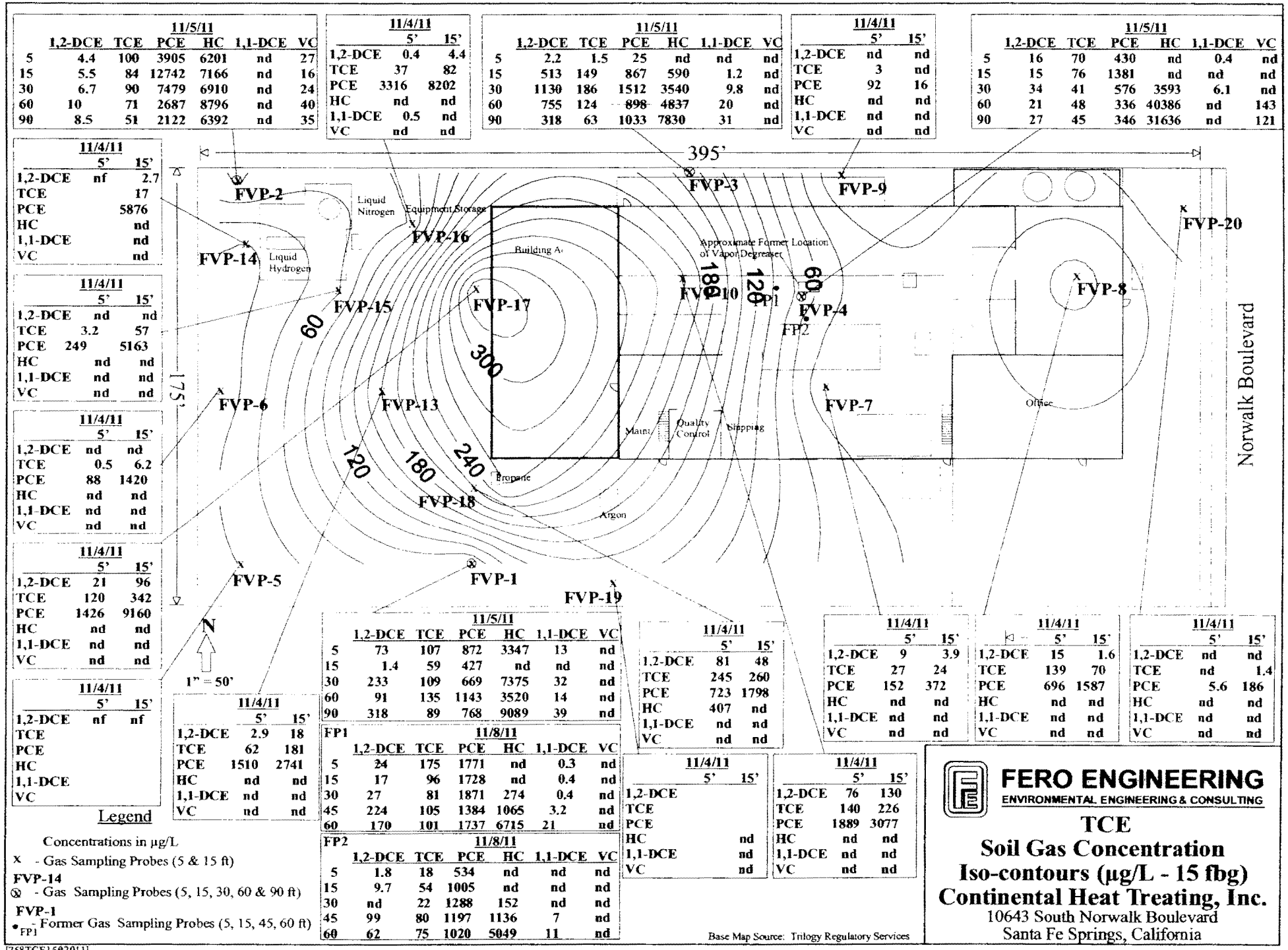
ENVIRONMENTAL ENGINEERING & CONSULTING

1,2-DCE
Soil Gas Concentration
Iso-contours (µg/L - 15 fbg)
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[7581,2-DCE15ft2011]

Figure 6



	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14

⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1

• FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

FERO ENGINEERING

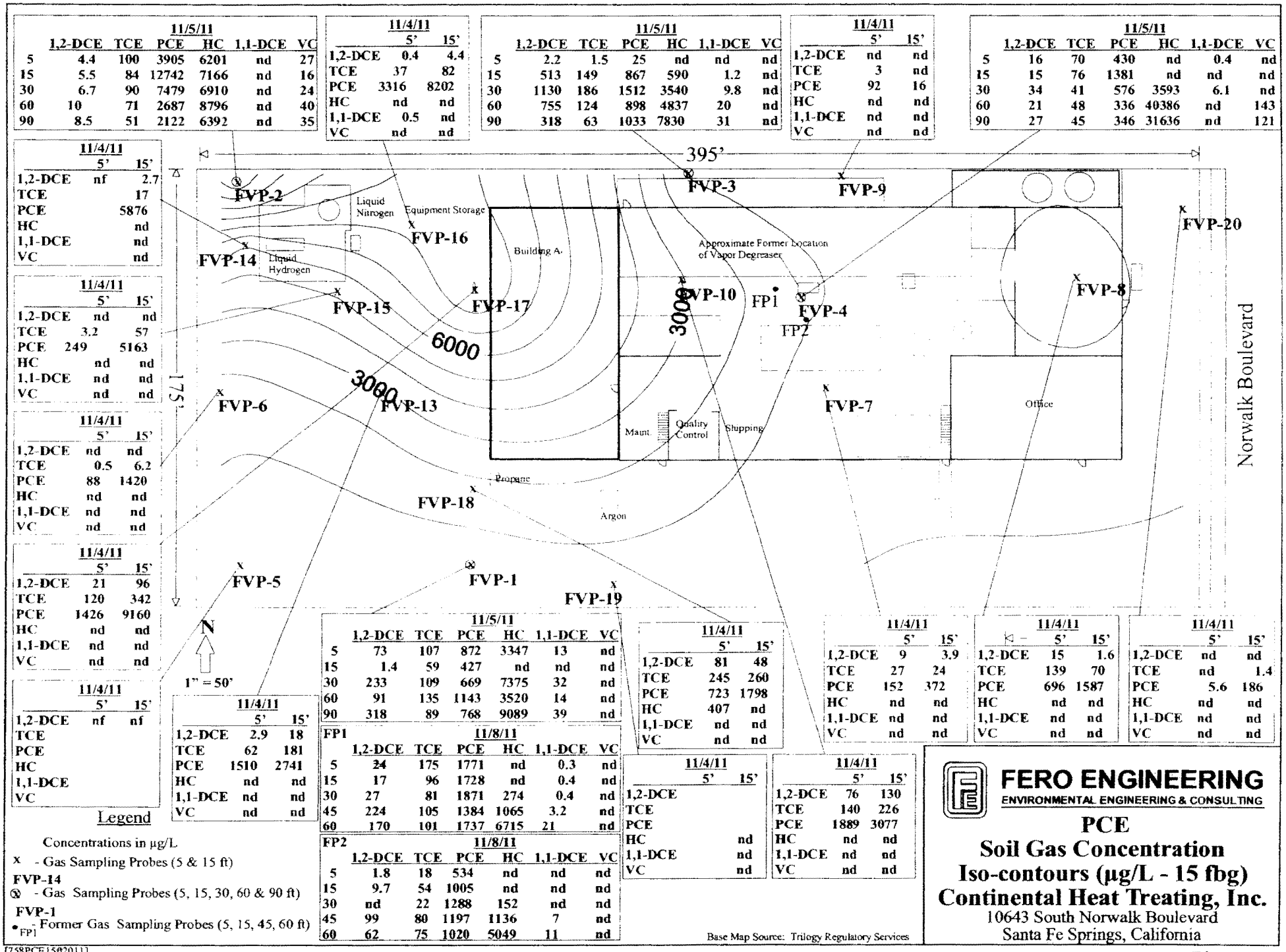
ENVIRONMENTAL ENGINEERING & CONSULTING

TCE
Soil Gas Concentration
Iso-contours (µg/L - 15 fbg)
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[758TCE15ft2011]

Figure 7



11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14 ⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1 • FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

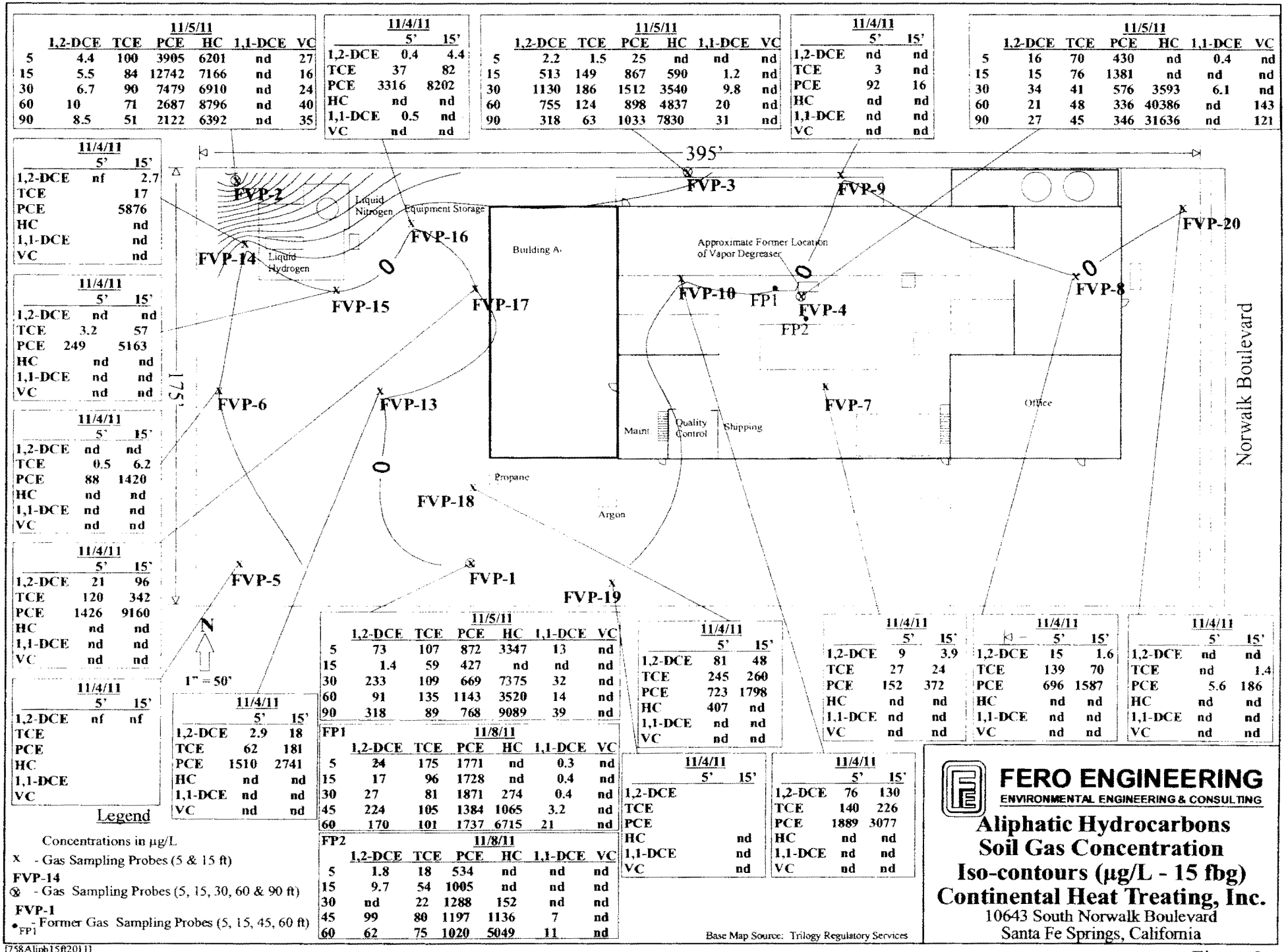
Base Map Source: Trilogy Regulatory Services

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

PCE
Soil Gas Concentration
Iso-contours (µg/L - 15 fbg)
Continental Heat Treating, Inc.
10643 South Norwalk Boulevard
Santa Fe Springs, California

[758PCE15ft2011]

Figure 8



11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

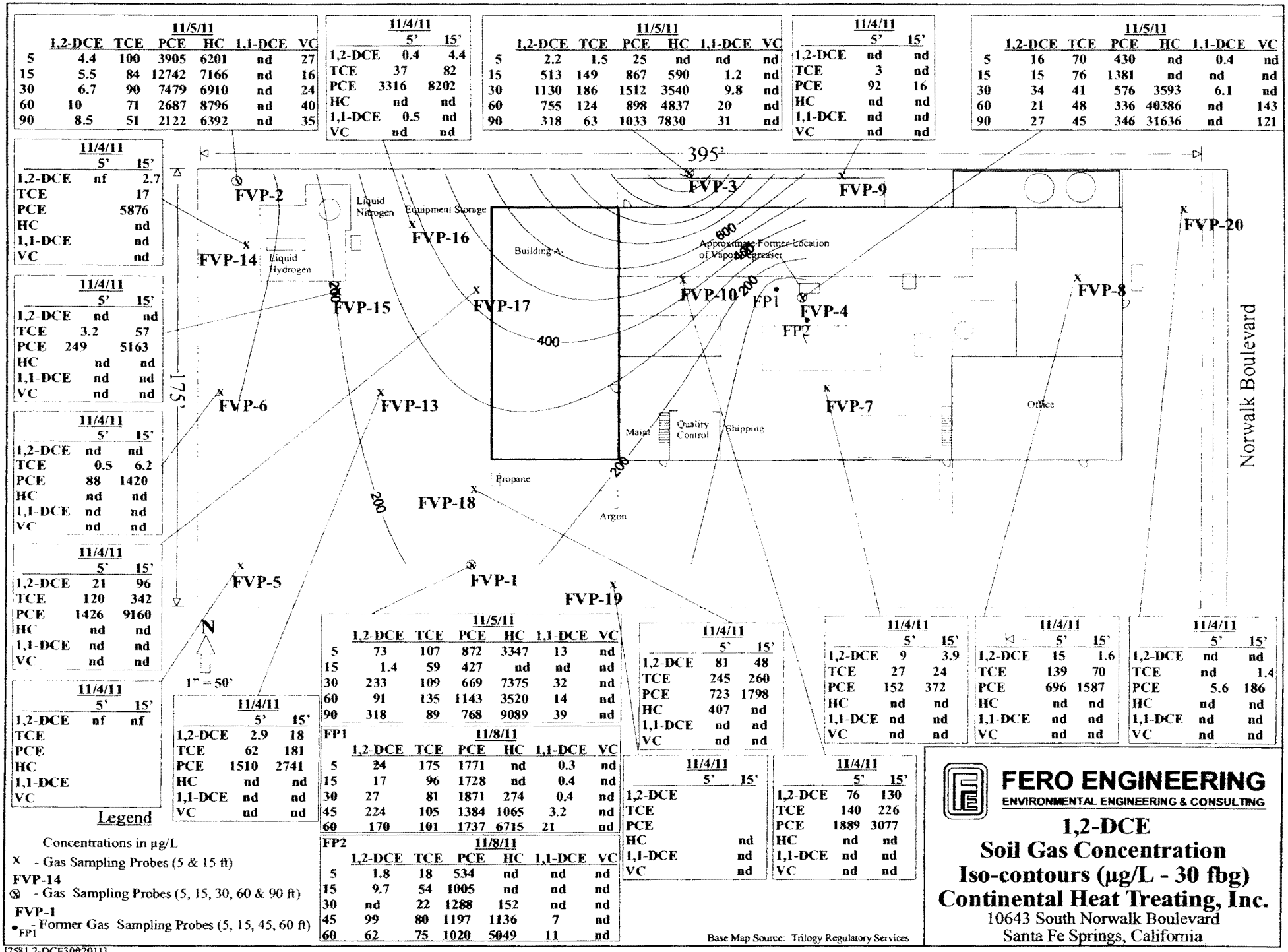
11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

[758Aliph15ft2011]

Figure 9



11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11

	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11

	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11

	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11

	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11

	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

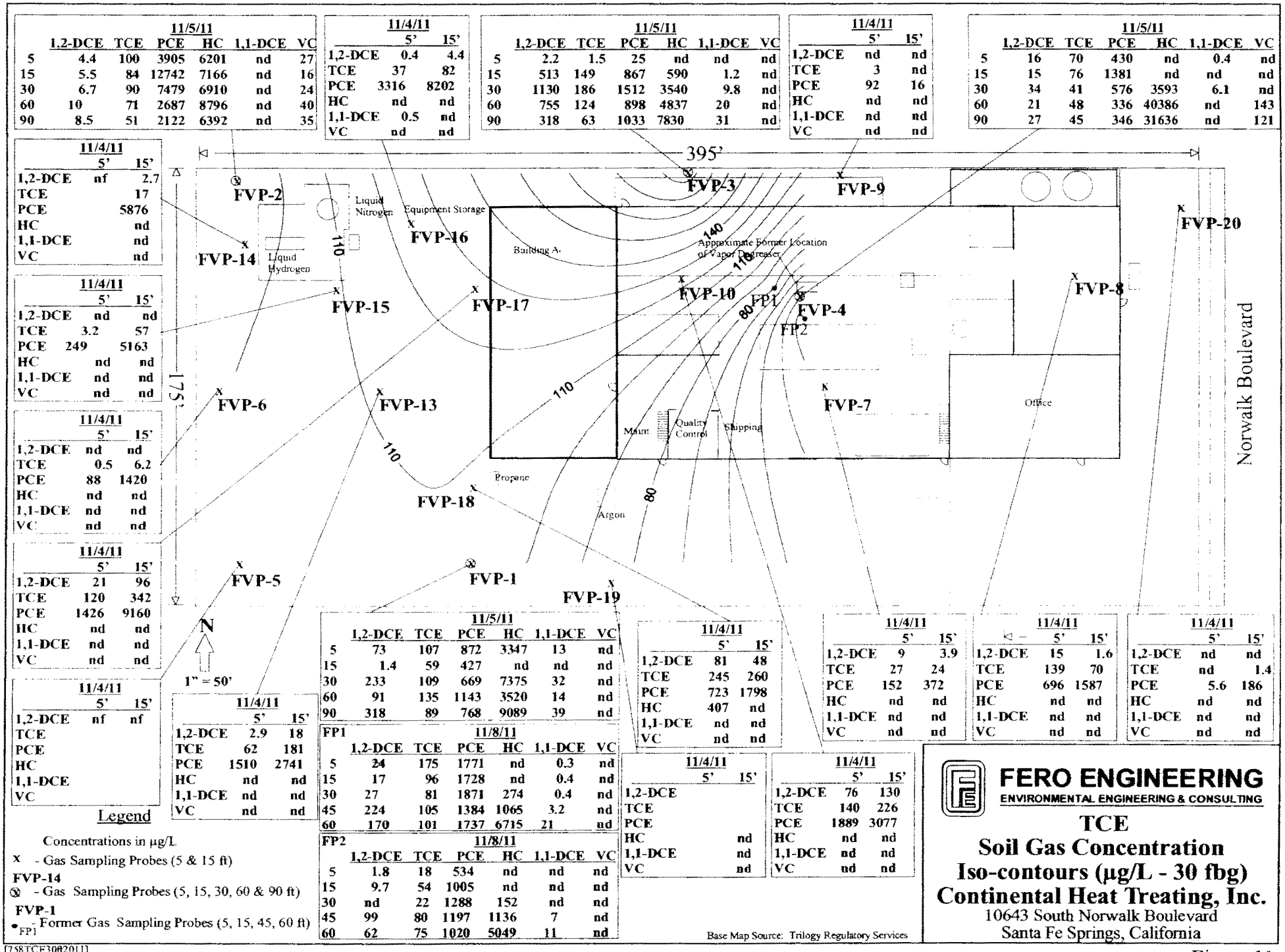
	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

[7581.2-DCE30ft2011]

Figure 10



	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11		
	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11		
	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11		
	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11		
	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11		
	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14

⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1

•FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

FERO ENGINEERING

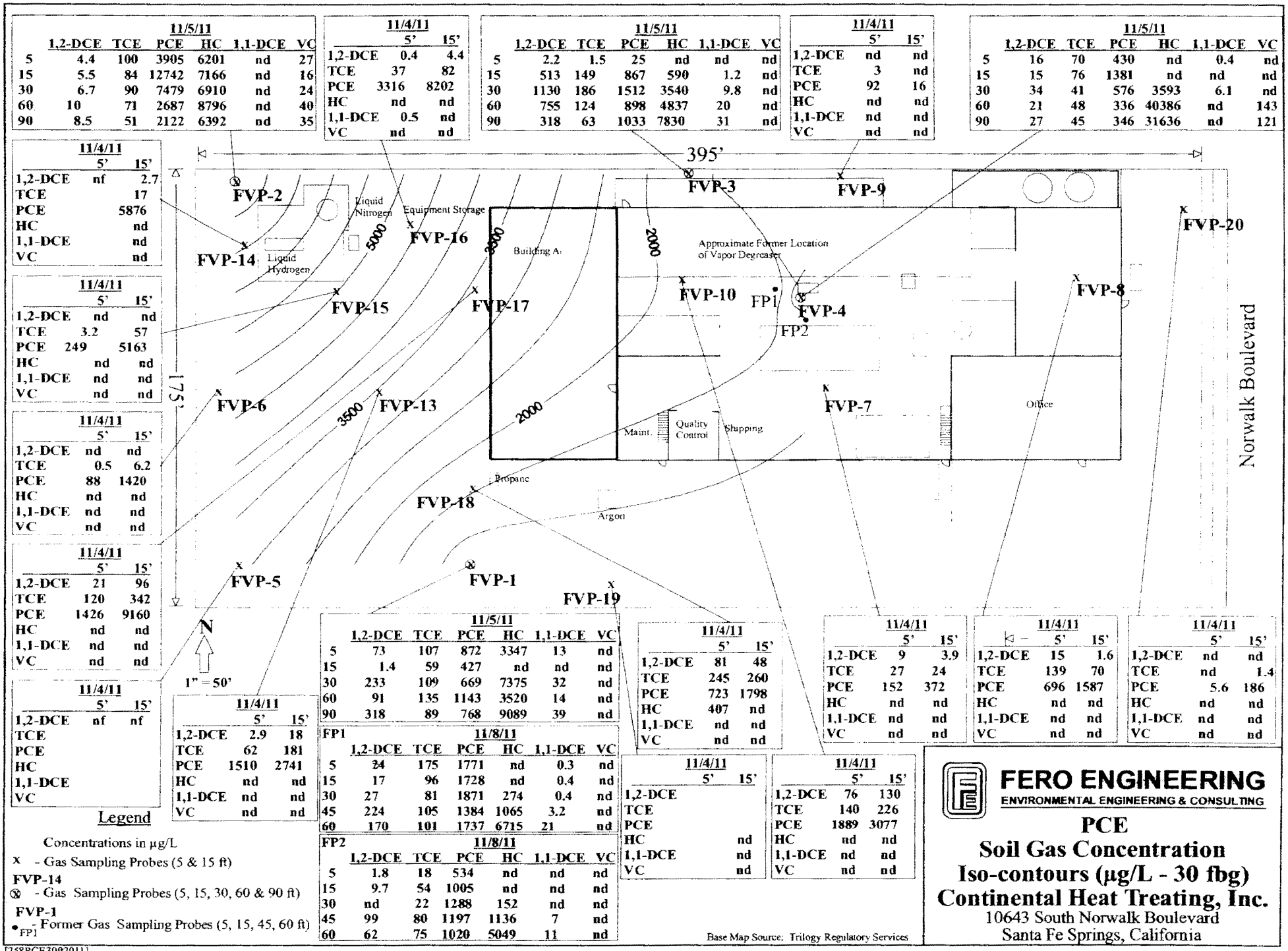
ENVIRONMENTAL ENGINEERING & CONSULTING

TCE
Soil Gas Concentration
Iso-contours (µg/L - 30 fbg)
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[758TCE30R2011]

Figure 11



11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14

⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1

•FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

FERO ENGINEERING

ENVIRONMENTAL ENGINEERING & CONSULTING

PCE

Soil Gas Concentration

Iso-contours (µg/L - 30 fbg)

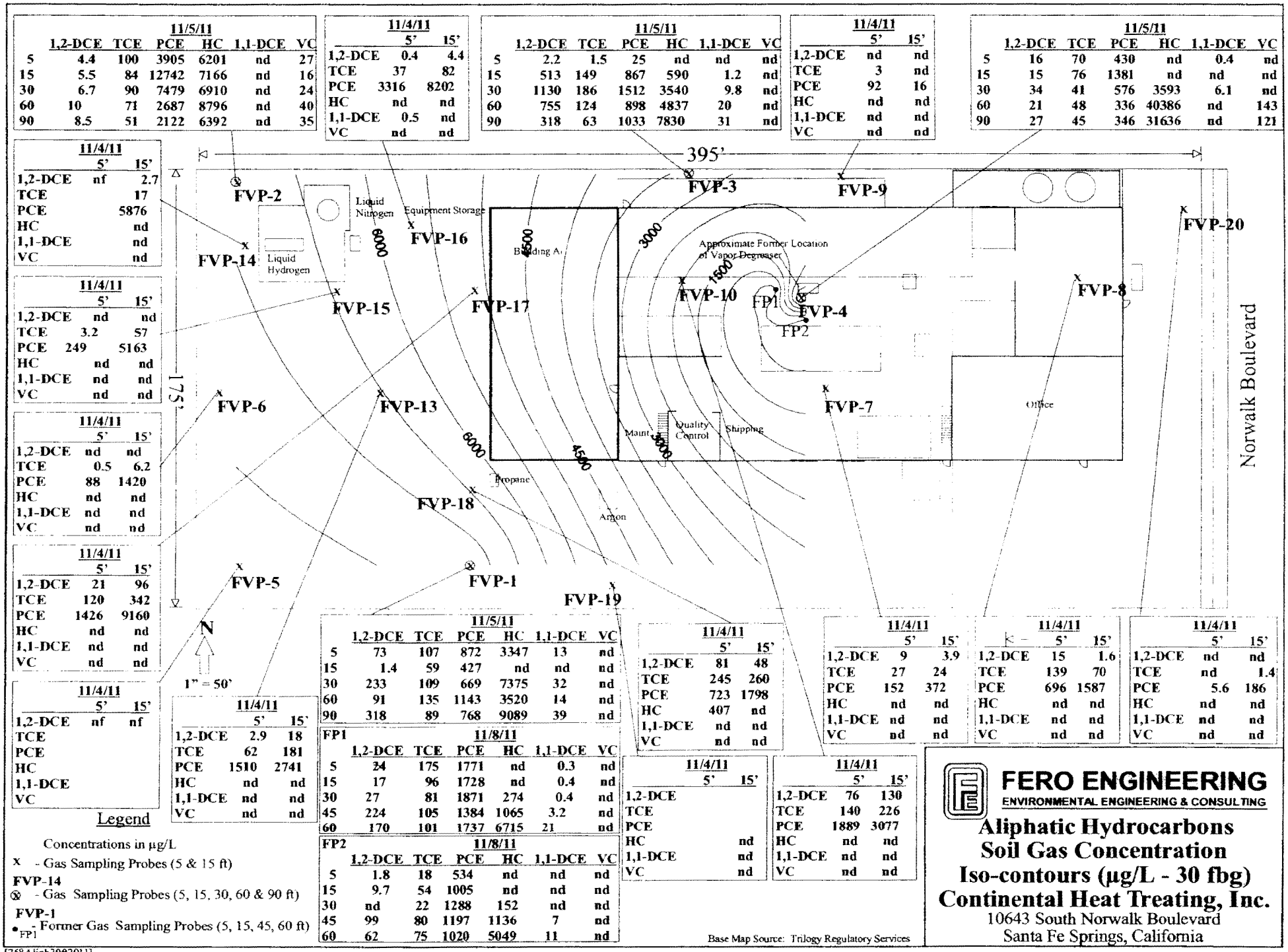
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard

Santa Fe Springs, California

[758PCE30fi2011]

Figure 12



11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11

	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11

	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11

	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11

	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11

	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

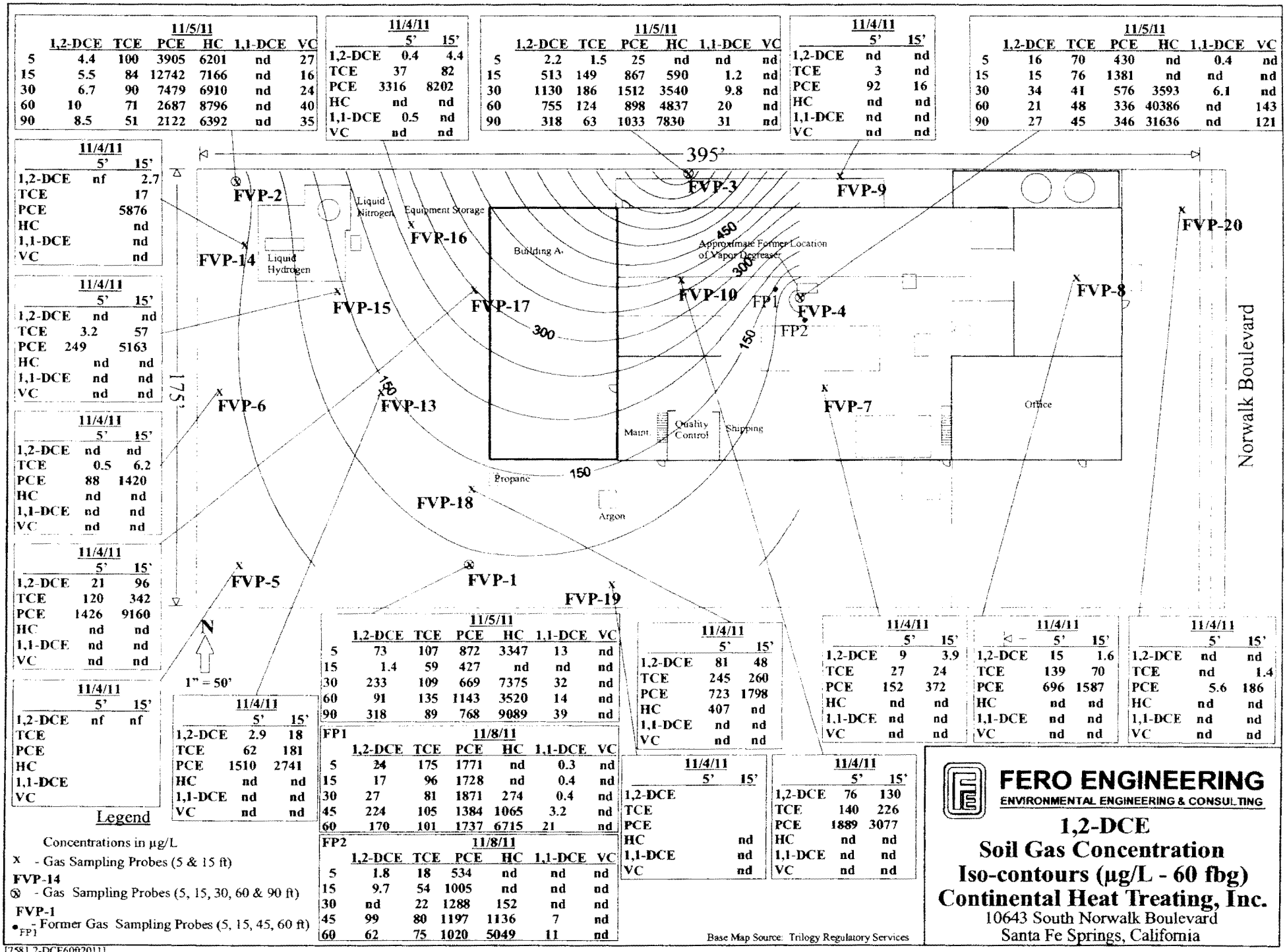
	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

[758Aliph30ft2011]

Figure 13



11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14

⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1

•FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

FERO ENGINEERING

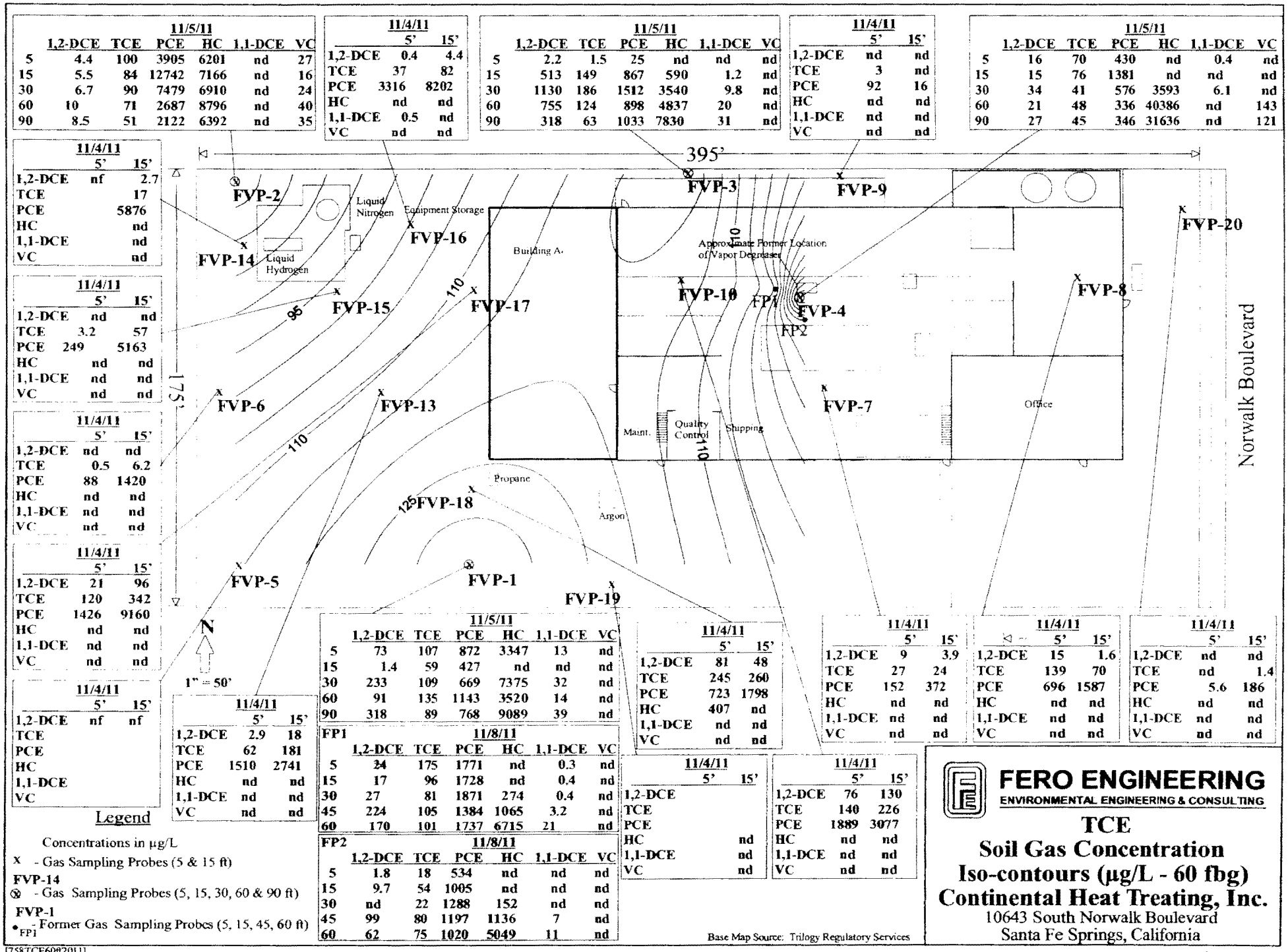
ENVIRONMENTAL ENGINEERING & CONSULTING

1,2-DCE Soil Gas Concentration Iso-contours (µg/L - 60 fbg) Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[7581,2-DCE60ft2011]

Figure 14



11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14 ⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1 • FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

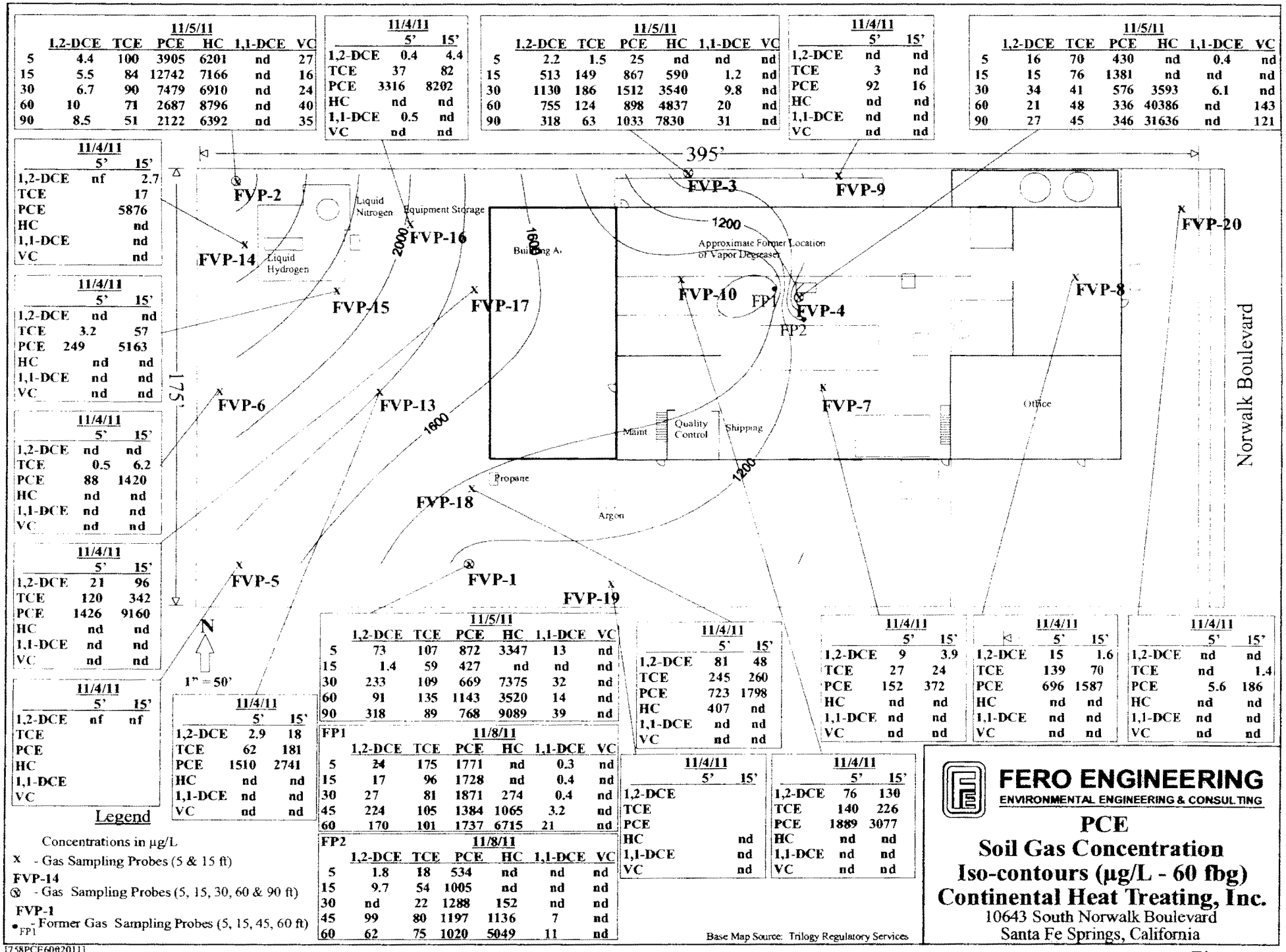
FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

TCE
Soil Gas Concentration
Iso-contours (µg/L - 60 fbg)
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[758TCE60ft2011]

Figure 15



11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

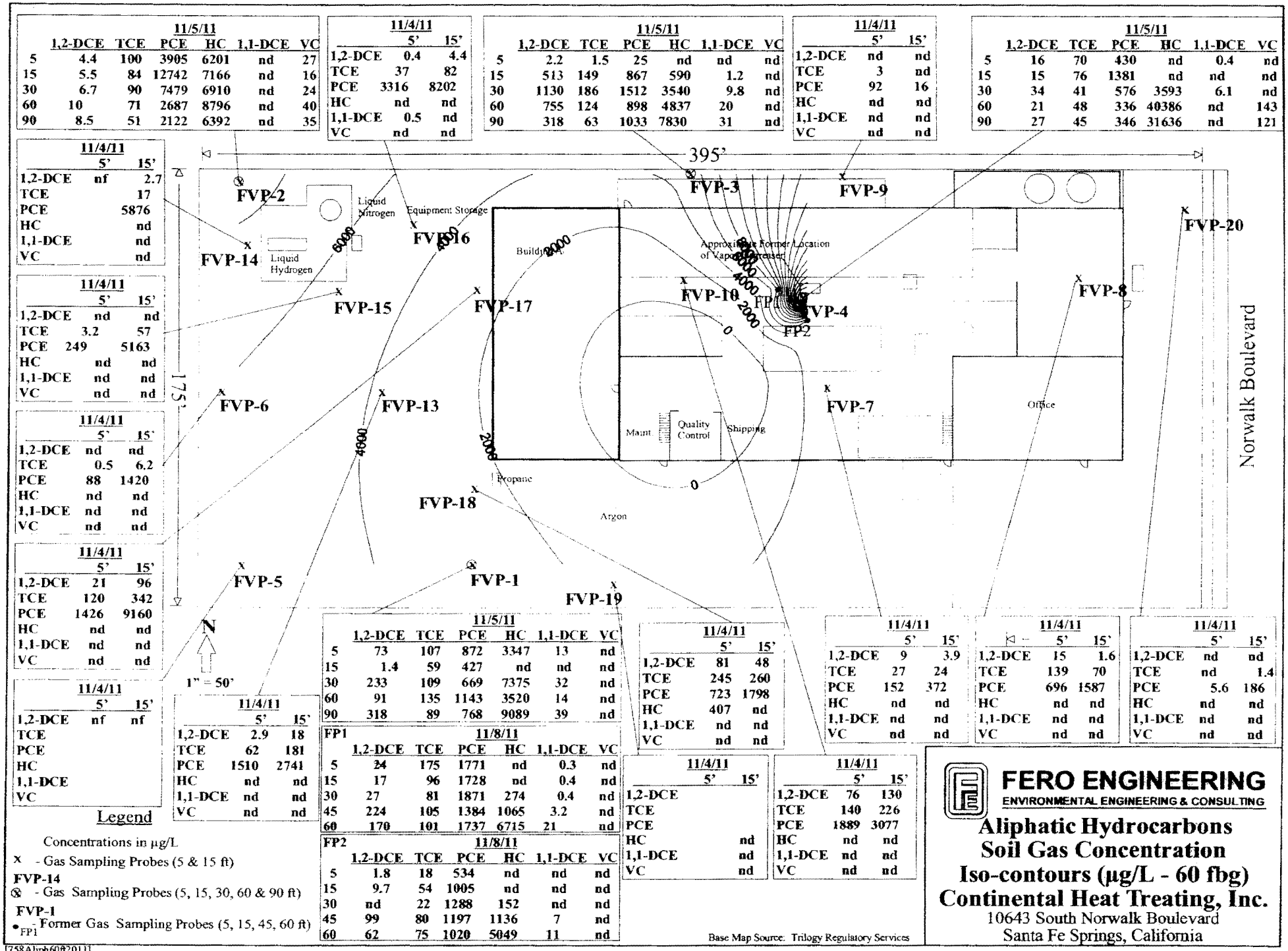
11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

[758PCE60ft2011]

Figure 16



11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11

	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11

	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11

	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11

	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11

	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

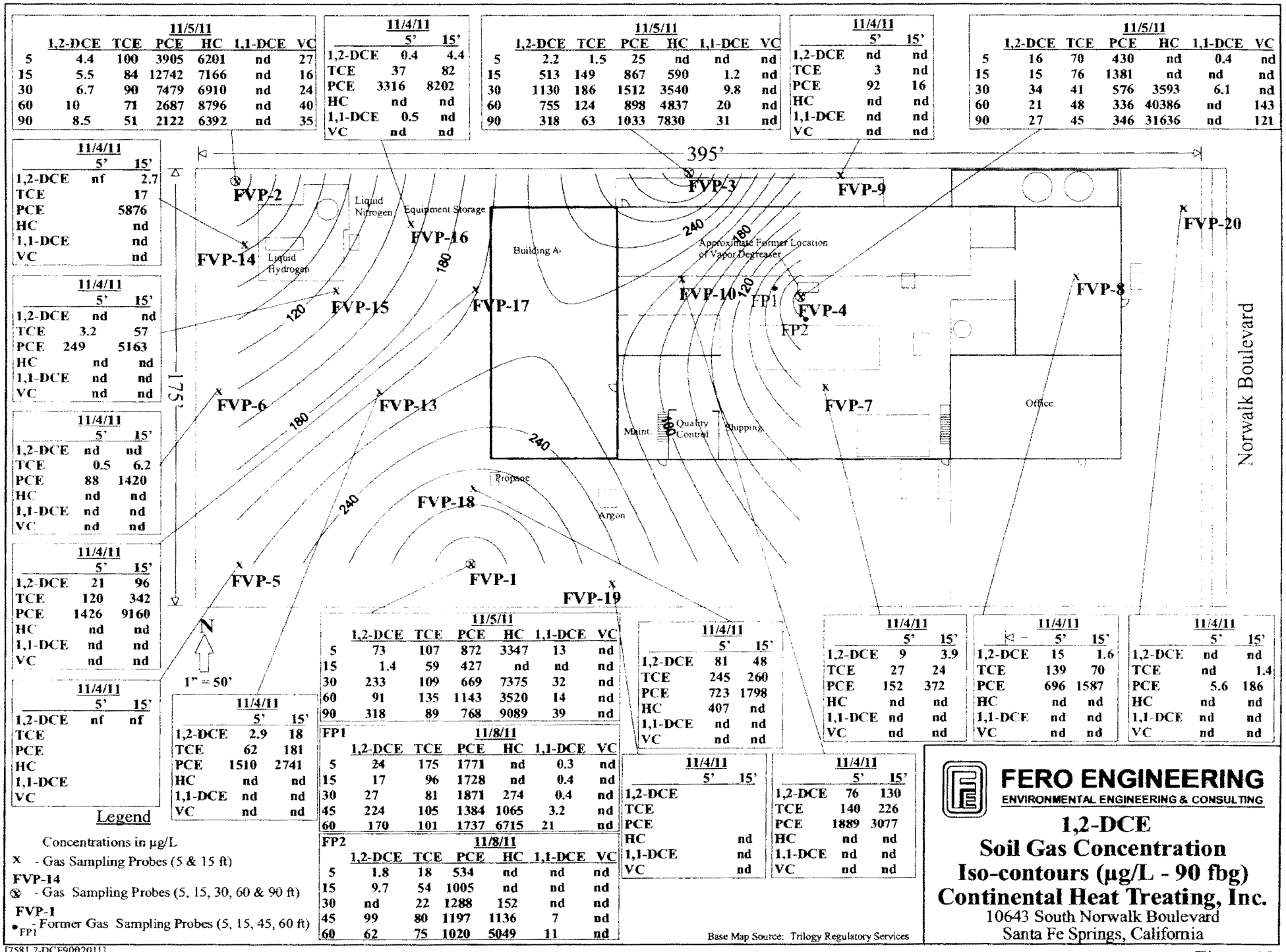
11/4/11

	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Figure 17



11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11

	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11

	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11

	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11

	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11

	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11

	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

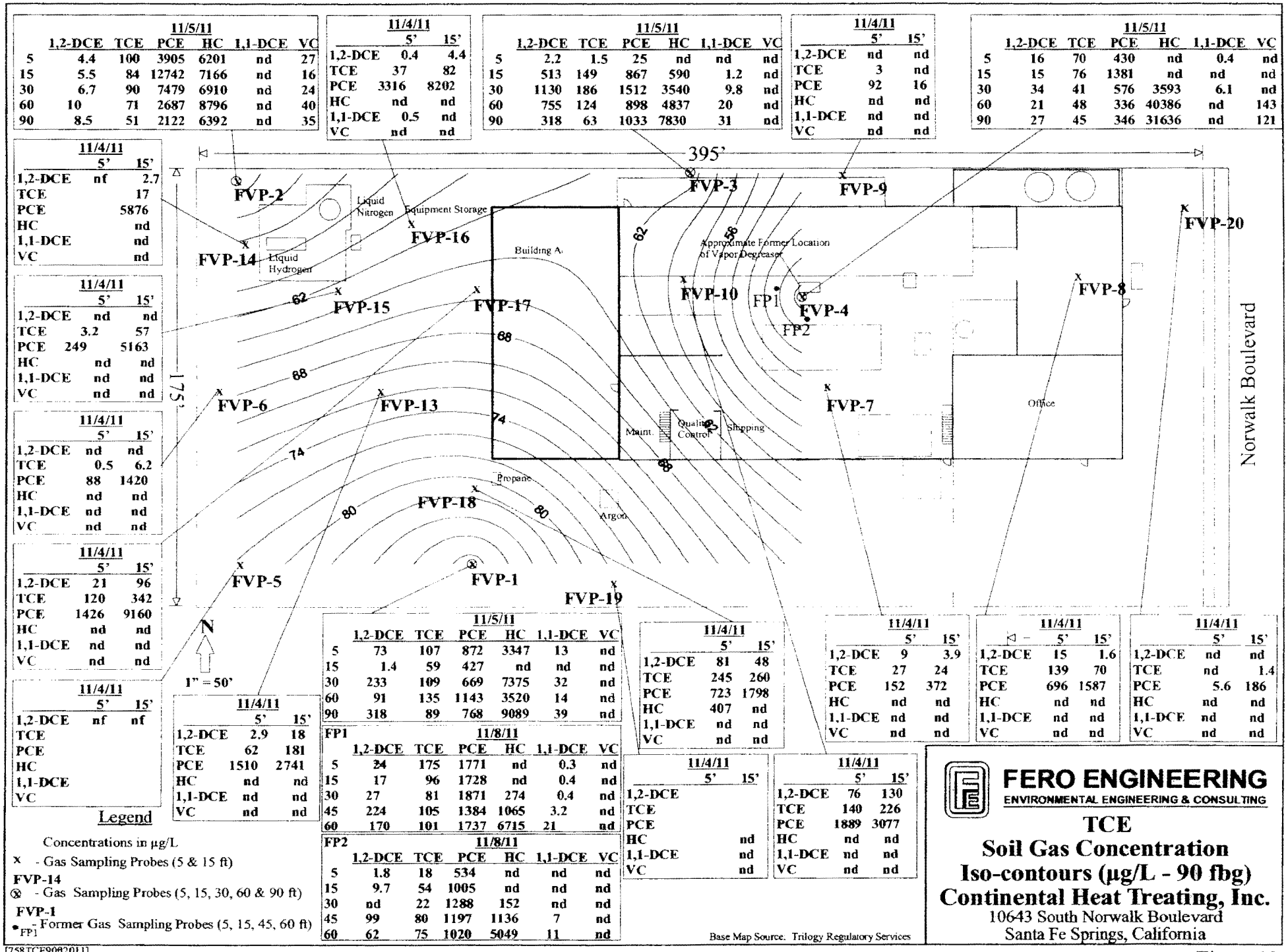
	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11

	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

[7581,2-DCE90ft2011]

Figure 18



11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/5/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2 11/8/11	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14

⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1

•FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

FERO ENGINEERING

ENVIRONMENTAL ENGINEERING & CONSULTING

TCE

Soil Gas Concentration

Iso-contours (µg/L - 90 fbg)

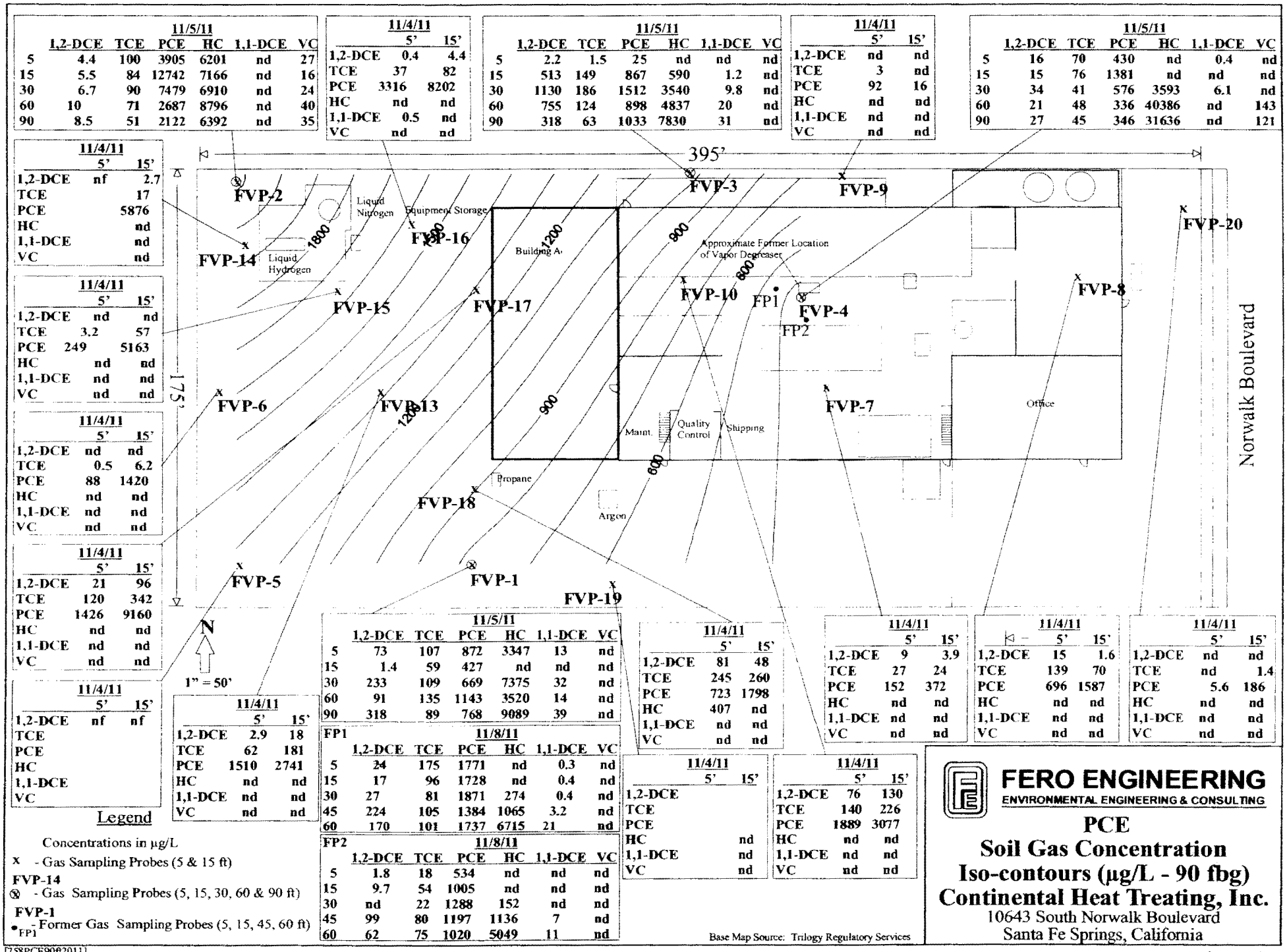
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard

Santa Fe Springs, California

[758TCE90ft2011]

Figure 19



	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14
⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1
•FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

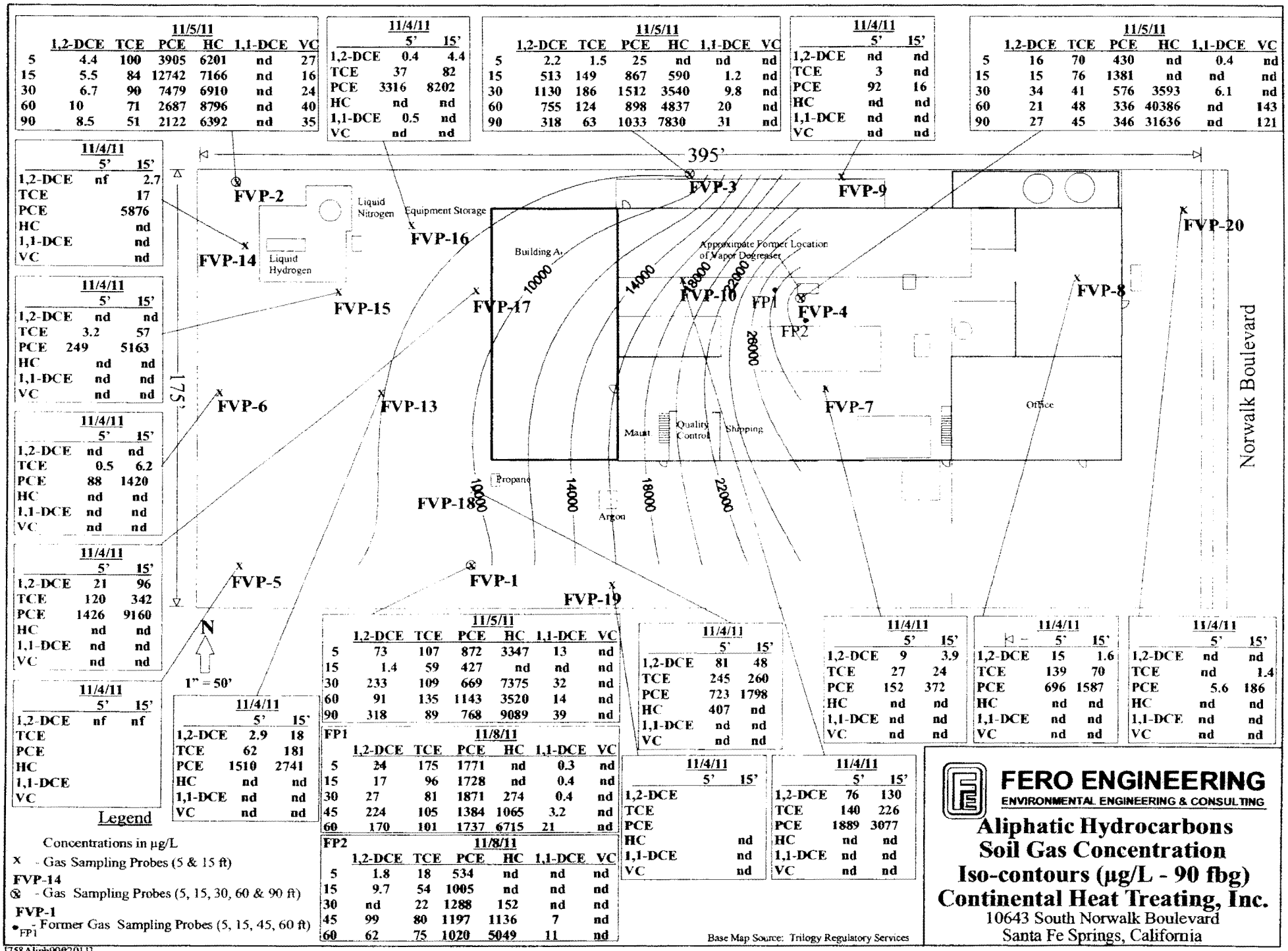
FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

PCE
Soil Gas Concentration
Iso-contours (µg/L - 90 fbg)
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[7S8PCE90ft2011]

Figure 20



	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	4.4	100	3905	6201	nd	27
15	5.5	84	12742	7166	nd	16
30	6.7	90	7479	6910	nd	24
60	10	71	2687	8796	nd	40
90	8.5	51	2122	6392	nd	35

11/4/11		
	5'	15'
1,2-DCE	0.4	4.4
TCE	37	82
PCE	3316	8202
HC	nd	nd
1,1-DCE	0.5	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	2.2	1.5	25	nd	nd	nd
15	513	149	867	590	1.2	nd
30	1130	186	1512	3540	9.8	nd
60	755	124	898	4837	20	nd
90	318	63	1033	7830	31	nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	3	nd
PCE	92	16
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	16	70	430	nd	0.4	nd
15	15	76	1381	nd	nd	nd
30	34	41	576	3593	6.1	nd
60	21	48	336	40386	nd	143
90	27	45	346	31636	nd	121

11/4/11		
	5'	15'
1,2-DCE	nf	2.7
TCE		17
PCE		5876
HC		nd
1,1-DCE		nd
VC		nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	3.2	57
PCE	249	5163
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	0.5	6.2
PCE	88	1420
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	21	96
TCE	120	342
PCE	1426	9160
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	nf	nf
TCE		
PCE		
HC		
1,1-DCE		
VC		

11/4/11		
	5'	15'
1,2-DCE	2.9	18
TCE	62	181
PCE	1510	2741
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

	11/5/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	73	107	872	3347	13	nd
15	1.4	59	427	nd	nd	nd
30	233	109	669	7375	32	nd
60	91	135	1143	3520	14	nd
90	318	89	768	9089	39	nd

FP1	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	24	175	1771	nd	0.3	nd
15	17	96	1728	nd	0.4	nd
30	27	81	1871	274	0.4	nd
45	224	105	1384	1065	3.2	nd
60	170	101	1737	6715	21	nd

FP2	11/8/11					
	1,2-DCE	TCE	PCE	HC	1,1-DCE	VC
5	1.8	18	534	nd	nd	nd
15	9.7	54	1005	nd	nd	nd
30	nd	22	1288	152	nd	nd
45	99	80	1197	1136	7	nd
60	62	75	1020	5049	11	nd

11/4/11		
	5'	15'
1,2-DCE	81	48
TCE	245	260
PCE	723	1798
HC	407	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE		
TCE		
PCE		
HC		nd
1,1-DCE		nd
VC		nd

11/4/11		
	5'	15'
1,2-DCE	76	130
TCE	140	226
PCE	1889	3077
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	9	3.9
TCE	27	24
PCE	152	372
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	15	1.6
TCE	139	70
PCE	696	1587
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

11/4/11		
	5'	15'
1,2-DCE	nd	nd
TCE	nd	1.4
PCE	5.6	186
HC	nd	nd
1,1-DCE	nd	nd
VC	nd	nd

Legend

Concentrations in µg/L

x - Gas Sampling Probes (5 & 15 ft)

FVP-14

⊗ - Gas Sampling Probes (5, 15, 30, 60 & 90 ft)

FVP-1

•FP1 - Former Gas Sampling Probes (5, 15, 45, 60 ft)

Base Map Source: Trilogy Regulatory Services

FERO ENGINEERING

ENVIRONMENTAL ENGINEERING & CONSULTING

Aliphatic Hydrocarbons Soil Gas Concentration Iso-contours (µg/L - 90 fbg)

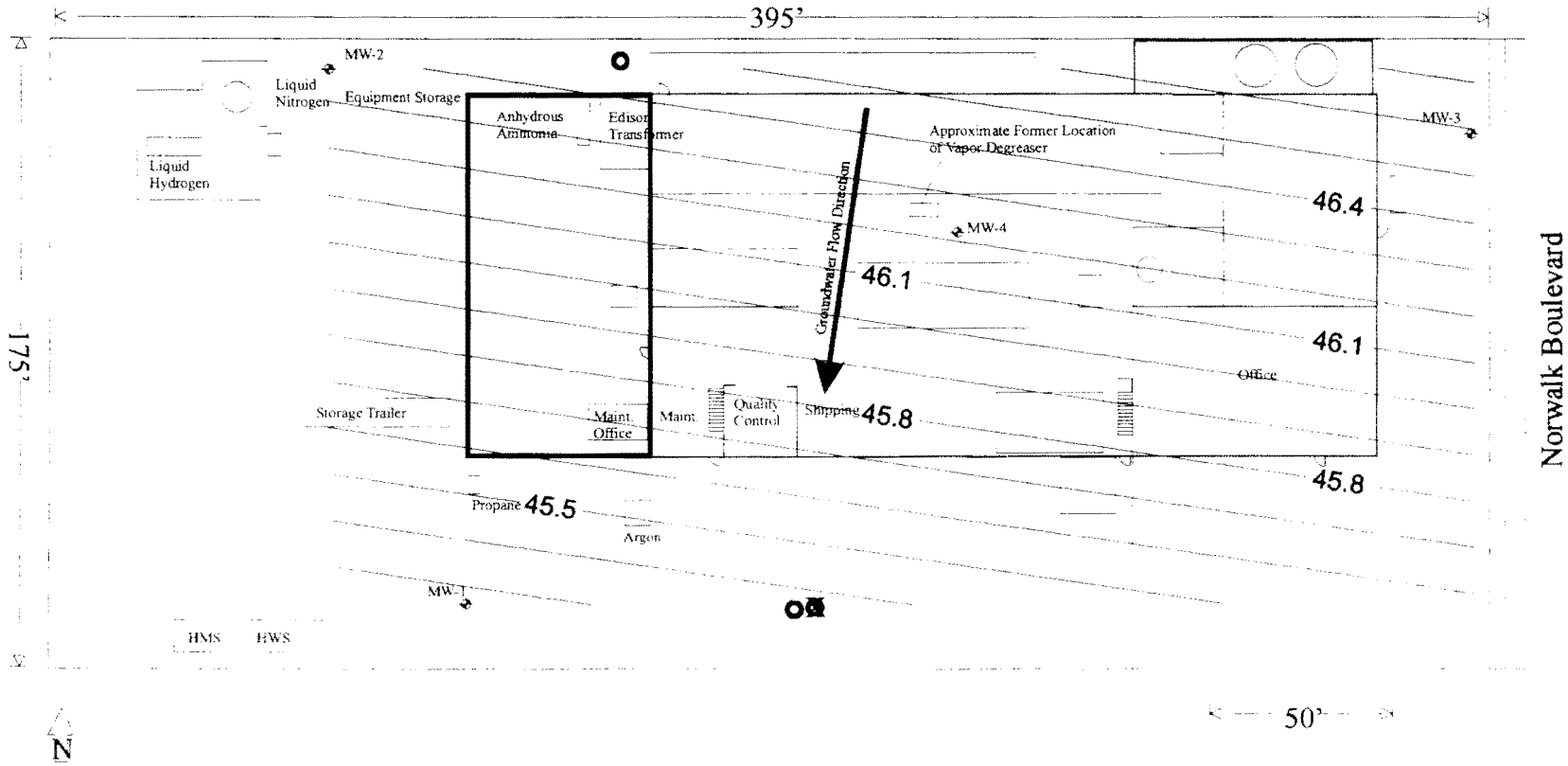
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard

Santa Fe Springs, California

[758Aliph90ft2011]

Figure 21



Legend

- Groundwater Monitoring Well
- Proposed Water Table Well
- Proposed Nested Well

Base Map Source: Trilogy Regulatory Services

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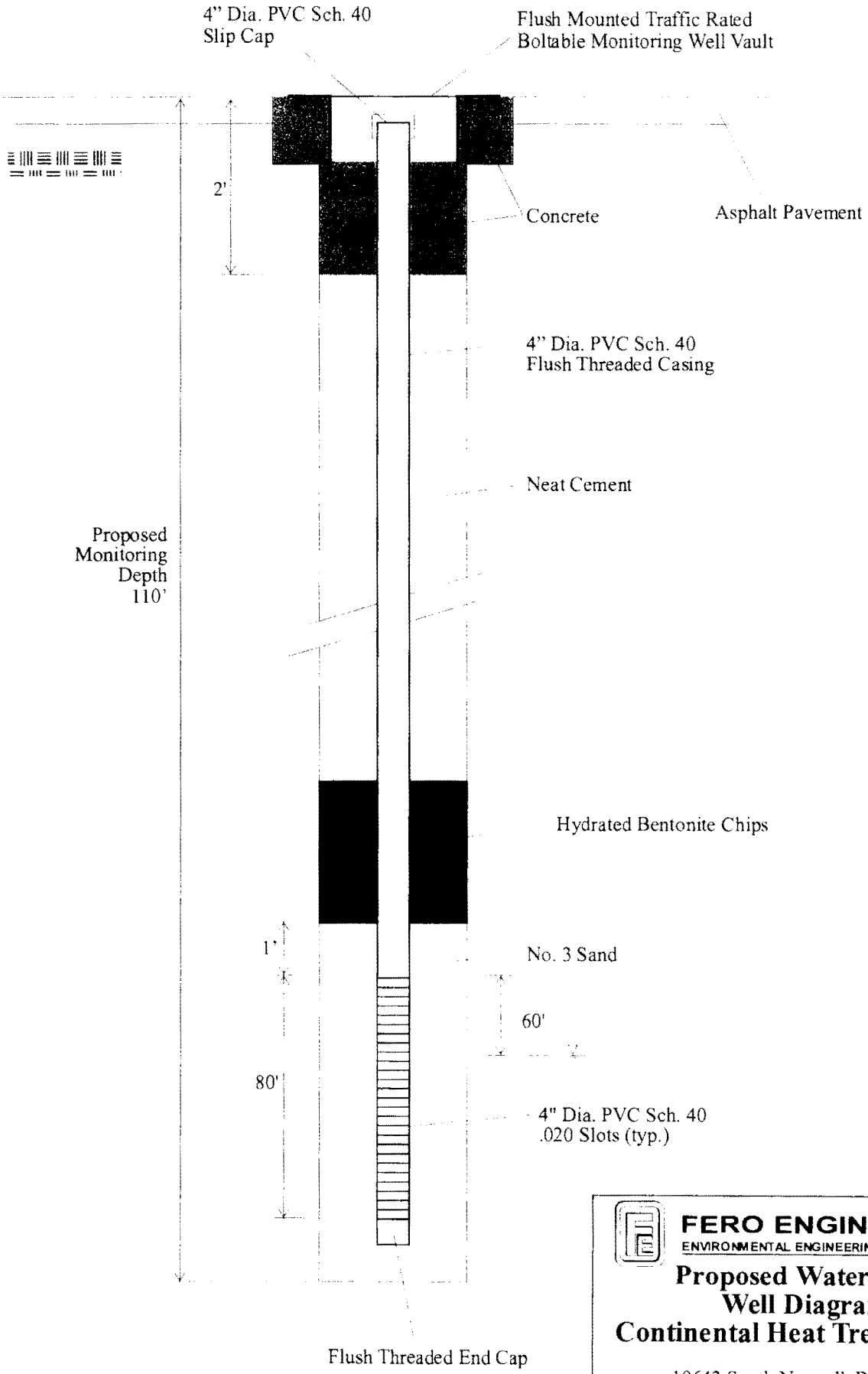
Proposed Groundwater Well Locations
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[758propgwelloc1111]

Figure 22



N.T.S.

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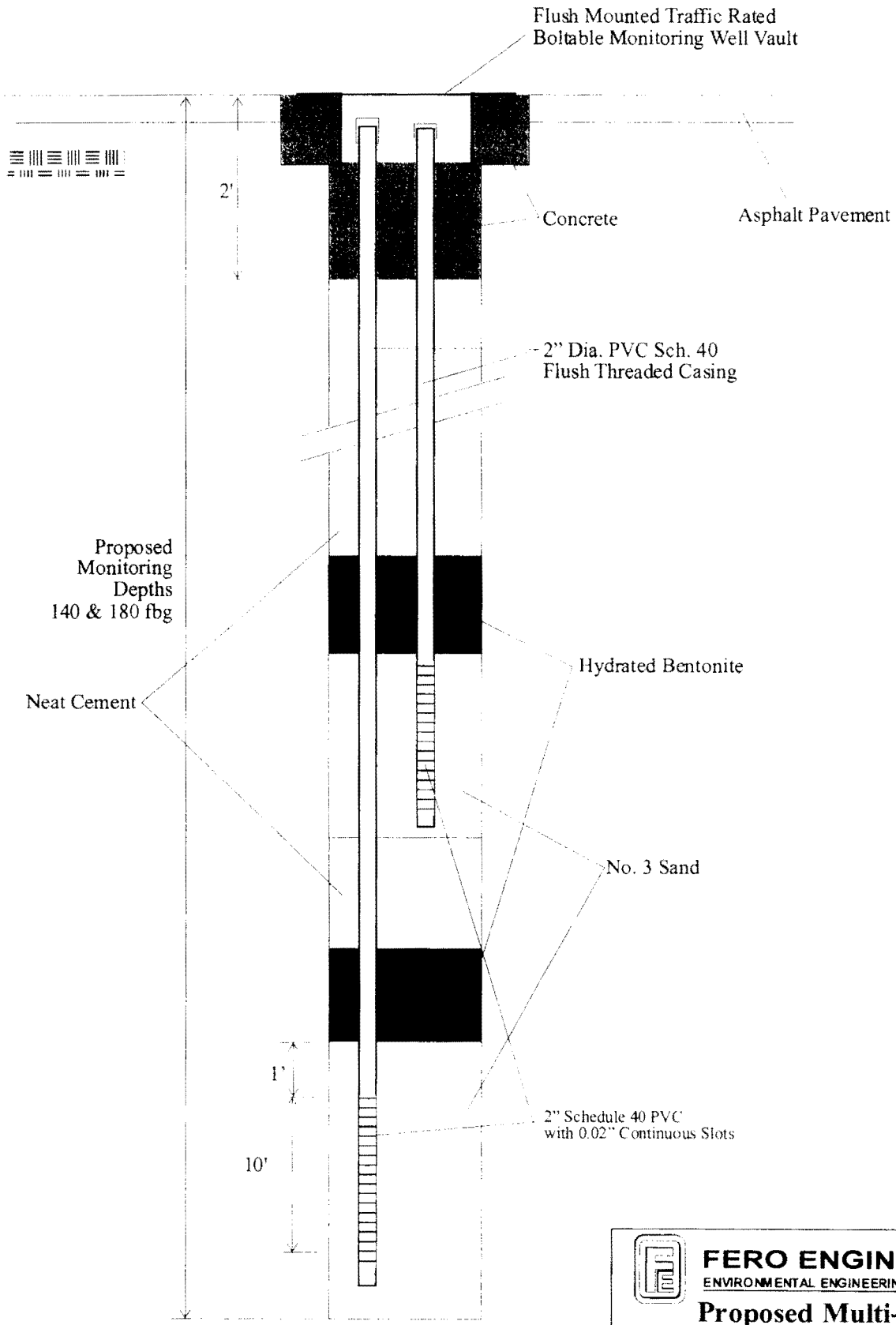
Proposed Water Table Well Diagram
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

[758wtwelldiag]

Figure 23



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Proposed Multi-depth Piezometer Diagram
Continental Heat Treating, Inc.

10643 South Norwalk Boulevard
Santa Fe Springs, California

N.T.S.

[758multidepiez]

Figure 24

ATTACHMENT A

Borelogs

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BORING LOG

PROJECT: Continental Heat Treating **JOB NO.** 10-758

SITE: 10643 So. Norwalk Boulevard **BORING** FVP1 **SHEET** 1 of 4

Santa Fe Springs, California **DATE** 10/19/11 **BY** RLF

BORING LOCATION/CONDITIONS: 17' North and 108' East of the SW property corner **SAMPLE METHOD** Drive/ Undisturbed

OBSERVERS/SAMPLERS: JBP **DRILLERS:** BC2.

EQUIPMENT: PID for H&S monitoring **EQUIPMENT:** CME 75

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	Concrete
5'		X	12/15	SM	0	Dark Brown silty fine sand, medium dense, slightly moist, no odor
10'		X	19/21	SM	0	Brown silty fine sand, dense, slightly moist, no odor
15'		X	19/22	SM	0	Light Brown silty fine sand, dense, slightly moist, no odor
20'		X	25/26	SP	0	Gray tan fine sand, dense, sl. moist, no odor
25'		X	12/20	SM	0	Gray tan silty fine sand, dense, sl. moist, no odor

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP1 **SHEET** 2 of 4
DATE 10/19/11 **BY** RLF
BORING LOCATION/CONDITIONS: 17' North and 108' East of the SW property corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
30'		X	21/27	ML	0	Light brown sandy silt, dense, sl. moist, no odor
35'		X	29/31	SP	0	Gray fine sand, dense, sl. moist, no odor
40'		X	23/29	SP	0	Gray fine to medium sand, dense, sl. moist, no odor
45'		X	24/30	SP	0	Gray fine to medium sand, dense, sl. moist, no odor
50'		X	16/18	SP	0	Tan fine to medium sand, dense, sl. moist, no odor

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP1 **SHEET** 3 of 4
DATE 10/19/11 **BY** RLF
BORING LOCATION/CONDITIONS: 17' North and 108' East of the SW property corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
55'		X	19/23	SP	0	Gray fine to medium sand, dense, sl. moist, no odor
60'		X	28/38	SP	0	Tan medium to coarse sand, dense, sl. moist, no odor
65'		X	25/34	SC	0	Tan clayey fine to coarse sand sand, dense, sl. moist, no odor
70'		X	20/29	SP	0	Gray fine to medium sand, dense, moist, no odor
75'		X	34/38	ML	0	Gray tan clayey silt, medium dense, sl. moist, no odor

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP1 **SHEET** 4 of 4
DATE 10/19/11 **BY** RLF
BORING LOCATION/CONDITIONS: 17' North and 108' East of the SW property corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE BULK	SAMPLE UNDISTURBED	SAMPLE BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
80'		X	19/21	SP	0	Gray medium to coarse sand with some gravel, dense, sl. moist, no odor
85'		X	17/28	SP	0	Gray medium to coarse sand, dense, sl. moist, diesel odor
90'		X	20/25	SP	0	Gray medium to coarse sand, dense, sl. moist, diesel odor
95'						
100'						

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP2 **SHEET** 1 of 4
DATE 10/26/11 **BY** JBP
BORING LOCATION/CONDITIONS: 6' South and 16' East of the NW property corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2.
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	Concrete
5'		X	21/26	ML	0	Dark Brown sandy silt, medium dense, slightly moist, no odor
10'		X	15/18	SM	0	Medium Brown fine sandy silt, dense, slightly moist, no odor
15'		X	18/20	ML	0	Light Brown silt, stiff, slightly moist, no odor
20'		X	31/37	SM	0	Light brown silty very fine sand, dense, sl. moist, no odor
25'		X	20/28	28	0	Rusty brown silt, dense, sl. moist, no odor

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP2 **SHEET** 2 of 4
DATE 10/26/11 **BY** JBP
BORING LOCATION/CONDITIONS: 6' South and 16' East of the NW property corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5' Grn.., 15' Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
30'		X	19/22	ML	0	Rusty brown silt, dense, sl. moist, no odor
35'		X	22/33	SM	0	Tan silty fine sand, dense, sl. moist, no odor
40'		X	10/24	ML	0	Reddish brown clayey silt,stiff, sl. moist, no odor
45'		X	24/30	SM	0	Rusty light brown silty fine sand, dense, sl. moist, no odor
50'		X	41/36	SP	0	Rusty tan very fine tofine sand, very dense, sl. moist, no odor

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP2 **SHEET** 3 of 4
DATE 10/26/11 **BY** JBP
BORING LOCATION/CONDITIONS: 6' South and 16' East of the NW property corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE BULK	SAMPLE UNDISTURBED	SAMPLE BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
55'		X	41/36	SP	0	Rusty tan fine to coarse sand, dense, sl. moist, no odor
60'		X	33/46	SP	0	Tan fine to medium, dense, sl. moist, no odor
65'		X	30/48	SP	0	Tan fine to medium, dense, sl. moist, no odor
70'		X	20/29	SP	0	Tan fine to medium with some coarse sand, dense, moist, no odor
75'		X	50	SP	0	Tan fine to medium with some coarse sand, dense, moist, no odor

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP2 **SHEET** 4 of 4
DATE 10/26/11 **BY** JBP
BORING LOCATION/CONDITIONS: 6' South and 16' East of the NW property corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
80'		X	19/21	SP	0	Gray medium to caorse sand with some gravel, dense, sl. moist, no odor
85'		X	17/28	SP	0	Gray medium to caorse sand, dense, sl. moist, diesel odor
90'		X	20/25	SP	0	Gray medium to caorse sand, dense, sl. moist, diesel odor
95'						
100'						

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BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP3 **SHEET** 1 of 4
DATE 10/20/11 **BY** RLF
BORING LOCATION/CONDITIONS: 2' South of the Northern property line and 78' East of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2.
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	Concrete
5'		X	9/13	SM	0	Dark Brown silty fine sand, medium dense, slightly moist, no odor
10'		X	11/16	SM	0	Brown silty fine sand, dense, slightly moist, no odor
15'		X	15/20	SM	0	Brown silty fine sand, dense, slightly moist, no odor
20'		X	13/19	ML	0	Gray sandy silt, stiff, sl. moist, no odor
25'		X	16/20	ML	0	Gray sandy silt, stiff, sl. moist, no odor

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BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP3 **SHEET** 2 of 4
DATE 10/20/11 **BY** RLF
BORING LOCATION/CONDITIONS: 2' South of the Northern property line and 78' East of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
30'		X	11/14	ML	0	Gray/ brown fine sandy silt, dense, sl. moist, no odor
35'		X	13/18	SP	0	Light brown fine sand, dense, sl. moist, no odor
40'		X	19/20	SP	0	Gray fines and, dense, moist, no odor
45'		X	1421	SP	0	Gray fine sand, dense, sl. moist, no odor
50'		X	16/15	SP	0	Gray fine sand, dense, sl. moist, no odor

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ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP3 **SHEET** 3 of 4
DATE 10/20/11 **BY** RLF
BORING LOCATION/CONDITIONS: 2' South of the Northern property line and 78' East of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
55'		X	19/23	SP/ ML	0	6" Gray fine sand, dense, sl. moist, no odor 6"Reddish brown clayey silt,stiiff, dry no odor
60'		X	14/19	SP	0	Gray fine to medium sand, dense, sl. moist, no odor
65'		X	25/34	SP	0	Gray fine to coarse sand sand with some gravel, dense, sl. moist, sl. hydrocarbon odor
70'		X	13/19	ML	0	Light brown silt, stiff, dry, no odor
75'		X	14/21	ML SP	0	6" Light brown silt, stiff, dry, no odor 6" Gray fine to coarse sand, medium dense, sl. moist, no odor

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BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP3 **SHEET** 4 of 4
DATE 10/20/11 **BY** RLF
BORING LOCATION/CONDITIONS: 2' South of the Northern property line and 78' East of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
80'		X	14/21	SP	0	Gray fine sand, dense, sl. moist, strong hydrocarbon odor
85'		X	23/50	SP	0	Gray fine to medium sand, dense, sl. moist, strong hydrocarbon ordor
90'		X	25/50	SP	0	Gray medium to medium sand, dense, sl. moist, strong hydrocarbon ordor
95'						
100'						

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BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP4 **SHEET** 1 of 4
DATE 10/21/11 **BY** RLF
BORING LOCATION/CONDITIONS: 122' east and 38' south of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2.
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	Concrete
5'		X	13/19	SM	0	Reddish brown fine sandy silt, medium dense, slightly moist, no odor
10'		X	13/20	SM	0	Reddish brown fine sandy silt, medium dense, slightly moist, no odor
15'		X	12/18	SP	0	Tan fine sand, dense, slightly moist, no odor
20'		X	24/50	ML	0	Gray sandy silt, stiff, sl. moist, no odor
25'		X	15/22	ML	0	Brown sandy silt, stiff, sl. moist, no odor

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BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP4 **SHEET** 2 of 4
DATE 10/21/11 **BY** RLF
BORING LOCATION/CONDITIONS: 122' east and 38' south of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
30'		X	15/19	ML	0	Brown sandy silt, stiff, sl. moist, no odor
35'		X	19/28	SM	0	Light brown silty fine sand, dense, sl. moist, no odor
40'		X	14/23	SC	0	Reddish tan silty, clayey fine sand, dense, moist, no odor
45'		X	19/23	SM	0	Light brown silty fine sand, dense, sl. moist, no odor
50'		X	22/55	ML	0	Tan gray fine sandy silt, dense, sl. moist, no odor

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP4 **SHEET** 3 of 4
DATE 10/21/11 **BY** RLF
BORING LOCATION/CONDITIONS: 122' east and 38' south of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
55'		X	18/26	SM	0	Gray silty very fine sand, dense, sl. moist, no odor
60'		X	12/18	ML	0	Brown fine sandy silt, dense, sl. moist, no odor
65'		X	16/24	SP	0	Tan fine to medium sand, dense, sl. moist, no odor
70'		X	14/19	SP	0	Gray fine to medium sand, dense, sl. moist, sl. hydrocarbon odor
75'		X	23/50	SP	0	Gray fine to medium sand, dense, sl. moist, sl. hydrocarbon odor

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING FVP4 **SHEET** 4 of 4
DATE 10/21/11 **BY** RLF
BORING LOCATION/CONDITIONS: 122' east and 38' south of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Probe Schedule: 5'=Grn.., 15'=Clr., 30'=Yel., 60'=Brwn., 90'=Rd.
Vault: 10" traffic rated, water tight, bolt

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
80'		X	29/50	SP	0	Gray fine to medium sand, dense, sl. moist, sl. hydrocarbon odor
85'		X	23/50	SP	0	Gray fine to coarse sand, dense, moist, strong hydrocarbon ordor
90'		X	28/50	SP	0	Gray fine to coarse sand, dense, sl. moist, strong hydrocarbon ordor
95'						
100'						

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

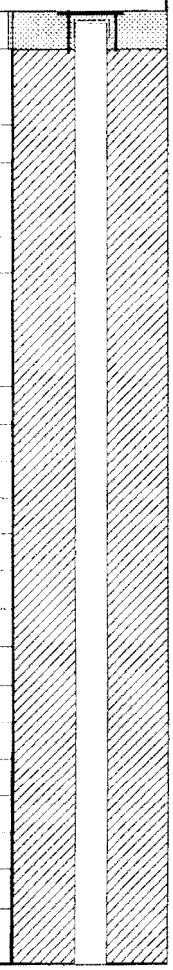
BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING MW4 **SHEET** 1 of 5
DATE 10/24/11 **BY** J. Petersen
BORING LOCATION/CONDITIONS: 38' South and 134' East of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2.
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	Concrete Note; 0-90' based on adj. FVP4
5'				ML		Reddish brown fine sandy silt, medium dense, slightly moist, no odor
10'				ML		Reddish brown fine sandy silt, medium dense, slightly moist, no odor
15'				SP		Tan fine sand, dense, slightly moist, no odor
20'				ML		Gray sandy silt, stiff, sl. moist, no odor
25'				ML		Brown sandy silt, stiff, sl. moist, no odor



FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING MW4 **SHEET** 2 of 5
DATE 10/24/11 **BY** J. Petersen
BORING LOCATION/CONDITIONS: 38' South and 134' East of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
30'				ML		Brown sandy silt, stiff, sl. moist, no odor
35'				SP		Light brown silty fine sand, dense, sl. moist, no odor
40'				SC		Reddish tan silty, clayey fine sand, dense, moist, no odor
45'				SM		Light brown silty fine sand, dense, sl. moist, no odor
50'				ML		Tan gray fine sandy silt, dense, sl. moist, no odor

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING MW4 **SHEET** 3 of 5
DATE 10/24/11 **BY** J. Petersen
BORING LOCATION/CONDITIONS: 38' South and 134' East of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
55'				SP		Gray silty very fine sand, dense, sl. moist, no odor
60'				ML		Brown fine sandy silt, dense, sl. moist, no odor
65'				SP		Tan fine to medium sand, dense, sl. moist, no odor
70'				SP		Gray fine to medium sand, dense, sl. moist, sl. hydrocarbon odor
75'				SP		Gray fine to medium sand, dense, sl. moist, sl. hydrocarbon odor

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING MW4 **SHEET** 4 of 5
DATE 10/24/11 **BY** J. Petersen
BORING LOCATION/CONDITIONS: 38' South and 134' East of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
80'				SP		Gray fine to medium sand, dense, sl. moist, sl. hydrocarbon odor
85'				SP		Gray fine to coarse sand, dense, moist, strong hydrocarbon ordor
90'				SP		Gray fine to medium sand, dense, sl. moist, petroleum odor
95'		X		SP		Gray fine to medium sand, dense, saturated, no odor
100'		X		SP		Gray fine to medium sand, medium dense, saturated, no odor

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

BORING LOG

PROJECT: Continental Heat Treating
JOB NO. 10-758
SITE: 10643 So. Norwalk Boulevard
Santa Fe Springs, California
BORING MW4 **SHEET** 5 of 5
DATE 10/24/11 **BY** J. Petersen
BORING LOCATION/CONDITIONS: 38' South and 134' East of the NW building corner
SAMPLE METHOD Drive/ Undisturbed
OBSERVERS/SAMPLERS: JBP
DRILLERS: BC2
EQUIPMENT: PID for H&S monitoring
EQUIPMENT: CME 75 with Split Spoon Sampler

Casing: 4" PVC flush thread w/ .02" slots
Vault: 12" traffic rated, water tight, bolt

- Concrete
- Grout (neat cement)
- No. 3 Sand

DEPTH (FT.)	SAMPLE: BULK	SAMPLE: UNDISTURBED	SAMPLE: BLOWS/ FT	USCS CLASSIFICATION	MONITORING BACKGROUND/ SAMPLE	DESCRIPTION
					ppm	
105'		X		SP		Gray fine to medium sand, medium dense, saturated, no odor
110'		X		SP		Gray fine to medium sand with some gravel, medium dense, saturated, no odor
115'		X		SP/ CL		Gray silty fine to medium sand, medium dense, saturated, no odor Brown silty clay, stiff, saturated, no odor
120'		X		SP/ CL		Gray silty fine to medium sand, medium dense, saturated, no odor Brown silty clay, stiff, saturated, no odor

ATTACHMENT B

Well Installation Permit

WELL PERMIT APPLICATION - NON PRODUCTION WELLS

WATER QUALITY PROGRAM - ENVIRONMENTAL HEALTH DIVISION
5050 COMMERCE DRIVE, BALDWIN PARK, CA 91706 TELE (626) 430-5420 FAX (626) 813-3016

DATE 10-5-11

☐ NEW WELL CONSTRUCTION ☐ RECONSTRUCTION OR RENOVATION ☐ DECOMMISSIONING ☐ OTHER:
☒ MONITORING ☐ CATHODIC ☐ INJECTION ☐ EXTRACTION ☐ HEAT EXCHANGE
☐ HYDROPUNCH ☐ C.P.T. (For Ground Water Sampling) ☐ OTHER:

WELL LOCATION

Site Address: 10643 Norwalk Blvd. City: Santa Fe Springs Zip Code: 90670
Nearest Intersection: Florence Ave Thomas Guide Map Book Page/Grid: P.706 H-5 Number of Wells in Each Parcel: 1

WELL STRUCTURE

Total Depth of Well: 120' Depth of Well Casing: 120' Sanitary / Annular Sealing Material: Neat Cement
Depth of Sanitary / Annular Seal: 40-43' Conductor Casing Seal: 1'-40'

OWNER INFORMATION

Owner's Name: Continental Heat Treating Telephone Number: 562 944 8808
Address: 10643 So. Norwalk Blvd. City: Santa Fe Springs Zip Code: 90670

DRILLER INFORMATION

Driller's Name: BC2 Telephone Number: 714 744 2990 C-57 License Number: 686 255
Address: 1150 W. Trenton Ave. City: Orange Zip Code: 92867

WELL DECOMMISSIONING INFORMATION

Well Depth ☐ log/records | Method of Well Assessment | Depth and Number of Perforations
Type and Amount of Sealant | Type of Perforator | Size of Perforations | Method of Upper Seal Pressure Application

CONSULTANT INFORMATION

Company: Fero Environmental Engineering
Address: 431 W. Lambert Rd. #305 City: Brea State: CA Zip Code: 92821
Project Manager: John Petersen Telephone Number: 714 256 2737 Fax Number: 714 256 1505

ATTENTION: WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS DEPARTMENT.

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances of the County of Los Angeles and the State of California pertaining to well construction, reconstruction, and decommissioning data deemed necessary by the Environmental Health Division Of Los Angeles County.

Signature of Applicant: [signature] Printed Name: John Pe

THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE [illegible] BY THE DEPUTY HEALTH OFFICER. WELL CONSTRUCTION OR DECOMMISSIONING CANNOT [illegible] WITHOUT A WORK PLAN APPROVAL FROM THIS DEPARTMENT.

**********(DEPARTMENT USE ONLY)**********

R.E.H.S. NO: 6330

WORK PLAN APPROVAL

REHS: Juan Rodriguez DATE: 10/12/11

Conditions: Permit #890622 issued to install a groundwater monitoring well, observed work plan details submitted. Notify this office at 626-430-5386 or jurodriguez@ph.lacounty.gov. 48 hrs. prior to start drilling.

FINAL INSPECTION

REHS: DATE:

NOTICE

This well permit approval is limited to compliance with the California Well Standards and the Los Angeles County Code and does not grant any rights to construct, reconstruct, or decommission any well. The applicant is responsible for securing all other necessary permits.

ATTACHMENT C

Health and Safety Plan

FERO ENGINEERING PROJECT SITE SAFETY PLAN

1.0 GENERAL INFORMATION

Original Site Safety Plan: Yes (X) No ( ) Rev. No. ____

Project Number: 10-0758 **Project Manager:** John Petersen

Project Name: Continental Heat Treating, Inc.

Site Name: Continental Heat Treating, Inc.

Site Address: 10643 South Norwalk Boulevard

Work Description: Groundwater Monitoring

Plan Prepared By: John Petersen **Date**: 10/18/11

Work Start Date: 10/19/11 **Work Hours:** 8 a.m. to 5 p.m.

Thomas Guide Coordinates: Page 706 / H5

Client Site Contact: John Petersen

Client Office Contact: Jim Stull

Client Site Safety Officer: N/A

Fero Engineering Site Safety Officer: John Petersen

Source/Age of Information: Client/Current

Incident/Site Description: Soil and Groundwater Volatile Organic Compound Impacts

Physical Description of Facility: Metal Heat Treating Facility

Describe Special Site Entry Procedures: None

Operation Description of Facility: Metal Heat Treating Facility

Site Status: Active (X) Inactive ( )

Need to Evacuate Nearby People: Yes ( ) No ( ) N/A (X)

Evacuation Distance: N/A

Initiated By: N/A

Officials Present and Capacity: RWQCB

Warning Method/Signal for Site Evacuation: Verbal

Presence of Hazardous Materials: Potential ( ) Confirmed (X)

Location of Hazardous Materials: Identified (X) Assumed ( ) Unknown ( )

Number of Feet to Nearest Right of Way: 30 ft.

Distance, Location, & Number of Nearest Phone: On-site mobile. (714) 624-7280

Nearest Public Road: 30 ft.

Nearest Water: 30 ft.

Nearest Fire Extinguisher: Drill Rig or Fero Truck

2.0 HAZARDOUS INFORMATION

Health Hazard:

Material	Body Entry Route	Symptoms
Tetrachloroethylene	Inhalation/Contact	Malaise; dizziness; headache; increased perspiration; fatigue; in coordination; impaired mental acuity
Trichloroethylene	Inhalation/Contact	Dizziness; incoordination; drowsiness
1,1-Dichloroethylene (DCE)	Inhalation/Contact	Eye irritation; respiratory system
1,2-Dichloroethane (DCA)	Inhalation/Contact	Eye irritation; respiratory system

First Aid: Move victim to fresh air and call emergency medical care; if not breathing, give artificial respiration, if breathing is difficult, give oxygen. In case of contact with contaminated material, flush with running water for at least 15 minutes. Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site. First aid kit is located in Fero Engineering vehicle.

Material Exposure Information:

Material	PEL	IDLH
Tetrachloroethylene	100 ppm	150 ppm
Trichloroethylene	100 ppm	1000 ppm
1,1-Dichloroethylene	200 ppm	1000 ppm
1,2-Dichloroethane	100 ppm	3000 ppm

PEL - Permissible exposure limit over an 8-hour time weighted average to which any employee may be exposed

IDLH - Immediately dangerous to life or health level representing a maximum concentration from which one could escape within 30 minutes without any escape impairing symptoms or any irreversible health effects.

Potential Acute Toxicity: All compounds cause central nervous system depression, kidney changes including: decreased urine flow, swelling especially around eyes, and anemia, and liver changes including: fatigue, malaise, dark urine, liver enlargement, and jaundice. Trichloroethylene and Tetrachloroethylene are suspected carcinogens.

Hazard Type: Liquid (X) Solid ( ) Vapor/Gas (X) Sludge ( )

Anticipated Hazard Level: High ( ) Moderate ( ) Low (X) Unknown ( )

Site Monitoring Equipment: PID and Olfactory senses (odor threshold for PCE is 27 ppm)

Heat Stress Conditions: Yes ( ) No ( ) Possible (X)

Dust Monitoring: Yes ( ) No (X)

Air Monitoring Protocol: Monitor breathing zone of persons nearest the source of contamination.

Conditions for Suspension of Work: Determination of an ambient air concentration greater than 100 ppm using PID.

Potential Site Physical Hazards: On site equipment operation.

3.0 PERSONAL PROTECTION

Level of Protection Planned: D - Hardhat, (dry) coverall or Tyvek/(wet) Saranex, (dry) safety glasses/(wet) goggles, (dry/wet) Nitrile gloves, (dry) steel toe boots/(wet) Neoprene steel toe boots.

Conditions to Upgrade to Level C: Exceedance of the lowest PEL (100 ppm) and work is to continue. Level C contingency equipment includes: organic vapor respirators with half face masks.

Instruction for Disposal of Contaminated Materials: Groundwater removed and contaminated clothing, which is to be discarded, shall be contained onsite in DOT approved 55-gallon drums until a determination is made as to the level of contamination. In the event that contaminated materials require offsite disposal or treatment, a certified waste hauler under proper manifesting and vehicle placarding shall transport them.

4.0 EMERGENCY PLANNING

Police Department: 911 **Fire Department:** 911

Local Airport: N/A **Air Evacuation:** N/A

Local Hospital:
Downey Regional Medical Center
11500 Brookshire Ave.
Downey, California 90241
562-904-5000
Thomas Guide Page: 706 B/6

Fero Engineering Office Contact: Rick L. Fero

HEALTH AND SAFETY PLAN SIGNATURE FORM

Site Name: See Address

Job Number: 10-0758

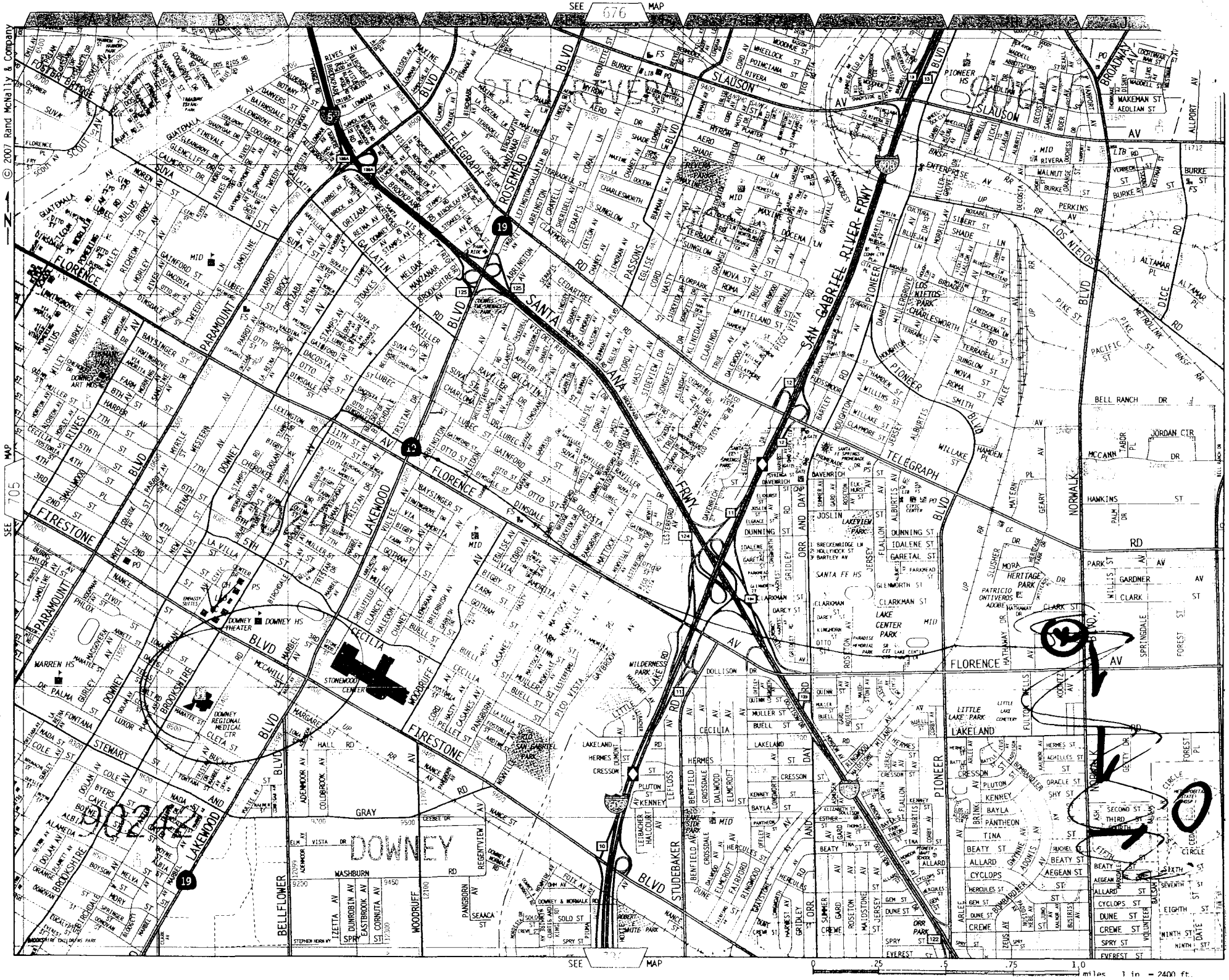
Region: Los Angeles County

Location: 10643 South Norwalk Blvd., Santa Fe Springs

Field personnel are required to receive a copy of the final health and safety plan (HSP) for the above referenced work site. The project manager is responsible for distribution of this document to all involved personnel and to discuss areas of concern identified in the document prior to initiating operations at the site. All personnel directly involved with field operations at the referenced site must sign this form indicating their access to, review of, and agreement to compliance with measures outlined in the HSP. All individuals signing this form must be capable, through training, of successfully performing operations specified within the HSP. The original of this form is made a permanent part of the project file.

I have reviewed, understand, and agree to comply with the provisions of the health and safety plan for the above referenced site during conduct of activities on this project.

	SIGNATURE	PRINTED NAME	DATE
1.	[signature]	Cameron Herber	10/19/11
2.	[signature]	Ty McConnelee	10/19/11
3.	[signature]	Geoff Sakuka	10/19/2011
4.	Sergio Perez	Sergio Perez	10/20/2011
5.	SALVADOR TORRES	SALVADOR TORRES	10/20/11
6.	[signature]	Geoff Sakuka	10-20-2011
7.	[signature]	Rick L. Perro	
8.	Sergio Perez	Sergio Perez	10-21-2011
9.	[signature]	SALVADOR TORRES	10-21-2011
10.	[signature]	Jackson Larragoitiy	10.21.2011
11.	[signature]	Mike Lueschig	10-26-11
12.	[signature]	SALVADOR TORRES	10.26.11
13.	[signature]	Robert Vogler	10-26-11


SEE 676 MAP
SEE 705 MAP
SEE 704 MAP
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DOWNEY
SANTA ANA FRWY
SAN GABRIEL RIVER FRWY
FLORENCE AV
FIRESTONE BLVD
LAKEWOOD BLVD
PARAMOUNT BLVD
TELEGRAPH BLVD
SLAUSON AV
PIONEER BLVD
NORWALK BLVD
STUDEBAKER RD
BELLFLOWER BLVD
WASHBURN RD
GRAY RD
LAKELAND RD
DOWNEY HS
DOWNEY THEATER
DOWNEY REGIONAL MEDICAL CTR
STONEWOOD CENTER
WILDERNESS PARK
LAKE CENTER PARK
LAKEVIEW PARK
HERITAGE PARK
LITTLE LAKE PARK
SANTA FE HS
PIONEER HS
0 .25 .5 .75 1.0 miles 1 in = 2400 ft.

ATTACHMENT D

Soil Gas Sampling Laboratory Report
Hydro-Geo Spectrum

November 11 , 2011

John Petersen Rick Fero
431 West Lambert Road Unit 305
Brea, CA 92621

Dear John,

Enclosed please find the report on the vapor sampling and analysis performed at Continental Heating in Santa Fe Springs, Ca on November 4-8, 2011.

The report consists of one bound and one unbound copy with the following sections:

- Technical approach with results and discussion.
- Spreadsheet of results
- Data quantitation sheets in LARWQCB format.
- QA/QC in LARWQCB format.
- Chromatograms (unbound copy only).

If you have any questions or additional requirements, please do not hesitate to call. It was a pleasure working with you, and I look forward to future projects.

Sincerely,

Raphe Pavlick
Director

Post Office Box 91740, Los Angeles, CA 90009
Phone (310)823-6661 FAX (310)822-6668(or 6661) Email: HydroGeoSpectrum@aol.com

SOIL VAPOR TECHNICAL APPROACH

Soil samples were taken into polyacetate liners using Geoprobe patented continuous coring techniques utilizing the *MeisterProbe* hydraulic installation system (a modified version of *Geoprobe*). Vapor probes were installed into the open hole or into a new hole if soil is not sampled. Polyraphylene tubing (1/4 inch) equipped with an *anchor* is inserted through the tubing into the open annulus. A small amount of coarse sand is allowed to flow so as to form a permeable sand pack at depth. At this point the hole is then grouted to the next shallow depth, the process repeated for nested probes, then grouted to the surface. The polyraphylene tubing is connected to the sampling train, and soil vapor sampling is initiated. The tubing exiting the surface of the ground is connected to a glass sampling bulb fitted with Teflon stopcocks and a viton rubber sampling port. This bulb is connected in turn to a vacuum gauge, flowmeter, and portable sampling pump. Initially both stopcocks are closed, and the absence of flow and the presence of a slight vacuum is noted. This demonstrates that the sampling train on the far end of the bulb is leak-tight. Then the first stopcock (pump end) is opened; the absence of flow demonstrates that the sampling bulb itself is leak-tight. The ground end of the bulb is then opened, and a flow of 150-200 ml/min is maintained for seven to ten purge volumes. During the sampling a leak-check compound such as isobutane is placed near and around the sample train. Any trace of this compound detected in the sample indicates the intrusion of ambient air into the sampling train, invalidating the results of that sample. No such leaks were detected with any of the samples. The stopcocks were then closed (pump end first), and the sample retained in the container. Approximately 25 NG each of deutero-chloroform, deutero-methylene chloride, deutero-acetone, deutero-toluene and deutero-benzene were added through the septum into the bulb. The recovery of these isotopically-labeled surrogate compounds demonstrates that the bulbs have remained leak-free up until the actual analysis. A recovery of 90% for the deuterated-benzene, deutero-methylene chloride, deuterated toluene and the deuterated chloroform is desirable; a recovery of less than 75% requires reinjection, resampling or may *qualify* the sample results. The deuterated acetone is added as a measure of water vapor in the sampling and analysis systems; a recovery of greater than 70% is acceptable, although levels of the water-soluble compounds (ketones) may be affected. In the event that water-soluble related compounds are detected, the deuterated acetone may be used as an internal standard for quantitation. These bulbs were then delivered to the mobile laboratory for analysis by GCMS. All recoveries during this project were within acceptable range.

Several locations were drilled with a hollow-stem auger rig; the methodology is equivalent to the preceding.

The analyses of the soil vapor samples proceeded as follows. A 1 ml aliquot of soil vapor was withdrawn from each bulb and injected into a Hewlett-Packard model 5890 or 6890 gas chromatograph interfaced to a Hewlett-Packard model 5972 or 5973 mass spectrometer. Chromatography was performed in such a way that the combination of retention times and mass fragmentation allowed for the complete separation of all the target compounds. The mass spec was operated in *full scan* mode between 35 and 350 amu. This allows for the identification of any volatile organic species that may be present in the soil vapor.

The following laboratory QA/QC was performed. Initial five-point calibrations were run on March 4 and August 23, 2011. A laboratory control standard (LCS) from *Absolute Standards* 8240 mix was run at the end of the same day. The daily standard, run on the sampling days, was made from *Ultra* lot CG1988. The initial calibration was also run on this standard stock. The surrogate calibration curve was run on Aldrich certified material. All results were within the LAWQCB and HGS requirements.

Three notable additions to the LAWQCB requirements were deemed necessary:

- Five isotopically-labeled surrogates, D2-Methylene Chloride, D6-Benzene, D6-Acetone, D8-Toluene and D-Chloroform, were added to the collection vessel, a 125-ml glass bulb fitted with Teflon stopcocks and a viton rubber septum, to measure recovery percentages. The benzene, toluene, methylene chloride and chloroform surrogates are used to verify the recovery of the BTEX and chlorinated hydrocarbons respectively; a recovery of at least 90% is desired; less than 75% would necessitate reanalysis or resampling, or would *qualify* those data... The deuterated acetone provides a measure of the possible presence of water vapor in the sample and general condition of the chromatographic system in terms of hydration; a recovery of 70% of the acetone surrogate indicates acceptability of the complete sampling and analysis procedure; below this level, water vapor presence in the sampling line should be investigated or chromatographic dehydration procedures should be considered. If ketones, alcohols, or other water soluble compounds are being targeted, the acetone surrogate may serve as an internal standard for their quantitation.

- Pentane, isobutane, isopropanol or other vapor was used to surround the sampling train at the surface to identify possible ambient intrusion into the sampling train or down the outside surface of the sampling tubing connected to the subsurface. In the event a leak-check compound is detected in the sample, a different leak-detecting compound will be used for a repeat sample to eliminate the possibility that the first compound is actually present in the soil vapor itself.

- A minimum of 1 day is allowed to allow the soil vapor in the subsurface to equilibrate to pre-drilling 'natural' composition. The auger installs were allowed to sit for a week.

RESULTS AND DISCUSSION

Elevated concentrations were found of a number of chlorinated hydrocarbons as well as petroleum hydrocarbons. No other volatile organic compounds (VOC's) nor tentatively identified compounds (TIC's) were detected in any of the samples.

Target compounds include those listed on the initial calibration form.

Because of differences in rounding philosophies between the Water Board forms (Quattro-Pro) and the spreadsheet (Excel), there may occasionally be a difference in the decimal point of a value. This is not considered significant and should not be a cause of concern.

All QA/QC requirements of *HydroGeoSpectrum* and LARWQCB have been met.

HydroGeoSpectrum does not accept any responsibility for other interpretation or utilization of these results.

LOCATION-depth(ft)	Date Sampled	1,2-DCE µg/L	TCE µg/L	PCE µg/L	HC µg/L	1,1-DCE µg/L	VC µg/L	Chloroform µg/L	VOA µg/L
FP1-5	08-Nov-11	24	175	1771	N	0.3	N	1.7	N
FP1-15	08-Nov-11	17	96	1728	N	0.4	N	1.5	N
FP1-30	08-Nov-11	27	81	1871	274	0.4	N	1	N
FP1-45	08-Nov-11	224	105	1384	1065	3.2	N	0.4	N
FP1-60	08-Nov-11	170	101	1737	6715	21	N	N	N
FVP1-5	05-Nov-11	73	107	872	3347	13	N	N	N
FVP1-15	05-Nov-11	1.4	59	427	N	N	N	N	N
FVP1-30	05-Nov-11	233	109	669	7375	32	N	N	N
FVP1-60	05-Nov-11	318	89	768	9089	39	N	N	N
FVP1-90	05-Nov-11	91	135	1143	3520	14	N	N	N
FP2-5	08-Nov-11	1.8	18	534	N	N	N	1.1	N
FP2-15	08-Nov-11	9.7	54	1005	N	N	N	1.5	N
FP2-30	08-Nov-11	N	22	1288	152	N	N	N	N
FP2-45	08-Nov-11	99	80	1197	1138	7	N	N	N
FP2-60	08-Nov-11	62	75	1020	5049	11	N	N	N
FVP2-5	05-Nov-11	4.4	100	3905	6201	N	27	N	N
FVP2-15	05-Nov-11	5.5	84	12742	7166	N	16	N	N
FVP2-30	05-Nov-11	6.7	90	7479	6910	N	24	N	N
FVP2-60	05-Nov-11	10	71	2687	8796	N	40	N	N
FVP2-90	05-Nov-11	8.5	51	2122	6392	N	35	N	N
FVP3-5	05-Nov-11	2.2	1.5	25	N	N	N	N	N
FVP3-15	05-Nov-11	513	149	867	590	1.2	N	N	N
FVP3-30	05-Nov-11	1130	186	1512	3540	9.8	N	N	N
FVP3-60	05-Nov-11	755	124	898	4837	20	N	N	N
FVP3-90	05-Nov-11	318	63	1033	7830	31	N	N	N
FVP4-5	05-Nov-11	16	70	430	N	0.4	N	1.4	N
FVP4-15	05-Nov-11	15	76	1381	N	N	N	1.7	N
FVP4-30	05-Nov-11	34	41	576	3593	6.1	N	0.6	N
FVP4-60	05-Nov-11	21	48	336	40386	N	143	N	N
FVP4-90	05-Nov-11	27	45	346	31636	N	121	N	N
FVP5-5 NF	04-Nov-11								N
FVP5-15 NF	04-Nov-11								N
FVP6-5 LF	04-Nov-11	N	0.5	88	N	N	N	N	N
FVP6-15	04-Nov-11	N	6.2	1420	N	N	N	N	N
FVP7-5	04-Nov-11	9	27	152	N	N	N	N	N
FVP7-15	04-Nov-11	3.9	24	372	N	N	N	N	N
FVP8-5	04-Nov-11	15	139	696	N	N	N	N	N
FVP8-15	04-Nov-11	1.6	70	1587	N	N	N	N	N
FVP9-5	04-Nov-11	N	3	92	N	N	N	N	N
FVP9-15	04-Nov-11	N	N	16	N	N	N	N	N
FVP10-5	04-Nov-11	76	140	1889	N	N	N	N	N
FVP10-15	04-Nov-11	103	226	3077	N	N	N	N	N
FVP13-5	04-Nov-11	2.9	62	1510	N	N	N	N	N
FVP13-15	04-Nov-11	18	181	2741	N	N	N	N	N
FVP14-5 NF	04-Nov-11								
FVP14-15	04-Nov-11	2.7	17	5876	N	N	N	N	N
FVP15-5	04-Nov-11	N	3.2	249	N	N	N	N	N
FVP15-15	04-Nov-11	N	57	5163	N	N	N	N	N
FVP16-5	04-Nov-11	0.4	37	3316	N	0.5	N	N	N
FVP16-15	04-Nov-11	4.4	82	8202	N	N	N	N	N
FVP17-5	04-Nov-11	21	120	1426	N	N	N	N	N
FVP17-15	04-Nov-11	96	342	9160	N	N	N	N	N
FVP18-5	04-Nov-11	81	245	723	N	N	N	N	N
FVP18-15	04-Nov-11	48	260	1798	407	N	N	N	N
FVP19-5	09-Nov-11	N	0.1	15	N	N	N	N	N
FVP19-15 leak	*09-Nov-11*	*N*	*0.7*	*16*	*N*	*N*	*N*	*N*	*N*
FVP20-5	04-Nov-11	N	N	5.6	N	N	N	N	N
FVP20-15	04-Nov-11	N	1.4	186	N	N	N	N	N

TCE = Trichloroethylene
PCE = Tetrachloroethylene
DCE = Dichloroethylene

VOC = Volatile Organic Compounds (other)

N = < 0.5 µg/L
NF = no flow
LF = low flow

DATA

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 4 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FSB7	FSB7	FVP10	FVP10
	VOF2245-10014	VOF2246-10015	VOF2247-10016	VOF2248-10017
Sampling Depth (ft)	5	15	5	15
Purge Volume (ml)	1650	2250	1650	2250
Vacuum	NO	NO	NO	NO
Sampling Time	0718	0721	0741	0744
Injection Time	1024	1037	1052	1116
Injection Volume	1ml	1ml	1ml	1ml
Dilution Factor	1	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Trichloroethene	MS	6.01	232586	27.06	6.00	208092	24.21	5.99	1206672	140.39	5.98	1942392	225.99
Tetrachloroethene	MS	8.30	969927	152.35	8.30	2368837	372.09	8.30	2026605	1889.08	8.29	7413674	2735.26
Deutero-chloroform	MS	3.91	166987	114%	3.90	169768	116%	3.91	172579	118%	3.89	171713	117%
D6-BENZENE	MS	6.16	339084	111%	6.15	292426	96%	6.14	308040	101%	6.13	292522	96%
D6-ACETONE	MS	2.04	186338	96%	2.03	203447	105%	2.04	183489	95%	2.01	190580	98%
D2-Dichloromethane	MS	1.93	155175	104%	1.90	142690	96%	1.93	134723	91%	1.90	140084	94%
D8-TOLUENE	MS	8.73	297062	123%	8.74	236894	98%	8.74	268784	111%	8.75	239598	99%

Total Number of Peaks by GCMS:	2 + Surrogates	2 + Surrogates	2 + Surrogates	2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 4 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP10	FVP18	FVP18	FVP15
	VOF2248D-10017	VOF2249-10018	VOF2250-10019	VOF2257-10026
Sampling Depth (ft)	15 DF5	5	15	5
Purge Volume (ml)	2250	1650	2250	1650
Vacuum	NO	NO	NO	NO
Sampling Time	0744	0810	0813	1007
Injection Time	123	1148	1215	1436
Injection Volume	0.2ml	1ml	1ml	1ml
Dilution Factor	5	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Trichloroethene	MS	5.99	379866	220.98	6.00	2109739	245.46	5.98	2237940	260.38	6.01	27246	3.17
Tetrachloroethene	MS	8.29	3918446	3077.46	8.29	4604736	723.29	8.29	1448709	1798.31	8.32	1586527	249.20
Deutero-chloroform	MS	3.89	35413	121%	3.92	172726	118%	3.85	172620	118%	3.89	170295	116%
D6-BENZENE	MS	6.15	64194	105%	6.15	310277	101%	6.13	320658	105%	6.17	254699	83%
D6-ACETONE	MS	2.00	39052	101%	2.05	198981	103%	1.94	192580	99%	2.00	179918	93%
D2-Dichloromethane	MS	1.89	30796	103%	1.93	141748	95%	1.83	152842	103%	1.89	130486	88%
D8-TOLUENE	MS	8.76	49977	104%	8.75	266740	111%	8.74	263690	109%	8.77	198425	82%

Total Number of Peaks by GCMS:	2 + Surrogates	2 + Surrogates	2 + Surrogates	2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 4 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP20	FVP20	FVP9	FVP9
	VOF2251-10020	VOF2252-10021	VOF2253-10022	VOF2254-10023
Sampling Depth (ft)	5	15	5	15
Purge Volume (ml)	1650	2250	1650	2250
Vacuum	NO	NO	NO	NO
Sampling Time	0912 A	0915	0850 A	0853
Injection Time	1236	1249	1305	1320
Injection Volume	1ml	1ml	1ml	1ml
Dilution Factor	1	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Trichloroethene	MS				5.99	12044	1.40	6.02	25580	2.98			
Tetrachloroethene	MS	8.30	35789	5.62	8.30	1186909	186.43	8.34	584881	91.87	8.34	102523	16.10
Deutero-chloroform	MS	3.90	165224	113%	3.88	178642	122%	3.92	178312	122%	3.77	173674	119%
D6-BENZENE	MS	6.15	312251	102%	6.14	307375	100%	6.17	293758	96%	6.16	283623	93%
D6-ACETONE	MS	2.02	204123	105%	1.99	190732	98%	2.04	194430	100%	1.75	197183	102%
D2-Dichloromethane	MS	1.90	135449	91%	1.87	135897	91%	1.92	142371	96%	1.63	134551	90%
D8-TOLUENE	MS	8.74	261072	108%	8.74	277359	115%	8.78	253482	105%	8.81	262900	109%

Total Number of Peaks by GCMS:	1 + Surrogates	2 + Surrogates	2 + Surrogates	1 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 4 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP16	FVP16	FVP16	FVP16
	VOF2255-10024	VOF2255D-10024	VOF2256-10025	VOF2256D-10025
Sampling Depth (ft)	5	5 DF5	15	15 DF10
Purge Volume (ml)	1650	1650	2250	2250
Vacuum	NO	NO	NO	NO
Sampling Time	1001 X	1001 X	1004 A	1004 A
Injection Time	1334	1349	1406	1422
Injection Volume	1ml	0.2ml	1ml	0.1ml
Dilution Factor	1	5	1	10

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	2.80	2627	0.48									
Trichloroethene	MS	6.05	319677	37.19	6.04	59859	34.82	6.01	708068	82.38	5.97	73552	85.57
Tetrachloroethene	MS	8.36	1019597	3301.66	8.36	4222604	3316.33	8.32	4212481	5373.94	8.29	5221465	8201.63
Deutero-chloroform	MS	3.93	167546	114%	3.93	33267	114%	3.92	154166	105%	3.87	18014	123%
D6-BENZENE	MS	6.20	301466	98%	6.18	68115	111%	6.17	279130	91%	6.16	29723	97%
D6-ACETONE	MS	2.03	178467	92%	2.03	44361	114%	2.05	178141	92%	1.96	20284	105%
D2-Dichloromethane	MS	1.93	140582	94%	1.90	32191	108%	1.95	143189	96%	1.82	15996	107%
D8-TOLUENE	MS	8.81	260534	108%	8.80	59240	123%	8.77	218685	91%	8.73	28936	120%

Total Number of Peaks by GCMS: 3 + Surrogates 2 + Surrogates 2 + Surrogates 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 5 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP1	FVP1	FVP1	FVP1
	VOF2263-10029	VOF2264-10030	VOF2265-10031	VOF2266-10032
Sampling Depth (ft)	5	15	30	60
Purge Volume (ml)	NA	1650	2250	3000
Vacuum	NO	NO	NO	NO
Sampling Time	0951 A	0955	1000	1010
Injection Time	1222	1245	1302	1326
Injection Volume	1ml	1ml	1ml	1ml
Dilution Factor	1	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	2.90	69037	12.57				2.92	175110	31.88	2.89	76549	13.94
Trichloroethene	MS	6.00	919609	106.99	5.98	509226	59.25	5.98	940726	109.45	5.99	1162933	135.30
Tetrachloroethene	MS	8.29	5553094	872.25	8.29	2718085	426.94	8.29	4261193	669.33	8.29	7275011	1142.72
Deutero-chloroform	MS	3.90	174260	119%	3.84	174796	119%	3.91	179817	123%	3.90	162059	111%
D6-BENZENE	MS	6.15	337179	110%	6.13	281975	92%	6.19	284124	93%	6.15	329341	108%
D6-ACETONE	MS	2.03	181609	94%	1.89	197871	102%	2.05	178986	92%	2.02	191322	99%
D2-Dichloromethane	MS	1.92	132271	89%	1.76	144239	97%	1.92	129953	87%	1.91	121086	81%
D8-TOLUENE	MS	8.75	283340	118%	8.73	273819	114%	8.73	292718	121%	8.74	239718	99%

Total Number of Peaks by GCMS: 3 + Surrogates 2 + Surrogates 3 + Surrogates 3 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 5 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP1	FVP1	FVP3	FVP3
	VOF2266-10032	VOF2267-10033	VOF2268-10034	VOF2269-10035
Sampling Depth (ft)	60	45	5	15
Purge Volume (ml)	4500	4050	1650	2250
Vacuum	NO	NO	NO	NO
Sampling Time	1010	01005	1041 A	1045 A
Injection Time	1326	1347	1405	1420
Injection Volume	1ml	1ml	1ml	1ml
Dilution Factor	1	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	2.89	76549	13.94	2.92	215626	39.26				2.81	6806	1.24
Trichloroethene	MS	5.99	1162933	135.30	6.04	764123	88.90	6.03	13232	1.54	5.98	1282951	149.27
Tetrachloroethene	MS	8.29	7275011	1142.72	8.36	4889893	768.08	8.35	158730	24.93	8.32	5520833	867.19
Deutero-chloroform	MS	3.90	162059	111%	3.93	146176	100%	3.92	175385	120%	3.85	161274	110%
D6-BENZENE	MS	6.15	329341	108%	6.24	319146	104%	6.19	255996	84%	6.15	309637	101%
D6-ACETONE	MS	2.02	191322	99%	2.05	200503	103%	2.02	158315	82%	1.91	182470	94%
D2-Dichloromethane	MS	1.91	121086	81%	1.94	130999	88%	1.91	117003	79%	1.79	133664	90%
D8-TOLUENE	MS	8.74	239718	99%	8.81	279547	116%	8.79	288858	120%	8.77	271991	113%

Total Number of Peaks by GCMS: 3 + Surrogates 3 + Surrogates 2 + Surrogates 3 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 5 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP3	FVP3	FVP3
	VOF2270-10036	VOF2271-10037	VOF2272-10038
Sampling Depth (ft)	30	60	90
Purge Volume (ml)	3000	4500	5700
Vacuum	NO	NO	NO
Sampling Time	1050 A	1100	1110
Injection Time	1442	1501	1521
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	2.89	53885	9.81	2.89	108639	19.78	2.95	168176	30.62			
Trichloroethene	MS	6.01	1594789	185.55	6.00	1061480	123.50	6.04	545711	63.49			
Tetrachloroethene	MS	8.32	9622962	1511.53	8.32	5719759	898.43	8.35	6575094	1032.78			
Deutero-chloroform	MS	3.89	161537	110%	3.90	173302	118%	3.94	167624	114%			
D6-BENZENE	MS	6.16	283611	93%	6.18	337965	110%	6.25	354551	116%			
D6-ACETONE	MS	1.98	188262	97%	2.01	170208	88%	2.08	151566	78%			
D2-Dichloromethane	MS	1.88	137771	93%	1.90	122218	82%	1.97	120804	81%			
D8-TOLUENE	MS	8.76	270745	112%	8.77	298149	124%	8.79	263473	109%			

Total Number of Peaks by GCMS: 3 + Surrogates 3 + Surrogates 3 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 5 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP4	FVP4	FVP4	BLANK
	VOF2273-10039	VOF2274-10040	VOF2275-10041	VOF2262
Sampling Depth (ft)	5	15	30	NA
Purge Volume (ml)	1650	2250	3000	NA
Vacuum	NO	NO	NO	NO
Sampling Time	1111	1115 A	1120	05NOV1
Injection Time	1545	1600	1616	0823
Injection Volume	1ml	1ml	1ml	1ml
Dilution Factor	1	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	2.94	1951	0.36				2.93	33727	6.14			
Chloroform	MS	3.95	20377	1.35	3.95	25754	1.70	3.91	9431	0.62			
Trichloroethene	MS	6.03	597450	69.51	6.02	654140	76.11	6.00	355636	41.38			
Tetrachloroethene	MS	8.34	2738335	430.12	8.33	8793467	1381.24	8.30	3664660	575.63			
2-Hexanone	MS										8.20	1130	0.14
Freon-22	MS										0.56	828	0.18
Deutero-chloroform	MS	3.94	168092	115%	3.92	171511	117%	3.91	142328	97%	3.91	171440	117%
D6-BENZENE	MS	6.18	248511	81%	6.16	298907	98%	6.16	334709	109%	6.17	294367	96%
D6-ACETONE	MS	2.07	165460	85%	2.03	198722	102%	2.04	190218	98%	2.04	174561	90%
D2-Dichloromethane	MS	1.96	118803	80%	1.93	128810	87%	1.92	137781	93%	1.92	130097	87%
D8-TOLUENE	MS	8.79	236932	98%	8.77	279843	116%	8.75	271861	113%	8.77	269155	112%

Total Number of Peaks by GCMS: 4 + Surrogates 3 + Surrogates 4 + Surrogates 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 8 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FP1	FP1	FP1	FP1
	VOF2279-10042	VOF2280-10043	VOF2281-10044	VOF2282-10045
Sampling Depth (ft)	5	15	30	45
Purge Volume (ml)	1650	2250	3000	3750
Vacuum	NO	NO	NO	NO
Sampling Time	1226 A	1230	1235	1240 A
Injection Time	1415	1430	1447	1507
Injection Volume	1ml	1ml	1ml	1ml
Dilution Factor	1	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	2.98	1742	0.32	2.80	1914	0.35	2.85	2107	0.38	2.97	17604	3.20
Chloroform	MS	3.96	25537	1.69	3.91	23078	1.52	3.92	15279	1.01	3.96	6703	0.44
Trichloroethene	MS	6.02	1507975	175.45	5.98	827157	96.24	5.98	697784	81.18	6.05	904142	105.19
Tetrachloroethene	MS	8.33	1273271	1770.75	8.29	0999328	1727.72	8.29	1911612	1871.02	8.36	8808325	1383.57
Deutero-chloroform	MS	3.95	167789	115%	3.88	149601	102%	3.89	161748	110%	3.97	163437	112%
D6-BENZENE	MS	6.17	233103	76%	6.13	230134	75%	6.13	257165	84%	6.21	286265	94%
D6-ACETONE	MS	2.10	173444	89%	2.00	168979	87%	2.04	183084	94%	2.10	185911	96%
D2-Dichloromethane	MS	1.98	119375	80%	1.89	120598	81%	1.93	128749	87%	2.01	138174	93%
D8-TOLUENE	MS	8.78	274678	114%	8.73	230182	95%	8.73	270964	112%	8.80	257987	107%

Total Number of Peaks by GCMS:	4 + Surrogates	4 + Surrogates	4 + Surrogates	4 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 8 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FP1	FP2	FP2
	VOF2283-10046	VOF2284-10047	VOF2285-10048
Sampling Depth (ft)	60	60	45
Purge Volume (ml)	4500	4500	3750
Vacuum	NO	NO	NO
Sampling Time	1245	1256 A	1251
Injection Time	1527	1546	1605
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,1-Dichloroethene	MS	2.91	116850	21.27	2.91	62389	11.36	2.92	38437	7.00			
Trichloroethene	MS	6.03	868745	101.08	6.04	642780	74.79	6.02	685627	79.77			
Tetrachloroethene	MS	8.36	1060822	1737.38	8.36	6493277	1019.93	8.33	7623283	1197.43			
Deutero-chloroform	MS	3.92	145627	99%	3.92	152355	104%	3.93	163503	112%			
D6-BENZENE	MS	6.25	295565	97%	6.26	236695	77%	6.17	309904	101%			
D6-ACETONE	MS	2.04	165448	85%	2.04	173863	90%	2.04	155618	80%			
D2-Dichloromethane	MS	1.93	122313	82%	1.93	118514	80%	1.94	136571	92%			
D8-TOLUENE	MS	8.80	274961	114%	8.80	276321	115%	8.79	221924	92%			

Total Number of Peaks by GCMS: 3 + Surrogates 3 + Surrogates 3 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 9 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP19	FVP19
	VOF2299-10059	VOF2300-10060
Sampling Depth (ft)	5	15
Purge Volume (ml)	1650	2250
Vacuum	NO	slight leak
Sampling Time	1536 A	1540 A
Injection Time	1628	1645
Injection Volume	1ml	1ml
Dilution Factor	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Trichloroethene	MS	6.00	864	0.10	5.99	5707	0.66						
Tetrachloroethene	MS	8.30	95764	15.04	8.29	102055	16.03						
Deutero-chloroform	MS	3.91	162394	111%	3.91	167754	115%						
D6-BENZENE	MS	6.14	244855	80%	6.13	261749	86%						
D6-ACETONE	MS	2.03	215355	111%	2.05	230014	119%						
D2-Dichloromethane	MS	1.93	160116	108%	1.93	168427	113%						
D8-TOLUENE	MS	8.73	218066	90%	8.73	252733	105%						

Total Number of Peaks by GCMS: 2 + Surrogates 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 4 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP8	FVP8	FVP17	FVP17
	WOB8208-11903	WOB8209-11904	WOB8210-11905	WOB8211-11906
Sampling Depth (ft)	5	15	5	15
Purge Volume (ml)	1650	2250	1650	2250
Vacuum	NO	NO	NO	NO
Sampling Time	0726	0729 A	0757 A	0800
Injection Time	0933	0950	1008	1024
Injection Volume	1ml	1ml	1ml	1ml
Dilution Factor	1	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,2-Dichloroethene (cis)	MS	7.74	33387	14.9	7.76	3558	1.6	7.77	47139	21.0	7.71	215029	96.1
Trichloroethene	MS	8.64	386575	139.2	8.65	195710	70.5	8.66	332261	119.6	8.63	948370	341.6
Tetrachloroethene	MS	9.79	1338180	695.8	9.80	3050989	1586.5	9.81	2741601	1425.6	9.79	7885809	4100.6
Deutero-chloroform	MS	7.88	67236	112%	7.90	69919	116%	7.90	67329	112%	7.86	69083	115%
D6-BENZENE	MS	8.27	203965	120%	8.28	176665	104%	8.29	171129	101%	8.26	165612	98%
D6-ACETONE	MS	6.84	90626	118%	6.87	79862	104%	6.88	73520	96%	6.82	91487	119%
D2-Dichloromethane	MS	6.83	82012	97%	6.86	64473	76%	6.89	65193	77%	6.45	93333	110%
D8-TOLUENE	MS	9.39	170218	123%	9.40	166065	120%	9.41	155970	113%	9.39	151066	109%

Total Number of Peaks by GCMS: 3 + Surrogates 3 + Surrogates 3 + Surrogates 3 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 4 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP17	FVP17	FVP13	FVP6
	WOB8211-11906	WOB8211D-11906	WOB8212-11907	WOB8214-11909
Sampling Depth (ft)	15	15 DF10	5	5 LF
Purge Volume (ml)	2250	2250	1650	1650
Vacuum	NO	NO	NO	low flow
Sampling Time	0800	0800	0823 A	0846 H
Injection Time	1024	1132	1041	1217
Injection Volume	1ml	0.1ml	1ml	1ml
Dilution Factor	1	10	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,2-Dichloroethene (cis)	MS	7.71	215029	96.1	7.78	23442	104.7	7.75	6516	2.9			
Trichloroethene	MS	8.63	948370	341.6	8.66	132744	478.2	8.65	171084	61.6	8.64	1468	0.5
Tetrachloroethene	MS	9.79	7885809	4100.6	9.80	1761692	9160.8	9.80	2904775	1510.5	9.79	169780	88.2
Deutero-chloroform	MS	7.86	69083	115%	7.91	7401	123%	7.89	63197	105%	7.89	62594	104%
D6-BENZENE	MS	8.26	165612	98%	8.29	20828	123%	8.28	159677	94%	8.27	152983	90%
D6-ACETONE	MS	6.82	91487	119%	6.91	9455	123%	6.85	72812	95%	6.83	63652	83%
D2-Dichloromethane	MS	6.45	93333	110%	6.95	7740	91%	6.83	66684	79%	6.83	71022	84%
D8-TOLUENE	MS	9.39	151066	109%	9.40	15001	108%	9.40	144302	104%	9.39	136846	99%

Total Number of Peaks by GCMS: 3 + Surrogates 3 + Surrogates 3 + Surrogates 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 4 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP13	FVP13	FVP6
	WOB8213-11908	WOB8213D-11908	WOB8215-11910
Sampling Depth (ft)	15	15 DF5	15
Purge Volume (ml)	2250	2250	2250
Vacuum	NO	NO	NO
Sampling Time	0826 A	0826 A	0850
Injection Time	1148	121	1232
Injection Volume	1ml	0.2ml	1ml
Dilution Factor	1	5	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,2-Dichloroethene (cis)	MS	7.74	39972	17.8	7.72	8316	18.5						
Trichloroethene	MS	8.64	502447	181.0	8.64	100549	181.1	8.64	17324	6.2			
Tetrachloroethene	MS	9.79	4536121	2358.8	9.79	1054208	2740.9	9.79	2731423	1420.3			
Deutero-chloroform	MS	7.88	65918	109%	7.86	13619	113%	7.87	57541	96%			
D6-BENZENE	MS	8.27	165609	98%	8.27	31524	93%	8.27	139345	82%			
D6-ACETONE	MS	6.83	81419	106%	6.86	18226	119%	6.83	70459	92%			
D2-Dichloromethane	MS	6.83	67529	80%	5.69	18309	108%	6.53	88647	105%			
D8-TOLUENE	MS	9.39	142465	103%	9.39	26942	97%	9.39	125835	91%			

Total Number of Peaks by GCMS: 3 + Surrogates 3 + Surrogates 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 4 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP4	FVP4	FVP15	FVP15
	WOB8216-11911	WOB8216D-11911	WOB8217-11912	WOB8217D-11912
Sampling Depth (ft)	15	15 DF10	15	15 DF
Purge Volume (ml)	1650	1650	2250	2250
Vacuum	NO	NO	NO	NO
Sampling Time	0855	0855	1010	1010
Injection Time	1246	1259	1318	1335
Injection Volume	1ml	0.1ml	1ml	0.1ml
Dilution Factor	1	10	1	10

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,2-Dichloroethene (cis)	MS	7.75	6103	2.7									
Trichloroethene	MS	8.65	46903	16.9	8.65	4669	16.8	8.66	158154	56.9	8.65	13020	46.9
Tetrachloroethene	MS	9.80	7568242	3935.5	9.80	1129997	5876.0	9.81	7532155	3916.7	9.80	992932	5163.3
Deutero-chloroform	MS	7.88	58917	98%	7.89	7005	116%	7.92	61966	103%	7.90	5769	96%
D6-BENZENE	MS	8.28	146278	86%	8.28	14172	84%	8.30	154584	91%	8.28	17883	105%
D6-ACETONE	MS	6.83	65481	85%	6.89	7264	95%	6.87	63785	83%	6.87	7449	97%
D2-Dichloromethane	MS	6.80	70923	84%	5.84	8454	100%	6.95	66617	79%	6.91	6621	78%
D8-TOLUENE	MS	9.40	123968	90%	9.40	11513	83%	9.41	142020	103%	9.39	10568	76%

Total Number of Peaks by GCMS:	3 + Surrogates	2 + Surrogates	2 + Surrogates	2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 5 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP2	FVP2	FVP2	FVP2
	WOB8222-11914	WOB8222D-11914	WOB8223-11915	WOB8223D-11915
Sampling Depth (ft)	5	5 DF5	15	15 DF5
Purge Volume (ml)	1650	1650	2250	2250
Vacuum	NO	NO	NO	NO
Sampling Time	1011 X	1011 X	1015	1015
Injection Time	1132	1150	125	1243
Injection Volume	1ml	0.2ml	1ml	0.2ml
Dilution Factor	1	5	1	5

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Vinyl Chloride	MS	3.89	27978	26.8				3.77	16312	15.6			
1,2-Dichloroethene (cis)	MS	6.61	19600	4.3	6.60	3303	7.3	6.57	12328	5.5			
Trichloroethene	MS	8.64	276969	99.7	8.63	50870	91.6	8.65	232050	83.5	8.63	51364	92.5
Tetrachloroethene	MS	9.80	6326645	3289.8	9.79	1501801	3904.7	9.81	10908456	5672.4	9.79	4900844	12742.
Deutero-chloroform	MS	7.87	73498	122%	7.86	12223	101%	7.87	67948	113%	7.88	14567	121%
D6-BENZENE	MS	8.27	171090	101%	8.26	34362	101%	8.28	206176	121%	8.27	38289	113%
D6-ACETONE	MS	6.84	91280	119%	6.84	16621	108%	6.85	86388	113%	6.85	15705	103%
D2-Dichloromethane	MS	7.14	82485	97%	6.79	19513	115%	7.15	64357	76%	7.15	17534	103%
D8-TOLUENE	MS	9.40	150339	109%	9.39	29304	106%	9.41	152277	110%	9.38	27885	101%

Total Number of Peaks by GCMS: 4 + Surrogates 3 + Surrogates 4 + Surrogates 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 5 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP2	FVP2	FVP2
	WOB8224-11916	WOB8224A-11916	WOB8224D-11916
Sampling Depth (ft)	30	30	30 DF5
Purge Volume (ml)	3000	3000	3000
Vacuum	NO	NO	NO
Sampling Time	1020	1020	1020
Injection Time	1224	1300	1319
Injection Volume	1ml	1ml	0.2ml
Dilution Factor	1	1	5

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Vinyl Chloride	MS	3.96	25403	24.3	3.84	25573	24.5						
1,2-Dichloroethene (cis)	MS	6.62	14961	6.6	6.61	14392	6.4						
Trichloroethene	MS	8.64	248740	89.6	8.65	242705	87.4	8.64	55831	100.5			
Tetrachloroethene	MS	9.80	8237645	4283.6	9.80	8129684	4227.4	9.80	2876676	7479.4			
Deutero-chloroform	MS	7.88	70834	118%	7.88	69535	115%	7.89	13540	112%			
D6-BENZENE	MS	8.27	191216	113%	8.27	188656	111%	8.28	40186	118%			
D6-ACETONE	MS	6.84	74893	98%	6.84	83860	109%	6.86	17077	111%			
D2-Dichloromethane	MS	7.15	64932	77%	7.15	65790	78%	6.89	16310	96%			
D8-TOLUENE	MS	9.40	148874	108%	9.40	145873	105%	9.39	29818	108%			

Total Number of Peaks by GCMS: 4 + Surrogates 4 + Surrogates 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 5 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP2	FVP2	FVP2	FVP2
	WOB8225-11917	WOB8225D-11917	WOB8226-11918	WOB8226D-11918
Sampling Depth (ft)	60	60 DF5	90	90
Purge Volume (ml)	4500	4500	5700	5700
Vacuum	NO	NO	NO	NO
Sampling Time	1030 A	1030 A	1040	1040
Injection Time	1335	1355	1414	1437
Injection Volume	1ml	0.2ml	1ml	0.2ml
Dilution Factor	1	5	1	5

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Vinyl Chloride	MS	3.69	41279	m 39.5	4.12	8204	39.3	4.07	36260	34.7			
1,2-Dichloroethene (cis)	MS	6.51	22562	m 5.0				6.68	18928	8.4			
Trichloroethene	MS	8.63	196537	70.8	8.65	39001	70.2	8.65	142821	51.4	8.67	27340	49.2
Tetrachloroethene	MS	9.80	4338740	2256.1	9.80	1033501	2687.1	9.80	3671246	1909.0	9.81	815965	2121.5
Deutero-chloroform	MS	7.84	61936	103%	7.90	13121	109%	7.91	60947	101%	7.92	12041	100%
D6-BENZENE	MS	8.26	185532	109%	8.28	38860	114%	8.29	198689	117%	8.30	41591	123%
D6-ACETONE	MS	6.83	85043	111%	6.86	16802	110%	6.87	58277	76%	6.90	14309	93%
D2-Dichloromethane	MS	7.12	89299	105%	6.93	13769	81%	7.17	76918	91%	6.96	18841	111%
D8-TOLUENE	MS	9.39	131002	95%	9.40	28731	104%	9.40	127851	92%	9.41	29697	107%

Total Number of Peaks by GCMS: 4 + Surrogates 3 + Surrogates 4 + Surrogates 3 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 5 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FVP4	FVP4
	WOB8227-11919	WOB8228-11920
Sampling Depth (ft)	90	60
Purge Volume (ml)	5700	4500
Vacuum	NO	NO
Sampling Time	1140	1130
Injection Time	1454	1510
Injection Volume	1ml	1ml
Dilution Factor	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Vinyl Chloride	MS	3.87	125840	120.6	3.78	148757	142.6						
1,2-Dichloroethene (cis)	MS	6.55	59322	26.5	6.50	47873	21.4						
Trichloroethene	MS	8.63	124129	44.7	8.64	133941	48.2						
Tetrachloroethene	MS	9.79	664835	345.7	9.80	646529	336.2						
Deutero-chloroform	MS	7.85	57834	96%	7.85	63984	106%						
D6-BENZENE	MS	8.15	172032	101%	8.16	178712	105%						
D6-ACETONE	MS	6.82	81640	107%	6.83	87518	114%						
D2-Dichloromethane	MS	6.95	99929	118%	6.96	98504	116%						
D8-TOLUENE	MS	9.39	126832	92%	9.40	127010	92%						

Total Number of Peaks by GCMS: 4 + Surrogates 4 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: Continental/FERO LAB NAME: HydroGeoSpectrum (HGS) DATE: 8 NOV 2011

ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201

NORMAL INJECTION VOLUME 1 ml

Sample ID:	FP2	FP2	FP2
	WOB8237-11926	WOB8238-11927	WOB8239-11928
Sampling Depth (ft)	5	15	30
Purge Volume (ml)	1650	2250	3000
Vacuum	NO	NO	NO
Sampling Time	1236 X	1241	1246
Injection Time	1539	1557	1617
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
1,2-Dichloroethene (cis)	MS	7.74	3917	1.7	7.75	21704	9.7						
Chloroform	MS	7.89	4606	1.1	7.89	6214	1.5						
Trichloroethene	MS	8.64	49979	18.0	8.64	148823	53.6	8.66	61137	22.0			
Tetrachloroethene	MS	9.79	1026504	533.7	9.80	1931922	1004.6	9.81	2477083	1288.1			
Deutero-chloroform	MS	7.88	55145	92%	7.88	57363	95%	7.92	51848	86%			
D6-BENZENE	MS	8.27	133355	79%	8.28	134865	79%	8.29	158701	94%			
D6-ACETONE	MS	6.83	63633	83%	6.84	71883	94%	6.87	65255	85%			
D2-Dichloromethane	MS	6.85	65395	77%	6.83	68827	81%	6.94	67213	79%			
D8-TOLUENE	MS	9.39	145517	105%	9.40	148989	108%	9.41	140727	102%			

Total Number of Peaks by GCMS: 4 + Surrogates 4 + Surrogates 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

QA/QC

INITIAL CALIBRATION BY FULL SCAN MASS SPEC

LAB NAME: HydroGeoSpectrum **DATE: 23 August2011**

ANALYST:Raphe Pavlick STD LOT#:ULTRA CG1988 INSTRUMENT ID:2415A8201

Calibration Files
100 =VOF1991.D 500 =VOF1990.D 1500 =VOF1989.D
20 =VOF1992.D 5 =VOF1993.D

		Compound	100	500	1500	20	5	Avg		%RSD	AccRge
1)		Vinyl Chloride	7.708	5.101	6.532	7.041	5.860	6.448	E2	15.71	30
2)		Bromomethane	5.574	2.728	3.133	4.917	4.812	4.233	E2	29.12	30
3)		Chloroethane	2.486	2.314	2.365	3.591	3.019	2.755	E3	19.77	30
4)		1,1-Dichloroethene	6.908	4.408	5.389	5.872	4.888	5.493	E3	17.51	20
5)		Acetone	1.101	1.071	1.002	1.079	1.210	1.093	E4	6.89	20
6)		Methylene Chloride	1.753	1.609	1.722	2.395	1.615	1.819	E3	18.06	20
7)		1,2-Dichloroethene (t	1.454	1.256	1.186	1.729	1.282	1.381	E4	15.77	20
8)		1,1-Dichloroethane	1.494	1.187	1.282	1.651	1.308	1.384	E4	13.44	20
9)		Chloroform	1.698	1.372	1.373	1.731	1.401	1.515	E4	12.08	20
10)		1,2-Dichloroethane	7.391	6.002	6.170	7.675	6.562	6.760	E3	10.96	20
11)		2-Butanone	1.244	0.951	0.802	1.254	1.292	1.109	E4	19.76	20
12)		1,1,1-Trichloroethane	1.362	1.247	1.203	1.547	1.157	1.303	E4	11.99	20
13)		Carbon Tetrachloride	1.242	1.119	1.373	1.329	1.079	1.229	E4	10.44	20
14)		Benzene	1.956	1.605	1.648	2.105	1.637	1.790	E4	12.63	20
15)		Trichloroethene	9.590	7.859	8.255	9.794	7.478	8.595	E3	12.11	20
16)		1,2-Dichloropropane	0.989	0.821	0.847	1.027	0.837	0.904	E4	10.60	20
17)		Bromodichloromethane	1.570	1.482	1.510	1.781	1.275	1.524	E4	11.92	20
18)		cis-1,3-Dichloroprope	1.164	1.208	1.088	1.602	1.098	1.232	E4	17.26	20
19)		trans-1,3-Dichloropro	6.206	6.178	5.318	7.992	6.699	6.479	E3	15.14	20
20)		1,1,2-Trichloroethane	9.434	7.499	8.090	9.557	7.319	8.380	E3	12.63	20
21)		Dibromochloromethane	1.599	1.412	1.274	1.642	1.210	1.427	E4	13.41	20
22)		Bromoform	1.204	1.203	1.284	1.190	0.852	1.147	E4	14.75	20
23)		4-Methyl-2-Pentanone	1.794	1.633	1.382	1.834	1.517	1.632	E4	11.57	20
24)		Toluene	1.303	1.107	1.157	1.319	0.997	1.177	E4	11.53	20
25)		Tetrachloroethene	7.133	6.001	5.870	7.223	5.605	6.366	E3	11.87	20
26)		2-Hexanone	0.855	1.015	0.850	0.708	0.725	0.830	E4	14.88	20
27)		Chlorobenzene	1.784	1.533	1.525	1.851	1.384	1.615	E4	12.08	20
28)		Ethylbenzene	8.290	7.339	7.963	8.616	6.728	7.787	E3	9.72	20
29)		Xylene (total)	2.716	2.486	2.611	2.867	2.275	2.591	E4	8.69	20
30)		Styrene	1.470	1.454	1.559	1.471	1.124	1.416	E4	11.90	20
31)		1,1,1,2-Tetrachloroet	1.149	0.852	0.825	1.116	0.914	0.971	E4	15.55	20
32)		1,1,2,2-Tetrachloroet	2.131	1.724	1.484	2.085	1.678	1.821	E4	15.28	20
33)		FREON-11	1.897	1.198	1.333	2.060	1.594	1.616	E4	22.54	30
34)	S	Deutero-chloroform	1.545	1.544	1.304			1.464	E3	9.51	25
35)		FREON-12	1.846	1.381	1.409	1.992	1.416	1.609	E4	17.92	30
36)		FREON-113	1.735	1.068	1.061	1.985	1.286	1.427	E4	29.07	30
39)	s	D6-BENZENE	3.222	3.144		2.817		3.061	E3	7.03	25
41)	S	D6-ACETONE	2.055	2.045		1.717		1.939	E3	9.93	25
42)	S	D2-Dichloromethane	1.578	1.526		1.360		1.488	E3	7.68	25
43)		Freon-22	4.703	3.444	3.538	5.082	6.460	4.645	E3	26.70	30
44)		Freon-141B	1.646	1.113	1.157	1.847	1.325	1.418	E4	22.48	30
53)	S	D8-TOLUENE	2.491	2.444		2.299		2.411	E3	4.16	25

Evaluate Initial LCS Report

Data File : C:\HPCHEM\1\DATA\VOF1995.D Vial: 1
Acq On : 23 Aug 2011 7:29 pm Operator: Raphe
HGS
Sample : LCS 50 ng Inst : GC/MS
Ins
Misc : INITIAL 23AUG11 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\041611A.M (RTE Integrator)
Title : FULL SCAN
Last Update : Tue Aug 23 17:10:33 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev
0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	644.840	635.040		1.5	20
2	Bromomethane	423.273	381.940		9.8	20
3	Chloroethane	2.755	3.279	E3	-19.0	20
4	1,1-Dichloroethene	5.493	5.711	E3	-4.0	15
6	Methylene Chloride	1.819	1.692	E3	7.0	15
7	1,2-Dichloroethene (total)	13.815	13.095	E3	5.2	15
8	1,1-Dichloroethane	13.844	13.598	E3	1.8	15
9	Chloroform	15.149	15.309	E3	-1.1	15
10	1,2-Dichloroethane	6.760	6.816	E3	-0.8	15
12	1,1,1-Trichloroethane	13.033	13.904	E3	-6.7	15
13	Carbon Tetrachloride	12.285	12.289	E3	-0.0	15
14	Benzene	17.901	18.300	E3	-2.2	15
15	Trichloroethene	8.595	8.930	E3	-3.9	15
16	1,2-Dichloropropane	9.042	8.900	E3	1.6	15
17	Bromodichloromethane	15.237	16.057	E3	-5.4	15
18	cis-1,3-Dichloropropene	12.322	13.085	E3	-6.2	15
19	trans-1,3-Dichloropropene	6.479	6.734	E3	-3.9	15
20	1,1,2-Trichloroethane	8.380	8.923	E3	-6.5	15
21	Dibromochloromethane	14.272	14.564	E3	-2.0	15
22	Bromoform	11.466	11.529	E3	-0.5	15
24	Toluene	11.767	11.627	E3	1.2	15
25	Tetrachloroethene	6.366	6.334	E3	0.5	15
27	Chlorobenzene	16.153	16.450	E3	-1.8	15
28	Ethylbenzene	7.787	7.554	E3	3.0	15
29	Xylene (total)	25.911	25.742	E3	0.7	15
30	Styrene	14.156	15.293	E3	-8.0	15
31	1,1,1,2-Tetrachloroethane	9.713	8.966	E3	7.7	15
32	1,1,2,2-Tetrachloroethane	18.206	19.880	E3	-9.2	15
33	FREON-11	16.164	14.985	E3	7.3	20
35	FREON-12	16.087	15.367	E3	4.5	20
36	FREON-113	14.271	14.244	E3	0.2	20

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\VOF2243.D
Acq On : 4 Nov 2011 7:22 am
Sample : STANDARD 50 ng
Misc : 04NOV11
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\082311A.M (RTE Integrator)
Title : FULL SCAN
Last Update : Fri Nov 04 10:52:42 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	644.840	624.800		3.1	20
2	Bromomethane	423.273	352.100		16.8	20
3	Chloroethane	2.755	2.242	E3	18.6	20
4	1,1-Dichloroethene	5.493	4.751	E3	13.5	15
5	Acetone	10.926	10.476	E3	4.1	15
6	Methylene Chloride	1.819	1.903	E3	-4.6	15
7	1,2-Dichloroethene (total)	13.815	12.078	E3	12.6	15
8	1,1-Dichloroethane	13.844	13.213	E3	4.6	15
9	Chloroform	15.149	14.341	E3	5.3	15
10	1,2-Dichloroethane	6.760	5.956	E3	11.9	15
11	2-Butanone	11.087	9.550	E3	13.9	15
12	1,1,1-Trichloroethane	13.033	13.276	E3	-1.9	15
13	Carbon Tetrachloride	12.285	12.590	E3	-2.5	15
14	Benzene	17.901	15.521	E3	13.3	15
15	Trichloroethene	8.595	7.333	E3	14.7	15
16	1,2-Dichloropropane	9.042	8.597	E3	4.9	15
17	Bromodichloromethane	15.237	14.323	E3	6.0	15
18	cis-1,3-Dichloropropene	12.322	13.107	E3	-6.4	15
19	trans-1,3-Dichloropropene	6.479	6.529	E3	-0.8	15
20	1,1,2-Trichloroethane	8.380	7.197	E3	14.1	15
21	Dibromochloromethane	14.272	13.333	E3	6.6	15
22	Bromoform	11.466	12.807	E3	-11.7	15
23	4-Methyl-2-Pentanone	16.321	16.798	E3	-2.9	15
24	Toluene	11.767	12.969	E3	-10.2	15
25	Tetrachloroethene	6.366	7.237	E3	-13.7	15
26	2-Hexanone	8.305	8.351	E3	-0.6	15
27	Chlorobenzene	16.153	13.932	E3	13.7	15
28	Ethylbenzene	7.787	7.307	E3	6.2	15
29	Xylene (total)	25.911	23.805	E3	8.1	15
30	Styrene	14.156	12.966	E3	8.4	15
31	1,1,1,2-Tetrachloroethane	9.713	9.881	E3	-1.7	15
32	1,1,2,2-Tetrachloroethane	18.206	15.796	E3	13.2	15
33	FREON-11	16.164	18.298	E3	-13.2	20
35	FREON-12	16.087	13.950	E3	13.3	20
36	FREON-113	14.271	13.172	E3	7.7	20
43	Freon-22	4.645	5.359	E3	-15.4	20
44	Freon-141B	14.176	15.400	E3	-8.6	20

Evaluate Daily LCS Report

Data File : C:\HPCHEM\1\DATA\VOF2260.D
Acq On : 4 Nov 2011 3:30 pm
Sample : LCS 50 ng
Misc : 04NOV11
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\082311A.M (RTE Integrator)
Title : FULL SCAN
Last Update : Fri Nov 04 15:47:24 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	644.840	670.360		-4.0	25
2	Bromomethane	423.273	350.820		17.1	25
3	Chloroethane	2.755	2.889	E3	-4.9	25
4	1,1-Dichloroethene	5.493	6.285	E3	-14.1	20
6	Methylene Chloride	1.819	2.071	E3	-13.9	20
7	1,2-Dichloroethene (total)	13.815	13.044	E3	5.6	20
8	1,1-Dichloroethane	13.844	12.688	E3	8.4	20
9	Chloroform	15.149	17.523	E3	-15.7	20
10	1,2-Dichloroethane	6.760	6.682	E3	1.2	20
12	1,1,1-Trichloroethane	13.033	14.701	E3	-12.8	20
13	Carbon Tetrachloride	12.285	13.056	E3	-6.3	20
14	Benzene	17.901	18.217	E3	-1.8	20
15	Trichloroethene	8.595	8.789	E3	-2.3	20
16	1,2-Dichloropropane	9.042	9.046	E3	-0.0	20
17	Bromodichloromethane	15.237	17.174	E3	-12.7	20
18	cis-1,3-Dichloropropene	12.322	13.699	E3	-11.2	20
19	trans-1,3-Dichloropropene	6.479	7.193	E3	-11.0	20
20	1,1,2-Trichloroethane	8.380	9.259	E3	-10.5	20
21	Dibromochloromethane	14.272	16.441	E3	-15.2	20
22	Bromoform	11.466	13.403	E3	-16.9	20
24	Toluene	11.767	12.276	E3	-4.3	20
25	Tetrachloroethene	6.366	6.956	E3	-9.3	20
27	Chlorobenzene	16.153	17.468	E3	-8.1	20
28	Ethylbenzene	7.787	7.974	E3	-2.4	20
29	Xylene (total)	25.911	29.806	E3	-15.0	20
30	Styrene	14.156	16.904	E3	-19.4	20
31	1,1,1,2-Tetrachloroethane	9.713	8.940	E3	8.0	20
32	1,1,2,2-Tetrachloroethane	18.206	21.655	E3	-18.9	20
33	FREON-11	16.164	15.796	E3	2.3	25
35	FREON-12	16.087	13.253	E3	17.6	25
36	FREON-113	14.271	12.646	E3	11.4	25
43	Freon-22	4.645	4.843	E3	-4.3	25
44	Freon-141B	14.176	14.673	E3	-3.5	25

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\VOF2261.D
Acq On : 5 Nov 2011 7:52 am
Sample : STANDARD 50 ng
Misc : 05NOV11
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\082311A.M (RTE Integrator)
Title : FULL SCAN
Last Update : Sat Nov 05 12:28:49 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	644.840	666.580		-3.4	20
2	Bromomethane	423.273	373.500		11.8	20
3	Chloroethane	2.755	2.208	E3	19.9	20
4	1,1-Dichloroethene	5.493	4.845	E3	11.8	15
5	Acetone	10.926	9.641	E3	11.8	15
6	Methylene Chloride	1.819	1.871	E3	-2.9	15
7	1,2-Dichloroethene (total)	13.815	12.918	E3	6.5	15
8	1,1-Dichloroethane	13.844	15.001	E3	-8.4	15
9	Chloroform	15.149	13.451	E3	11.2	15
10	1,2-Dichloroethane	6.760	5.806	E3	14.1	15
11	2-Butanone	11.087	9.692	E3	12.6	15
12	1,1,1-Trichloroethane	13.033	12.482	E3	4.2	15
13	Carbon Tetrachloride	12.285	13.557	E3	-10.4	15
14	Benzene	17.901	15.836	E3	11.5	15
15	Trichloroethene	8.595	8.090	E3	5.9	15
16	1,2-Dichloropropane	9.042	8.094	E3	10.5	15
17	Bromodichloromethane	15.237	13.462	E3	11.6	15
18	cis-1,3-Dichloropropene	12.322	13.332	E3	-8.2	15
19	trans-1,3-Dichloropropene	6.479	5.746	E3	11.3	15
20	1,1,2-Trichloroethane	8.380	7.665	E3	8.5	15
21	Dibromochloromethane	14.272	12.135	E3	15.0	15
22	Bromoform	11.466	11.846	E3	-3.3	15
23	4-Methyl-2-Pentanone	16.321	15.098	E3	7.5	15
24	Toluene	11.767	11.744	E3	0.2	15
25	Tetrachloroethene	6.366	6.600	E3	-3.7	15
26	2-Hexanone	8.305	7.563	E3	8.9	15
27	Chlorobenzene	16.153	13.850	E3	14.3	15
28	Ethylbenzene	7.787	7.749	E3	0.5	15
29	Xylene (total)	25.911	22.047	E3	14.9	15
30	Styrene	14.156	12.162	E3	14.1	15
31	1,1,1,2-Tetrachloroethane	9.713	9.048	E3	6.8	15
32	1,1,2,2-Tetrachloroethane	18.206	20.167	E3	-10.8	15
33	FREON-11	16.164	16.549	E3	-2.4	20
35	FREON-12	16.087	13.291	E3	17.4	20
36	FREON-113	14.271	12.174	E3	14.7	20
43	Freon-22	4.645	4.934	E3	-6.2	20
44	Freon-141B	14.176	14.403	E3	-1.6	20

Evaluate Daily LCS Report

Data File : C:\HPCHEM\1\DATA\VOF2276.D
Acq On : 5 Nov 2011 4:40 pm
Sample : LCS 50 ng
Misc : SFS/FERO 05NOV11
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\082311A.M (RTE Integrator)
Title : FULL SCAN
Last Update : Sat Nov 05 17:08:13 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	AccRge
1		Vinyl Chloride	644.840	620.640		3.8	25
2		Bromomethane	423.273	373.160		11.8	25
3		Chloroethane	2.755	2.255	E3	18.1	25
4		1,1-Dichloroethene	5.493	5.546	E3	-1.0	20
6		Methylene Chloride	1.819	1.768	E3	2.8	20
7		1,2-Dichloroethene (total)	13.815	12.754	E3	7.7	20
8		1,1-Dichloroethane	13.844	12.000	E3	13.3	20
9		Chloroform	15.149	14.537	E3	4.0	20
10		1,2-Dichloroethane	6.760	5.773	E3	14.6	20
12		1,1,1-Trichloroethane	13.033	14.318	E3	-9.9	20
13		Carbon Tetrachloride	12.285	12.064	E3	1.8	20
14		Benzene	17.901	14.476	E3	19.1	20
15		Trichloroethene	8.595	8.447	E3	1.7	20
16		1,2-Dichloropropane	9.042	7.403	E3	18.1	20
17		Bromodichloromethane	15.237	15.926	E3	-4.5	20
18		cis-1,3-Dichloropropene	12.322	11.533	E3	6.4	20
19		trans-1,3-Dichloropropene	6.479	6.065	E3	6.4	20
20		1,1,2-Trichloroethane	8.380	7.822	E3	6.7	20
21		Dibromochloromethane	14.272	15.194	E3	-6.5	20
22		Bromoform	11.466	10.523	E3	8.2	20
24		Toluene	11.767	10.449	E3	11.2	20
25		Tetrachloroethene	8.366	7.362	E3	-15.6	20
27		Chlorobenzene	16.153	16.026	E3	0.8	20
28		Ethylbenzene	7.787	7.163	E3	8.0	20
29		Xylene (total)	25.911	25.391	E3	2.0	20
30		Styrene	14.156	14.802	E3	-4.6	20
31	T	1,1,1,2-Tetrachloroethane	9.713	8.199	E3	15.6	20
32		1,1,2,2-Tetrachloroethane	18.206	17.401	E3	4.4	20
33		FREON-11	16.164	13.967	E3	13.6	25
35		FREON-12	16.087	15.548	E3	3.4	25
36		FREON-113	14.271	12.455	E3	12.7	25
43		Freon-22	4.645	4.306	E3	7.3	25
44		Freon-141B	14.176	12.131	E3	14.4	25

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\VOF2277.D
Acq On : 8 Nov 2011 1:50 pm
Sample : STANDARD 50 ng
Misc : 08NOV11
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\082311A.M (RTE Integrator)
Title : FULL SCAN
Last Update : Tue Nov 08 14:14:45 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	644.840	599.520		7.0	20
2	Bromomethane	423.273	472.400		-11.6	20
3	Chloroethane	2.755	2.385	E3	13.4	20
4	1,1-Dichloroethene	5.493	5.059	E3	7.9	15
5	Acetone	10.926	11.503	E3	-5.3	15
6	Methylene Chloride	1.819	1.585	E3	12.9	15
7	1,2-Dichloroethene (total)	13.815	11.822	E3	14.4	15
8	1,1-Dichloroethane	13.844	13.847	E3	-0.0	15
9	Chloroform	15.149	13.339	E3	11.9	15
10	1,2-Dichloroethane	6.760	6.119	E3	9.5	15
11	2-Butanone	11.087	12.324	E3	-11.2	15
12	1,1,1-Trichloroethane	13.033	11.500	E3	11.8	15
13	Carbon Tetrachloride	12.285	12.905	E3	-5.0	15
14	Benzene	17.901	15.608	E3	12.8	15
15	Trichloroethene	8.595	8.019	E3	6.7	15
16	1,2-Dichloropropane	9.042	8.200	E3	9.3	15
17	Bromodichloromethane	15.237	17.150	E3	-12.6	15
18	cis-1,3-Dichloropropene	12.322	10.476	E3	15.0	15
19	trans-1,3-Dichloropropene	6.479	5.979	E3	7.7	15
20	1,1,2-Trichloroethane	8.380	8.333	E3	0.6	15
21	Dibromochloromethane	14.272	12.989	E3	9.0	15
22	Bromoform	11.466	12.023	E3	-4.9	15
23	4-Methyl-2-Pentanone	16.321	14.605	E3	10.5	15
24	Toluene	11.767	11.496	E3	2.3	15
25	Tetrachloroethene	6.366	6.971	E3	-9.5	15
26	2-Hexanone	8.305	7.065	E3	14.9	15
27	Chlorobenzene	16.153	15.127	E3	3.[illegible]	15
28	Ethylbenzene	7.787	8.497	E3	-9.1	15
29	Xylene (total)	25.911	22.209	E3	14.3	15
30	Styrene	14.156	12.684	E3	10.4	15
31	1,1,1,2-Tetrachloroethane	9.713	8.830	E3	9.1	15
32	1,1,2,2-Tetrachloroethane	18.206	17.988	E3	1.2	15
33	FREON-11	16.164	15.779	E3	2.4	20
35	FREON-12	16.087	14.559	E3	9.5	20
36	FREON-113	14.271	13.125	E3	8.0	20
43	Freon-22	4.645	4.737	E3	-2.0	20
44	Freon-141B	14.176	13.391	E3	5.5	20

Evaluate Daily LCS Report

Data File : C:\HPCHEM\1\DATA\VOF2286.D
Acq On : 8 Nov 2011 4:25 pm
Sample : LCS 50 ng
Misc : SFS/FERO 08NOV11
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\082311A.M (RTE Integrator)
Title : FULL SCAN
Last Update : Wed Nov 09 07:54:12 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	AccRge
1		Vinyl Chloride	644.840	685.660		-6.3	25
2		Bromomethane	423.273	482.400		-14.0	25
3		Chloroethane	2.755	2.418	E3	12.2	25
4		1,1-Dichloroethene	5.493	5.819	E3	-5.9	20
6		Methylene Chloride	1.819	2.012	E3	-10.6	20
7		1,2-Dichloroethene (total)	13.815	14.038	E3	-1.6	20
8		1,1-Dichloroethane	13.844	12.880	E3	7.0	20
9		Chloroform	15.149	15.563	E3	-2.7	20
10		1,2-Dichloroethane	6.760	5.547	E3	17.9	20
12		1,1,1-Trichloroethane	13.033	15.472	E3	-18.7	20
13		Carbon Tetrachloride	12.285	12.290	E3	-0.0	20
14		Benzene	17.901	15.521	E3	13.3	20
15		Trichloroethene	8.595	9.354	E3	-8.8	20
16		1,2-Dichloropropane	9.042	7.483	E3	17.2	20
17		Bromodichloromethane	15.237	17.165	E3	-12.7	20
18		cis-1,3-Dichloropropene	12.322	10.246	E3	16.8	20
19		trans-1,3-Dichloropropene	6.479	7.419	E3	-14.5	20
20		1,1,2-Trichloroethane	8.380	8.485	E3	-1.3	20
21		Dibromochloromethane	14.272	16.537	E3	-15.9	20
22		Bromoform	11.466	13.302	E3	-16.0	20
24		Toluene	11.767	11.069	E3	5.9	20
25		Tetrachloroethene	6.366	6.595	E3	-3.6	20
27		Chlorobenzene	16.153	17.222	E3	-6.6	20
28		Ethylbenzene	7.787	7.717	E3	0.9	20
29		Xylene (total)	25.911	26.166	E3	-1.0	20
30		Styrene	14.156	15.900	E3	-12.3	20
31	T	1,1,1,2-Tetrachloroethane	9.713	8.926	E3	8.1	20
32		1,1,2,2-Tetrachloroethane	18.206	18.199	E3	0.0	20
33		FREON-11	16.164	14.536	E3	10.1	25
35		FREON-12	16.087	12.905	E3	19.8	25
36		FREON-113	14.271	11.789	E3	17.4	25
43		Freon-22	4.645	4.396	E3	5.4	25
44		Freon-141B	14.176	13.135	E3	7.3	25

INITIAL CALIBRATION BY FULL SCAN MASS SPEC

LAB NAME: HydroGeoSpectrum DATE: 04 March 2011

ANALYST:Raphe Pavlick STD LOT#:ULTRA CG1988 INSTRUMENT ID:2415A8201

Calibration Files
500 =7383A.D 1500 =7384A.D 50 =7384A.D
20 =7385A.D 5 =7386A.D

		Compound	500	1500	50	20	5	Avg		%RSD	AccRge
1)		Vinyl Chloride	0.778	0.751	1.121	1.424	1.141	1.043	E3	26.95	30
2)		Bromomethane	2.478	1.861	1.799	1.893	1.390	1.884	E2	20.64	30
3)		Chloroethane	2.370	2.564	3.218	4.109	4.358	3.324	E2	26.84	30
4)		1,1-Dichloroethene	2.066	2.061	1.621	2.078	2.297	2.025	E3	12.17	20
6)		Methylene Chloride	2.267	2.783	1.685	2.613	2.771	2.424	E3	19.07	20
7)		1,2-Dichloroethene (c	4.739	3.921	3.544	4.480	5.687	4.474	E3	18.41	20
8)		1,1-Dichloroethane	5.494	5.701	4.058	4.223	4.650	4.825	E3	15.35	20
9)		Chloroform	5.298	3.867	3.358	3.567	4.023	4.023	E3	18.85	20
10)		1,2-Dichloroethane	4.419	3.543	3.126	3.111	3.771	3.594	E3	15.02	20
12)		1,1,1-Trichloroethane	3.837	3.080	2.632	2.484	3.394	3.085	E3	17.96	20
13)		Carbon Tetrachloride	1.561	1.463	1.199	1.072	1.369	1.333	E3	14.83	20
14)		Benzene	6.444	6.257	7.791	8.786	6.692	7.194	E3	14.88	20
15)		Trichloroethene	2.316	2.326	2.764	3.457	3.017	2.776	E3	17.42	20
16)		1,2-Dichloropropane	5.494	6.145	4.056	4.401	4.612	4.942	E3	17.34	20
17)		Bromodichloromethane	1.609	1.546	1.799	2.092	2.006	1.811	E3	13.18	20
18)		cis-1,3-Dichloroprope	2.845	2.475	2.175	2.564	2.079	2.428	E3	12.70	20
19)		trans-1,3-Dichloropro	6.945	6.286	6.428	4.474	6.136	6.054	E2	15.43	20
20)		1,1,2-Trichloroethane	2.072	1.923	2.373	2.972	2.654	2.399	E3	17.77	20
21)		Dibromochloromethane	1.765	1.593	2.084	2.185	2.552	2.036	E3	18.40	20
22)		Bromoform	5.760	5.525	4.762	5.404	5.000	5.290	E2	7.63	20
24)		Toluene	5.036	4.291	5.950	6.341	6.831	5.690	E3	17.97	20
25)		Tetrachloroethene	1.684	1.553	2.070	2.151	2.157	1.923	E3	14.76	20
27)		Chlorobenzene	5.553	5.658	7.250	8.045	8.269	6.955	E3	18.53	20
28)		Ethylbenzene	3.060	2.567	3.860	3.696	4.212	3.479	E3	18.93	20
29)		Xylene (total)	1.050	0.866	1.396	1.240	1.319	1.174	E4	18.30	20
30)		Styrene	6.068	5.297	7.871	8.210	8.582	7.205	E3	19.97	20
31)		1,1,1,2-Tetrachloroet	1.801	1.615	2.160	2.185	2.264	2.005	E3	14.06	20
32)		1,1,2,2-Tetrachloroet	2.554	2.361	1.687	2.334	2.309	2.249	E3	14.62	20
33)		FREON-11	4.539	4.393	2.861	4.674	4.706	4.235	E2	18.37	30
34)	S	Deutero-chloroform	6.656	5.643	5.777			6.025	E2	9.13	25
35)		FREON-12	5.051	5.505	5.098	7.127	9.566	6.469	E2	29.78	30
36)		FREON-113	2.653	2.651	1.351	2.379	2.434	2.294	E3	23.60	30
39)	s	D6-BENZENE	2.298	2.375	2.460			2.377	E3	3.41	25
41)	S	D6-ACETONE	1.039	1.099	0.936			1.025	E3	8.08	25
42)	S	D2-Dichloromethane	8.927	9.547	9.575			9.350	E2	3.92	25
43)		Freon-22	1.367	1.268	1.266	1.254	1.362	1.303	E3	4.30	30
44)		Freon-141B	3.575	3.717	3.250	4.376	5.189	4.021	E3	19.16	30
53)	S	D8-TOLUENE	1.339	1.630	1.969			1.646	E3	19.14	25

INITIAL LCS BY FULL SCAN MASS SPEC

LAB NAME: HydroGeoSpectrum DATE: 04 March 2011

ANALYST:Raphe Pavlick STD LOT#: ABS 100509 INSTRUMENT ID:2415A8201

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1042.891	1110.580		-6.5	20
2	Bromomethane	188.417	173.440		7.9	20
3	Chloroethane	332.374	325.540		2.1	20
4	1,1-Dichloroethene	2.025	2.033	E3	-0.4	15
6	Methylene Chloride	2.424	2.521	E3	-4.0	15
7	1,2-Dichloroethene (cis)	4.474	3.974	E3	11.2	15
8	1,1-Dichloroethane	4.825	5.405	E3	-12.0	15
9	Chloroform	4.023	4.029	E3	-0.1	15
10	1,2-Dichloroethane	3.594	3.764	E3	-4.7	15
12	1,1,1-Trichloroethane	3.085	2.927	E3	5.1	15
13	Carbon Tetrachloride	1.333	1.527	E3	-14.6	15
14	Benzene	7.194	7.118	E3	1.1	15
15	Trichloroethene	2.776	2.770	E3	0.2	15
16	1,2-Dichloropropane	4.942	5.536	E3	-12.0	15
17	Bromodichloromethane	1.811	1.680	E3	7.2	15
18	cis-1,3-Dichloropropene	2.428	2.155	E3	11.2	15
19	trans-1,3-Dichloropropene	605.368	642.960		-6.2	15
20	1,1,2-Trichloroethane	2.399	2.176	E3	9.3	15
21	Dibromochloromethane	2.036	1.964	E3	3.5	15
24	Toluene	5.690	6.399	E3	-12.5	15
25	Tetrachloroethene	1.923	1.919	E3	0.2	15
27	Chlorobenzene	6.955	6.935	E3	0.3	15
28	Ethylbenzene	3.479	3.698	E3	-6.3	15
29	Xylene (total)	11.742	12.847	E3	-9.4	15
30	Styrene	7.205	7.579	E3	-5.2	15
31	1,1,1,2-Tetrachloroethane	2.005	2.031	E3	-1.3	15
32	1,1,2,2-Tetrachloroethane	2.249	2.103	E3	6.5	15
33	FREON-11	423.458	412.700		2.5	20
35	FREON-12	646.924	682.060		-5.4	20
36	FREON-113	2.294	2.364	E3	-3.1	20
43	Freon-22	1.303	1.463	E3	-12.3	20
44	Freon-141B	4.021	4.574	E3	-13.8	20

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\WOB8206.D
Acq On : 4 Nov 2011 9:15 am
Sample : STANDARD 50 ng
Misc : 04NOV11
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\N020411.M (RTE Integrator)
Title : FULL SCAN
Last Update : Fri Nov 04 09:36:45 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1042.891	850.380		18.5	20
2	Bromomethane	188.417	171.640		8.9	20
3	Chloroethane	332.374	280.920		15.5	20
4	1,1-Dichloroethene	2.025	1.859	E3	8.2	15
6	Methylene Chloride	2.424	2.352	E3	3.0	15
7	1,2-Dichloroethene (cis)	4.474	5.045	E3	-12.8	15
8	1,1-Dichloroethane	4.825	4.917	E3	-1.9	15
9	Chloroform	4.023	3.887	E3	3.4	15
10	1,2-Dichloroethane	3.594	3.470	E3	3.5	15
12	1,1,1-Trichloroethane	3.085	3.001	E3	2.7	15
13	Carbon Tetrachloride	1.333	1.399	E3	-5.0	15
14	Benzene	7.194	7.970	E3	-10.8	15
15	Trichloroethene	2.776	2.720	E3	2.0	15
16	1,2-Dichloropropane	4.942	4.917	E3	0.5	15
17	Bromodichloromethane	1.811	1.937	E3	-7.0	15
18	cis-1,3-Dichloropropene	2.428	2.132	E3	12.2	15
19	trans-1,3-Dichloropropene	605.368	540.500		10.7	15
20	1,1,2-Trichloroethane	2.399	2.445	E3	-1.9	15
21	Dibromochloromethane	2.036	2.074	E3	-1.9	15
22	Bromoform	529.028	553.120		-4.6	15
24	Toluene	5.690	6.087	E3	-7.0	15
25	Tetrachloroethene	1.923	1.951	E3	-1.5	15
27	Chlorobenzene	6.955	7.171	E3	-3.1	15
28	Ethylbenzene	3.479	3.792	E3	-9.0	15
29	Xylene (total)	11.742	12.568	E3	-7.0	15
30	Styrene	7.205	7.803	E3	-8.3	15
31	1,1,1,2-Tetrachloroethane	2.005	2.124	E3	-5.9	15
32	1,1,2,2-Tetrachloroethane	2.249	2.414	E3	-7.3	15
33	FREON-11	423.458	398.400		5.9	20
35	FREON-12	646.924	742.120		-14.7	20
36	FREON-113	2.294	2.328	E3	-1.5	20
43	Freon-22	1.303	1.198	E3	8.1	20
44	Freon-141B	4.021	4.579	E3	-13.9	20

Data File : C:\HPCHEM\1\DATA\WOB8219.D
Acq On : 4 Nov 2011 2:26 pm
Sample : LCS 50 ng
Misc : 04NOV11
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\N020411.M (RTE Integrator)
Title : FULL SCAN
Last Update : Fri Nov 04 14:52:44 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1042.891	876.540		16.0	25
2	Bromomethane	188.417	208.900		-10.9	25
3	Chloroethane	332.374	269.900		18.8	25
4	1,1-Dichloroethene	2.025	2.029	E3	-0.2	20
6	Methylene Chloride	2.424	2.130	E3	12.1	20
7	1,2-Dichloroethene (cis)	4.474	5.214	E3	-16.5	20
8	1,1-Dichloroethane	4.825	5.323	E3	-10.3	20
9	Chloroform	4.023	3.784	E3	5.9	20
10	1,2-Dichloroethane	3.594	4.209	E3	-17.1	20
12	1,1,1-Trichloroethane	3.085	3.297	E3	-6.9	20
13	Carbon Tetrachloride	1.333	1.203	E3	9.8	20
14	Benzene	7.194	7.644	E3	-6.3	20
15	Trichloroethene	2.776	2.981	E3	-7.4	20
16	1,2-Dichloropropane	4.942	5.745	E3	-16.2	20
17	Bromodichloromethane	1.811	1.953	E3	-7.8	20
18	cis-1,3-Dichloropropene	2.428	2.325	E3	4.2	20
19	trans-1,3-Dichloropropene	605.368	715.360		-18.2	20
20	1,1,2-Trichloroethane	2.399	2.267	E3	5.5	20
21	Dibromochloromethane	2.036	1.877	E3	7.8	20
22	Bromoform	529.028	570.560		-7.9	20
24	Toluene	5.690	4.751	E3	16.5	20
25	Tetrachloroethene	1.923	1.592	E3	17.2	20
27	Chlorobenzene	6.955	5.774	E3	17.0	20
28	Ethylbenzene	3.479	3.148	E3	9.5	20
29	Xylene (total)	11.742	10.802	E3	8.0	20
30	Styrene	7.205	6.273	E3	12.9	20
31	1,1,1,2-Tetrachloroethane	2.005	2.265	E3	-13.0	20
32	1,1,2,2-Tetrachloroethane	2.249	2.500	E3	-11.2	20
33	FREON-11	423.458	397.720		6.1	25
35	FREON-12	646.924	641.680		0.8	25
36	FREON-113	2.294	2.611	E3	-13.8	25
43	Freon-22	1.303	1.481	E3	-13.7	25

Evaluate continuing calibration report

Data File : C:\HPCHEM\1\DATA\WOB8220.D
Acq On : 5 Nov 2011 11:15 am
Sample : STANDARD 50 ng
Misc : 05NOV11
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\N020411.M (RTE Integrator)
Title : FULL SCAN
Last Update : Sat Nov 05 11:31:47 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1042.891	901.480		13.6	20
2	Bromomethane	188.417	151.380		19.7	20
3	Chloroethane	332.374	380.340		-14.4	20
4	1,1-Dichloroethene	2.025	1.762	E3	13.0	15
6	Methylene Chloride	2.424	2.502	E3	-3.2	15
7	1,2-Dichloroethene (cis)	4.474	4.587	E3	-2.5	15
8	1,1-Dichloroethane	4.825	4.441	E3	8.0	15
9	Chloroform	4.023	3.662	E3	9.0	15
10	1,2-Dichloroethane	3.594	3.553	E3	1.1	15
12	1,1,1-Trichloroethane	3.085	2.709	E3	12.2	15
13	Carbon Tetrachloride	1.333	1.318	E3	1.1	15
14	Benzene	7.194	8.145	E3	-13.2	15
15	Trichloroethene	2.776	3.050	E3	-9.9	15
16	1,2-Dichloropropane	4.942	4.441	E3	10.1	15
17	Bromodichloromethane	1.811	2.052	E3	-13.3	15
18	cis-1,3-Dichloropropene	2.428	2.308	E3	4.9	15
19	trans-1,3-Dichloropropene	605.368	541.960		10.5	15
20	1,1,2-Trichloroethane	2.399	2.744	E3	-14.4	15
21	Dibromochloromethane	2.036	2.319	E3	-13.9	15
22	Bromoform	529.028	467.080		11.7	15
24	Toluene	5.690	6.072	E3	-6.7	15
25	Tetrachloroethene	1.923	2.089	E3	-8.6	15
27	Chlorobenzene	6.955	7.514	E3	-8.0	15
28	Ethylbenzene	3.479	3.938	E3	-13.2	15
29	Xylene (total)	11.742	10.497	E3	10.6	15
30	Styrene	7.205	8.239	E3	-14.4	15
31	1,1,1,2-Tetrachloroethane	2.005	2.145	E3	-7.0	15
32	1,1,2,2-Tetrachloroethane	2.249	2.306	E3	-2.5	15
33	FREON-11	423.458	388.740		8.2	20
35	FREON-12	646.924	599.280		7.4	20
36	FREON-113	2.294	2.123	E3	7.5	20
43	Freon-22	1.303	1.120	E3	14.0	20
44	Freon-141B	4.021	4.329	E3	-7.7	20

Data File : C:\HPCHEM\1\DATA\WOB8229.D
Acq On : 5 Nov 2011 3:32 pm
Sample : LCS 50 ng
Misc : SFS/FERO 05NOV11
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\N020411.M (RTE Integrator)
Title : FULL SCAN
Last Update : Sat Nov 05 16:05:38 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1042.891	1157.300		-11.0	25
2	Bromomethane	188.417	213.080		-13.1	25
3	Chloroethane	332.374	336.180		-1.1	25
4	1,1-Dichloroethene	2.025	2.179	E3	-7.6	20
6	Methylene Chloride	2.424	2.528	E3	-4.3	20
7	1,2-Dichloroethene (cis)	4.474	4.774	E3	-6.7	20
8	1,1-Dichloroethane	4.825	5.000	E3	-3.6	20
9	Chloroform	4.023	3.661	E3	9.0	20
10	1,2-Dichloroethane	3.594	3.097	E3	13.8	20
12	1,1,1-Trichloroethane	3.085	3.511	E3	-13.8	20
13	Carbon Tetrachloride	1.333	1.582	E3	-18.7	20
14	Benzene	7.194	7.625	E3	-6.0	20
15	Trichloroethene	2.776	3.087	E3	-11.2	20
16	1,2-Dichloropropane	4.942	5.523	E3	-11.8	20
17	Bromodichloromethane	1.811	2.143	E3	-18.3	20
18	cis-1,3-Dichloropropene	2.428	2.016	E3	17.0	20
19	trans-1,3-Dichloropropene	605.368	590.100		2.5	20
20	1,1,2-Trichloroethane	2.399	2.833	E3	-18.1	20
21	Dibromochloromethane	2.036	2.395	E3	-17.6	20
22	Bromoform	529.028	627.660		-18.6	20
24	Toluene	5.690	6.566	E3	-15.4	20
25	Tetrachloroethene	1.923	2.183	E3	-13.5	20
27	Chlorobenzene	6.955	7.979	E3	-14.7	20
28	Ethylbenzene	3.479	3.736	E3	-7.4	20
29	Xylene (total)	11.742	11.140	E3	5.1	20
30	Styrene	7.205	8.459	E3	-17.4	20
31	1,1,1,2-Tetrachloroethane	2.005	2.213	E3	-10.4	20
32	1,1,2,2-Tetrachloroethane	2.249	2.522	E3	-12.1	20
33	FREON-11	423.458	360.080		15.0	25
35	FREON-12	646.924	525.080		18.8	25
36	FREON-113	2.294	2.620	E3	-14.2	25
43	Freon-22	1.303	1.053	E3	19.2	25
44	Freon-141B	4.021	3.801	E3	5.5	25

Data File : C:\HPCHEM\1\DATA\WOB8230.D Vial: 1
Acq On : 8 Nov 2011 1:28 pm Operator: Raphe HGS
Sample : STANDARD 50 ng Inst : GC/MS Ins
Misc : 08NOV11 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\N020411.M (RTE Integrator)
Title : FULL SCAN
Last Update : Tue Nov 08 13:56:22 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1042.891	1009.040		3.2	20
2	Bromomethane	188.417	177.700		5.7	20
3	Chloroethane	332.374	354.840		-6.8	20
4	1,1-Dichloroethene	2.025	1.735	E3	14.3	15
6	Methylene Chloride	2.424	2.644	E3	-9.1	15
7	1,2-Dichloroethene (cis)	4.474	4.470	E3	0.1	15
8	1,1-Dichloroethane	4.825	4.296	E3	11.0	15
9	Chloroform	4.023	3.916	E3	2.7	15
10	1,2-Dichloroethane	3.594	3.425	E3	4.7	15
12	1,1,1-Trichloroethane	3.085	3.383	E3	-9.7	15
13	Carbon Tetrachloride	1.333	1.512	E3	-13.4	15
14	Benzene	7.194	8.099	E3	-12.6	15
15	Trichloroethene	2.776	3.085	E3	-11.1	15
16	1,2-Dichloropropane	4.942	4.259	E3	13.8	15
17	Bromodichloromethane	1.811	2.066	E3	-14.1	15
18	cis-1,3-Dichloropropene	2.428	2.742	E3	-12.9	15
19	trans-1,3-Dichloropropene	605.368	599.460		1.0	15
20	1,1,2-Trichloroethane	2.399	2.754	E3	-14.8	15
21	Dibromochloromethane	2.036	2.251	E3	-10.6	15
22	Bromoform	529.028	506.800		4.2	15
24	Toluene	5.690	6.374	E3	-12.0	15
25	Tetrachloroethene	1.923	2.087	E3	-8.5	15
27	Chlorobenzene	6.955	7.497	E3	-7.8	15
28	Ethylbenzene	3.479	3.185	E3	8.5	15
29	Xylene (total)	11.742	11.576	E3	1.4	15
30	Styrene	7.205	6.675	E3	7.4	15
31 T	1,1,1,2-Tetrachloroethane	2.005	2.143	E3	-6.9	15
32	1,1,2,2-Tetrachloroethane	2.249	2.403	E3	-6.8	15
33	FREON-11	423.458	418.700		1.1	20
35	FREON-12	646.924	711.760		-10.0	20
36	FREON-113	2.294	1.945	E3	15.2	20
43	Freon-22	1.303	1.210	E3	7.1	20
44	Freon-141B	4.021	3.885	E3	3.4	20

Evaluate Daily Log Report

Data File : C:\HPCHEM\1\DATA\WOB8240.D
Acq On : 8 Nov 2011 4:36 pm
Sample : LCS 50 ng
Misc : 08NOV11
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

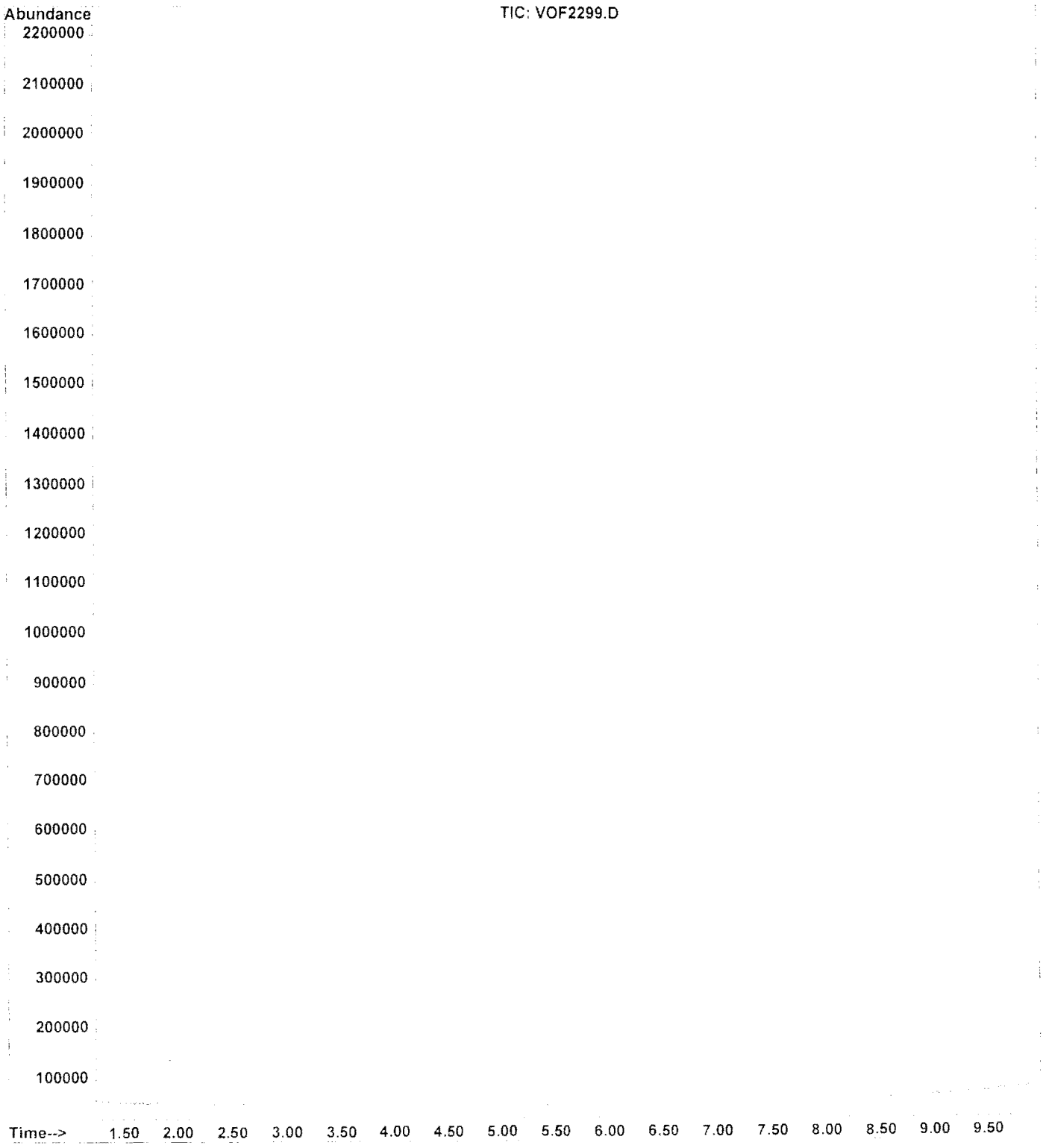
Method : C:\HPCHEM\1\METHODS\N020411.M (RTE Integrator)
Title : FULL SCAN
Last Update : Tue Nov 08 16:53:35 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1042.891	1083.360		-3.9	25
2	Bromomethane	188.417	231.340		-22.8	25
3	Chloroethane	332.374	345.220		-3.9	25
4	1,1-Dichloroethene	2.025	1.956	E3	3.4	20
6	Methylene Chloride	2.424	2.343	E3	3.3	20
7	1,2-Dichloroethene (cis)	4.474	4.383	E3	2.0	20
8	1,1-Dichloroethane	4.825	5.106	E3	-5.8	20
9	Chloroform	4.023	4.826	E3	-20.0	20
10	1,2-Dichloroethane	3.594	3.991	E3	-11.0	20
12	1,1,1-Trichloroethane	3.085	3.287	E3	-6.5	20
13	Carbon Tetrachloride	1.333	1.484	E3	-11.3	20
14	Benzene	7.194	7.165	E3	0.4	20
15	Trichloroethene	2.776	2.781	E3	-0.2	20
16	1,2-Dichloropropane	4.942	5.431	E3	-9.9	20
17	Bromodichloromethane	1.811	1.907	E3	-5.3	20
18	cis-1,3-Dichloropropene	2.428	2.293	E3	5.6	20
19	trans-1,3-Dichloropropene	605.368	568.320		6.1	20
20	1,1,2-Trichloroethane	2.399	2.322	E3	3.2	20
21	Dibromochloromethane	2.036	2.308	E3	-13.4	20
22	Bromoform	529.028	598.360		-13.1	20
24	Toluene	5.690	5.655	E3	0.6	20
25	Tetrachloroethene	1.923	2.175	E3	-13.1	20
27	Chlorobenzene	6.955	7.442	E3	-7.0	20
28	Ethylbenzene	3.479	3.838	E3	-10.3	20
29	Xylene (total)	11.742	10.081	E3	14.1	20
30	Styrene	7.205	8.329	E3	-15.6	20
31 T	1,1,1,2-Tetrachloroethane	2.005	1.962	E3	2.1	20
32	1,1,2,2-Tetrachloroethane	2.249	2.678	E3	-19.1	20
33	FREON-11	423.458	378.680		10.6	25
35	FREON-12	646.924	601.960		7.0	25
36	FREON-113	2.294	2.572	E3	-12.1	25
43	Freon-22	1.303	1.138	E3	12.7	25

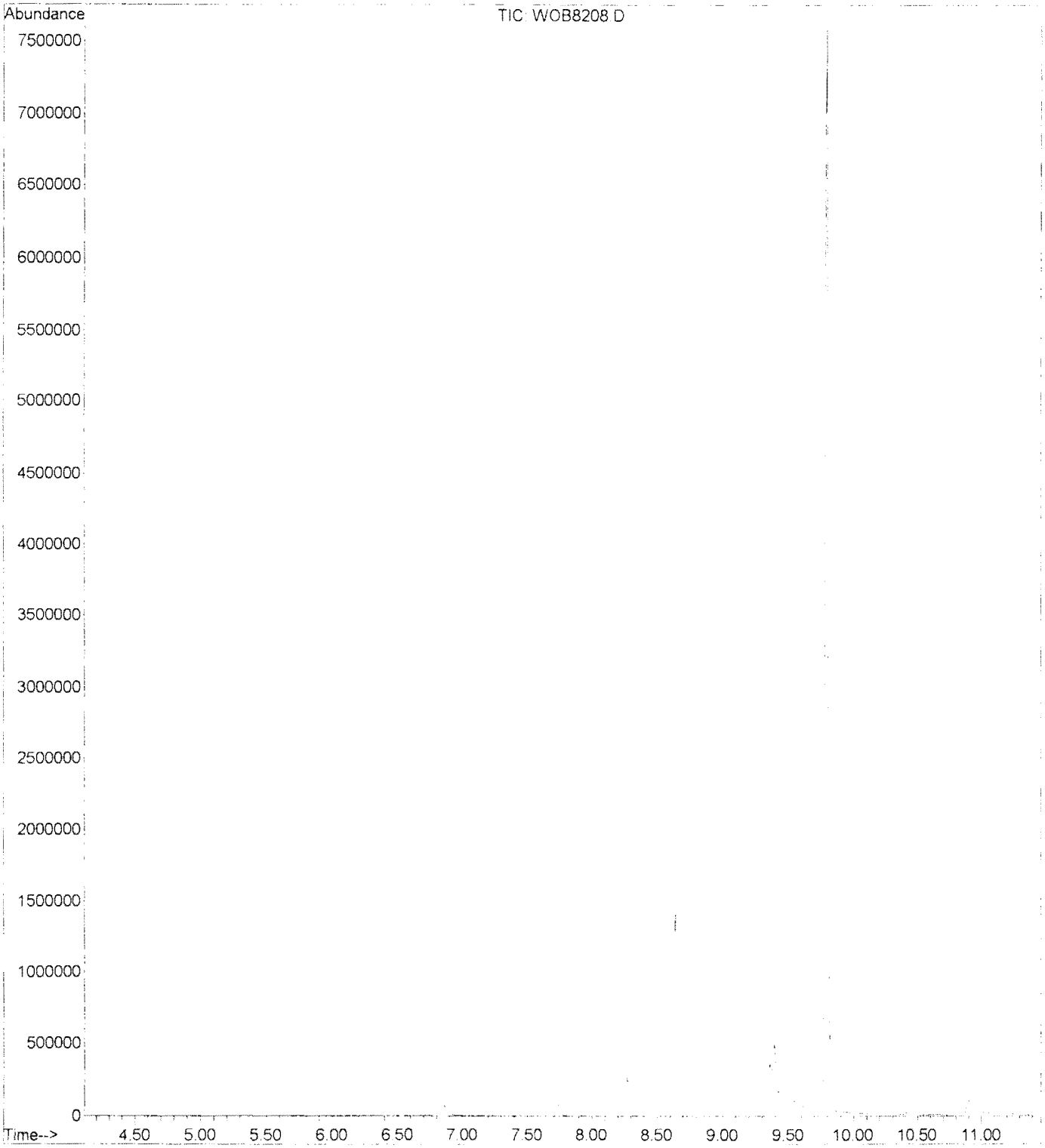
Chromatograms

File : C:\HPCHEM\1\DATA\VOF2299.D
Operator : Raphe HGS
Acquired : 9 Nov 2011 4:28 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP19-10059-5
Misc Info : SFS/FERO 09NOV11 1536 A24
Vial Number: 1

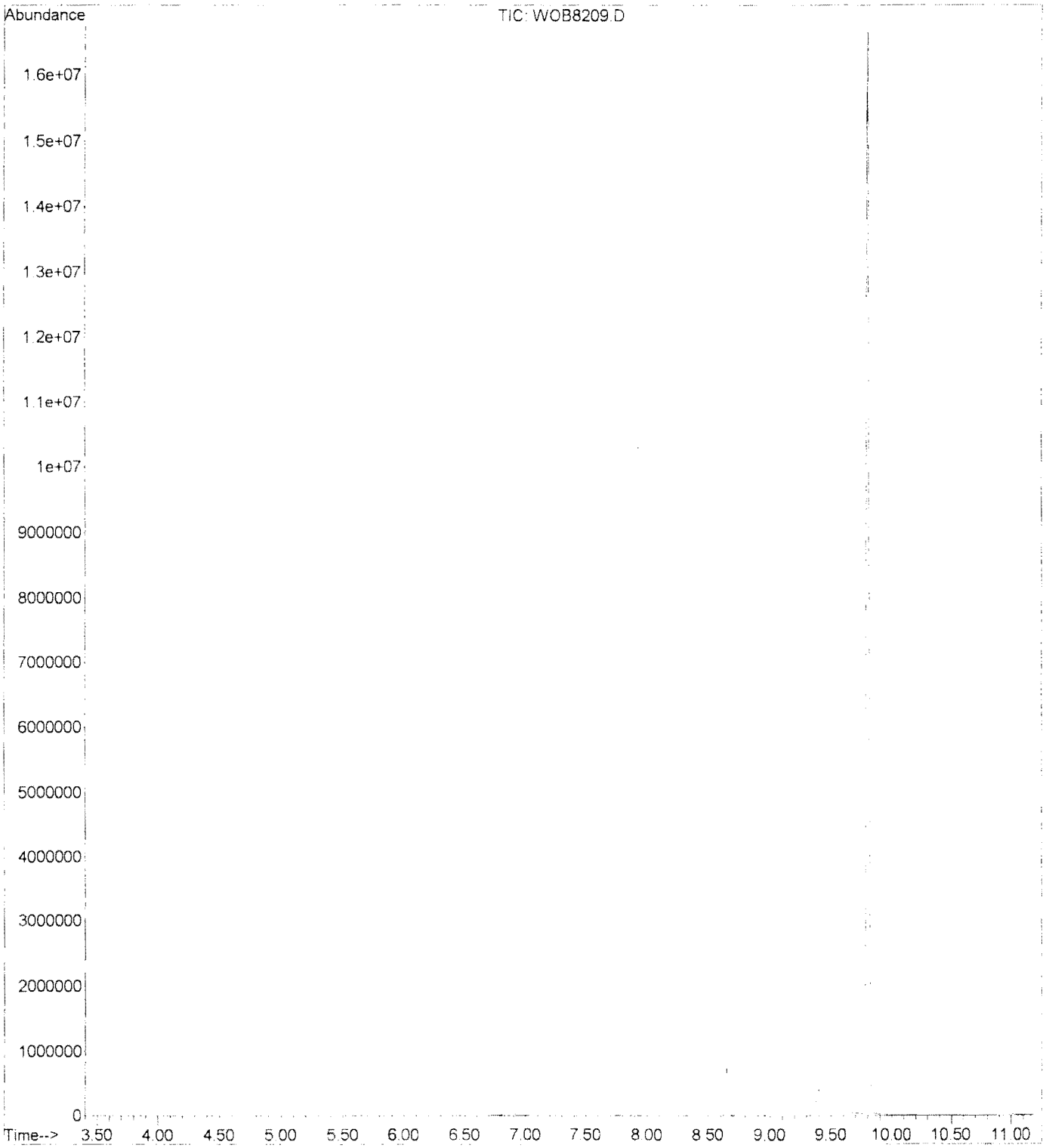


File : C:\HPCHEM\1\DATA\VOF2300.D
Operator : Raphe HGS
Acquired : 9 Nov 2011 4:45 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP19-10060-15
Misc Info : SFS/FERO 09NOV11 1540 A12
Vial Number: 1

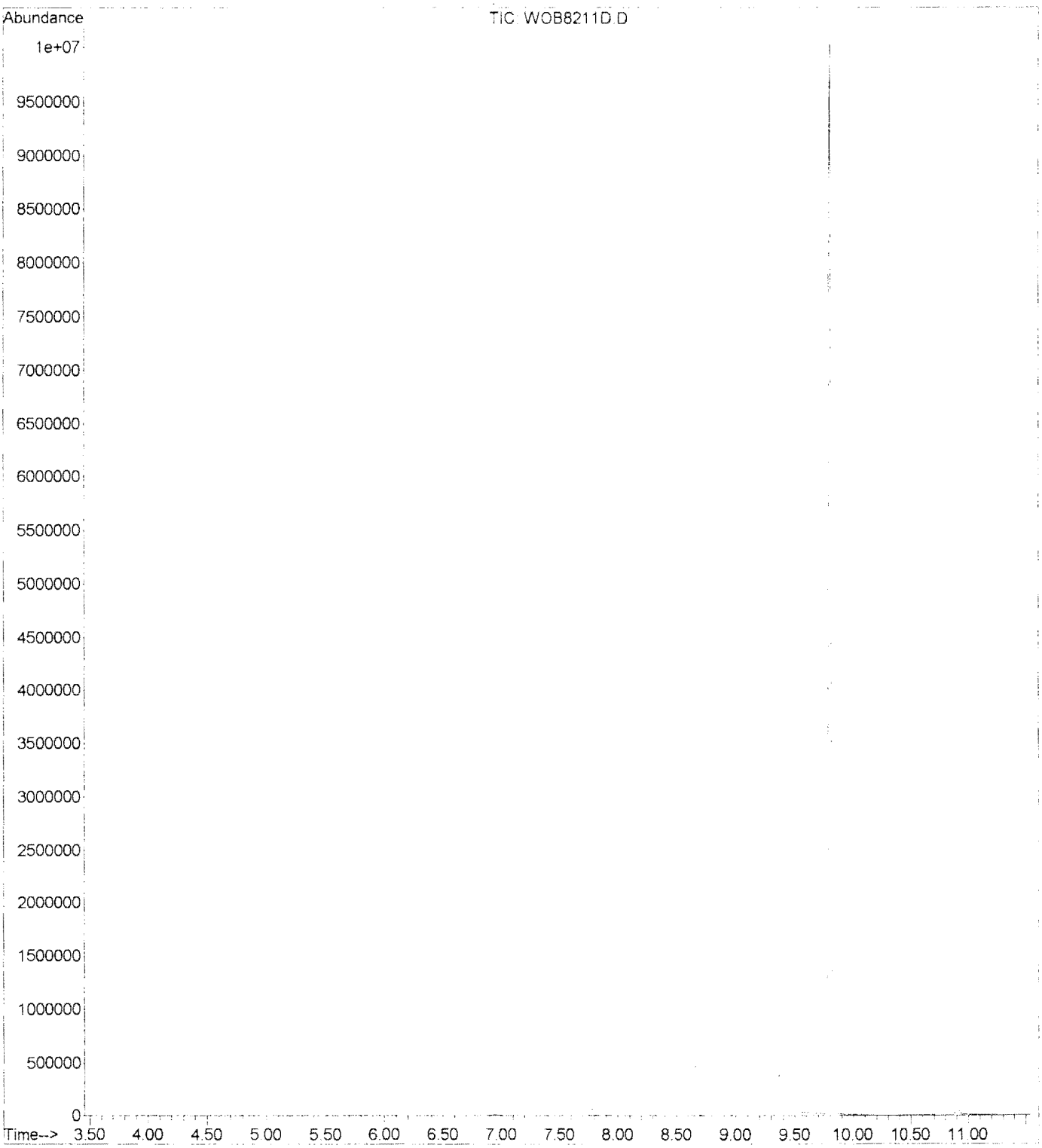
File : C:\HPCHEM\1\DATA\WOB8208.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 9:33 am using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP8-11903-5
Misc Info : SFS/FERO 04NOV11 0726 E6
Vial Number: 1



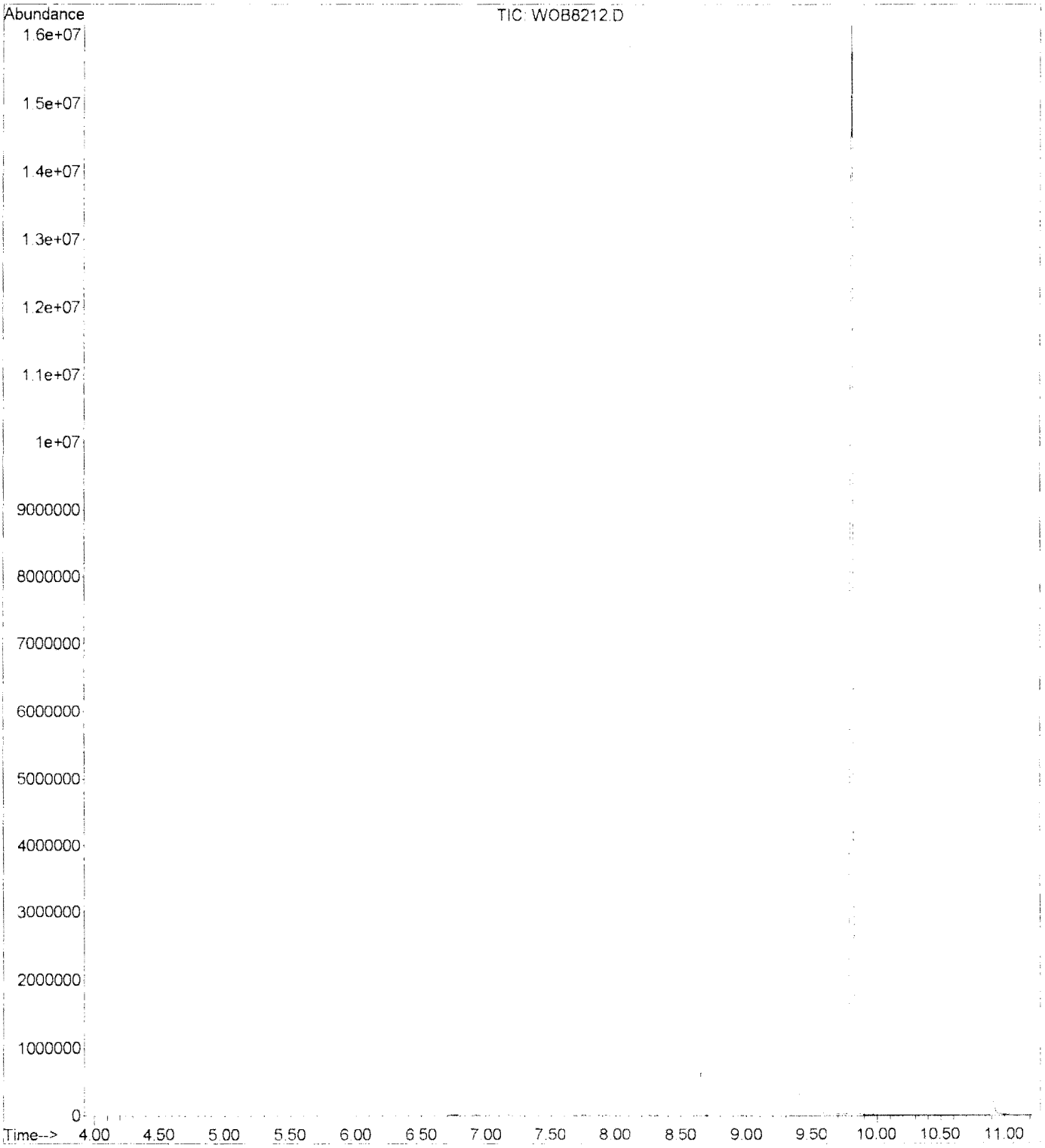
File : C:\HPCHEM\1\DATA\WOB8209.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 9:50 am using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP8-11904-15
Misc Info : SFS/FERO 04NOV11 0729 A18
Vial Number: 1



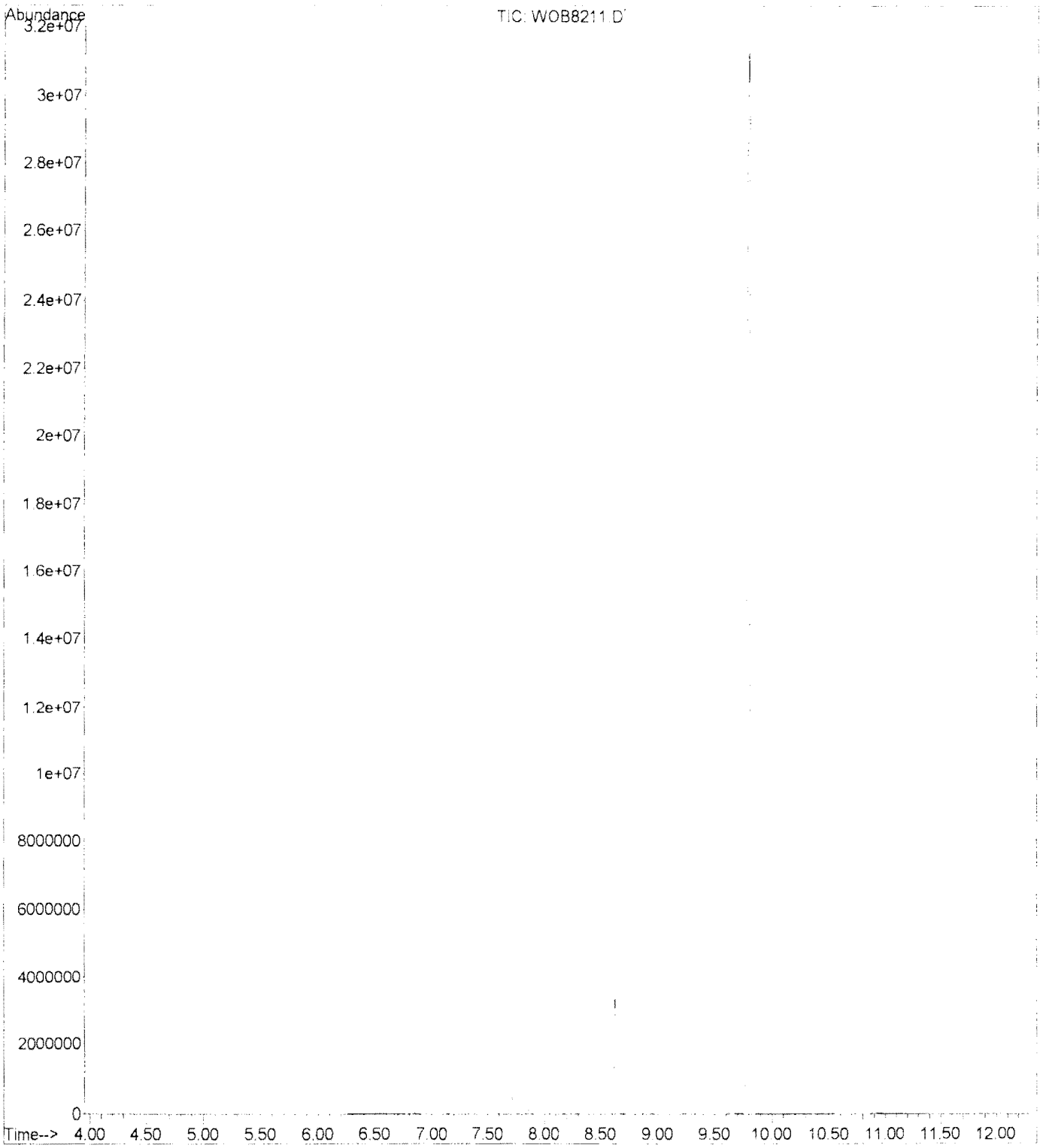
File : C:\HPCHEM\1\DATA\WOB8211D.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 11:32 am using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP17-11906-15 DF10
Misc Info : SFS/FERO 04NOV11 0800 N2
Vial Number: 1



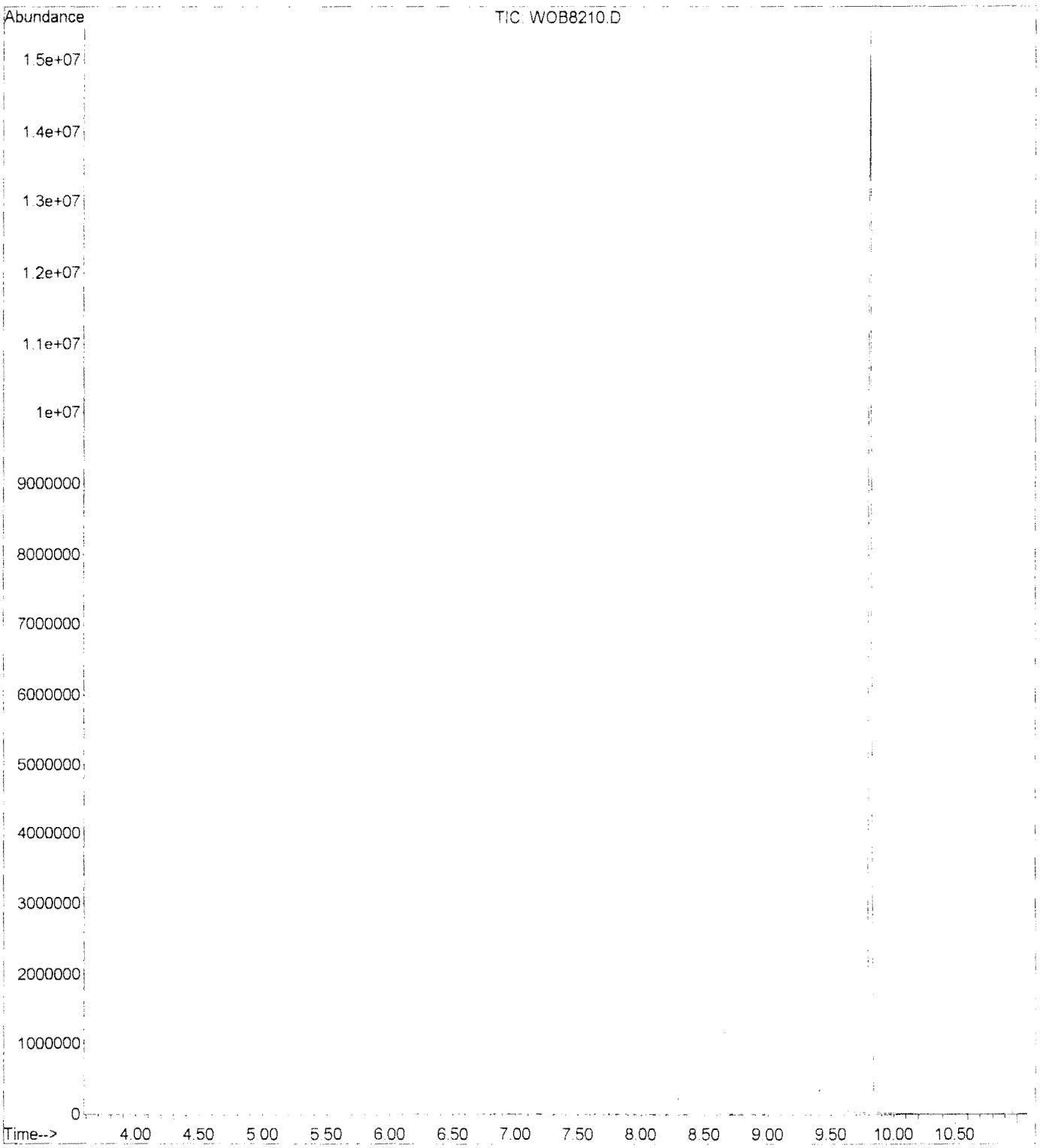
File : C:\HPCHEM\1\DATA\WOB8212.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 10:41 am using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP13-11907-5
Misc Info : SFS/FERO 04NOV11 0823 A99
Vial Number: 1



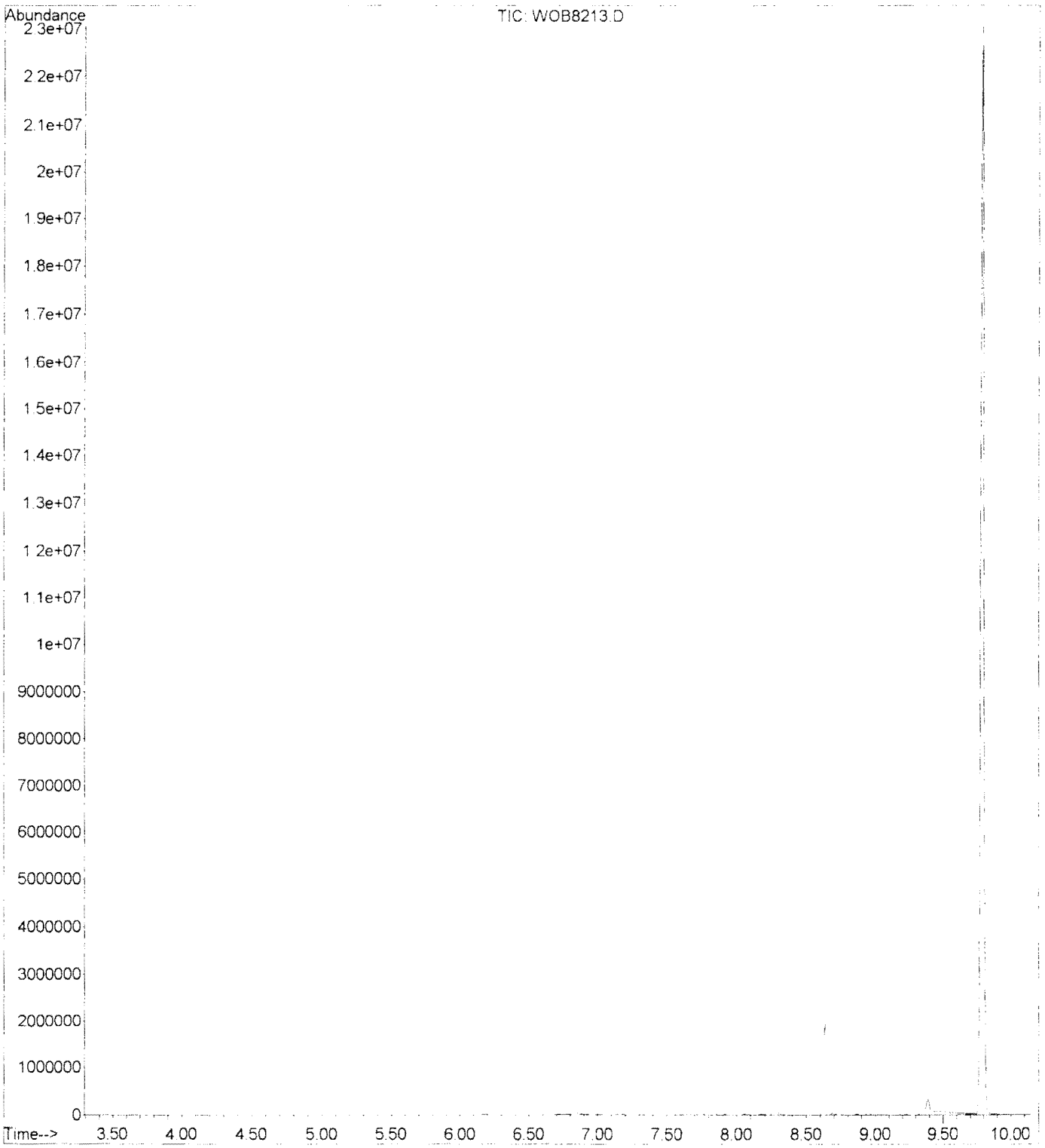
File : C:\HPCHEM\1\DATA\WOB8211.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 10:24 am using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP17-11906-15
Misc Info : SFS/FERO 04NOV11 0800 N2
Vial Number: 1



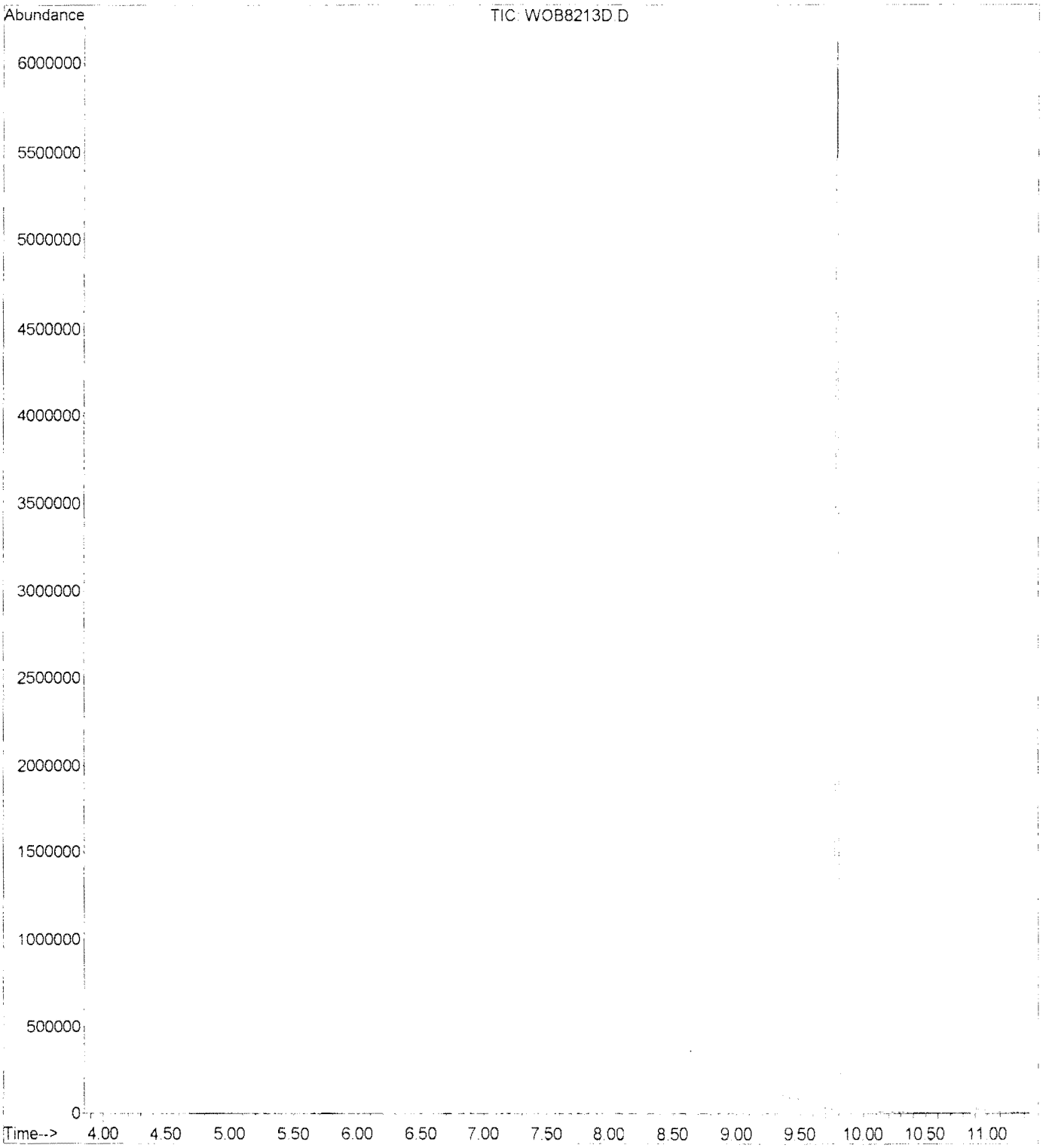
File : C:\HPCHEM\1\DATA\WOB8210.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 10:08 am using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP17-11905-5
Misc Info : SFS/FERO 04NOV11 0757 A28
Vial Number: 1



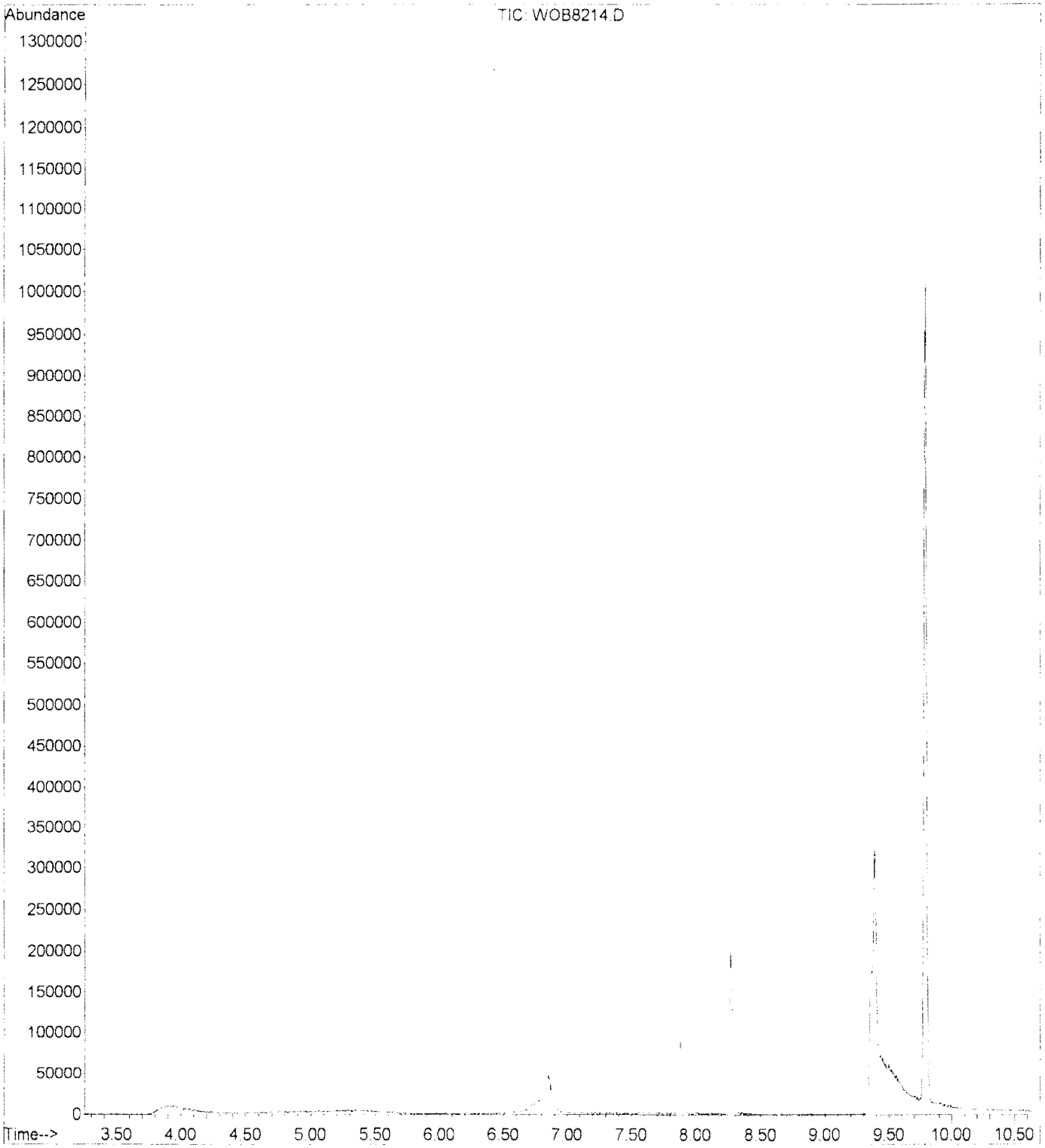
File : C:\HPCHEM\1\DATA\WOB8213.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 11:48 am using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP13-11908-15
Misc Info : SFS/FERO 04NOV11 0826 A22
Vial Number: 1



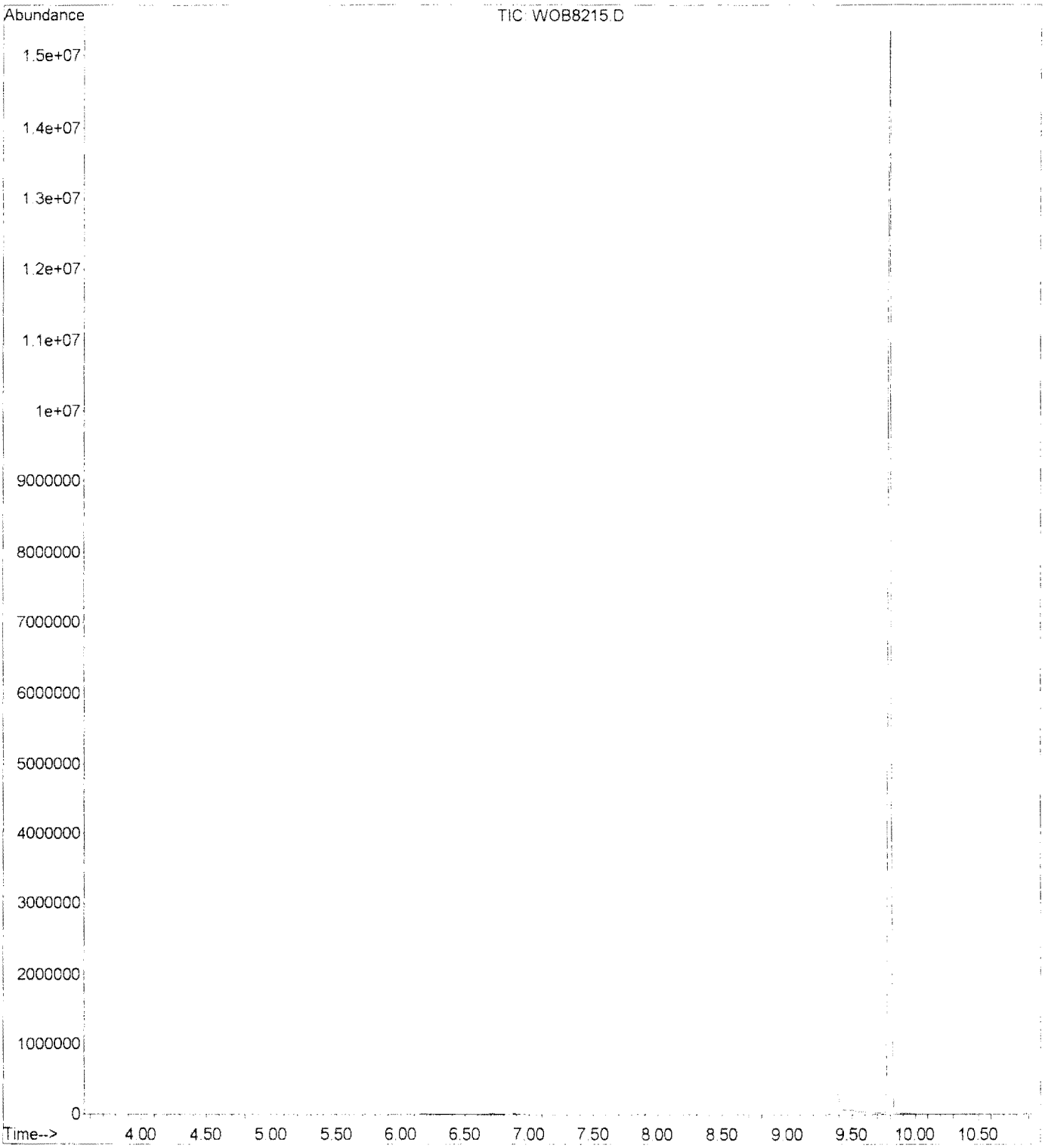
File : C:\HPCHEM\1\DATA\WOB8213D.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 12:01 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP13-11908-15 DF5
Misc Info : SFS/FERO 04NOV11 0826 A22
Vial Number: 1



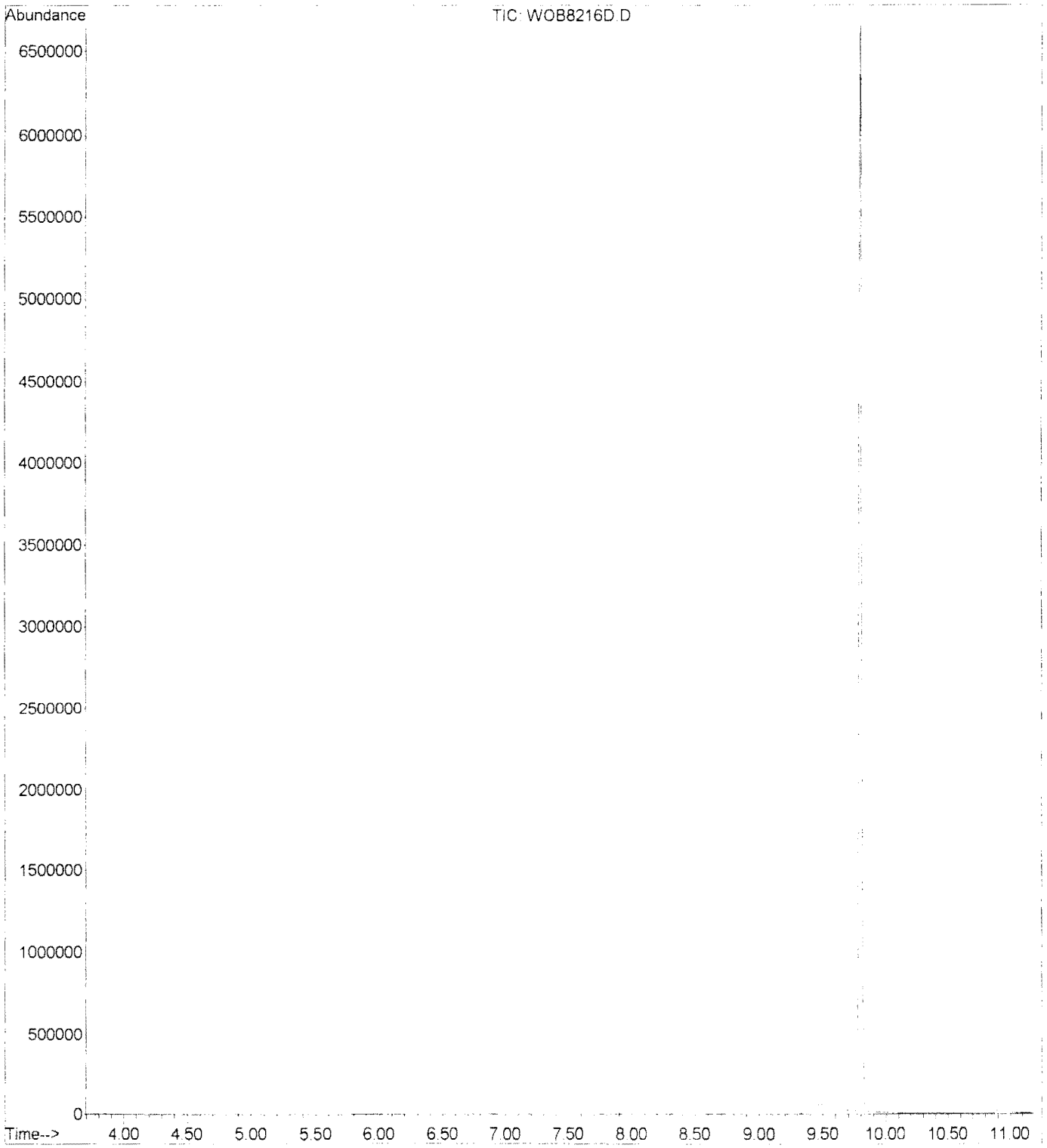
File : C:\HPCHEM\1\DATA\WOB8214.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 12:17 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP6-11909-5 LF
Misc Info : SFS/FERO 04NOV11 0846 H31
Vial Number: 1



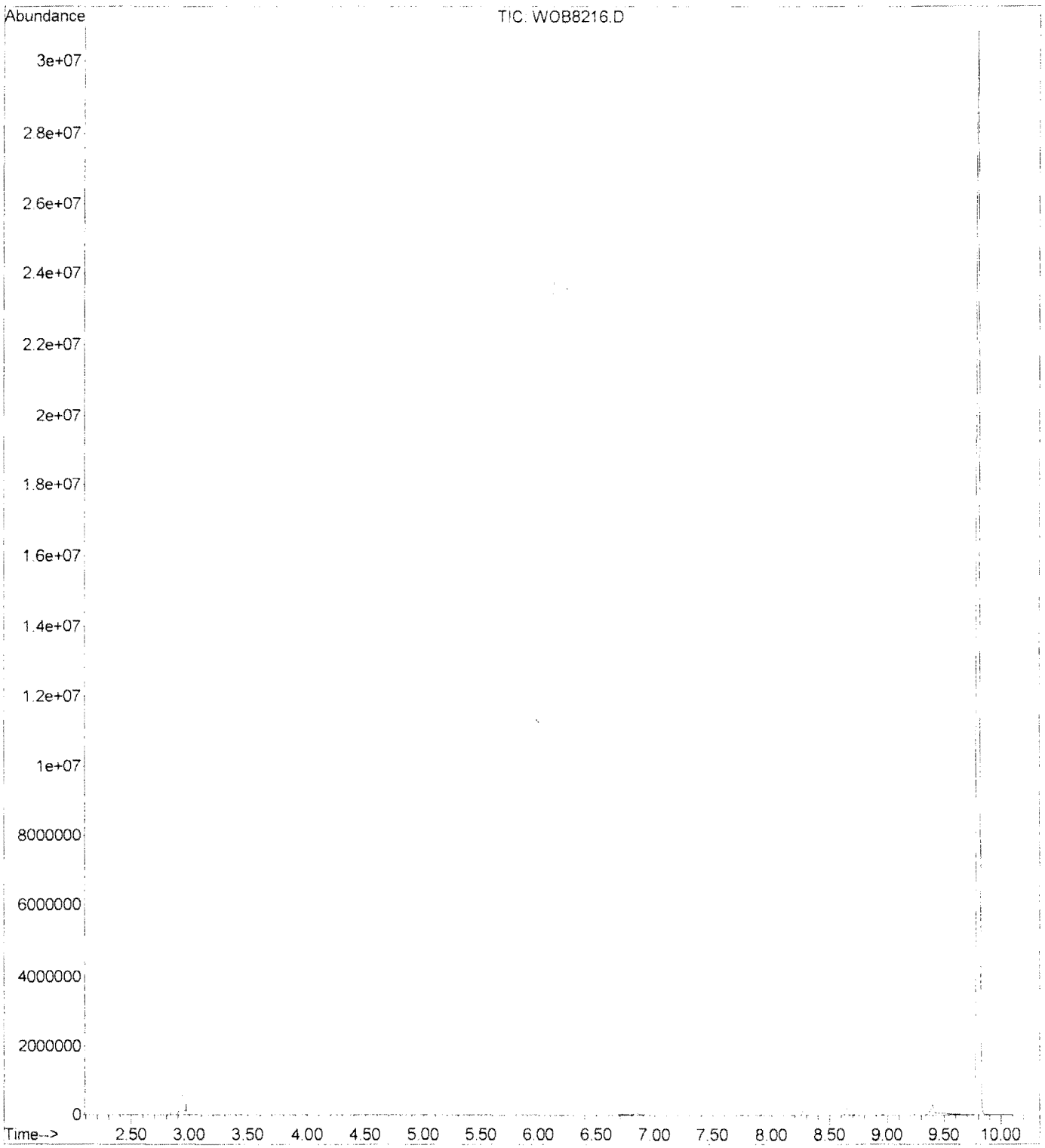
File : C:\HPCHEM\1\DATA\WOB8215.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 12:32 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP6-11910-15
Misc Info : SFS/FERO 04NOV11 0850 Y8
Vial Number: 1



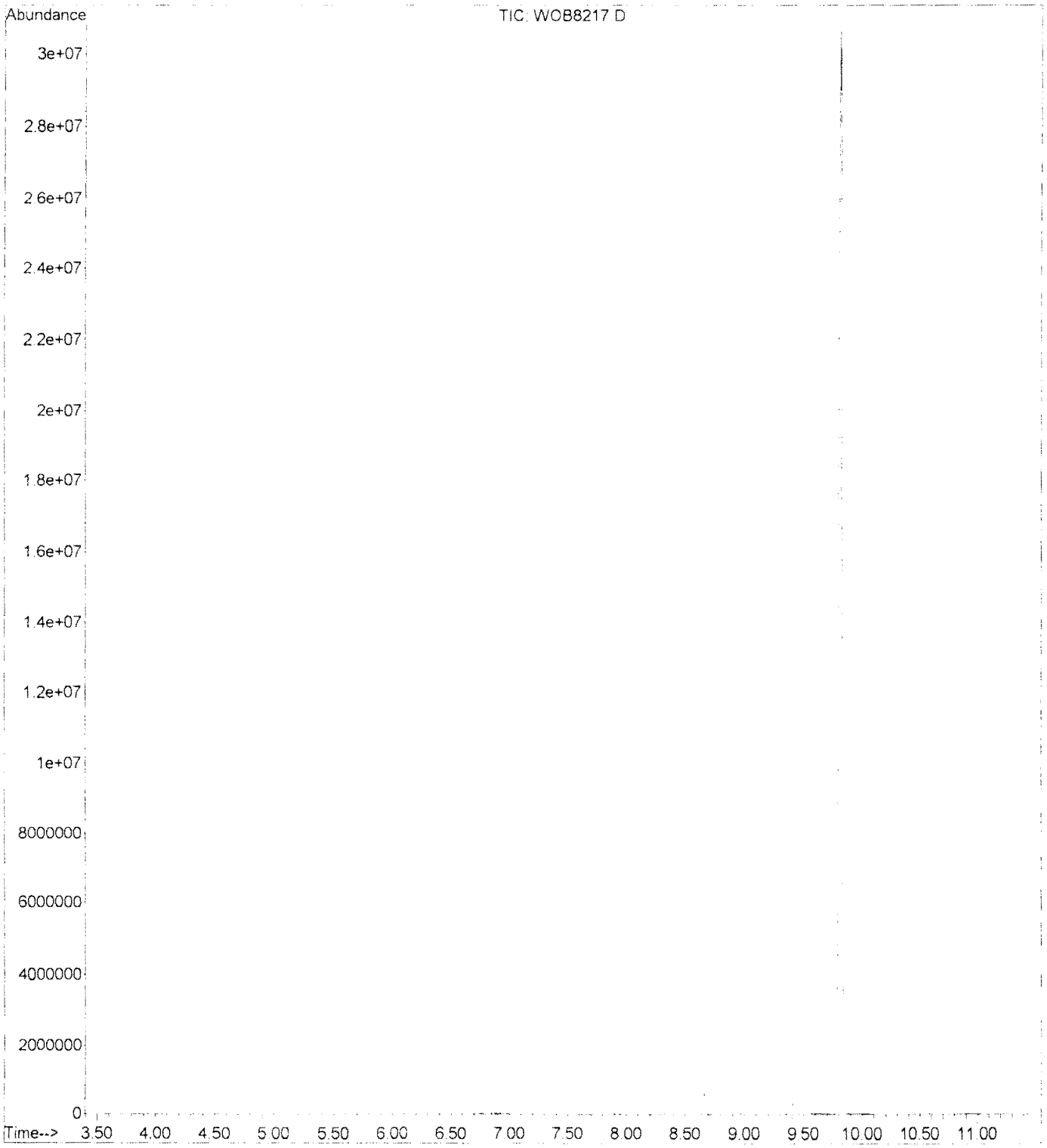
File : C:\HPCHEM\1\DATA\WOB8216D.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 12:59 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP4-11911-15 DF10
Misc Info : SFS/FERO 04NOV11 0855 H3
Vial Number: 1



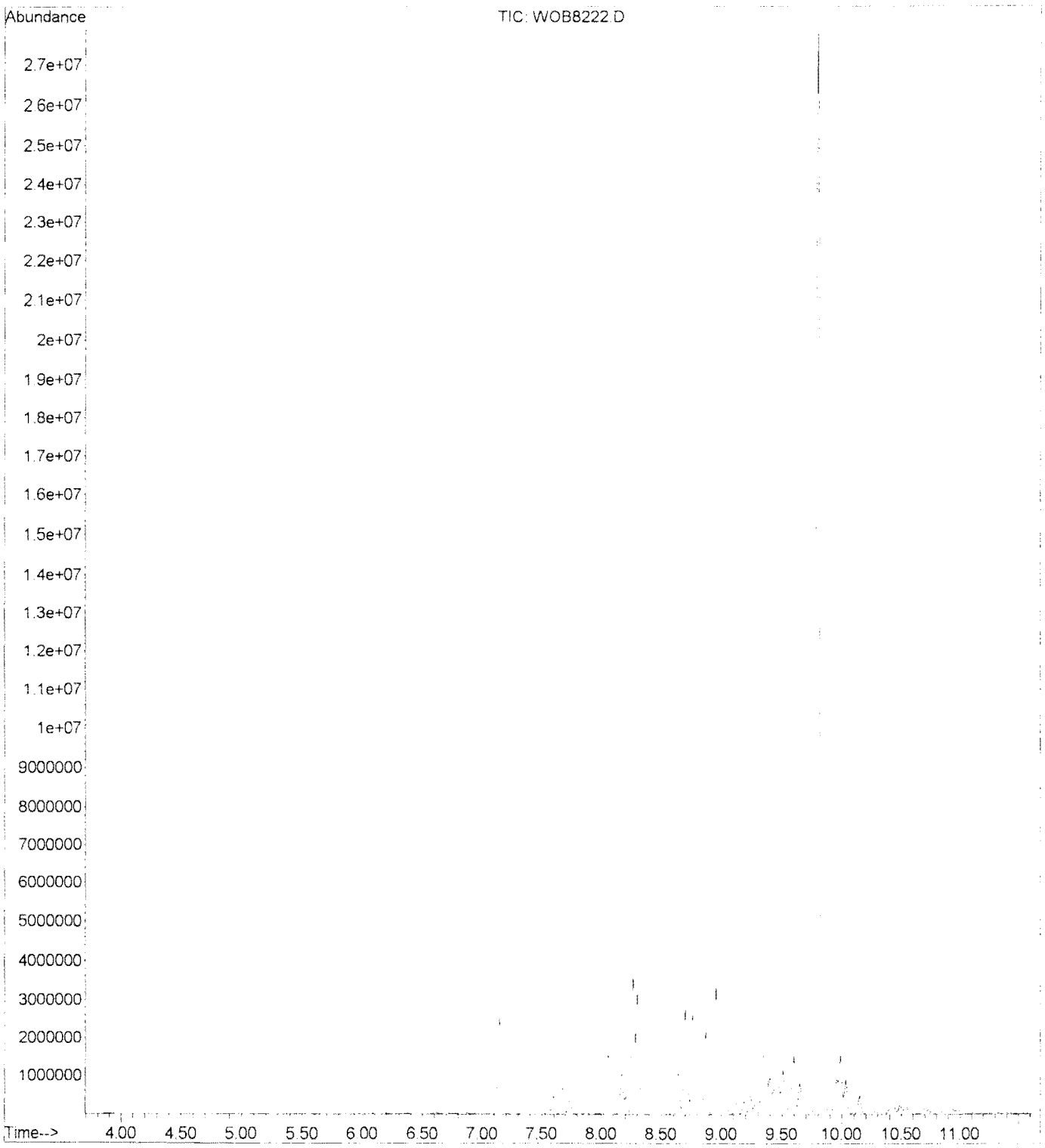
File : C:\HPCHEM\1\DATA\WOB8216.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 12:46 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP4-11911-15
Misc Info : SFS/FERO 04NOV11 0855 H3
Vial Number: 1



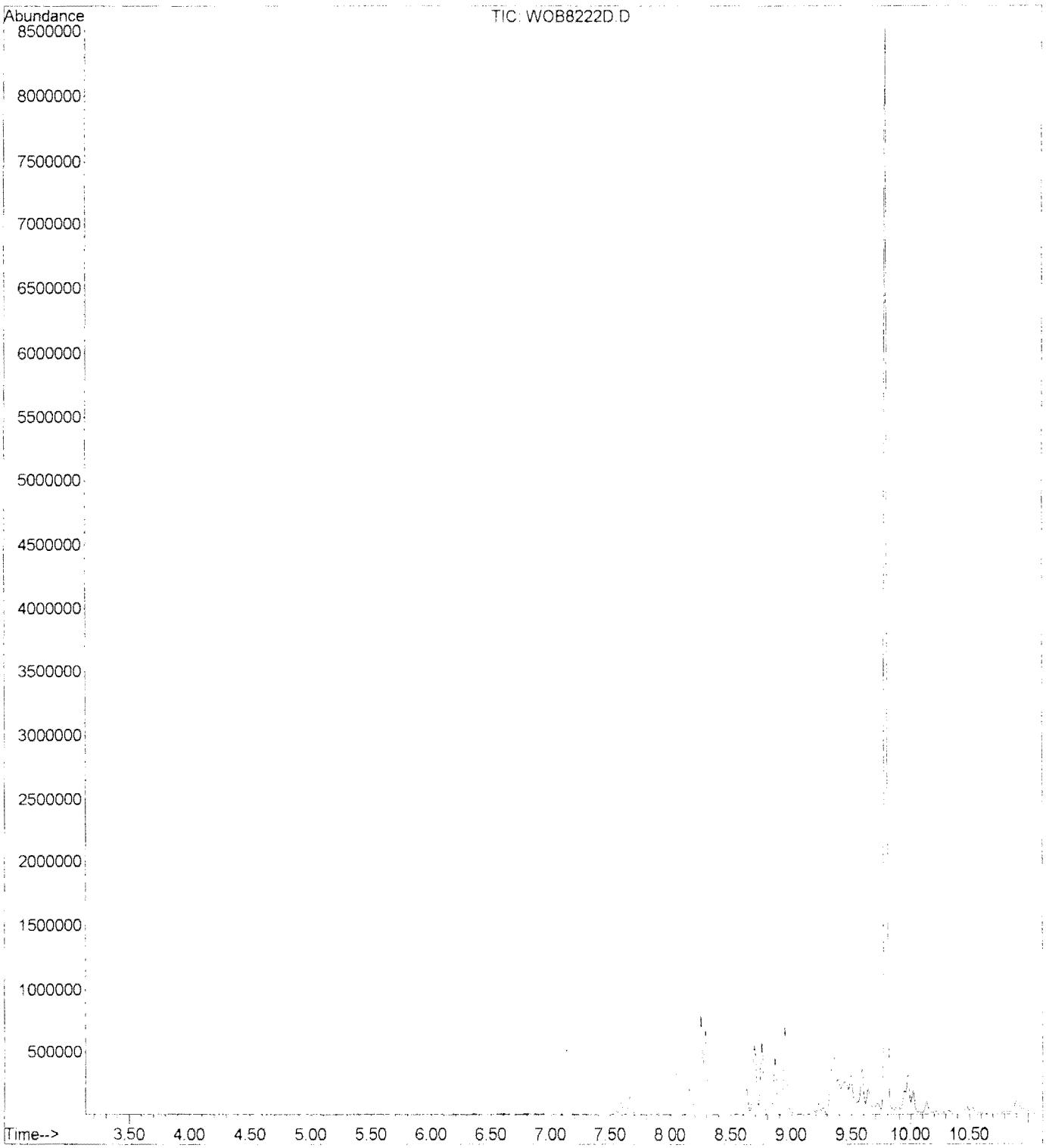
File : C:\HPCHEM\1\DATA\WOB8217.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 1:18 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP15-11912-15
Misc Info : SFS/FERO 04NOV11 1010 A7
Vial Number: 1



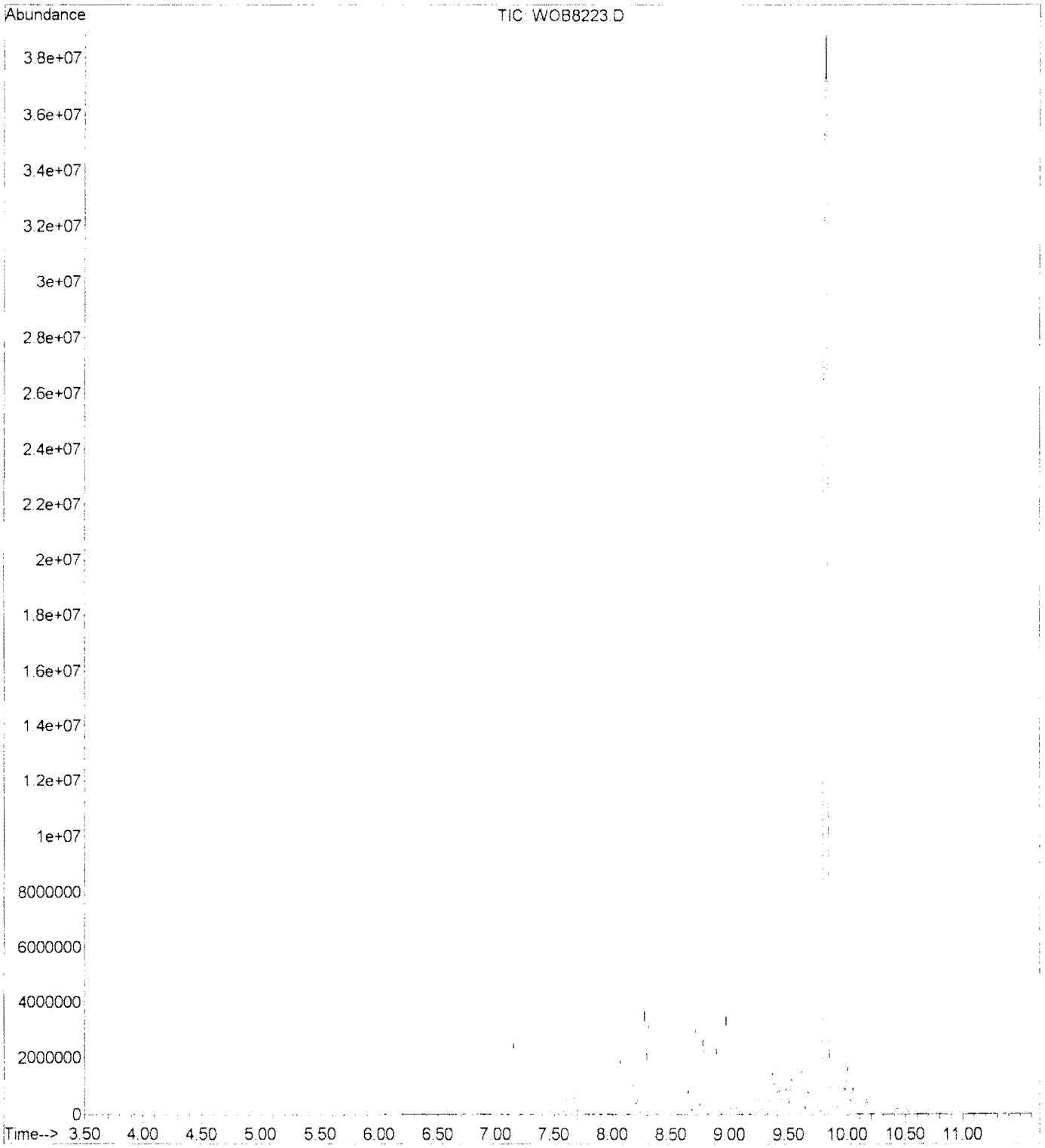
File : C:\HPCHEM\1\DATA\WOB8222.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 11:32 am using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP2-11914-5
Misc Info : SFS/FERO 05NOV11 1011 X19
Vial Number: 1



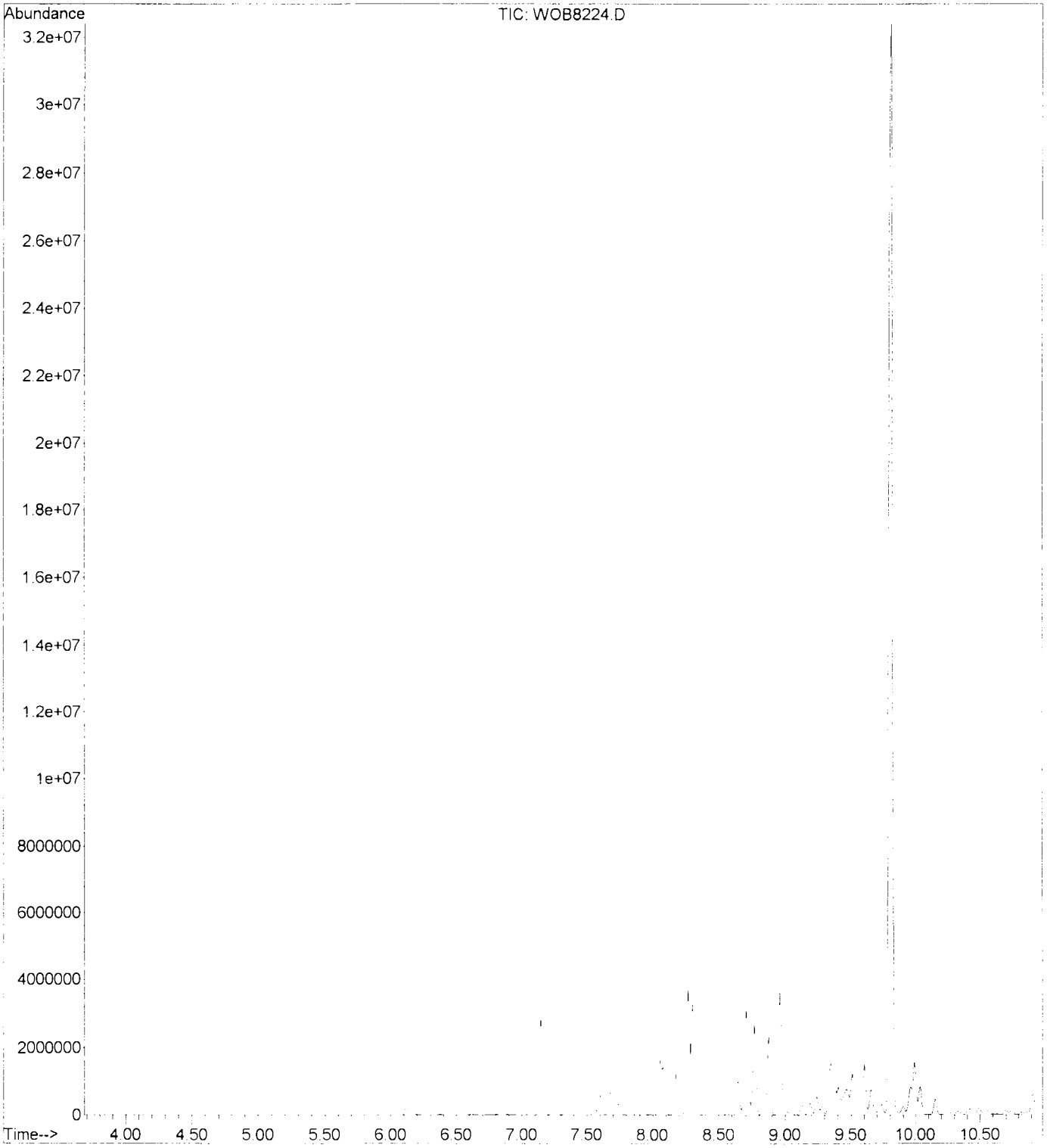
File : C:\HPCHEM\1\DATA\WOB8222D.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 11:50 am using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP2-11914-5 DF5
Misc Info : SFS/FERO 05NOV11 1011 X19
Vial Number: 1



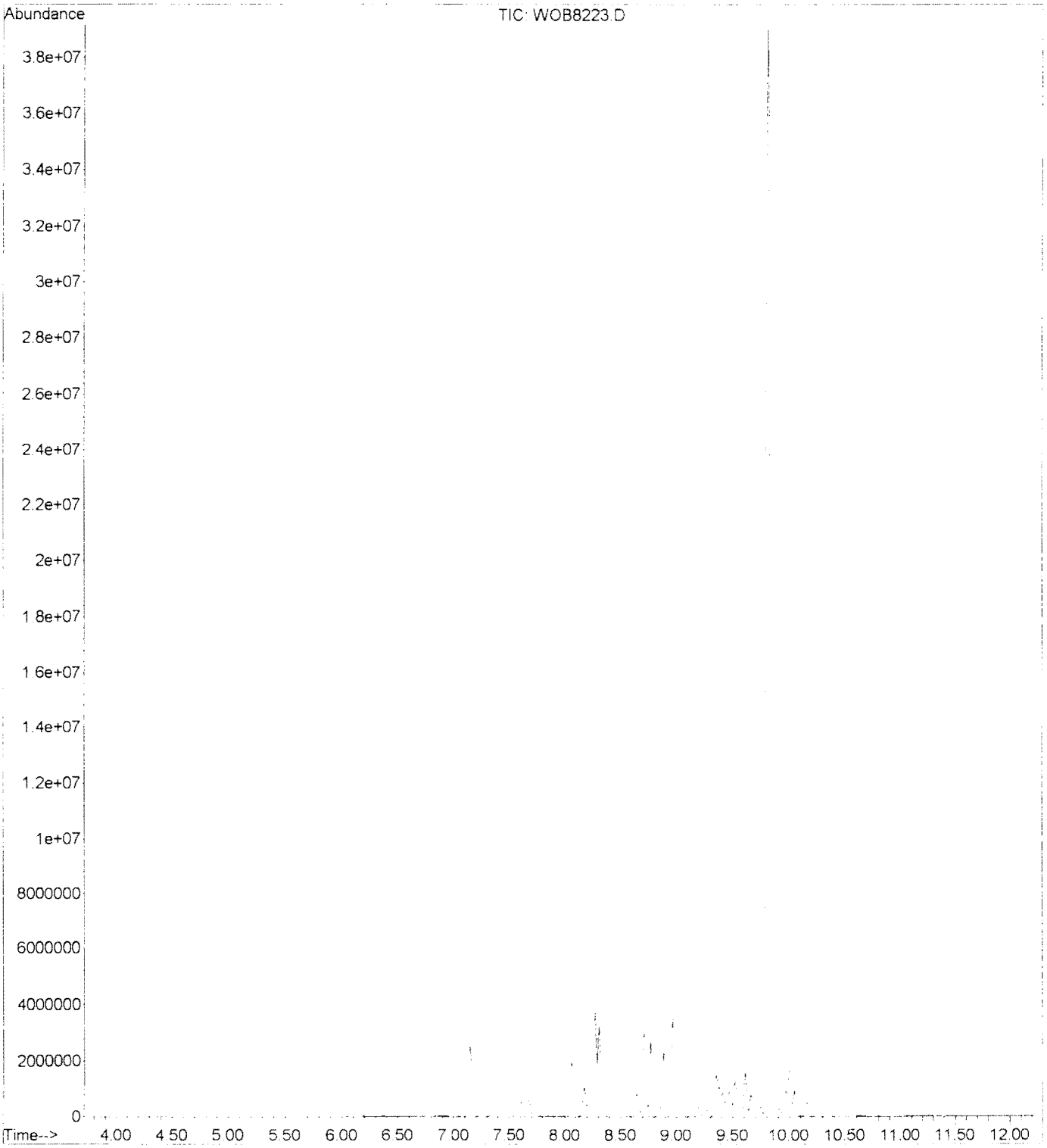
File : C:\HPCHEM\1\DATA\WOB8223.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 12:05 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP2-11915-15
Misc Info : SFS/FERO 05NOV11 1015 Y8
Vial Number: 1



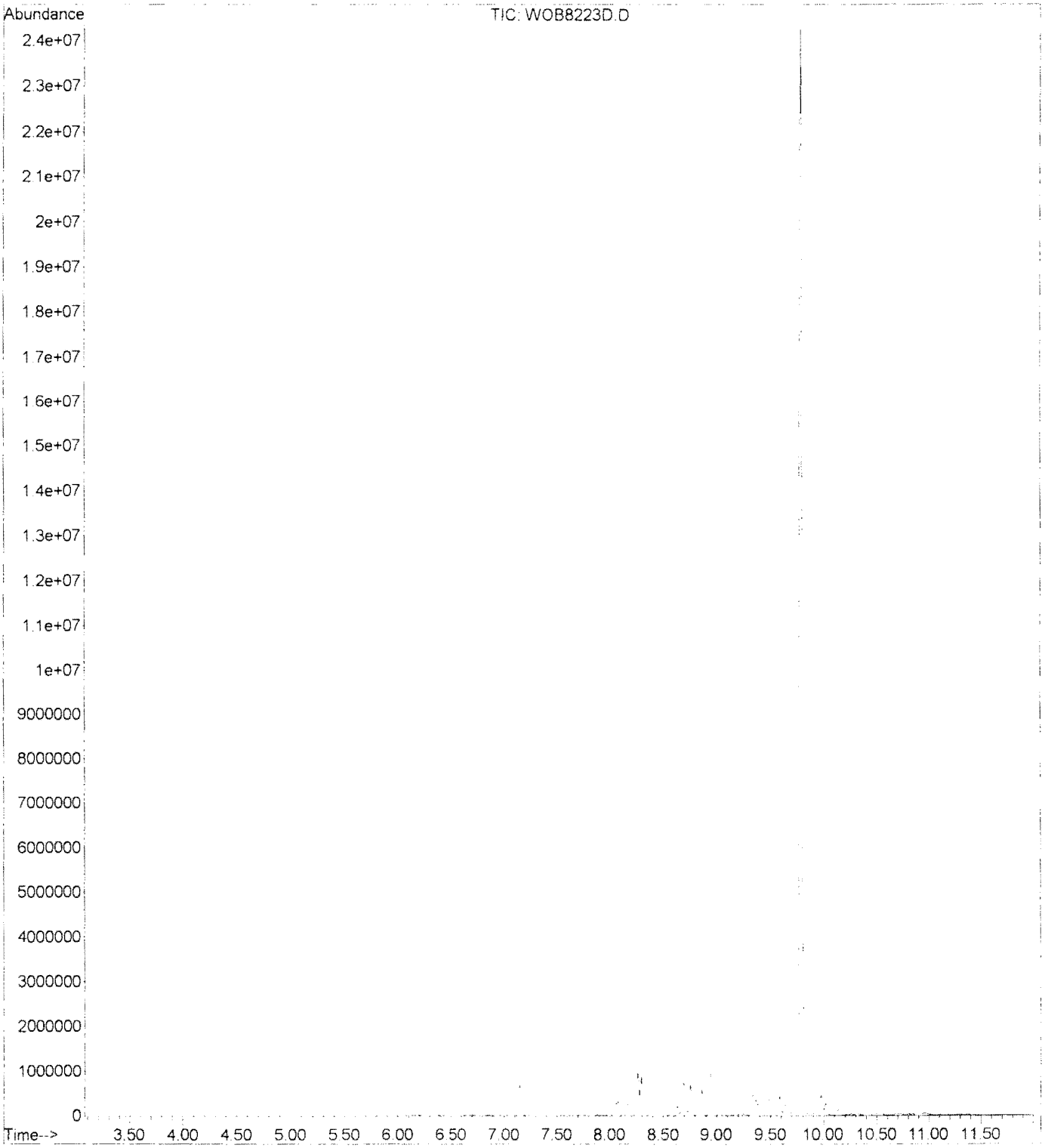
File : C:\HPCHEM\1\DATA\WOB8224.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 12:24 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP2-11916-30
Misc Info : SFS/FERO 05NOV11 1020 F1
Vial Number: 1



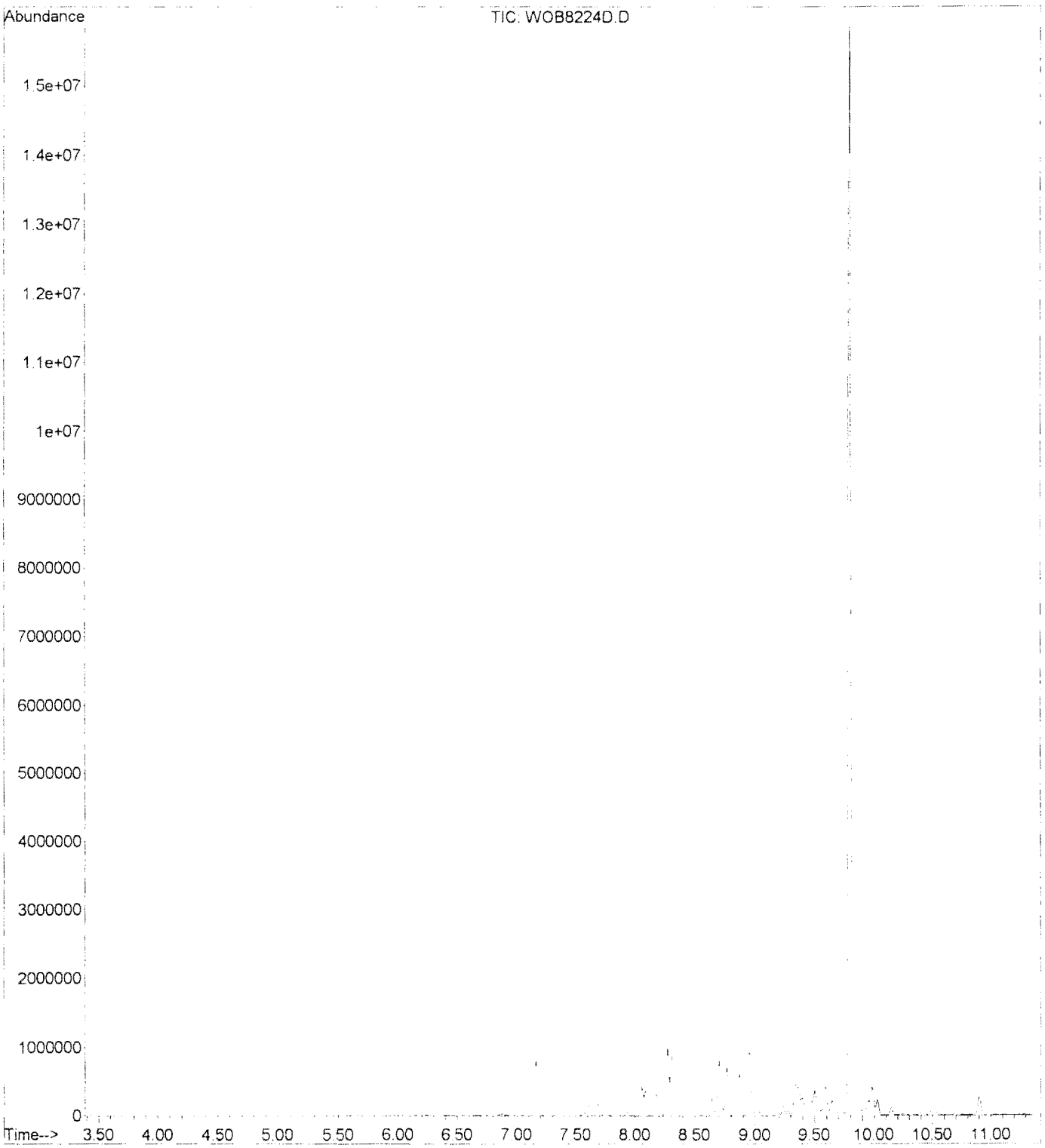
File : C:\HPCHEM\1\DATA\WOB8223.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 12:05 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP2-11915-15
Misc Info : SFS/FERO 05NOV11 1015 Y8
Vial Number: 1



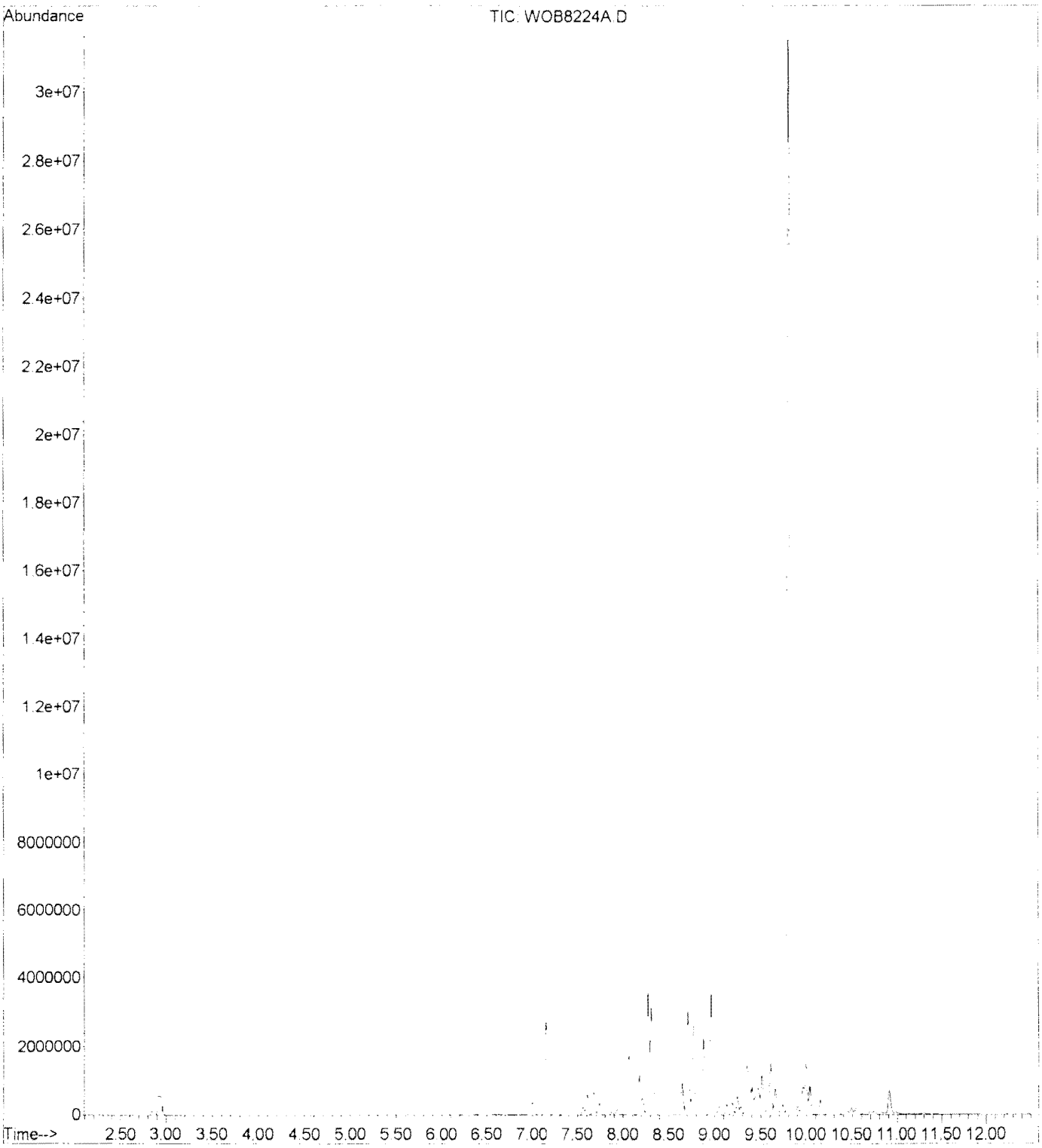
File : C:\HPCHEM\1\DATA\WOB8223D.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 12:43 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP2-11915-15 DF5
Misc Info : SFS/FERO 05NOV11 1015 Y8
Vial Number: 1



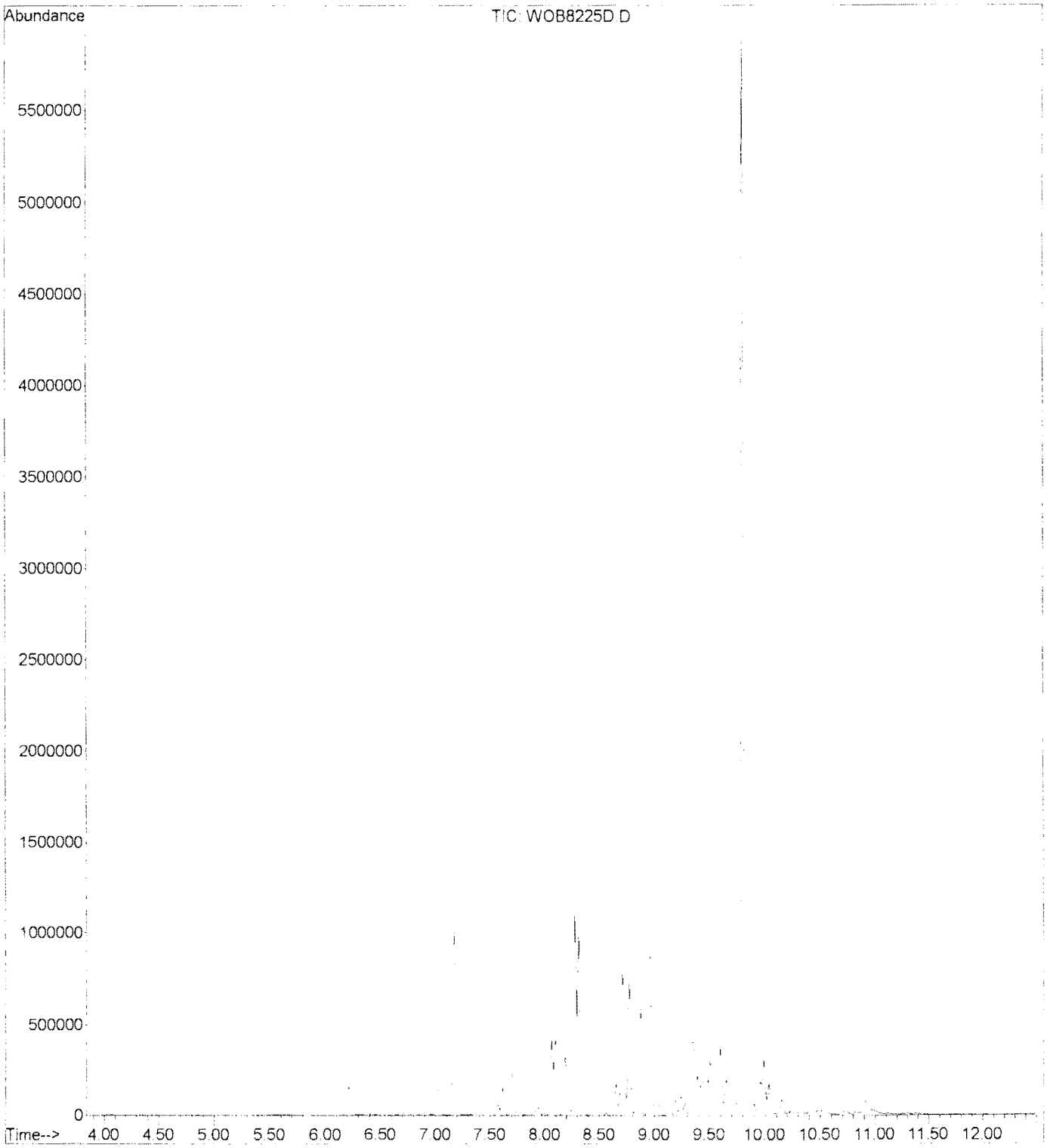
File : C:\HPCHEM\1\DATA\WOB8224D.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 1:19 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP2-11916-30 DF5
Misc Info : SFS/FERO 05NOV11 1020 F1
Vial Number: 1



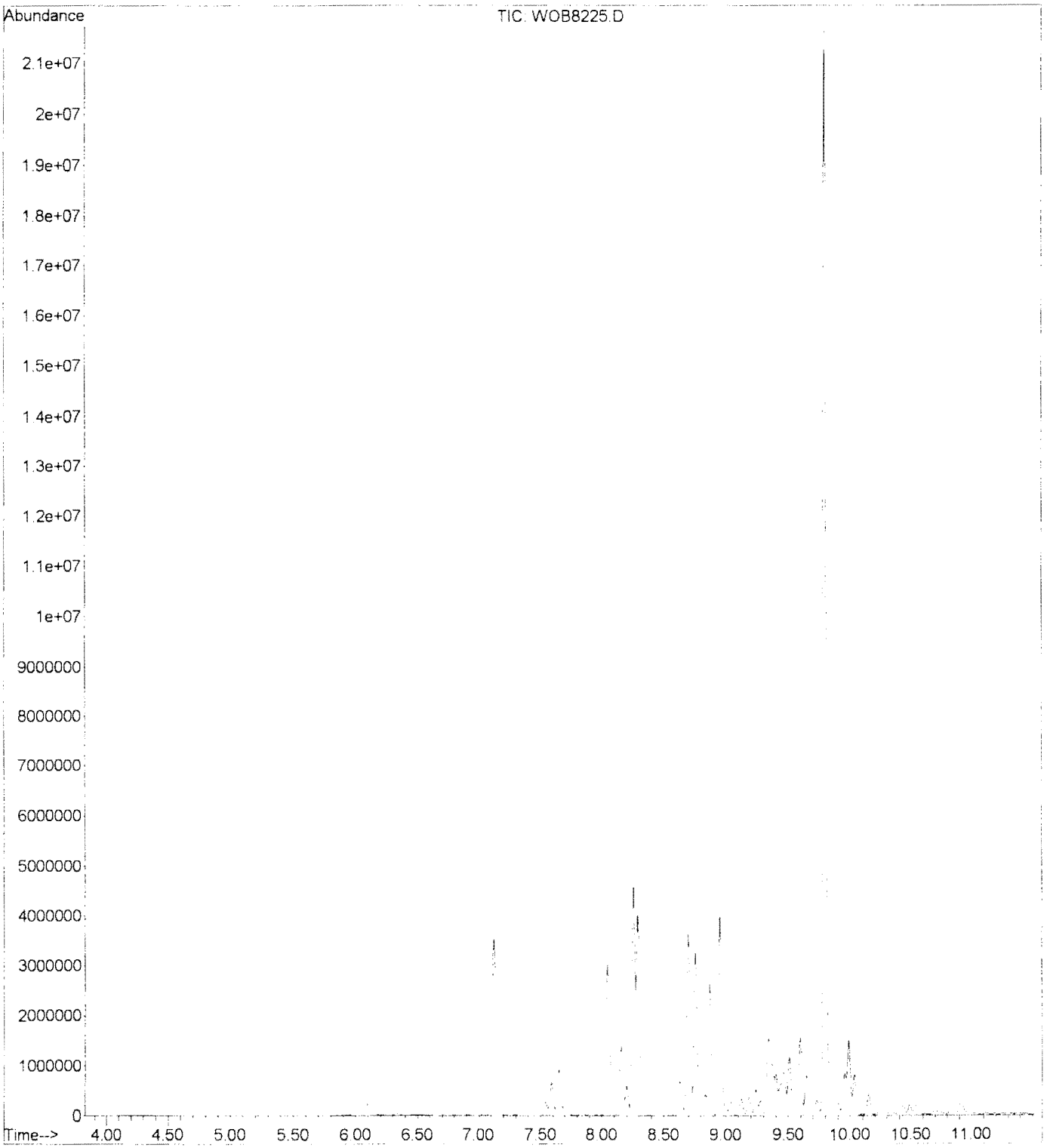
File : C:\HPCHEM\1\DATA\WOB8224A.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 1:00 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP2-11916-30
Misc Info : SFS/FERO 05NOV11 1020 F1
Vial Number: 1



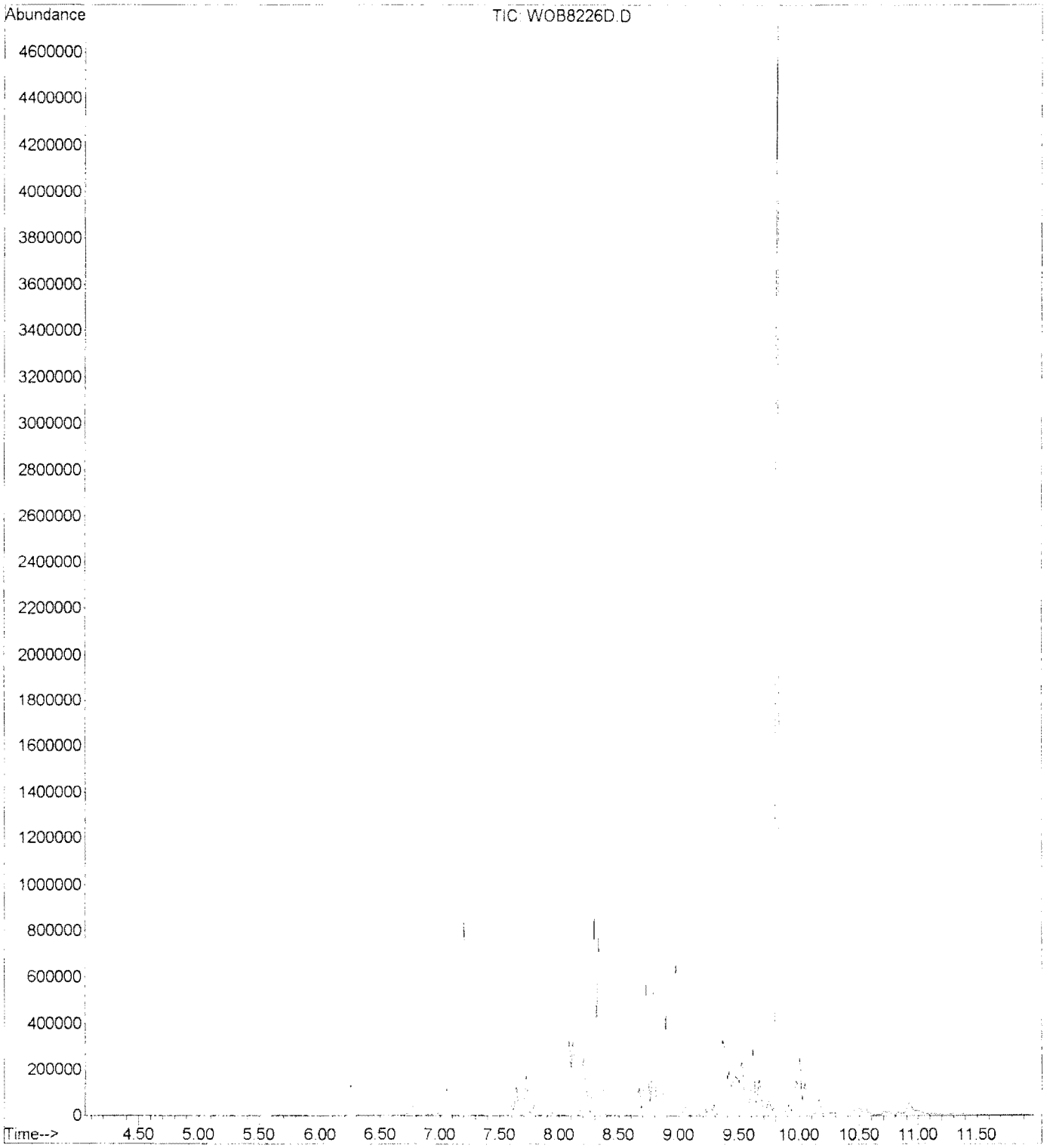
File : C:\HPCHEM\1\DATA\WOB8225D.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 1:55 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP2-11917-60 DF5
Misc Info : SFS/FERO 05NOV11 1030 A15
Vial Number: 1



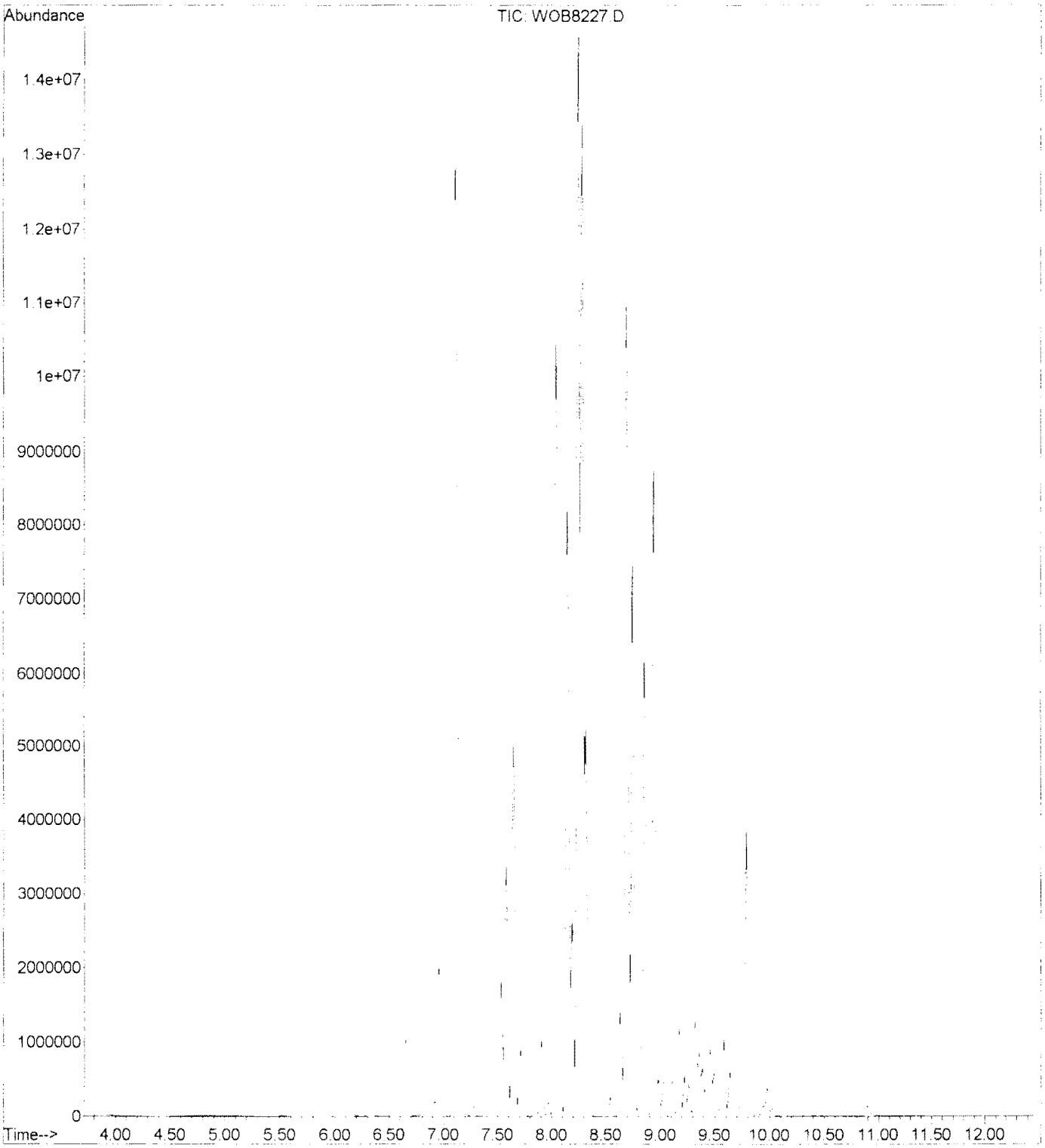
File : C:\HPCHEM\1\DATA\WOB8225.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 1:35 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP2-11917-60
Misc Info : SFS/FERO 05NOV11 1030 A15
Vial Number: 1



File : C:\HPCHEM\1\DATA\WOB8226D.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 2:37 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP2-11918-90
Misc Info : SFS/FERO 05NOV11 1040 R8
Vial Number: 1

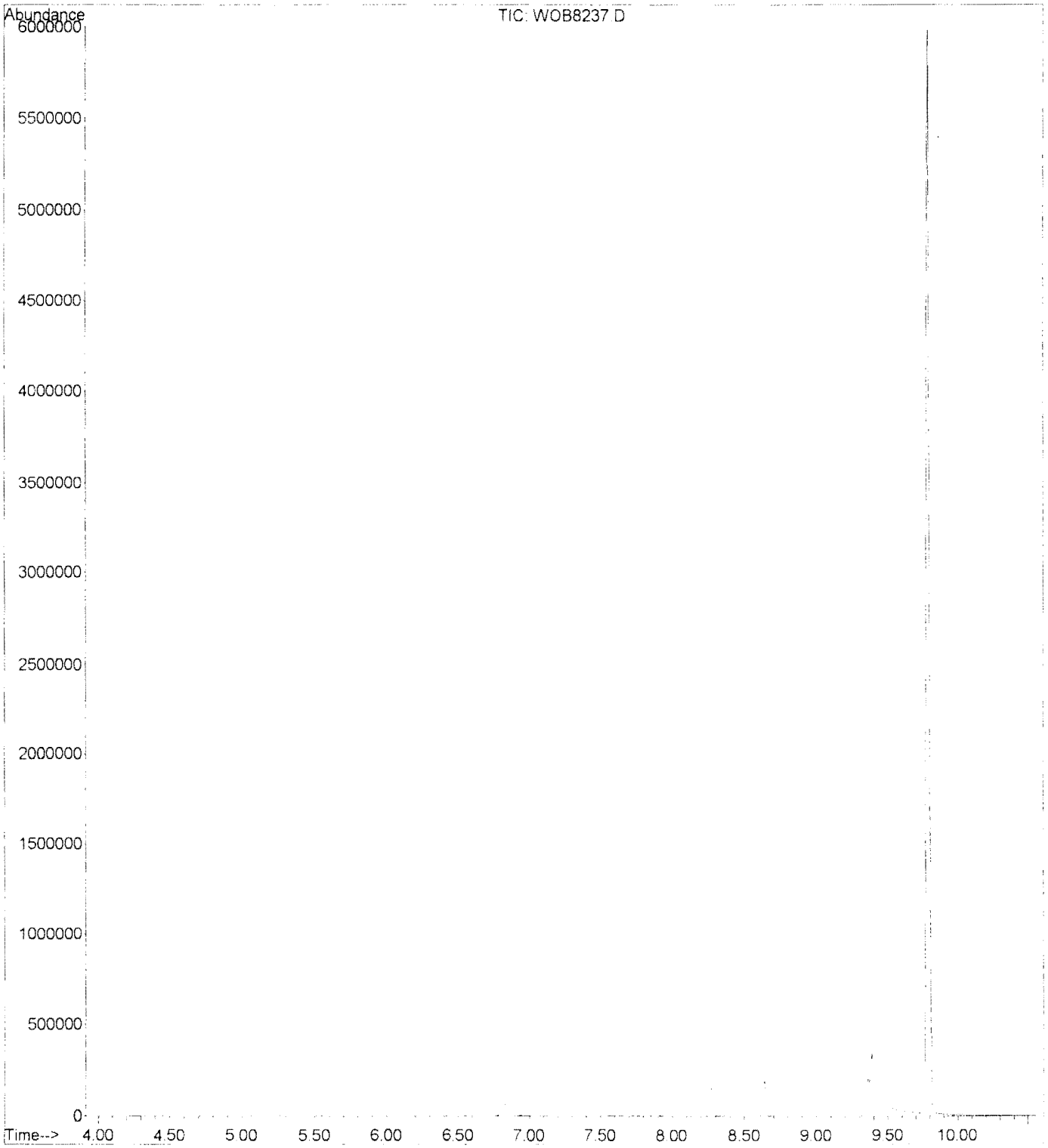


File : C:\HPCHEM\1\DATA\WOB8227.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 2:54 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP4-11919-90
Misc Info : SFS/FERO 05NOV11 1140 A3
Vial Number: 1

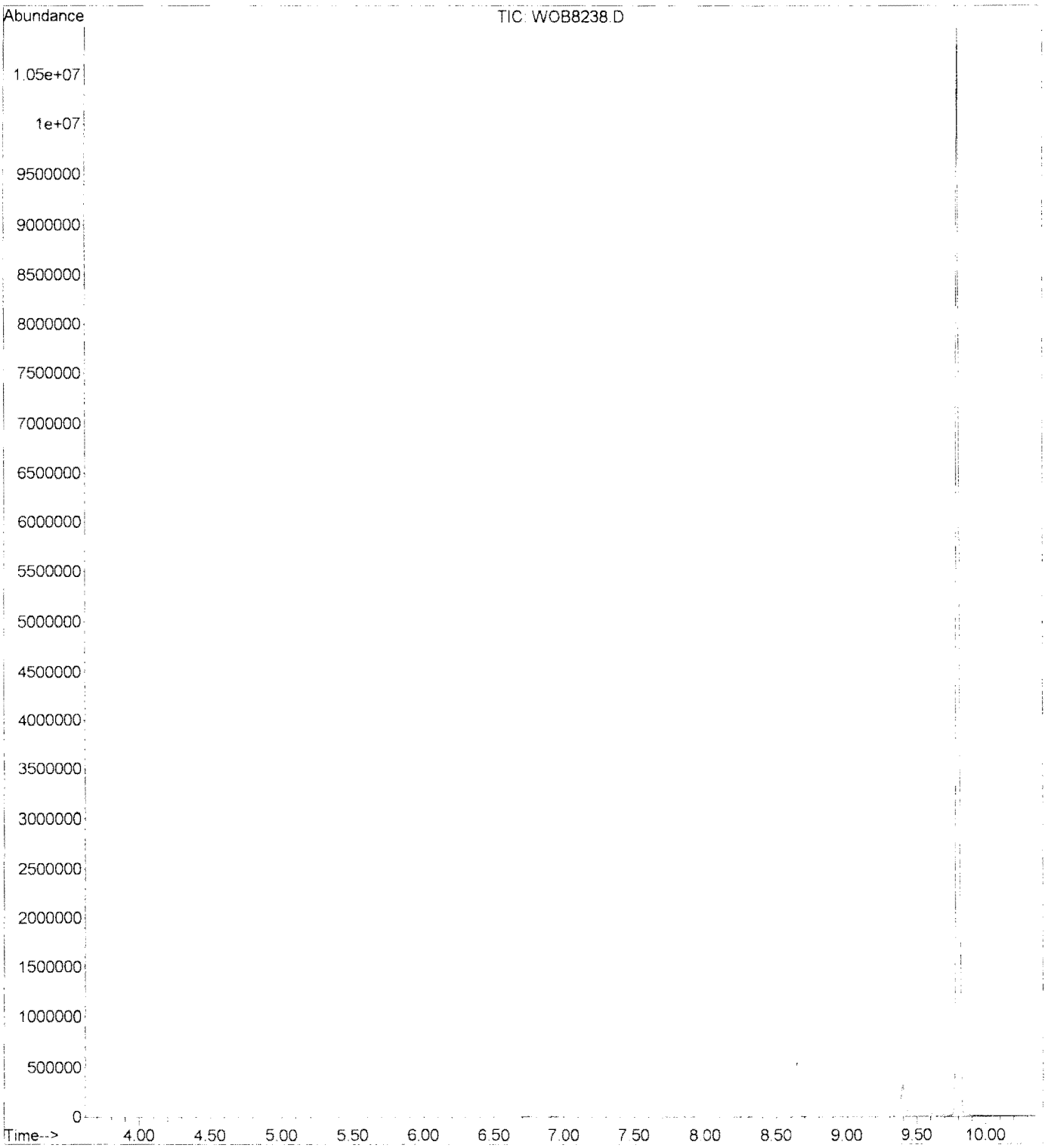


File : C:\HPCHEM\1\DATA\WOB8228.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 3:10 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FVP4-11920-60
Misc Info : SFS/FERO 05NOV11 1130 G1
Vial Number: 1

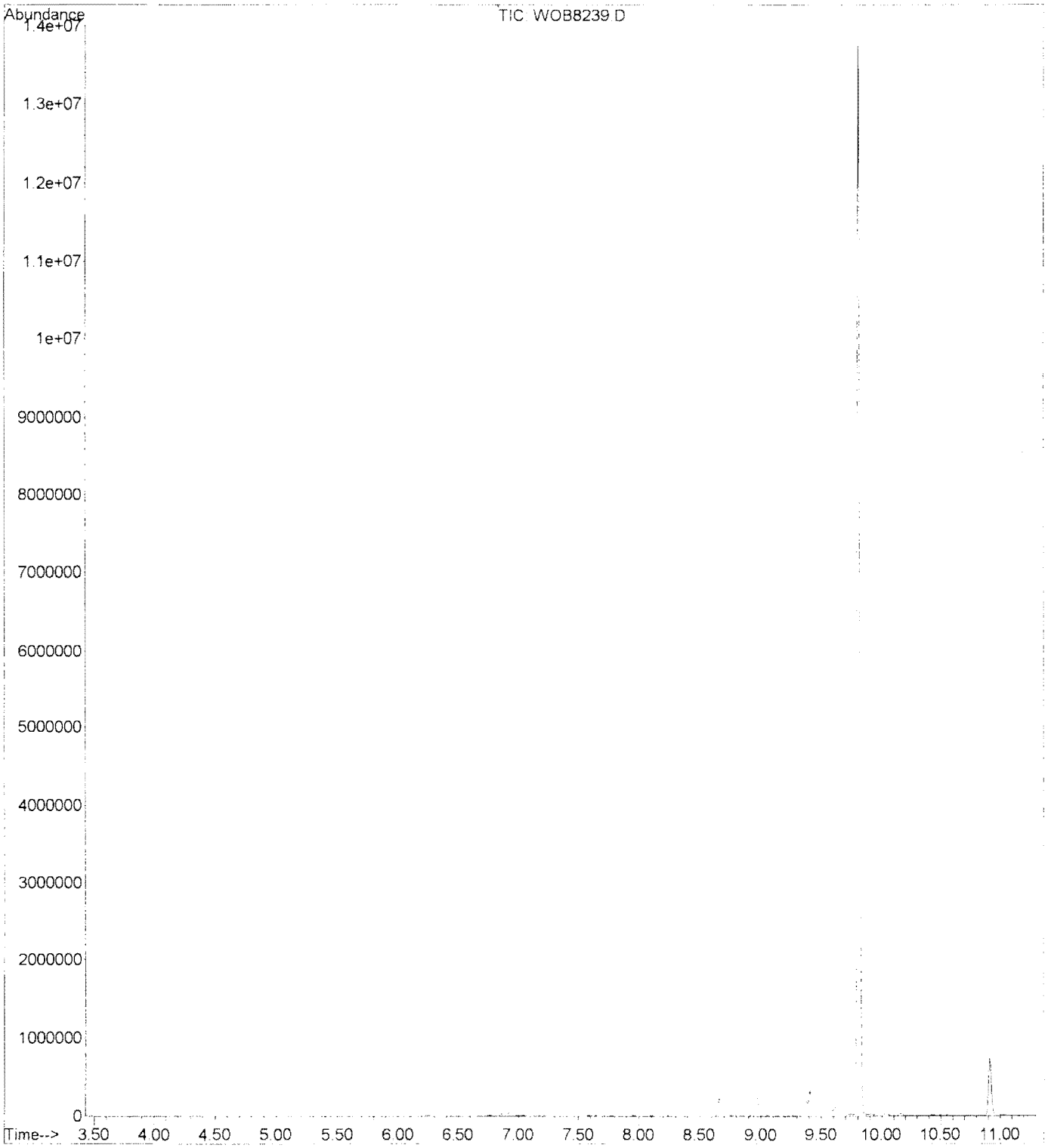
File : C:\HPCHEM\1\DATA\WOB8237.D
Operator : Raphe HGS
Acquired : 8 Nov 2011 3:39 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FP2-11926-5
Misc Info : SFS/FERO 08NOV11 1236 X19
Vial Number: 1



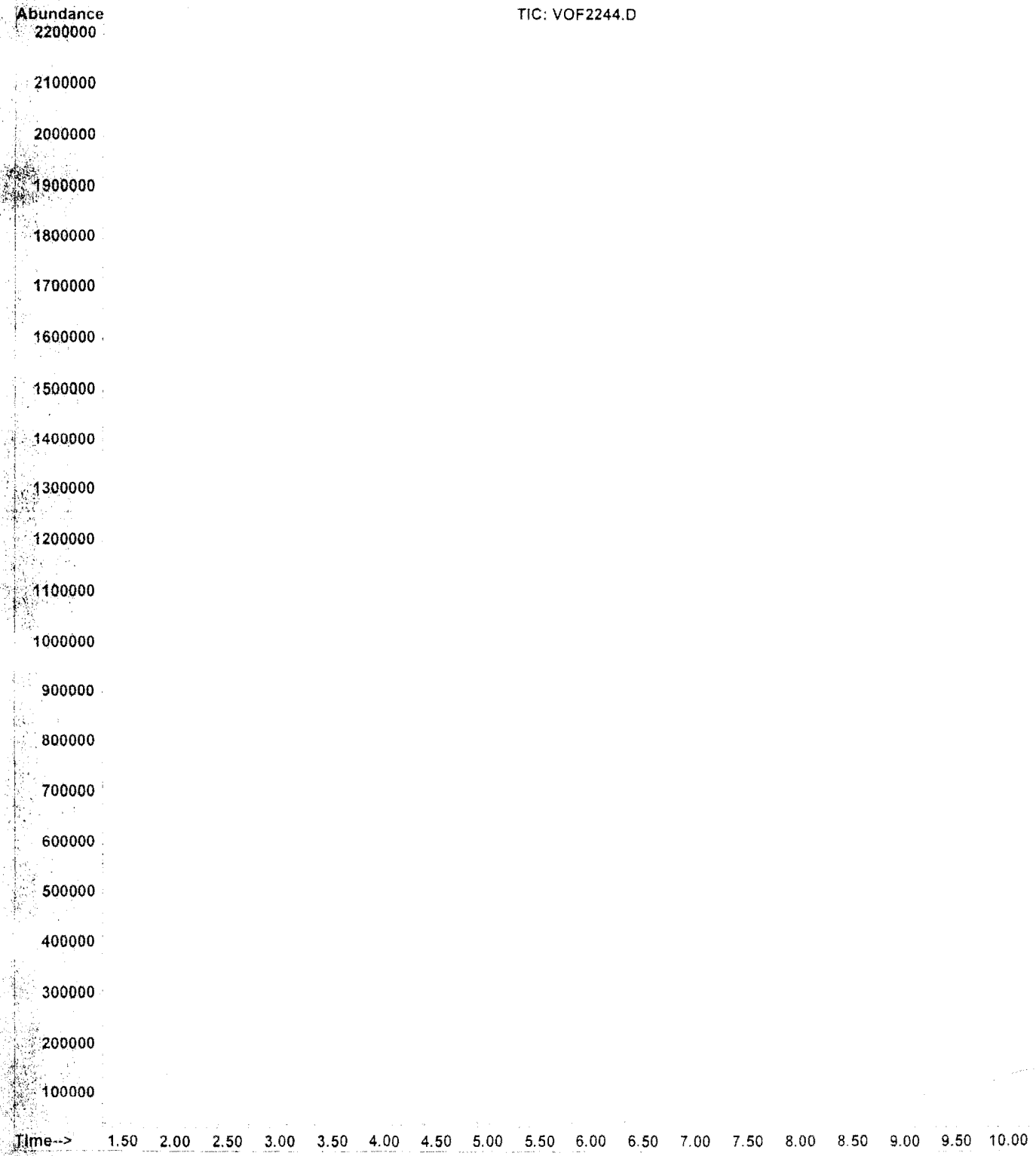
File : C:\HPCHEM\1\DATA\WOB8238.D
Operator : Raphe HGS
Acquired : 8 Nov 2011 3:57 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FP2-11927-15
Misc Info : SFS/FERO 08NOV11 1241 H3
Vial Number: 1



File : C:\HPCHEM\1\DATA\WOB8239.D
Operator : Raphe HGS
Acquired : 8 Nov 2011 4:17 pm using AcqMethod N020411
Instrument : GC/MS Ins
Sample Name: FP2-11928-30
Misc Info : SFS/FERO 08NOV11 1246 W1
Vial Number: 1



File : C:\HPCHEM\1\DATA\VOF2244.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 7:40 am using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: BLANK
Misc Info : 04NOV11
Vial Number: 1



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File        : C:\HPCHEM\1\DATA\VOF2245.D
Operator    : Raphe   HGS
Acquired    :  4 Nov 2011  10:24 am using AcqMethod 082311
Instrument  :   GC/MS Ins
Sample Name: FSB7-10014-5
Misc Info   : SFS/FERO 04NOV11  0718 A4
Vial Number: 1
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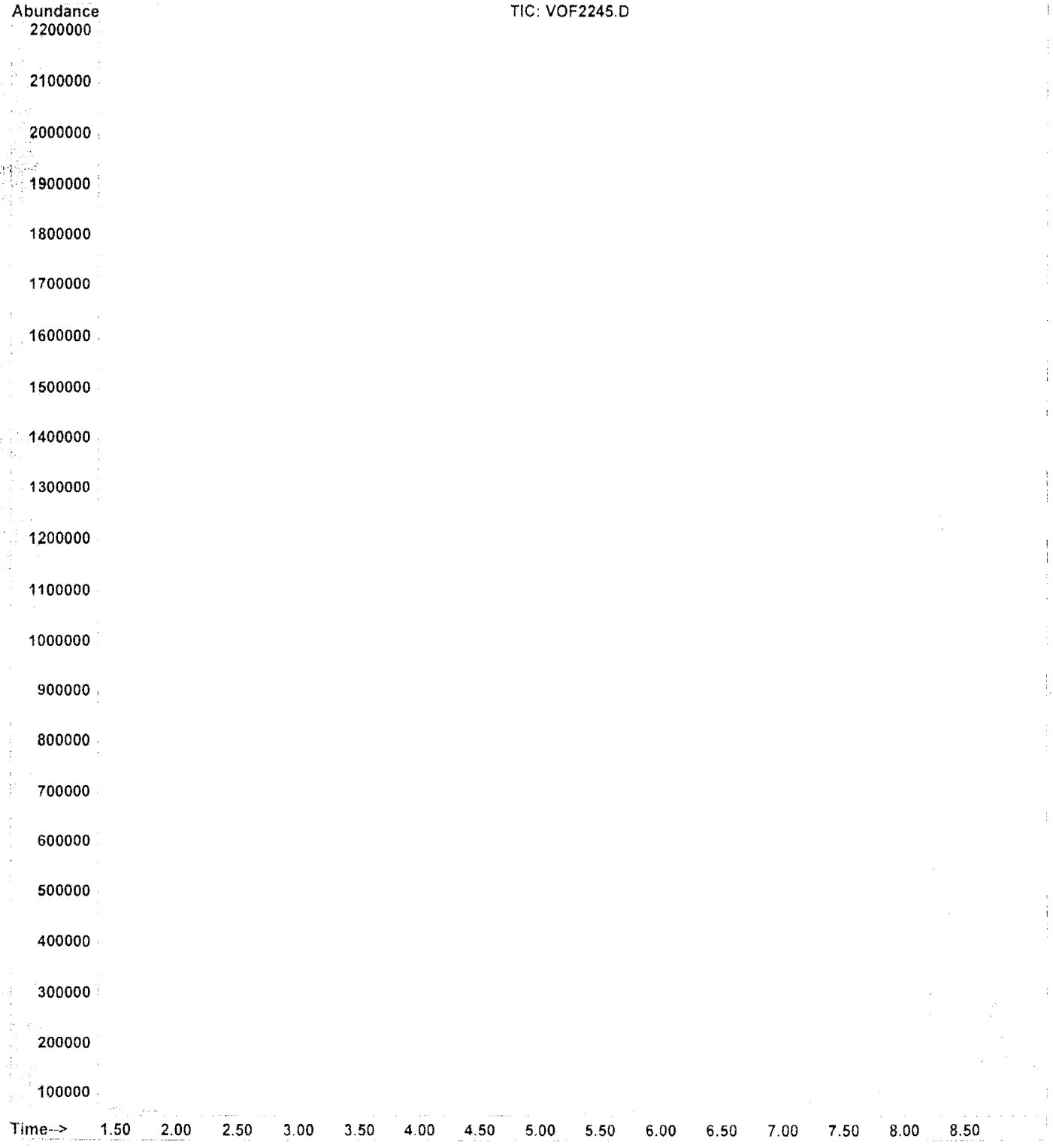
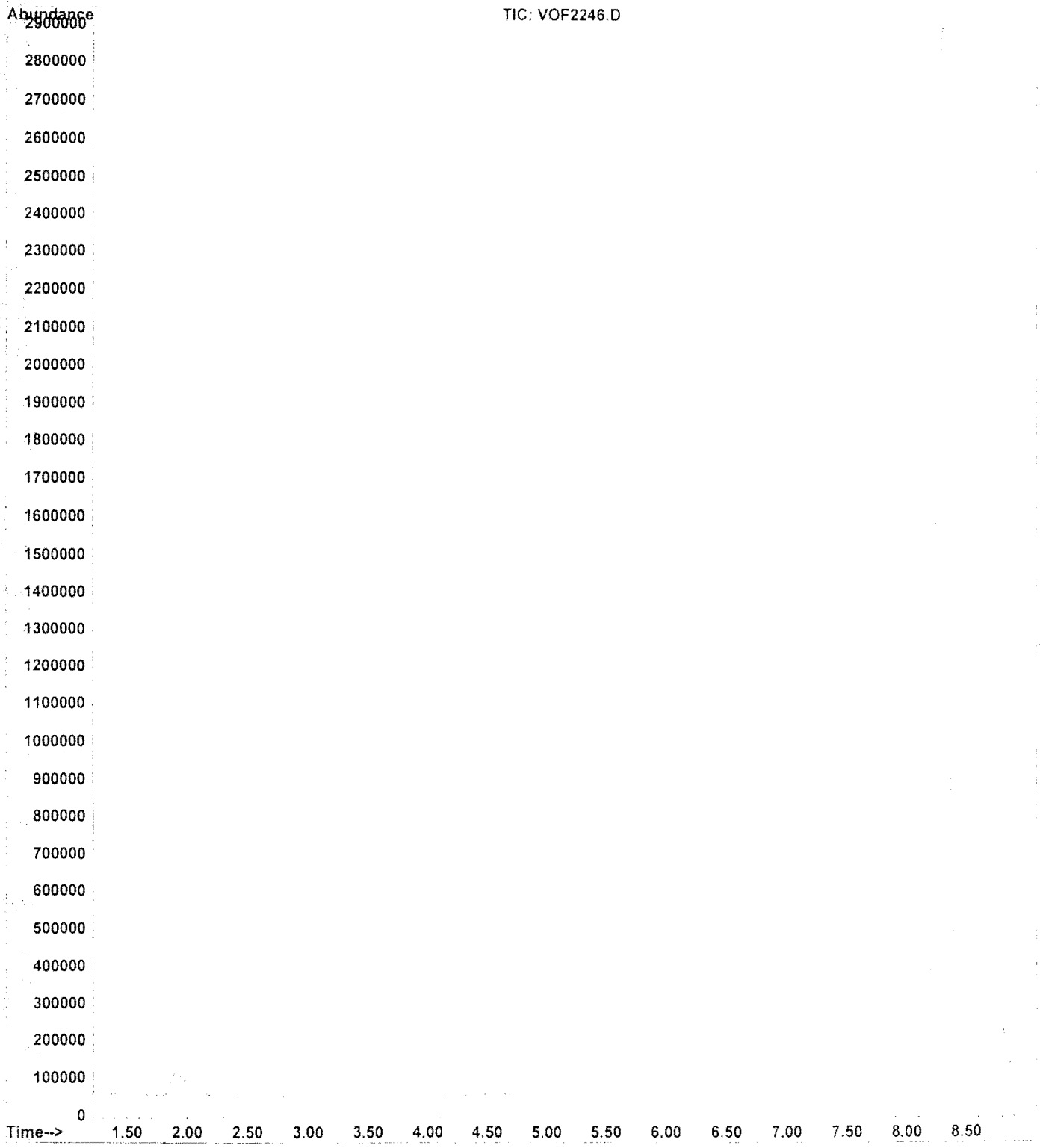
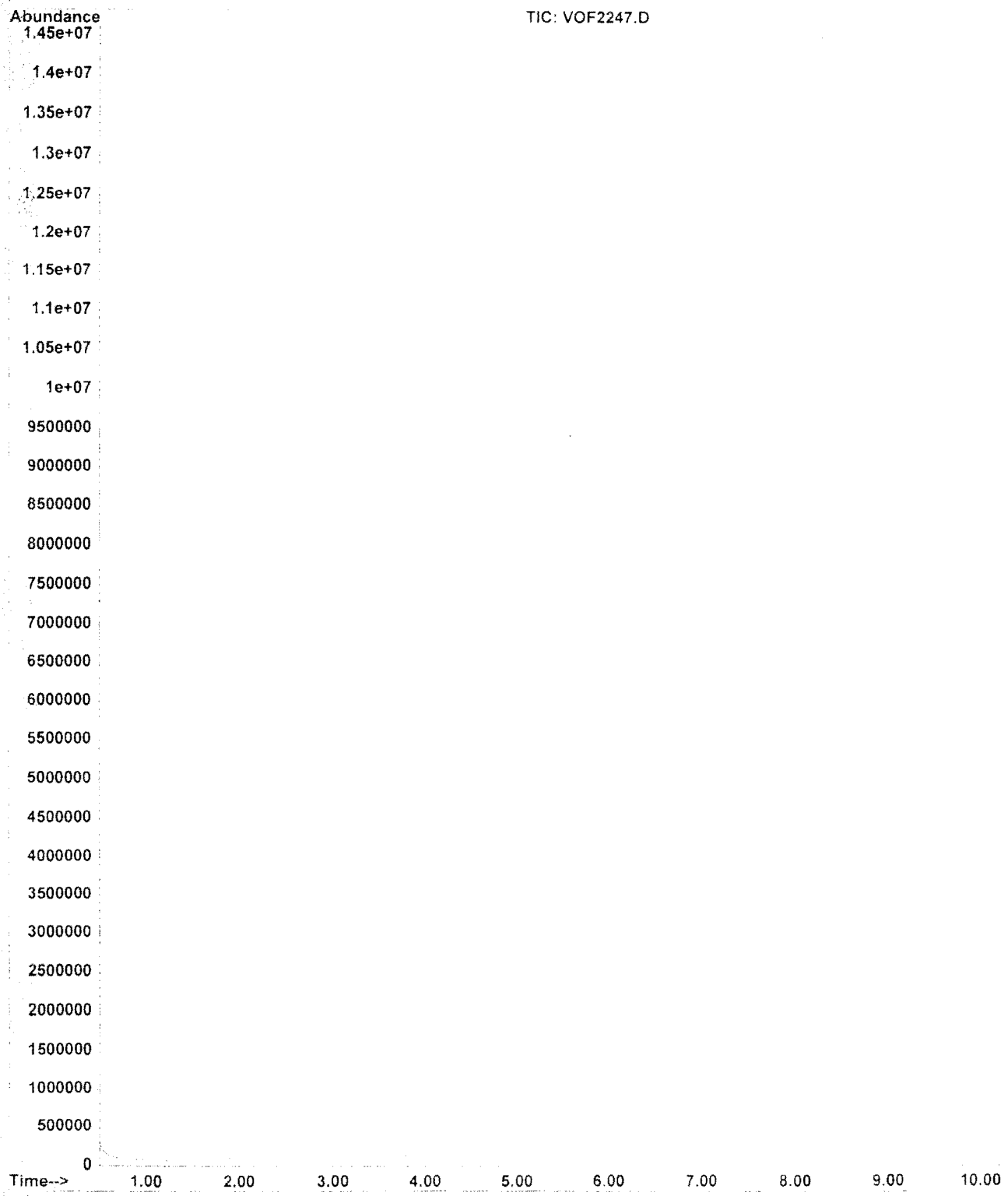


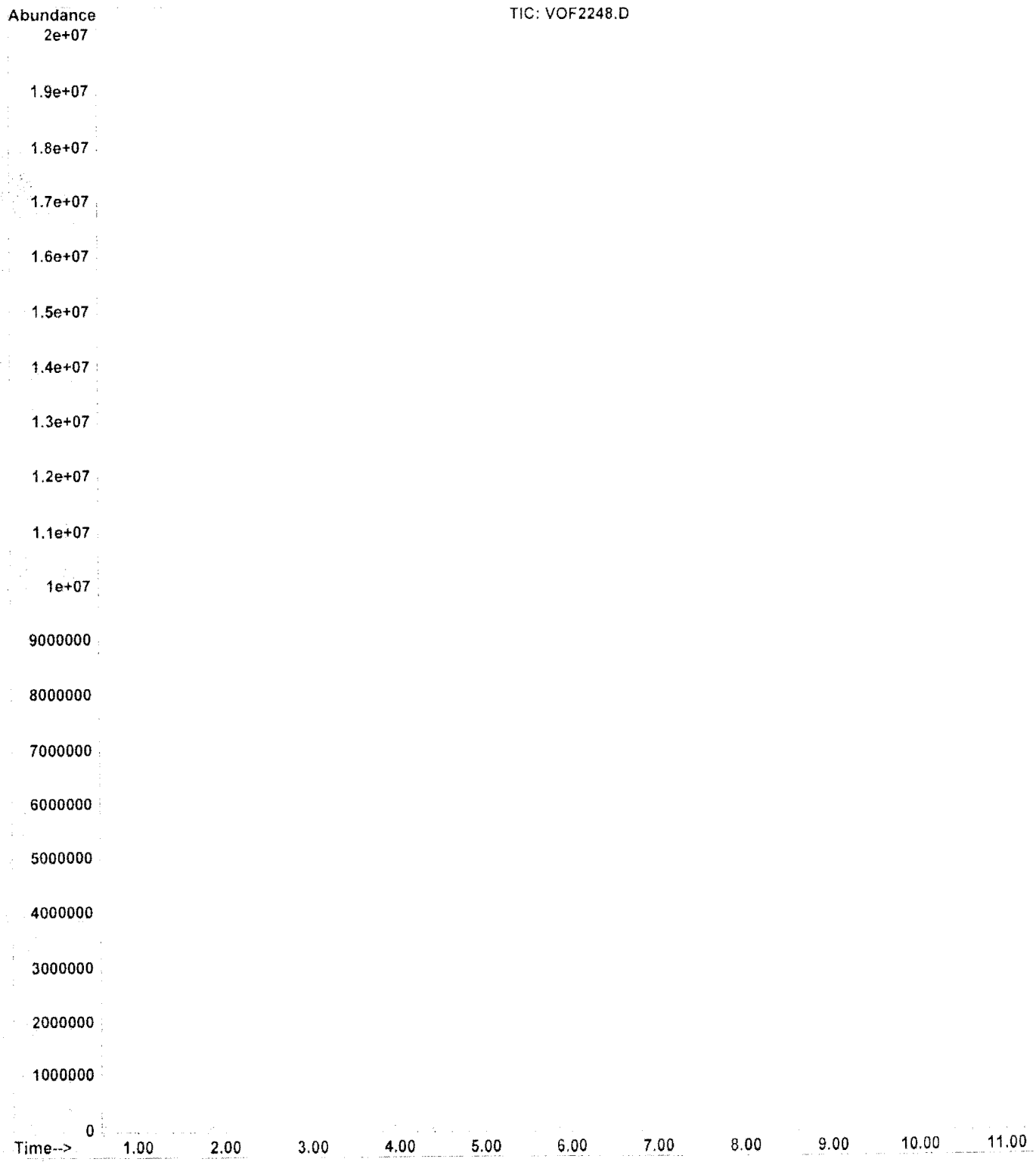
File : C:\HPCHEM\1\DATA\VOF2246.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 10:37 am using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FSB7-10015-15
Misc Info : SFS/FERO 04NOV11 0721 A6
Vial Number: 1



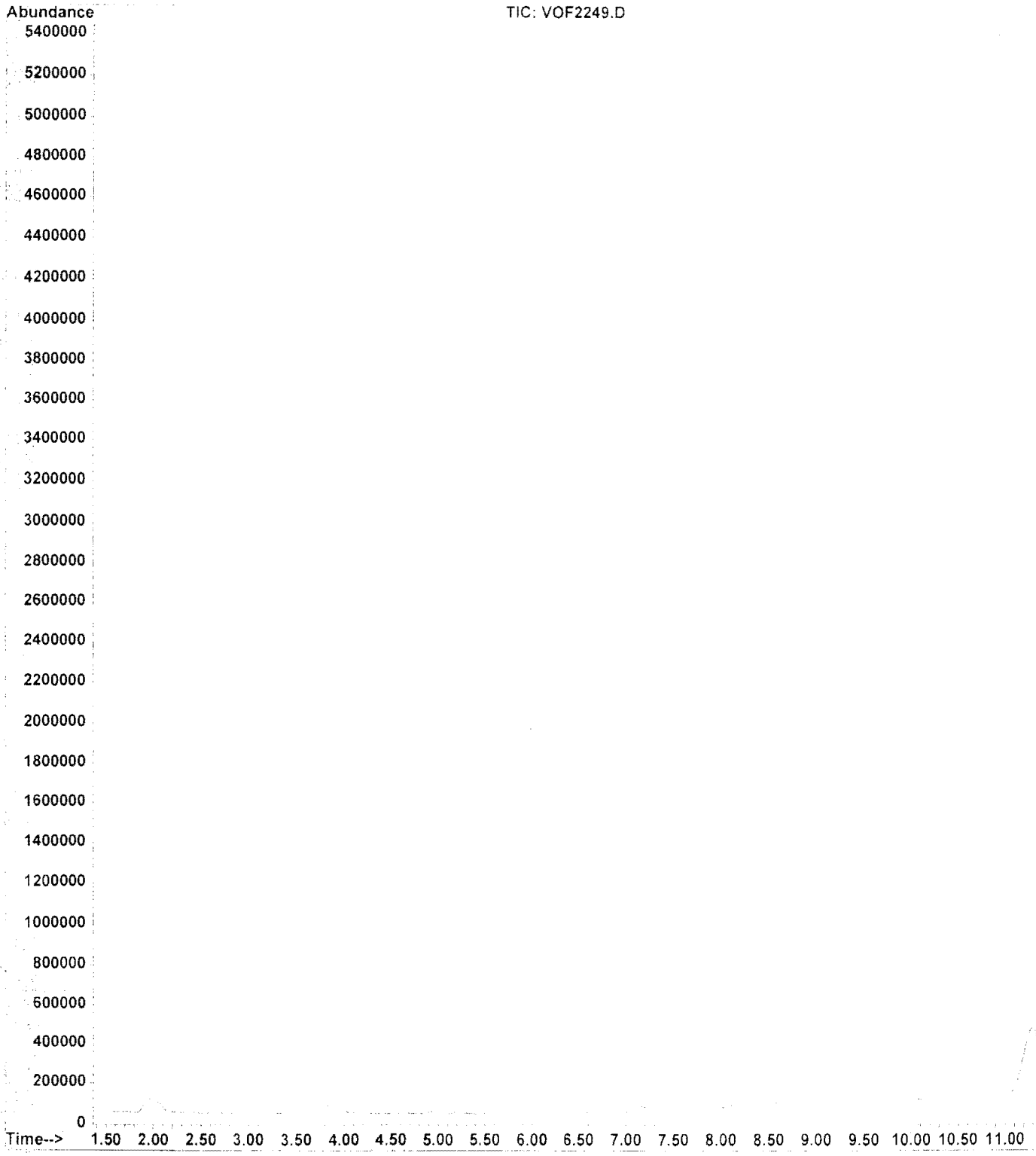
File : C:\HPCHEM\1\DATA\VOF2247.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 10:52 am using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP10-10016-5
Misc Info : SFS/FERO 04NOV11 0741 A1
Vial Number: 1



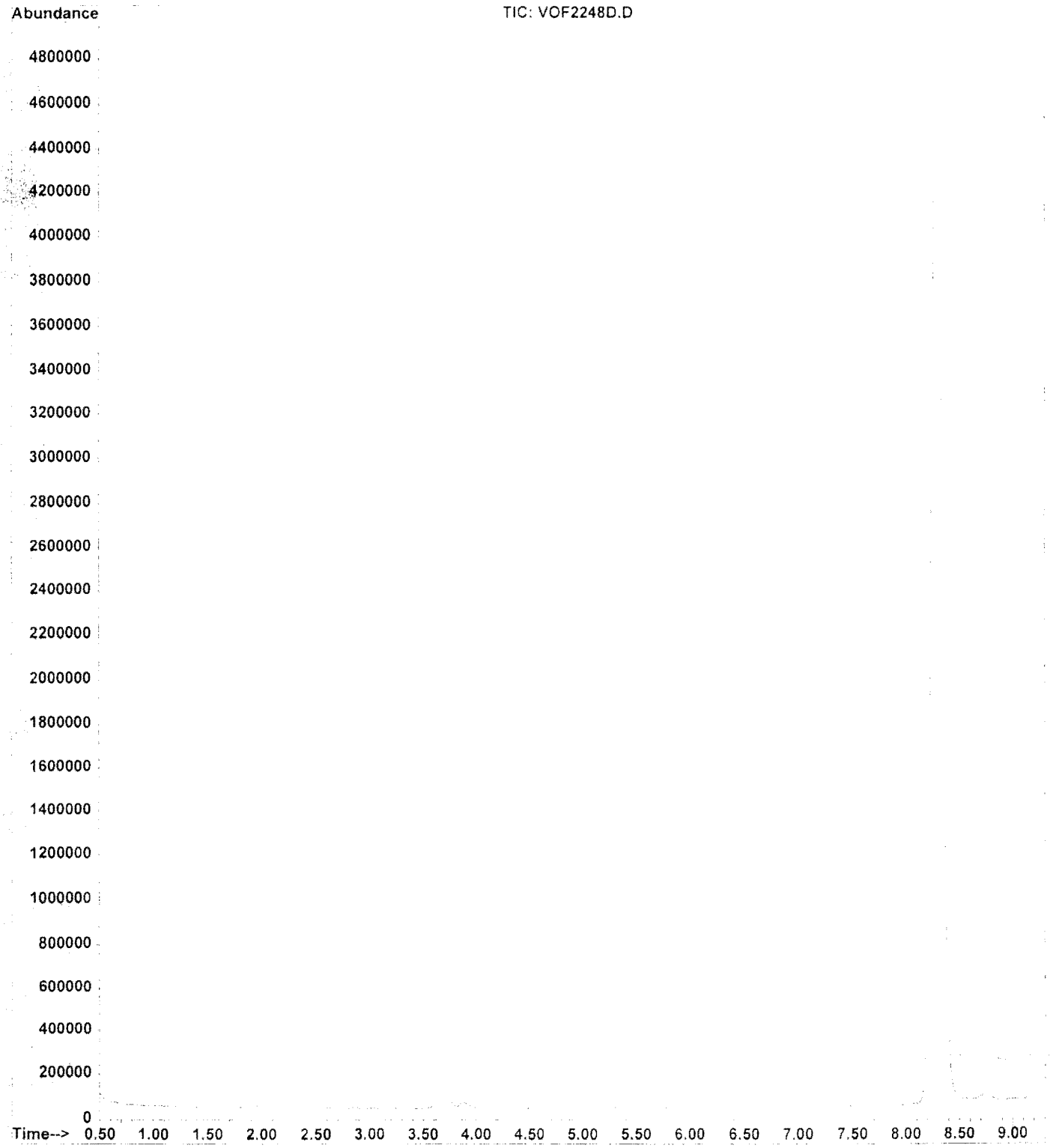
File : C:\HPCHEM\1\DATA\VOF2248.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 11:16 am using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP10-10017-15
Misc Info : SFS/FERO 04NOV11 0744 W4
Vial Number: 1



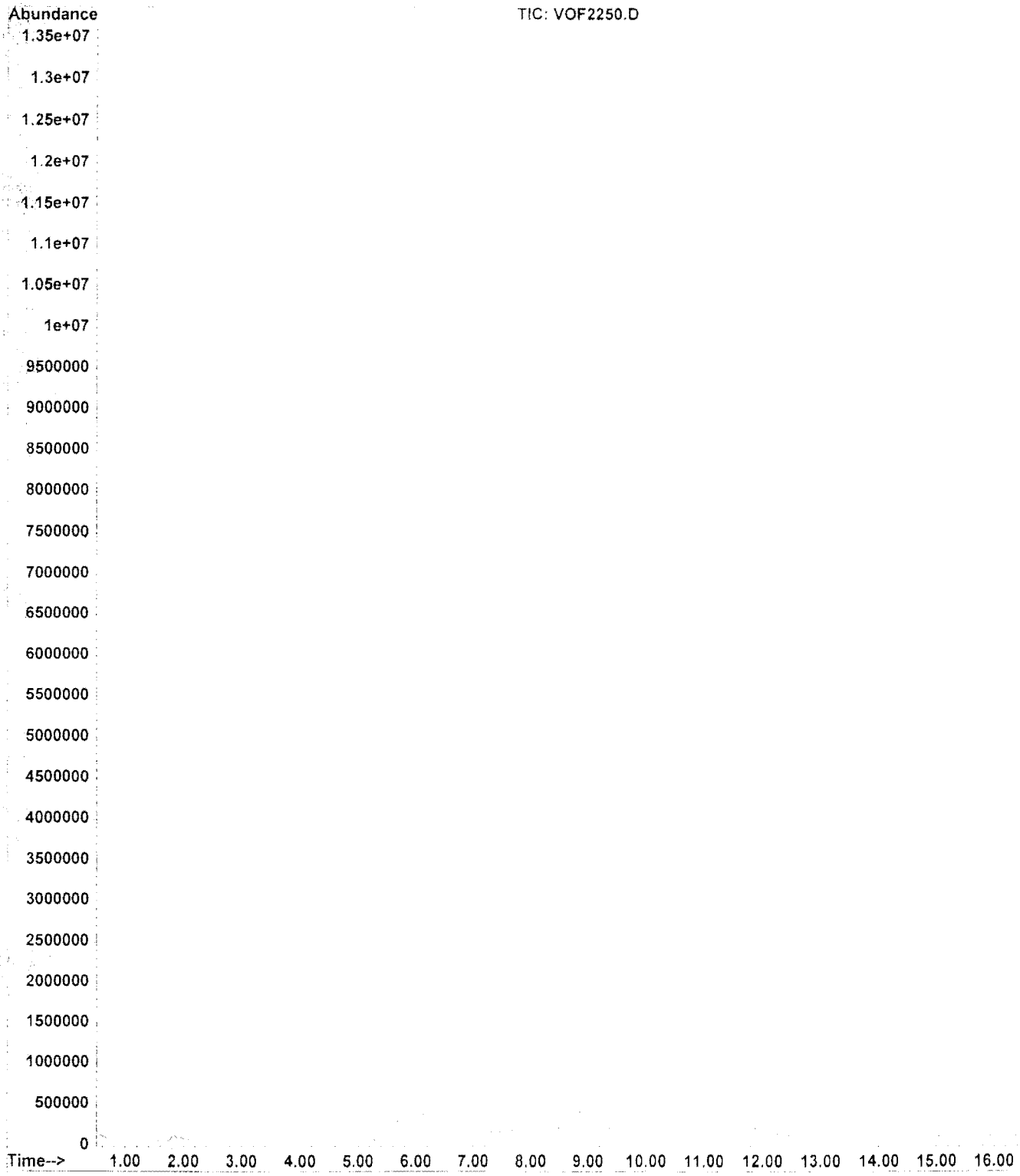
File : C:\HPCHEM\1\DATA\VOF2249.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 11:48 am using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP18-10018-5
Misc Info : SFS/FERO 04NOV11 0810 G1
Vial Number: 1



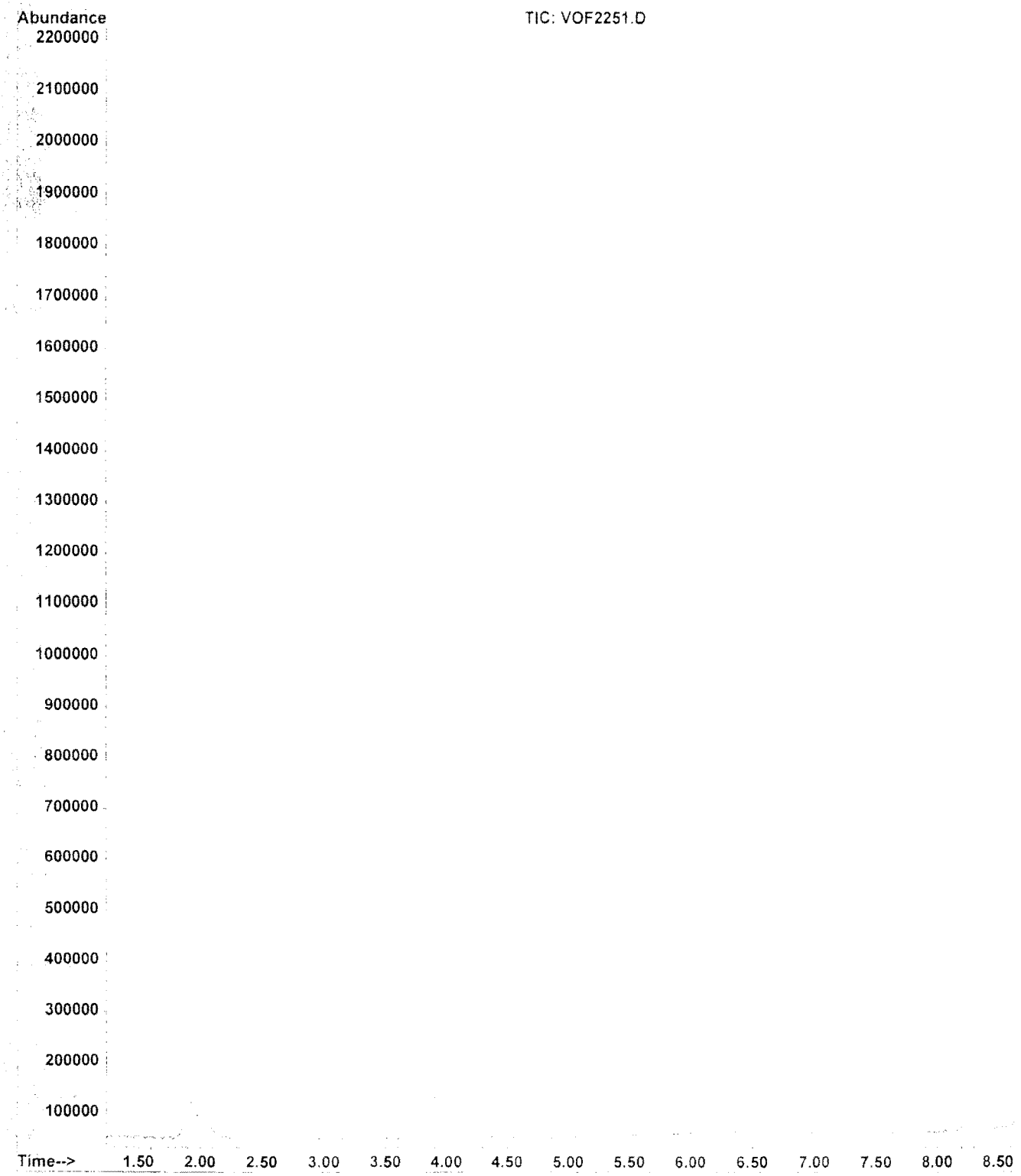
File : C:\HPCHEM\1\DATA\VOF2248D.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 12:03 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP10-10017-15 DF5
Misc Info : SFS/FERO 04NOV11 0744 W1
Vial Number: 1



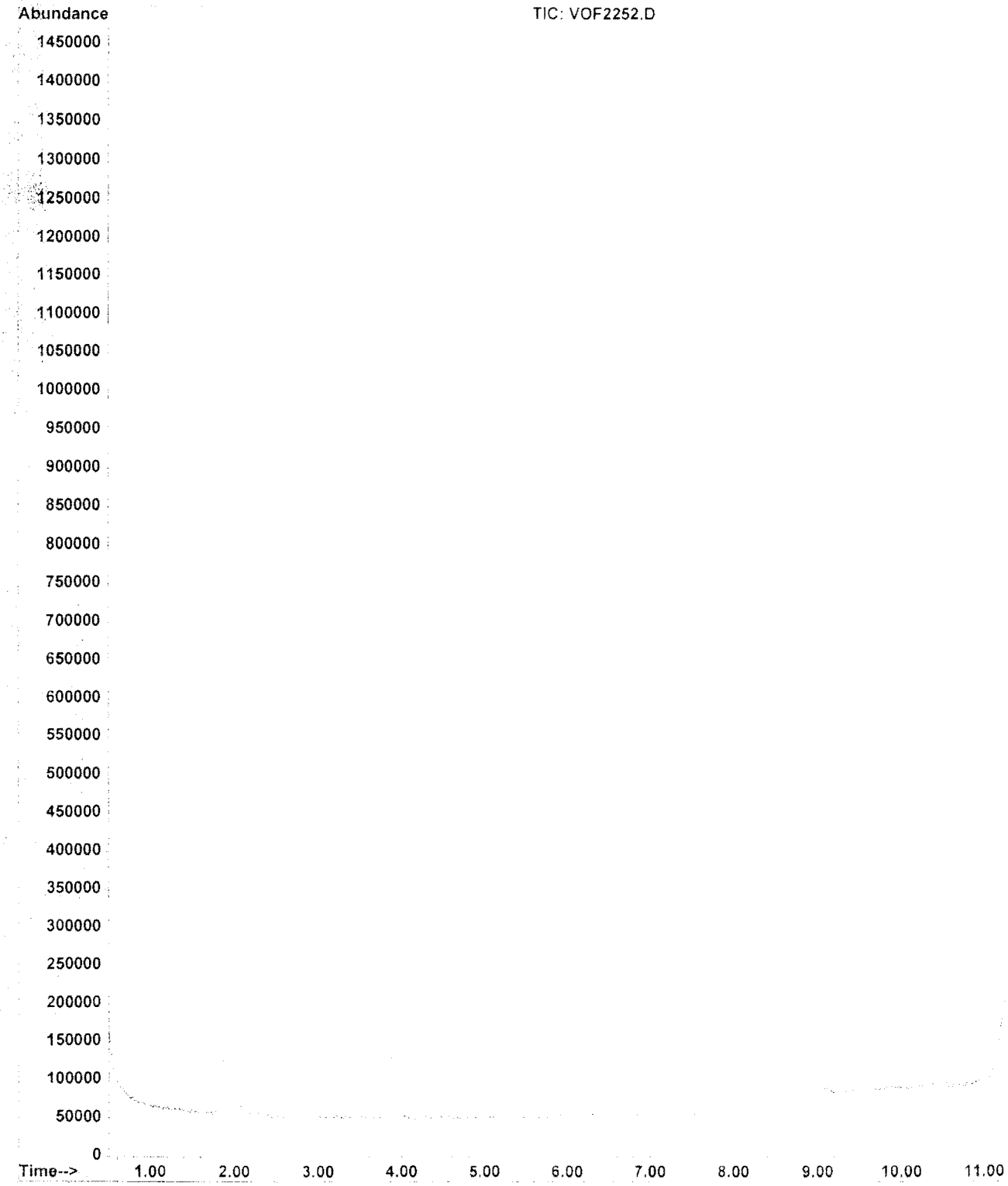
File : C:\HPCHEM\1\DATA\VOF2250.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 12:15 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP18-10019-15
Misc Info : SFS/FERO 04NOV11 0813 A3
Vial Number: 1



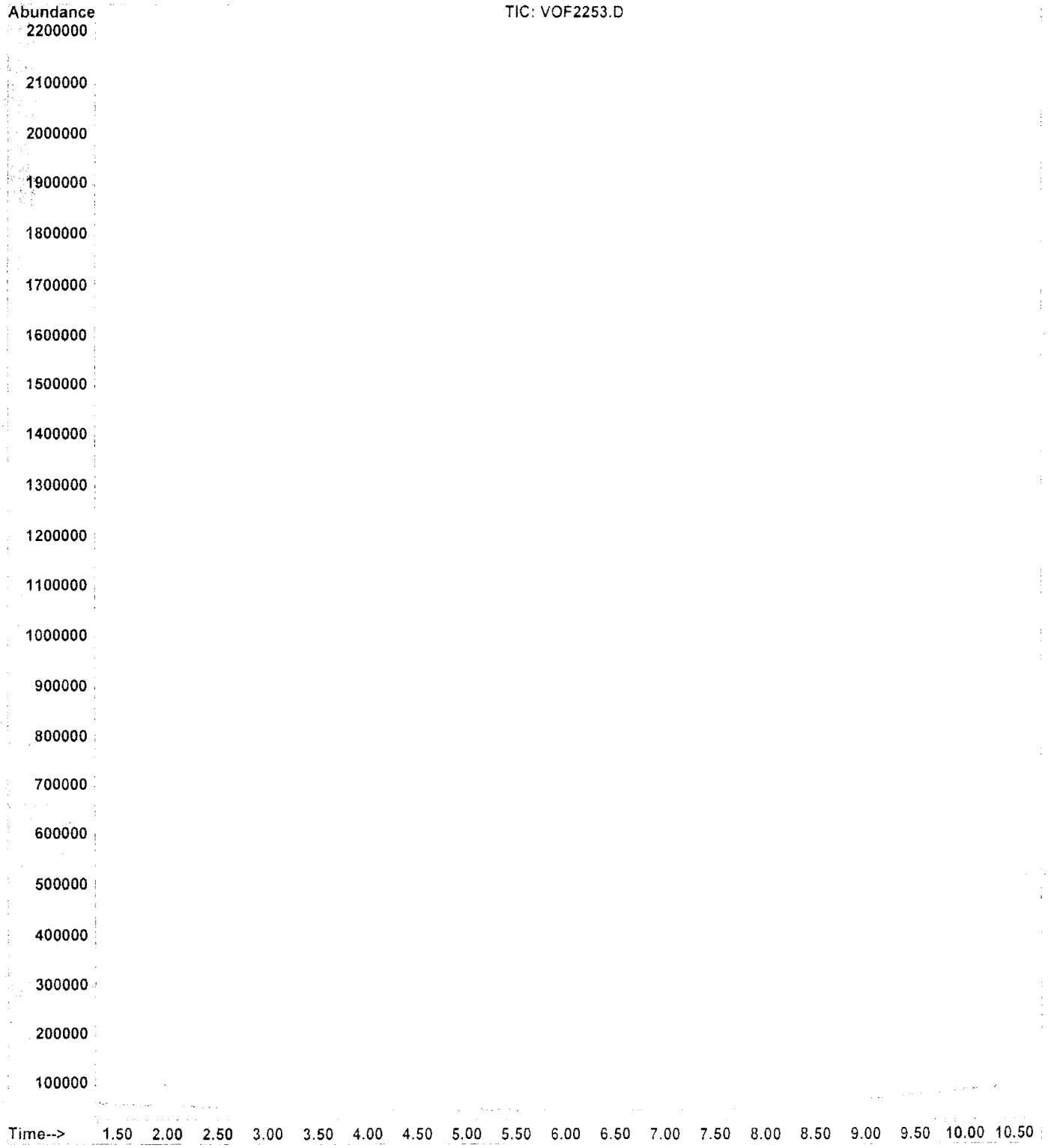
File : C:\HPCHEM\1\DATA\VOF2251.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 12:36 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP20-10020-5
Misc Info : SFS/FERO 04NOV11 0912 A12
Vial Number: 1



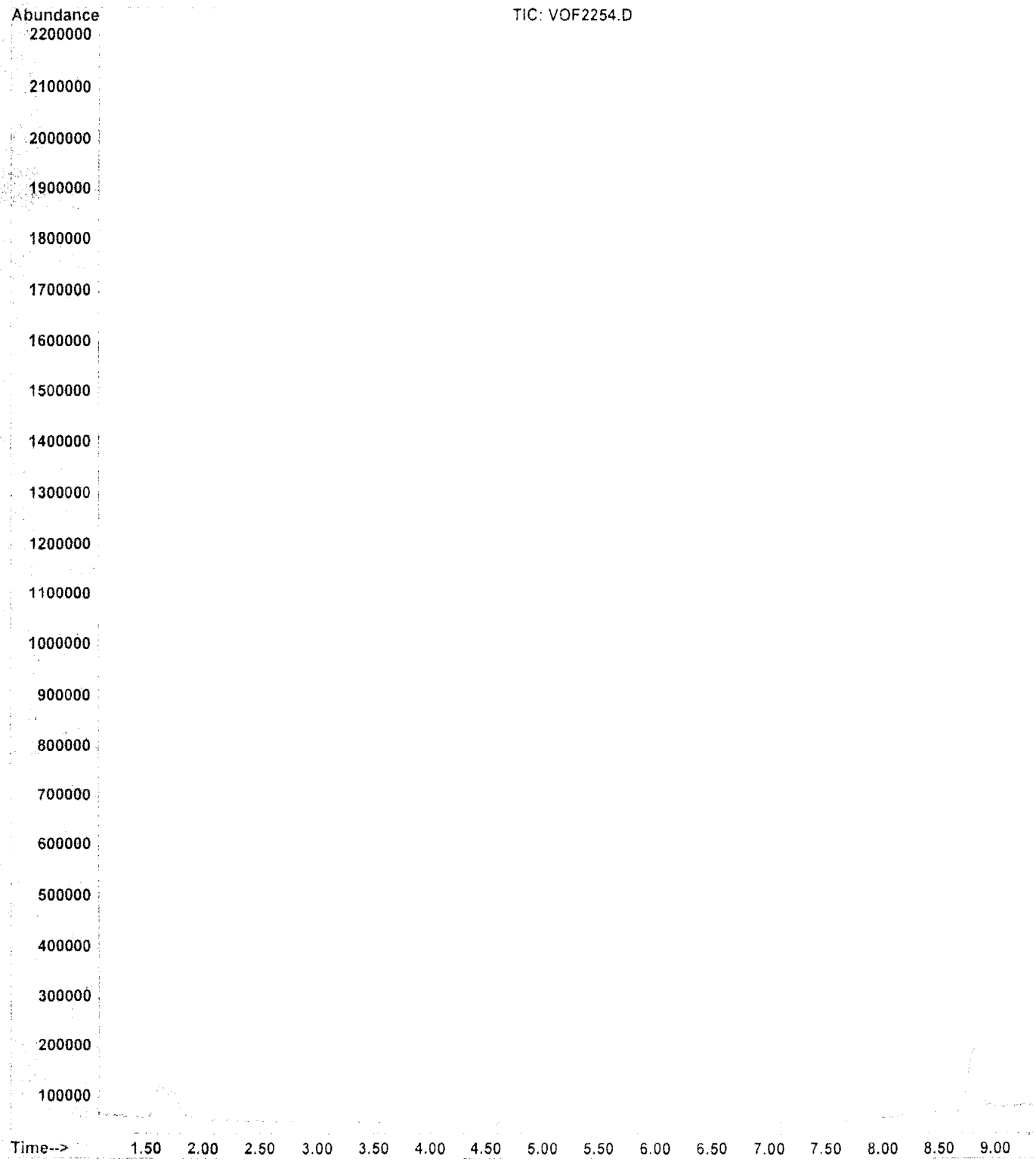
File : C:\HPCHEM\1\DATA\VOF2252.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 12:49 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP20-10021-15
Misc Info : SFS/FERO 04NOV11 0915 T4
Vial Number: 1



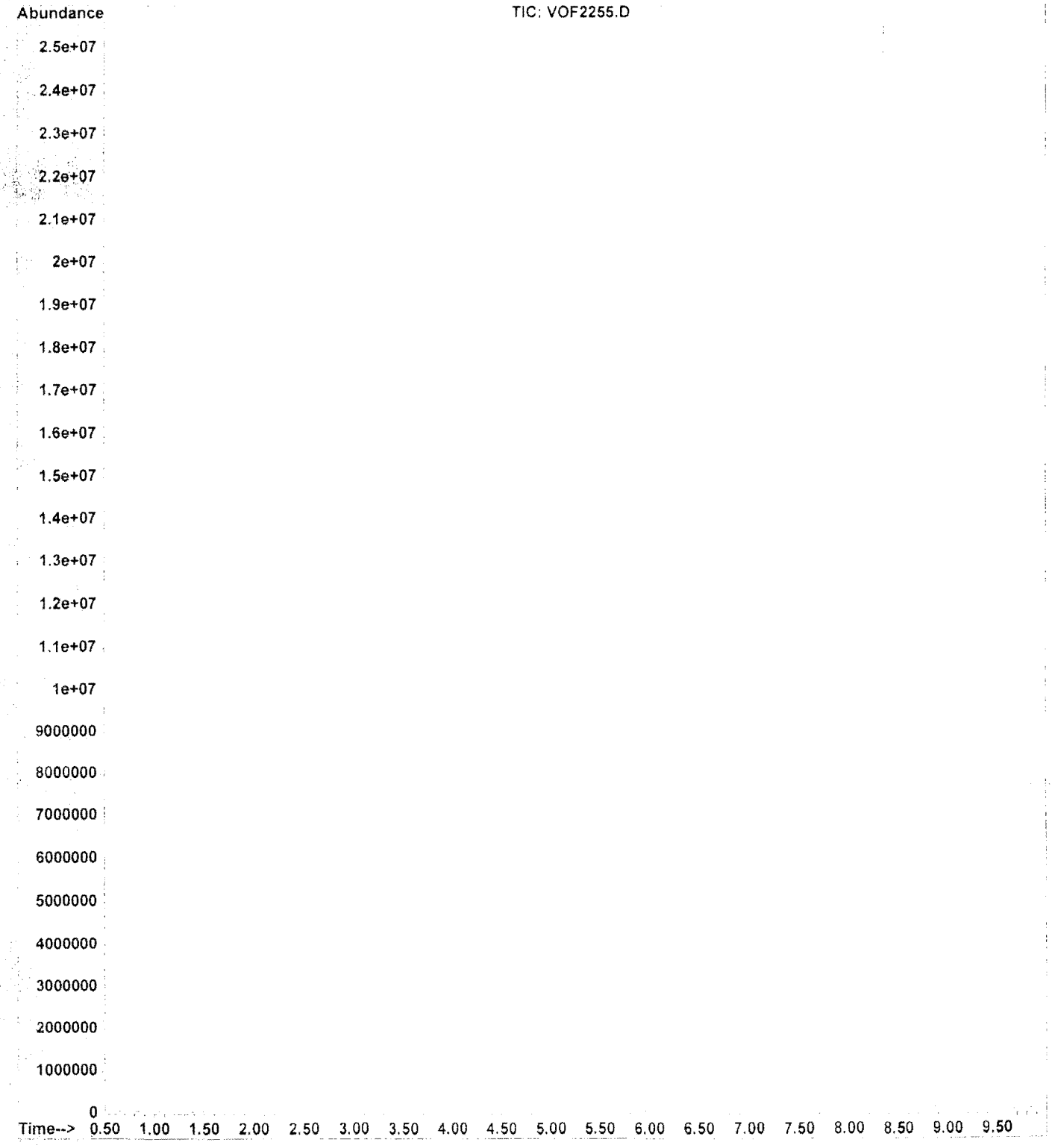
File : C:\HPCHEM\1\DATA\VOF2253.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 1:05 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP9-10022-5
Misc Info : SFS/FERO 04NOV11 0850 A15
Vial Number: 1



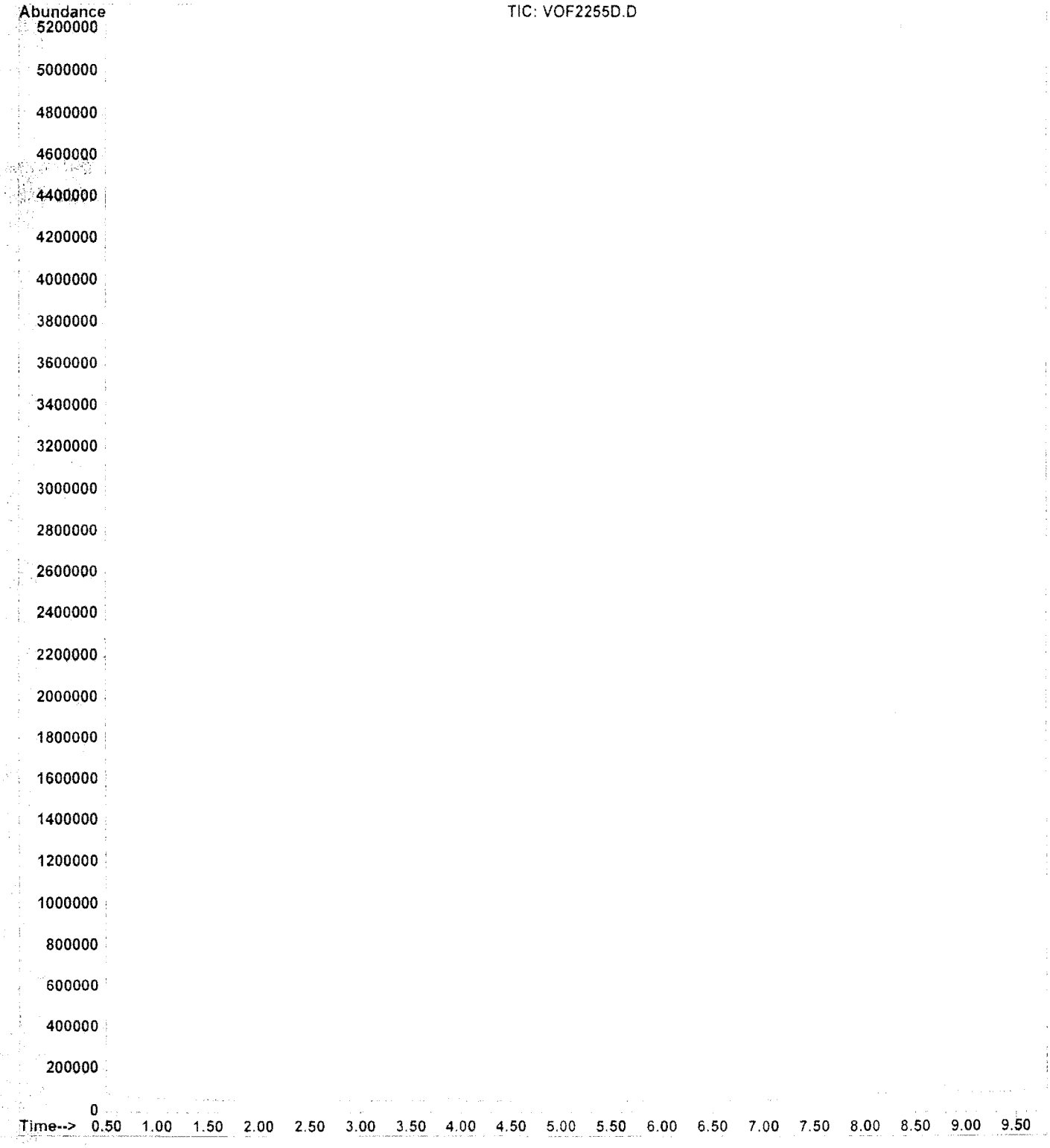
File : C:\HPCHEM\1\DATA\VOF2254.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 1:20 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP9-10023-15
Misc Info : SFS/FERO 04NOV11 0853 Y2
Vial Number: 1



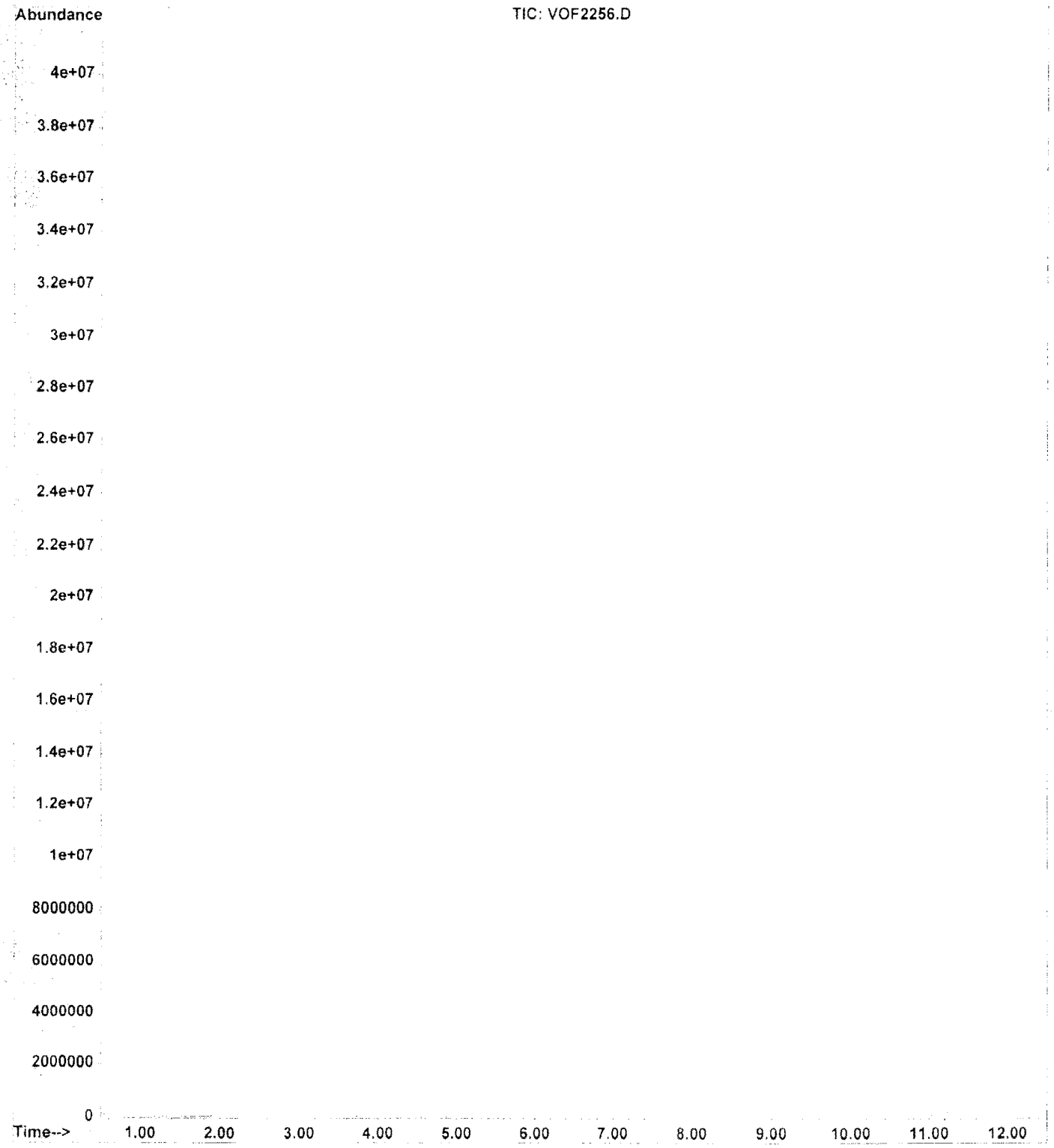
File : C:\HPCHEM\1\DATA\VOF2255.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 1:34 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP16-10024-5
Misc Info : SFS/FERO 04NOV11 1001 X19
Vial Number: 1



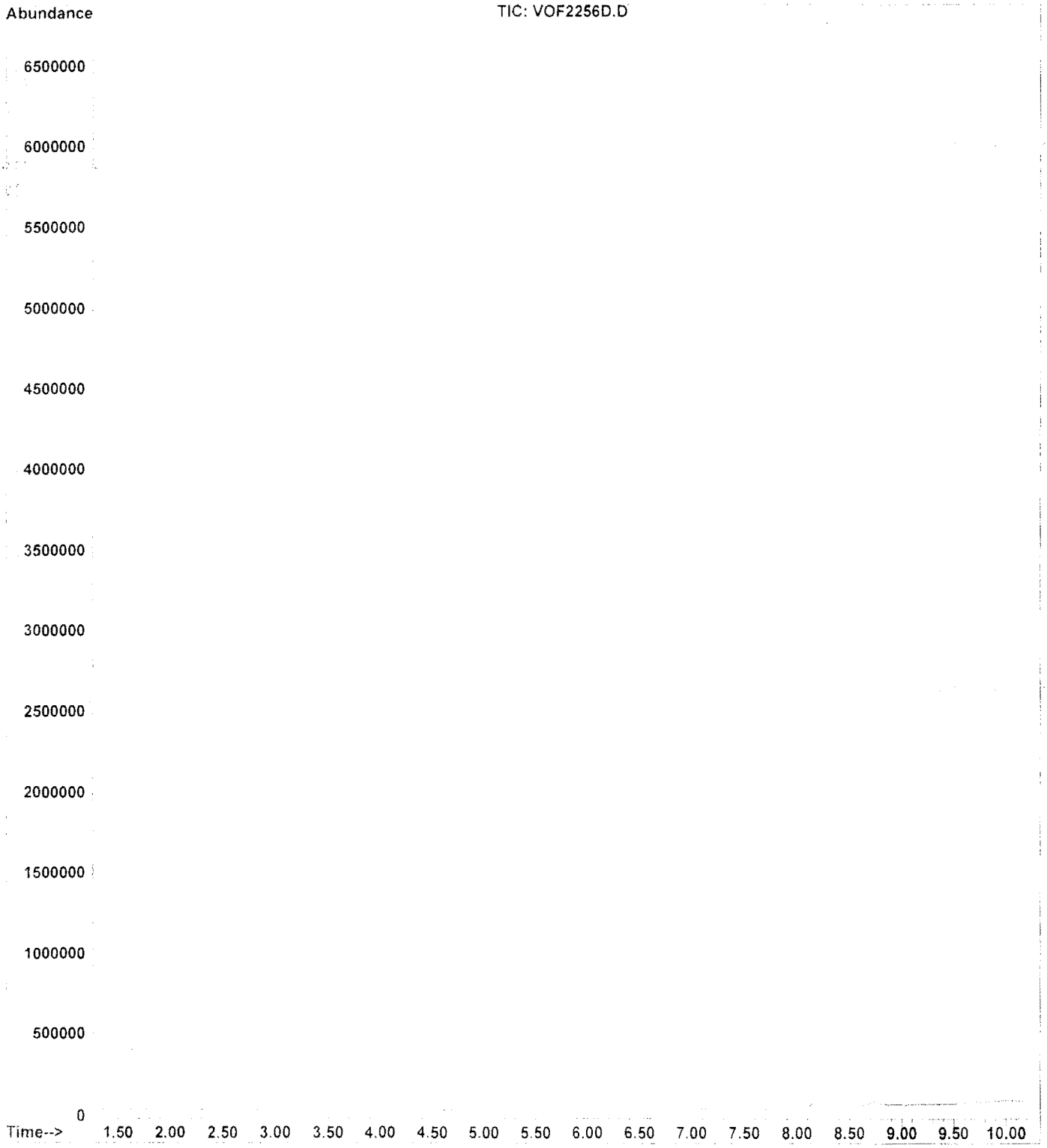
File : C:\HPCHEM\1\DATA\VOF2255D.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 1:49 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP16-10024-5 DF5
Misc Info : SFS/FERO 04NOV11 1001 X19
Vial Number: 1



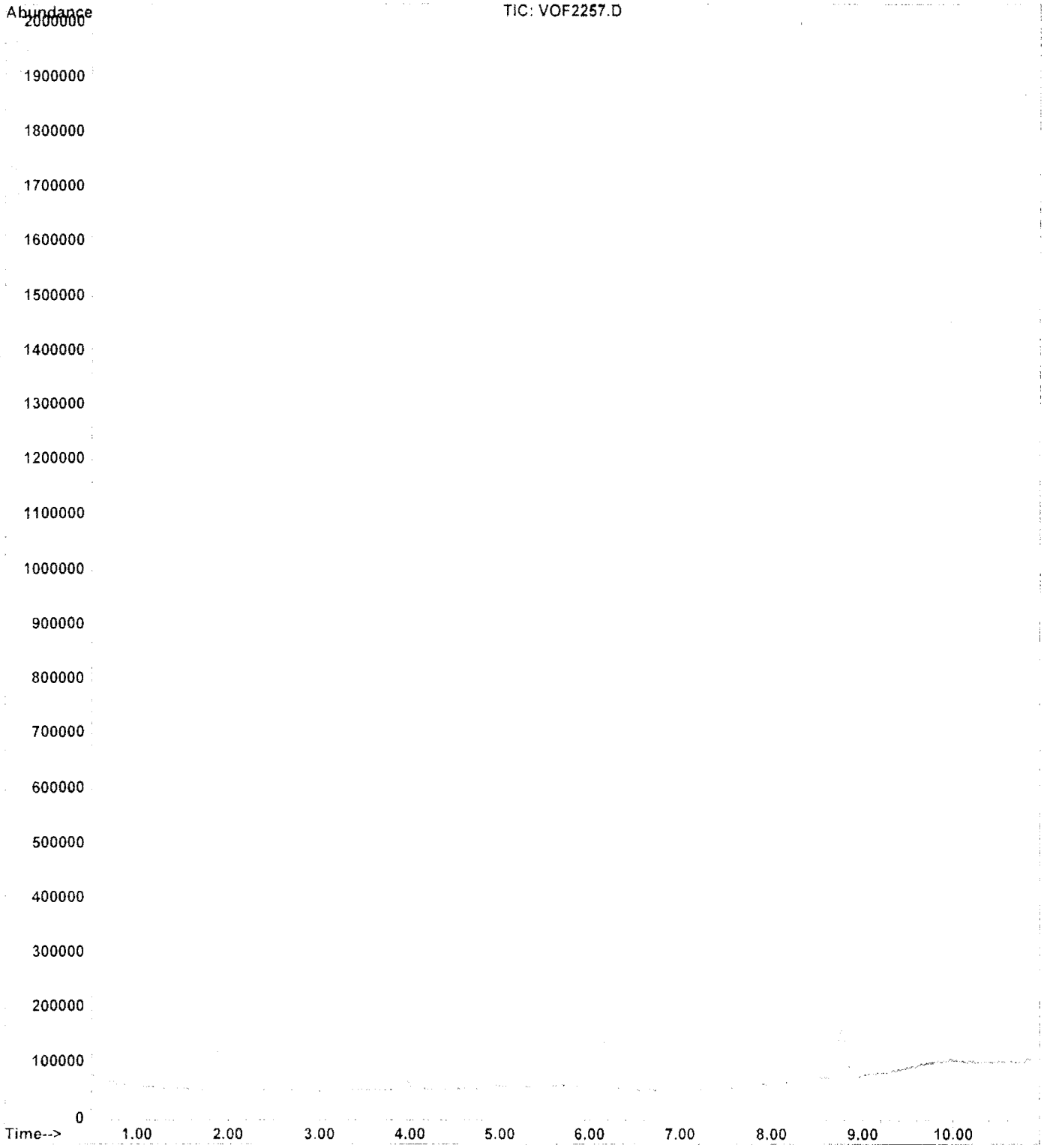
File : C:\HPCHEM\1\DATA\VOF2256.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 2:06 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP16-10025-15
Misc Info : SFS/FERO 04NOV11 1004 A24
Vial Number: 1



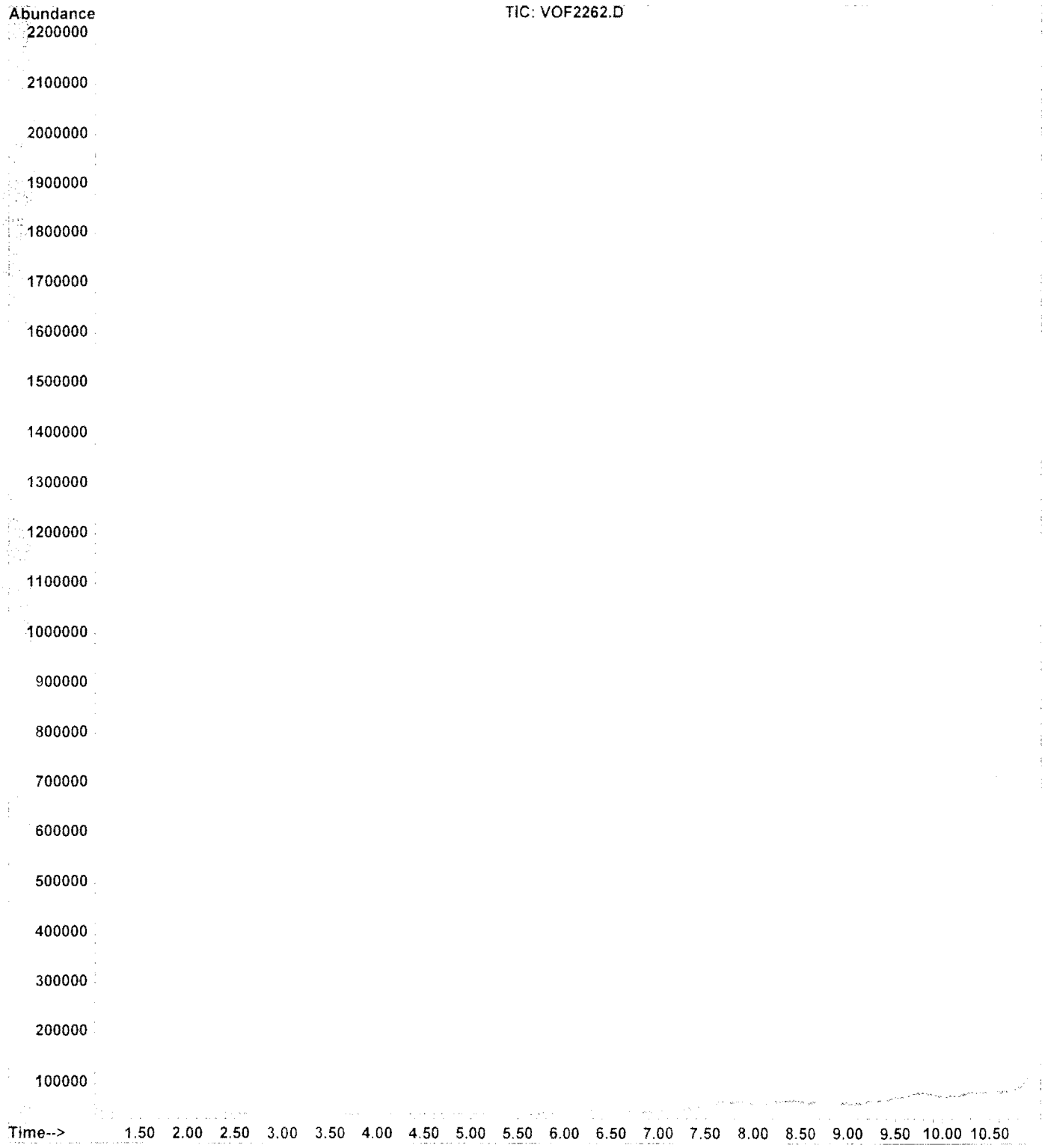
File : C:\HPCHEM\1\DATA\VOF2256D.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 2:22 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP16-10025-15 DF10
Misc Info : SFS/FERO 04NOV11 1004 A24
Vial Number: 1



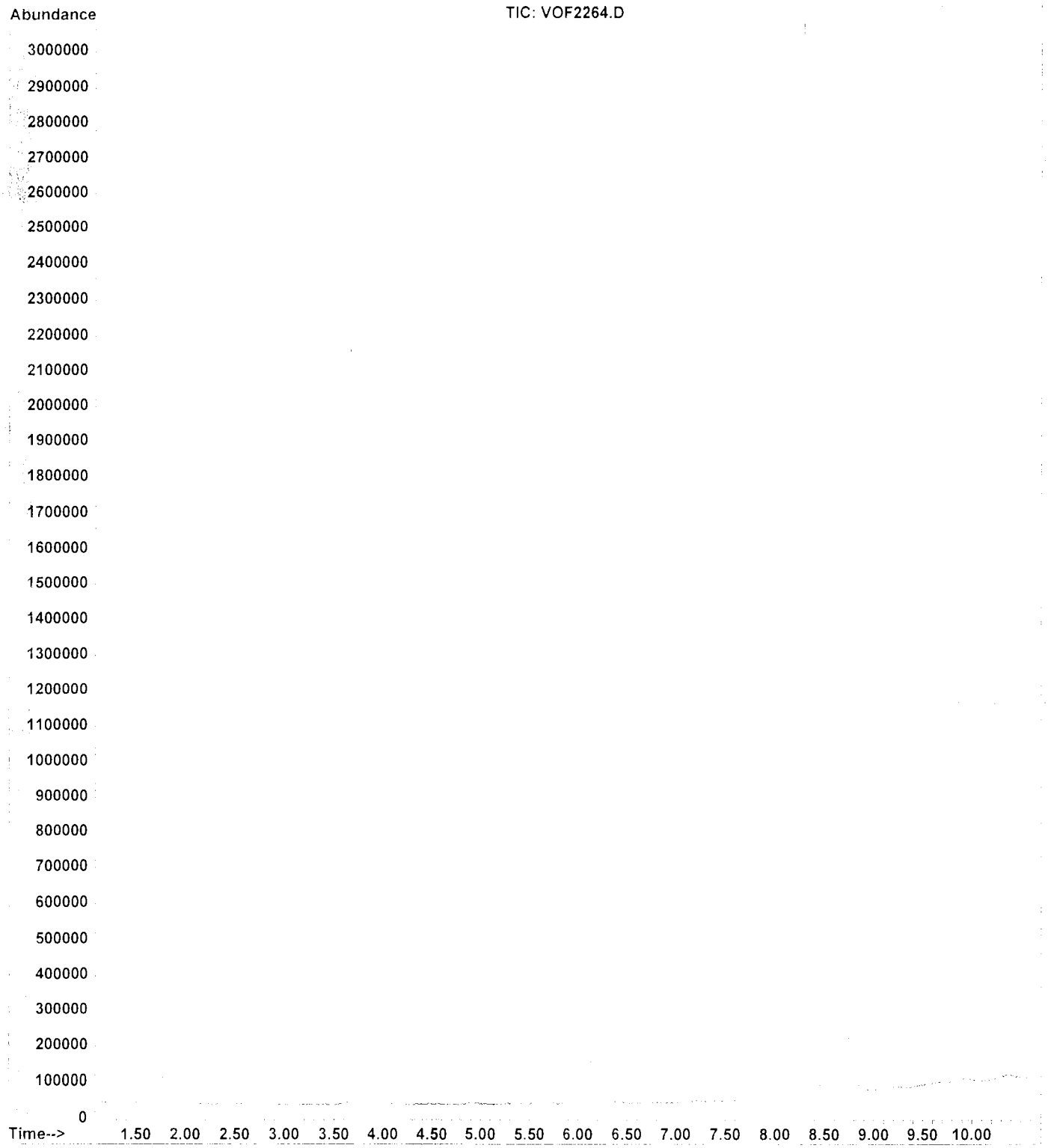
File : C:\HPCHEM\1\DATA\VOF2257.D
Operator : Raphe HGS
Acquired : 4 Nov 2011 2:36 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP15-10026-5
Misc Info : SFS/FERO 04NOV11 1007 H6
Vial Number: 1



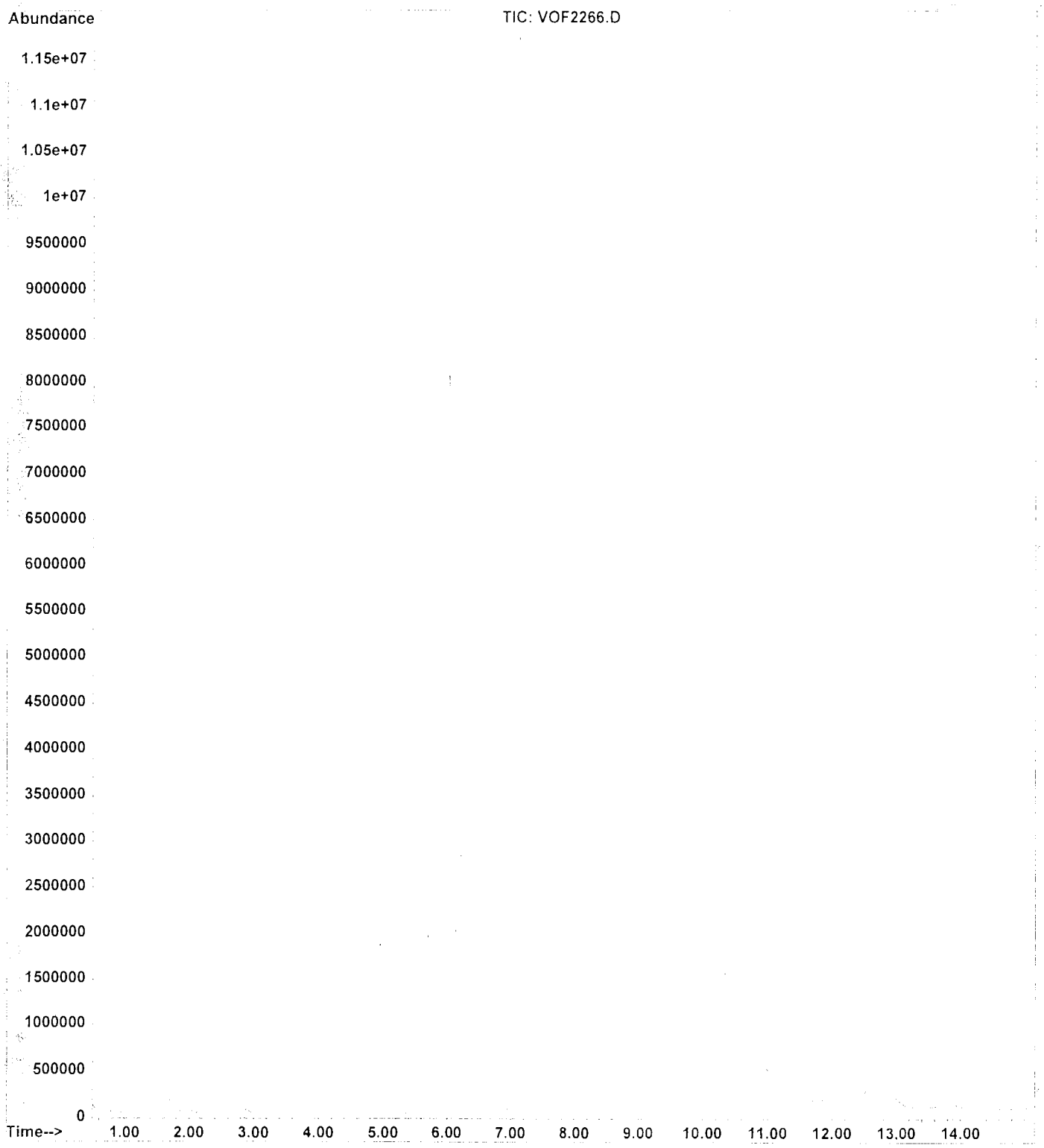
File : C:\HPCHEM\1\DATA\VOF2262.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 8:23 am using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: BLANK
Misc Info : 05NOV11
Vial Number: 1



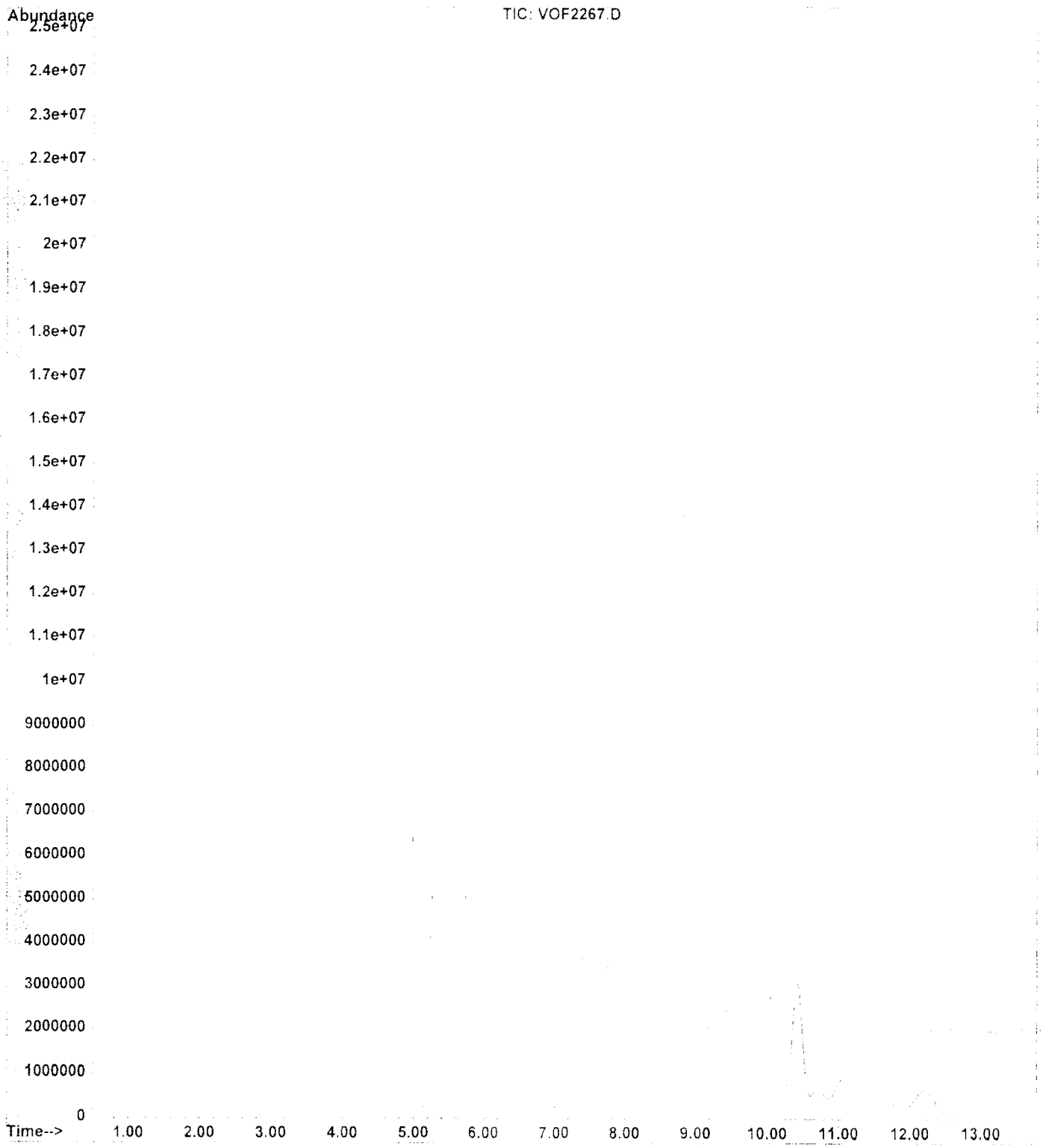
File : C:\HPCHEM\1\DATA\VOF2264.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 12:45 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP1-10030-15
Misc Info : SFS/FERO 05NOV11 0955 G2
Vial Number: 1



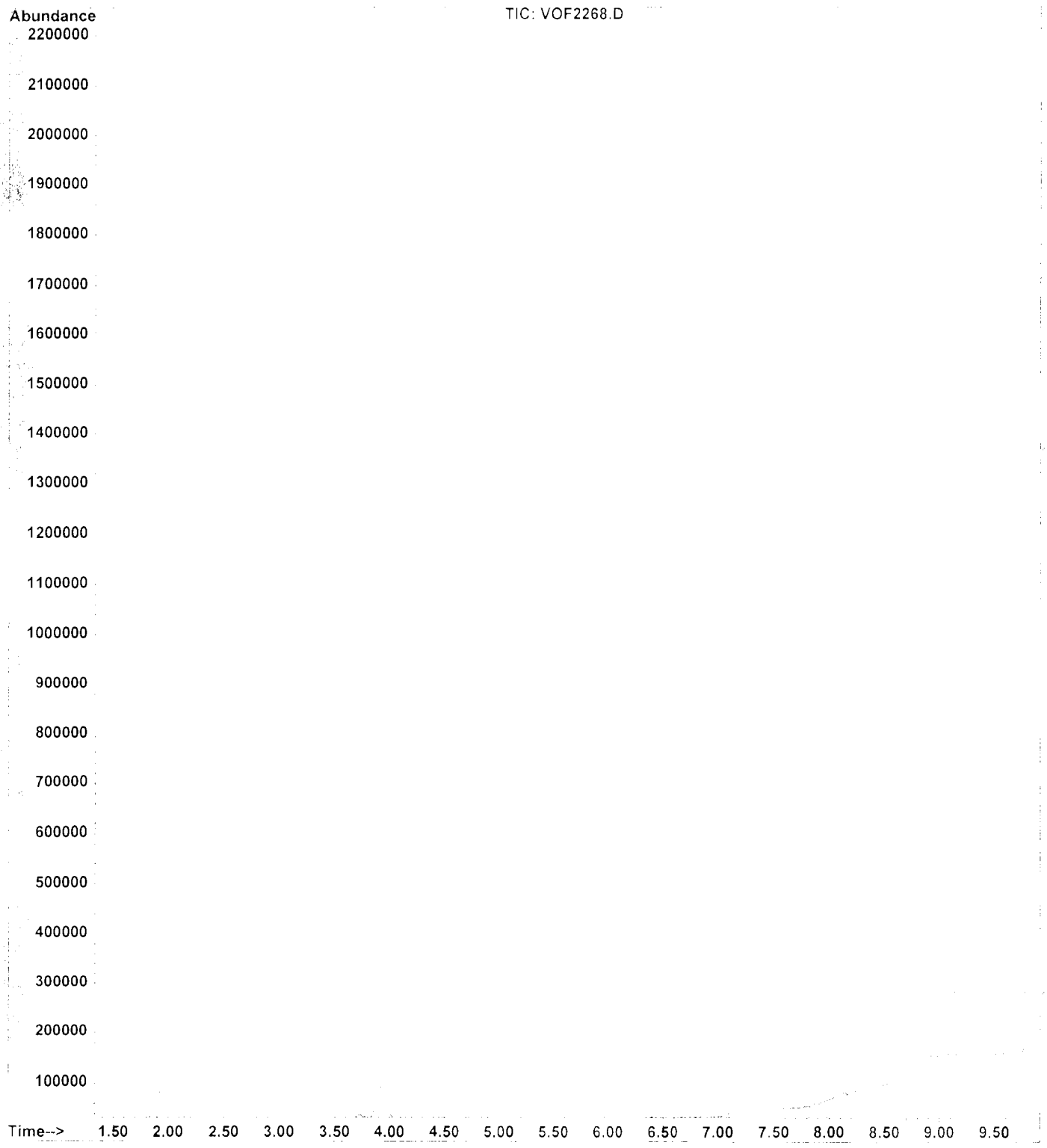
File : C:\HPCHEM\1\DATA\VOF2266.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 1:26 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP1-10032-45
Misc Info : SFS/FERO 05NOV11 1005 Y2
Vial Number: 1



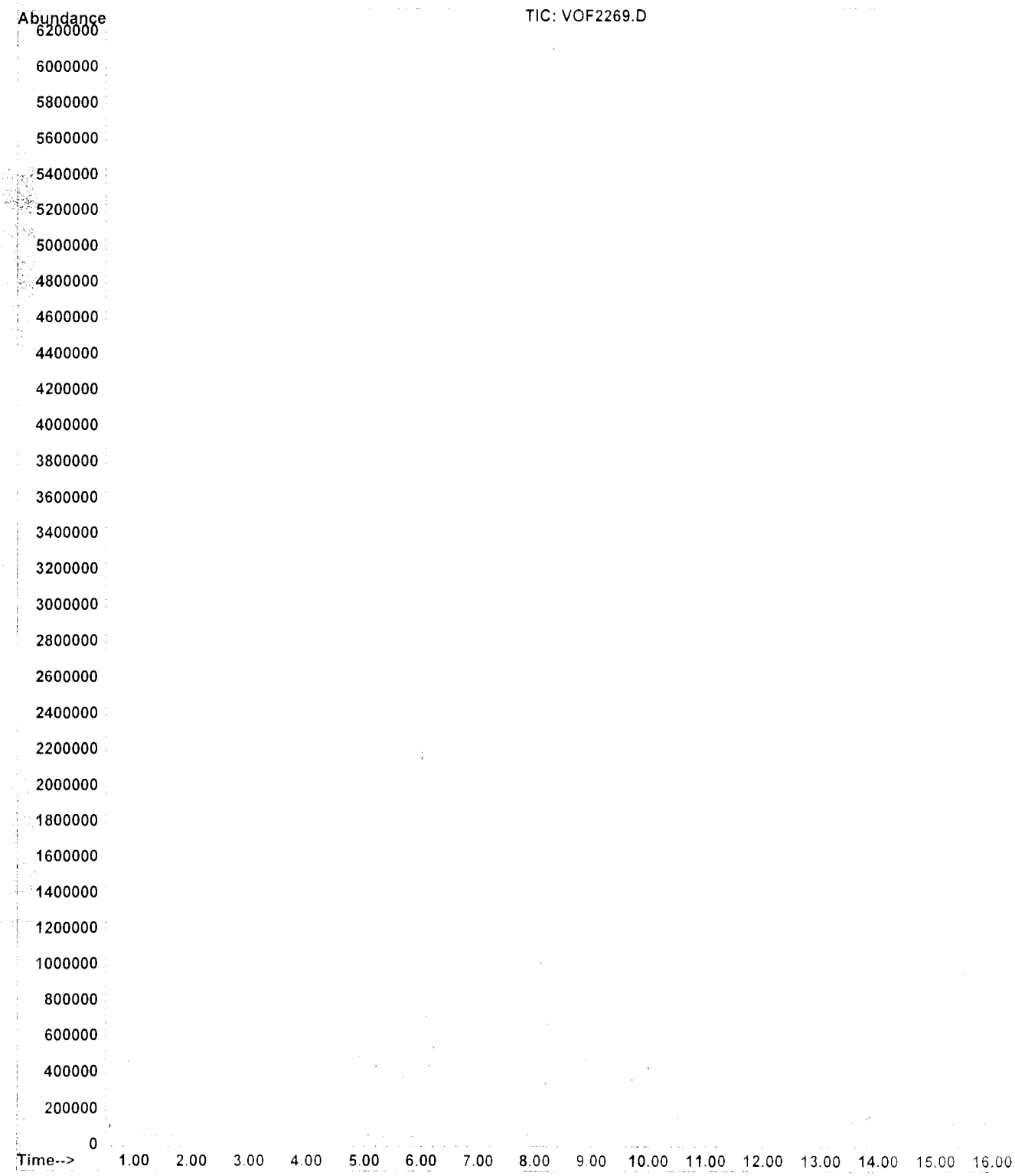
File : C:\HPCHEM\1\DATA\VOF2267.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 1:47 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP1-10033-60
Misc Info : SFS/FERO 05NOV11 1010 A8
Vial Number: 1



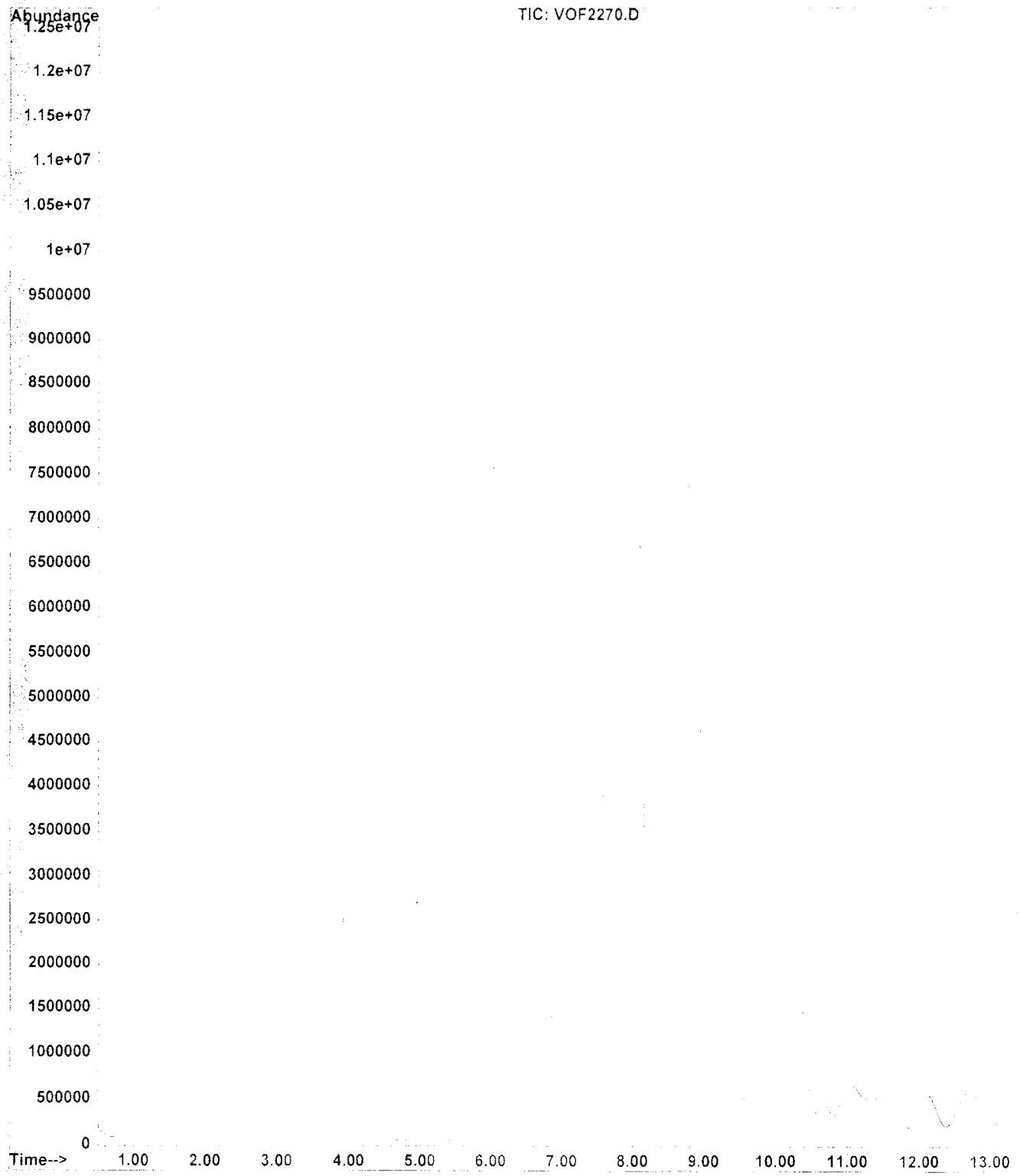
File : C:\HPCHEM\1\DATA\VOF2268.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 2:05 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP3-10034-5
Misc Info : SFS/FERO 05NOV11 1041 A99
Vial Number: 1



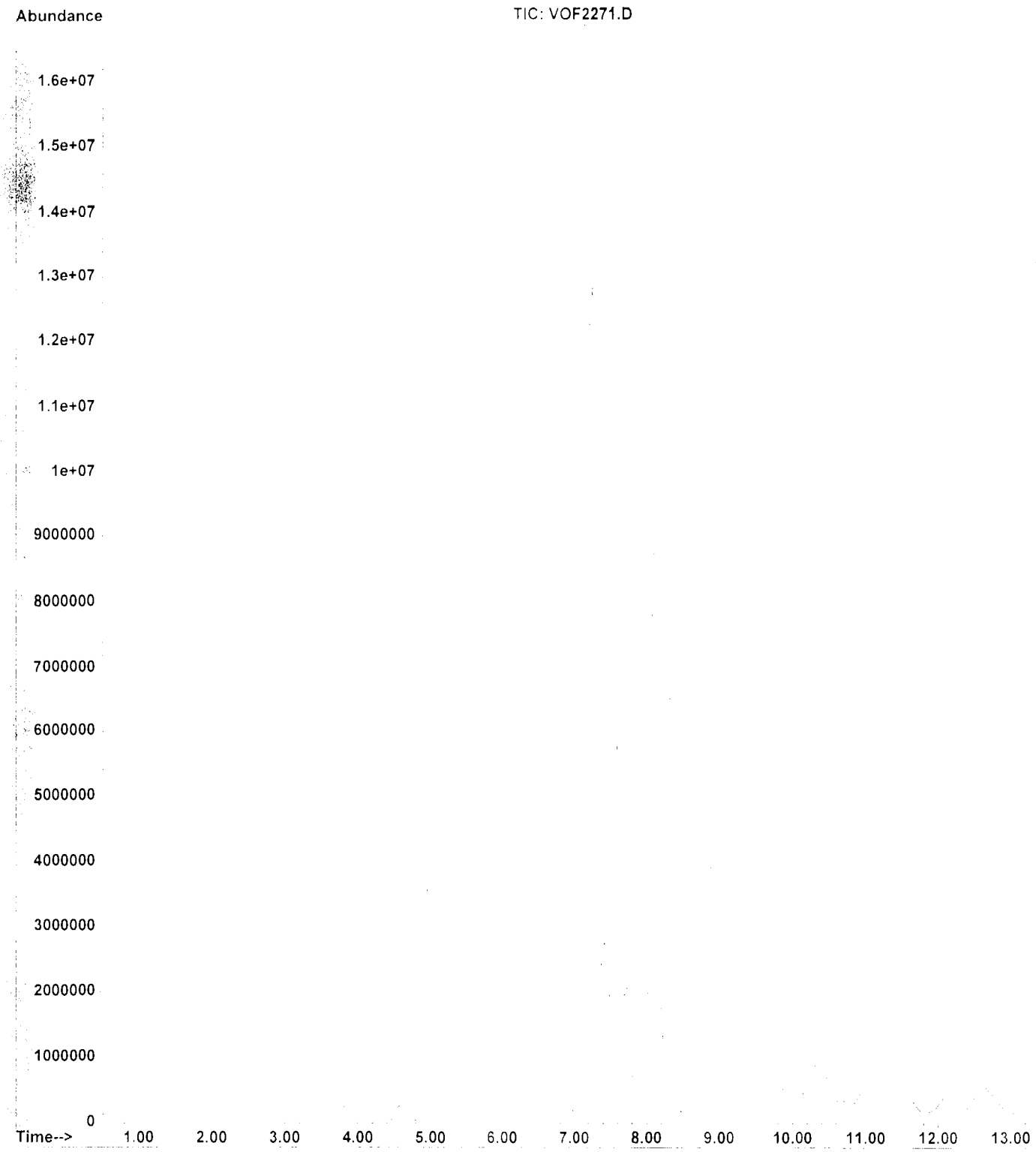
File : C:\HPCHEM\1\DATA\VOF2269.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 2:20 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP3-10035-15
Misc Info : SFS/FERO 05NOV11 1045 A28
Vial Number: 1



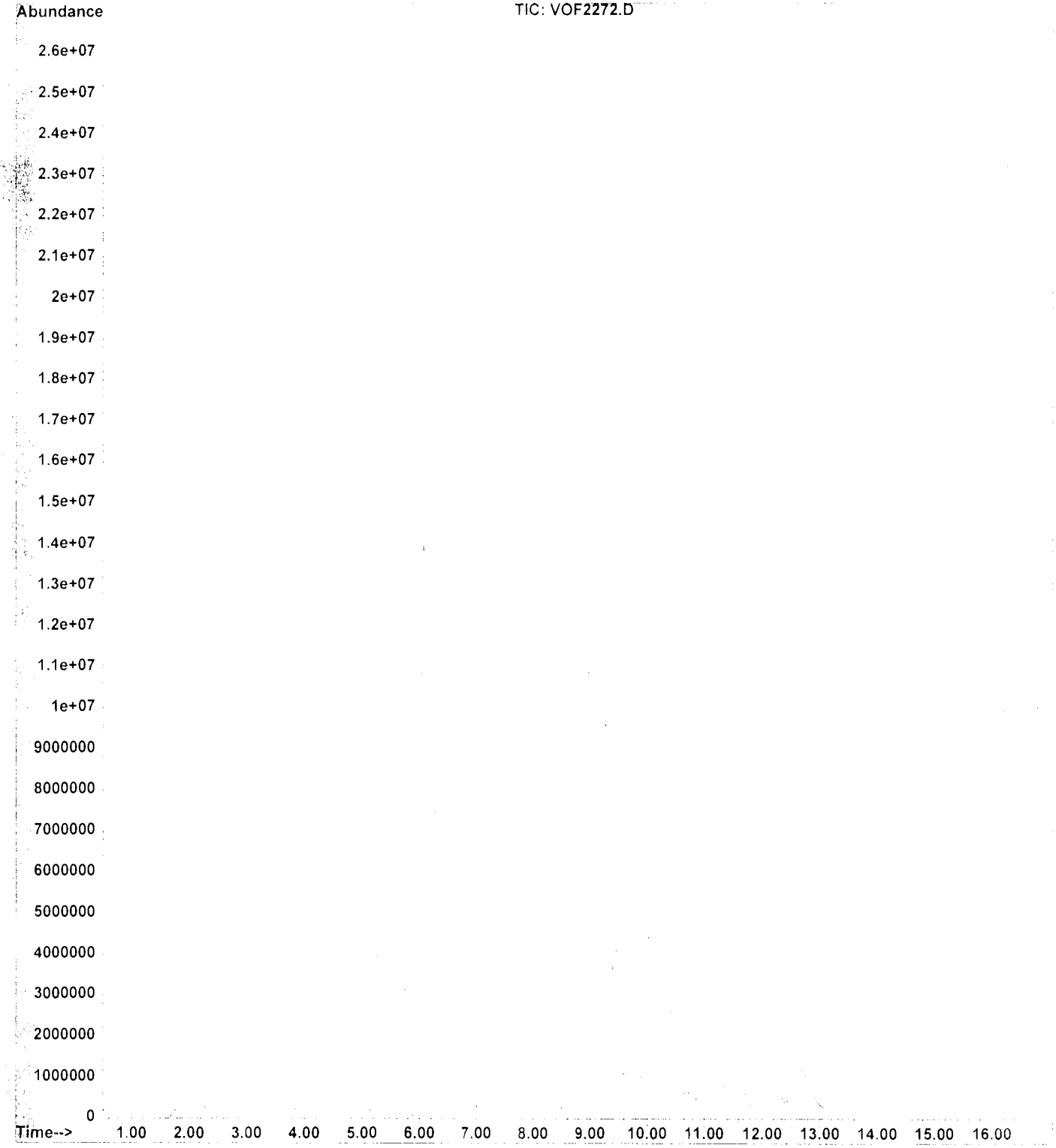
File : C:\HPCHEM\1\DATA\VOF2270.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 2:42 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP3-10036-30
Misc Info : SFS/FERO 05NOV11 1050 A22
Vial Number: 1



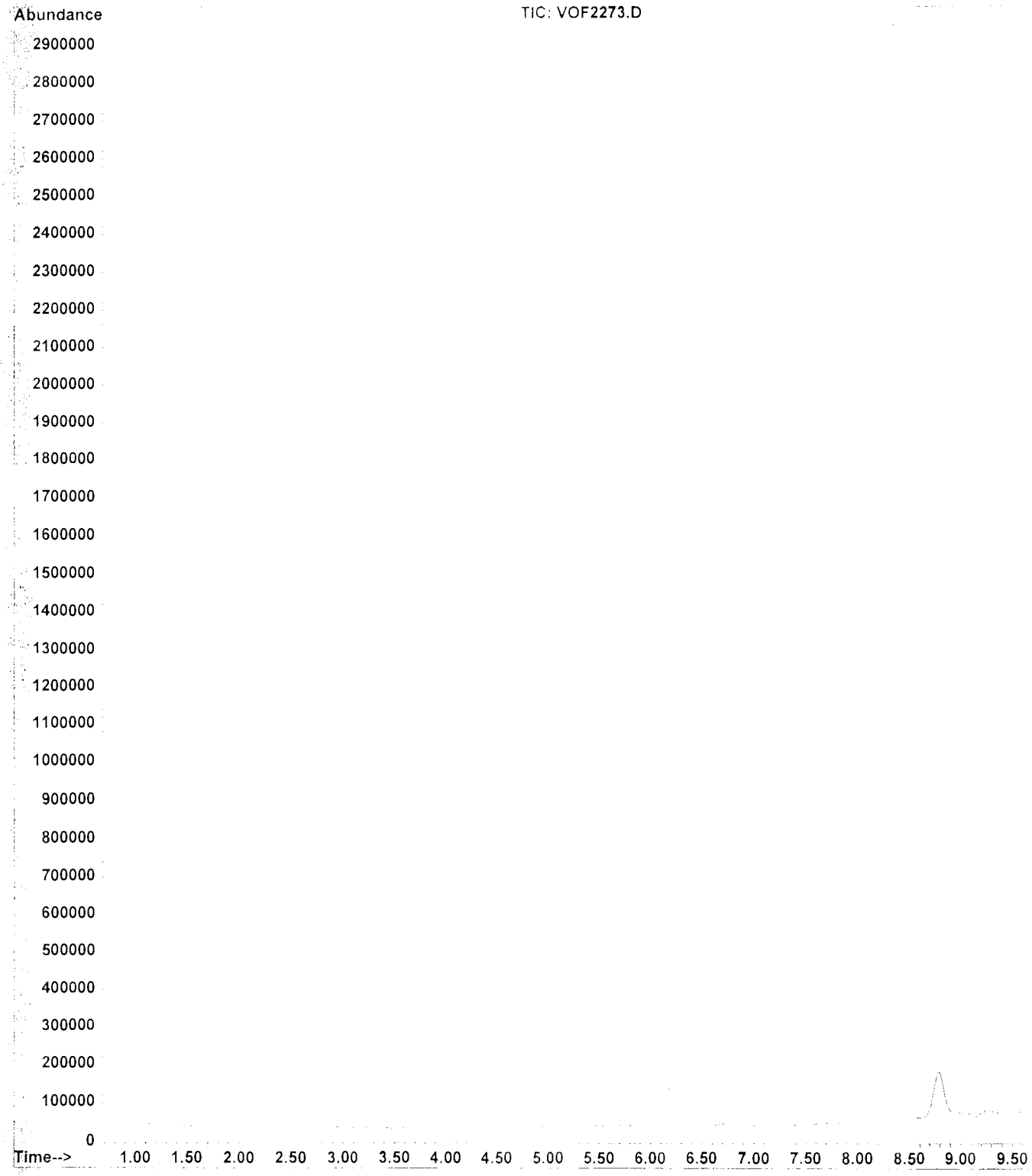
File : C:\HPCHEM\1\DATA\VOF2271.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 3:01 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP3-10037-60
Misc Info : SFS/FERO 05NOV11 1100 A6
Vial Number: 1



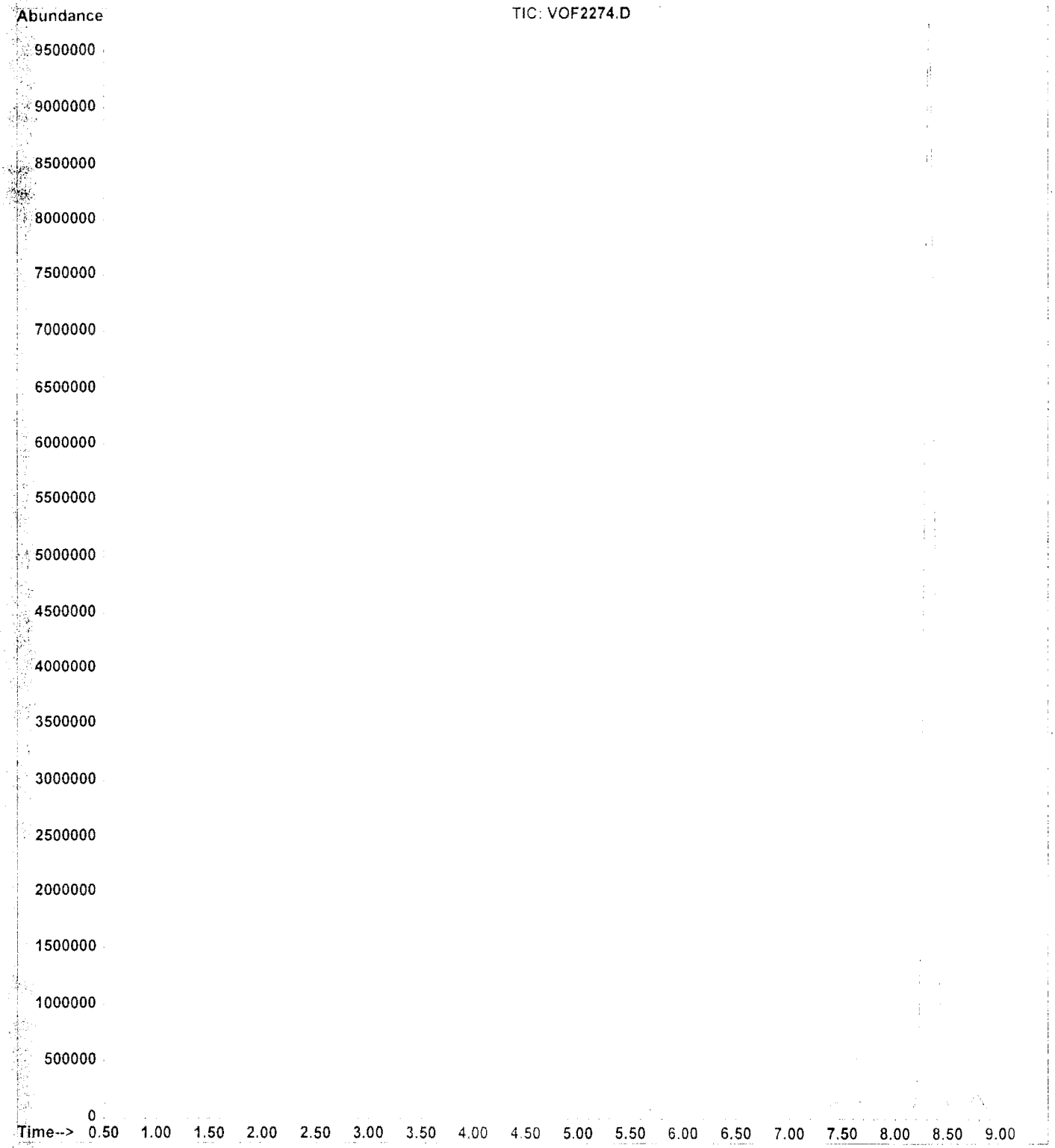
File : C:\HPCHEM\1\DATA\VOF2272.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 3:21 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP3-10038-90
Misc Info : SFS/FERO 05NOV11 1110 A1
Vial Number: 1



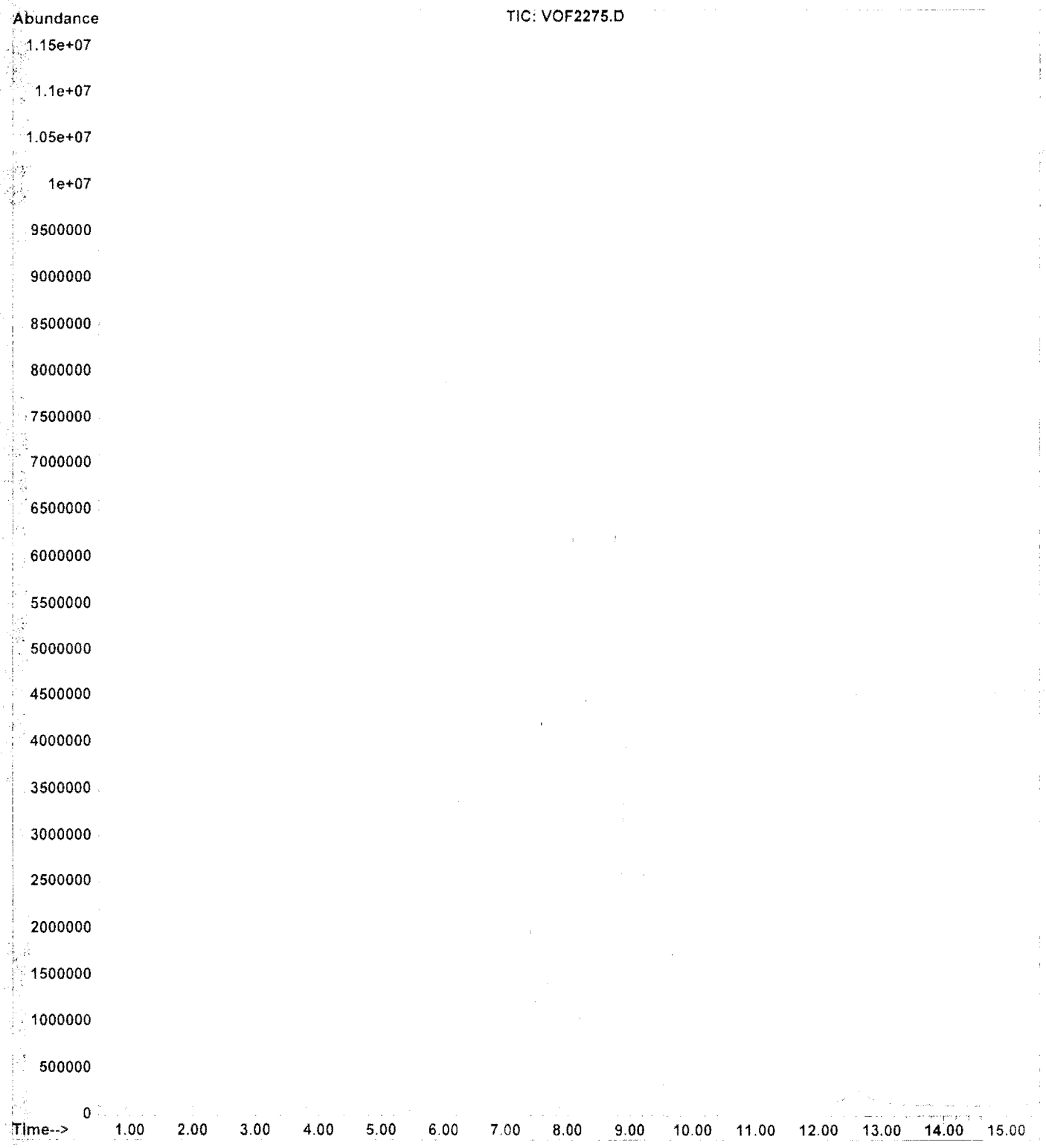
File : C:\HPCHEM\1\DATA\VOF2273.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 3:45 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP4-10039-5
Misc Info : SFS/FERO 05NOV11 1111 W1
Vial Number: 1



File : C:\HPCHEM\1\DATA\VOF2274.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 4:00 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP4-10040-15
Misc Info : SFS/FERO 05NOV11 1115 A18
Vial Number: 1

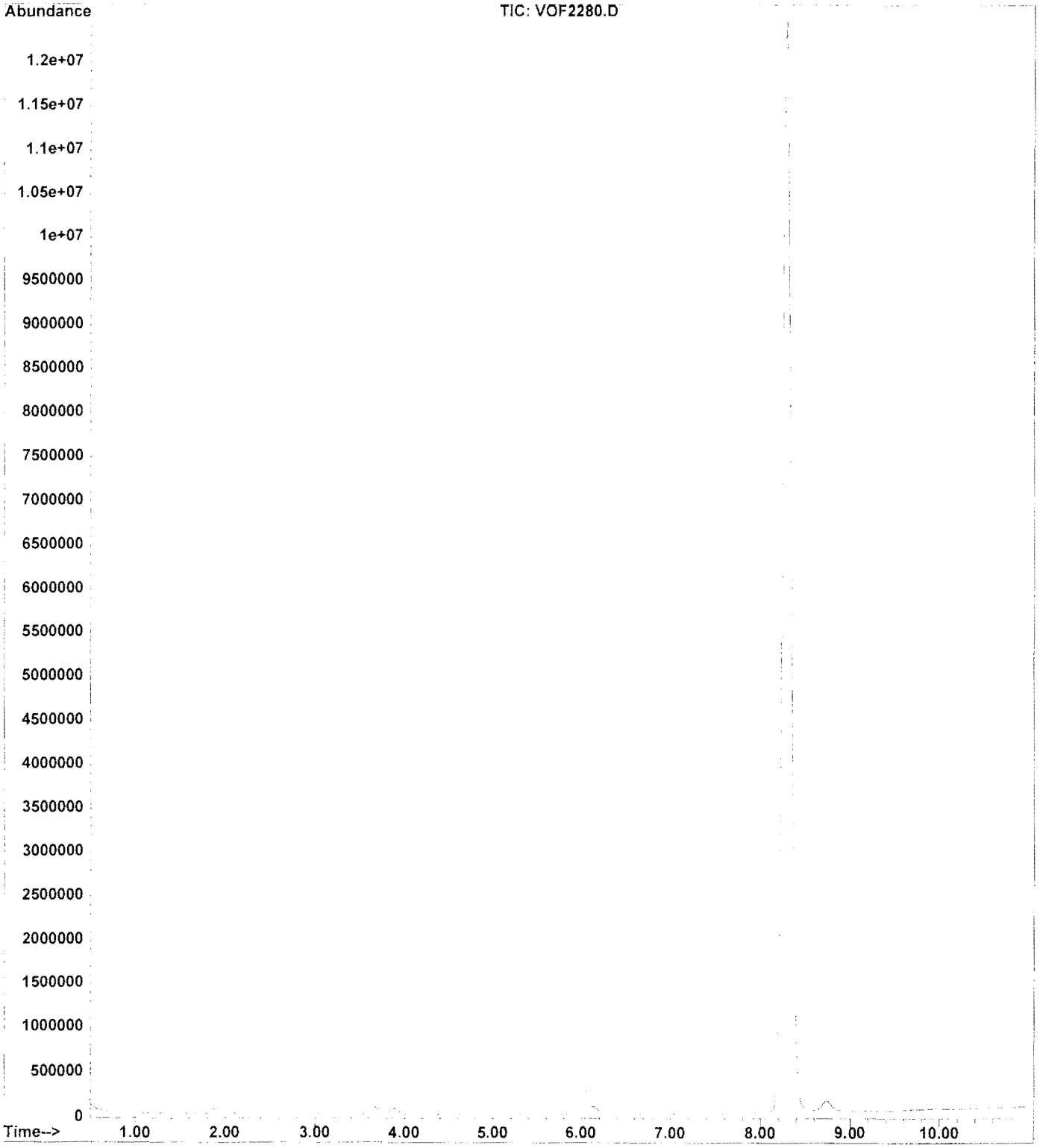


File : C:\HPCHEM\1\DATA\VOF2275.D
Operator : Raphe HGS
Acquired : 5 Nov 2011 4:16 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FVP4-10041-30
Misc Info : SFS/FERO 05NOV11 1120 A4
Vial Number: 1

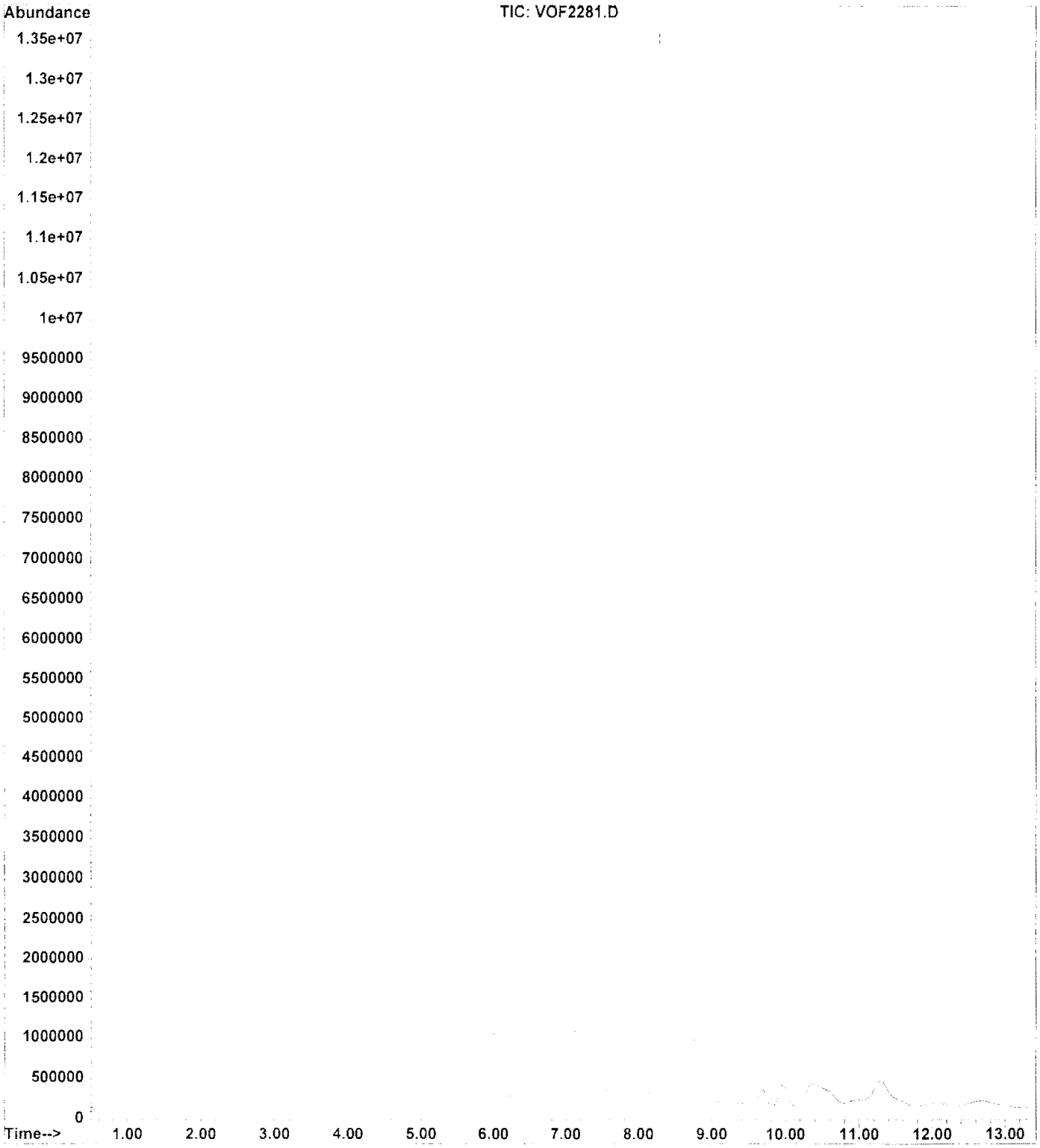


File : C:\HPCHEM\1\DATA\VOF2279.D
Operator : Raphe HGS
Acquired : 8 Nov 2011 2:15 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FP1-10042-5
Misc Info : SFS/FERO 08NOV11 1226 A22
Vial Number: 1

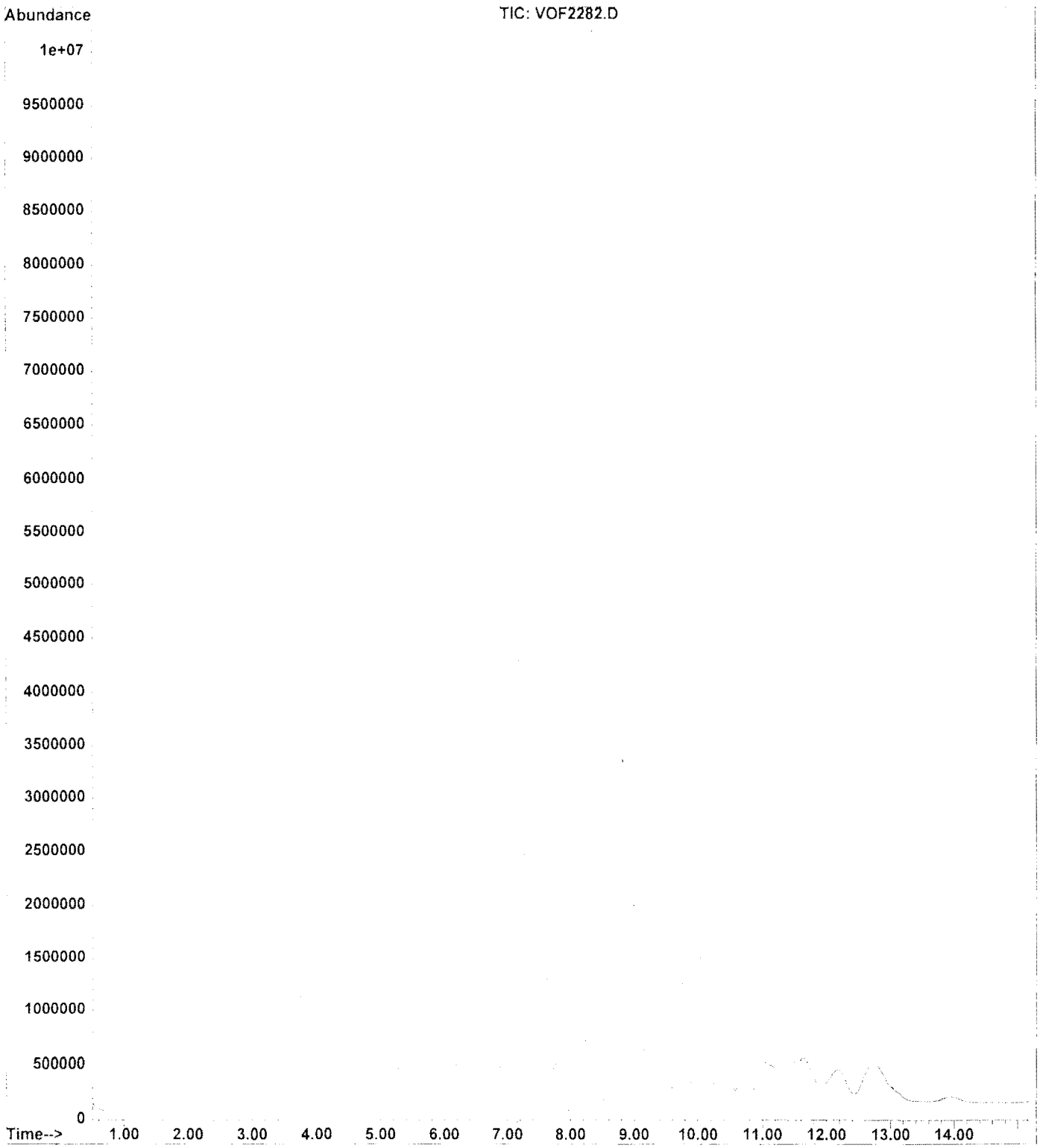
File : C:\HPCHEM\1\DATA\VOF2280.D
Operator : Raphe HGS
Acquired : 8 Nov 2011 2:30 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FP1-10043-15
Misc Info : SFS/FERO 08NOV11 1230 Y2
Vial Number: 1



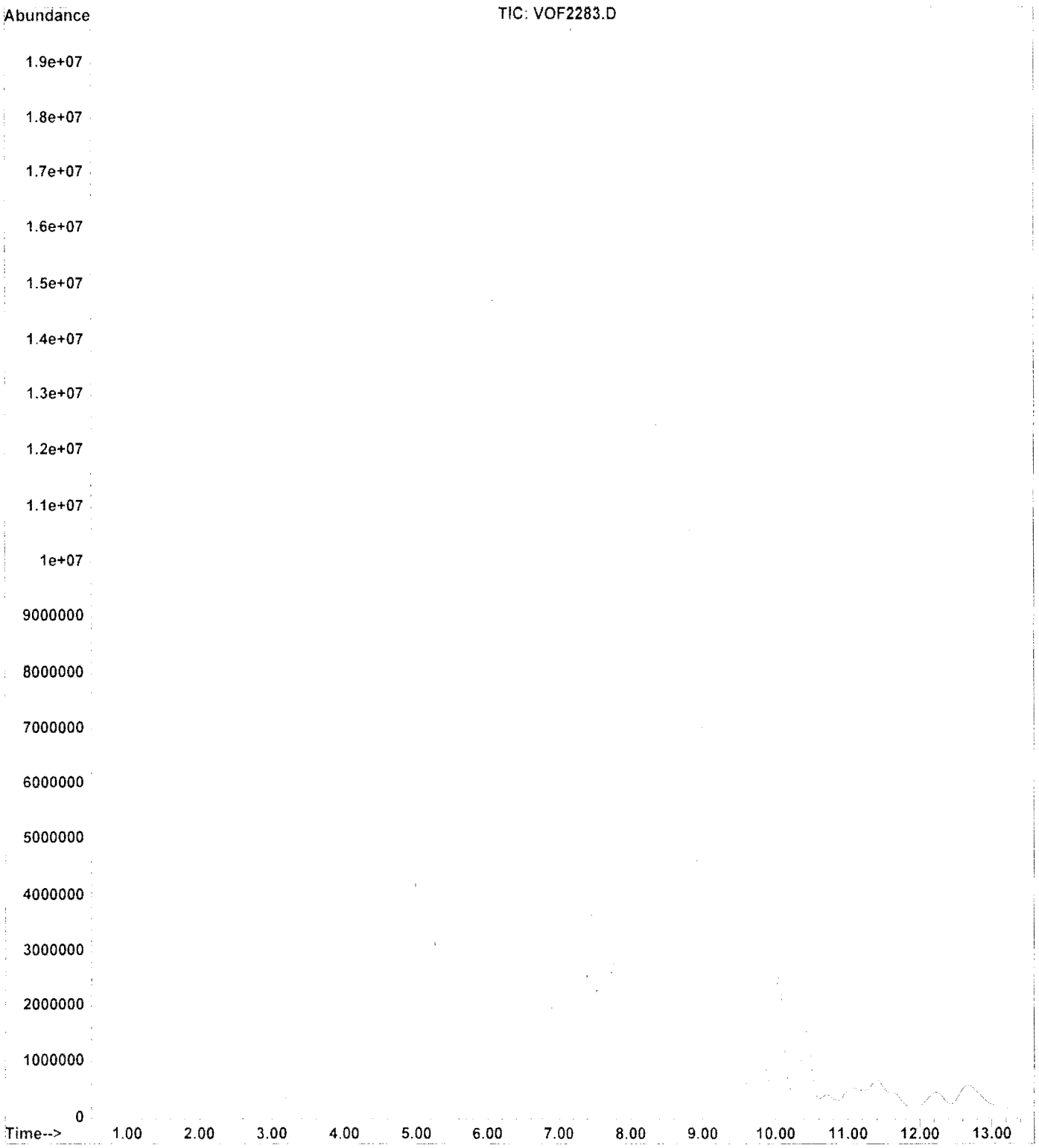
File : C:\HPCHEM\1\DATA\VOF2281.D
Operator : Raphe HGS
Acquired : 8 Nov 2011 2:47 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FP1-10044-30
Misc Info : SFS/FERO 08NOV11 1235 Y8
Vial Number: 1



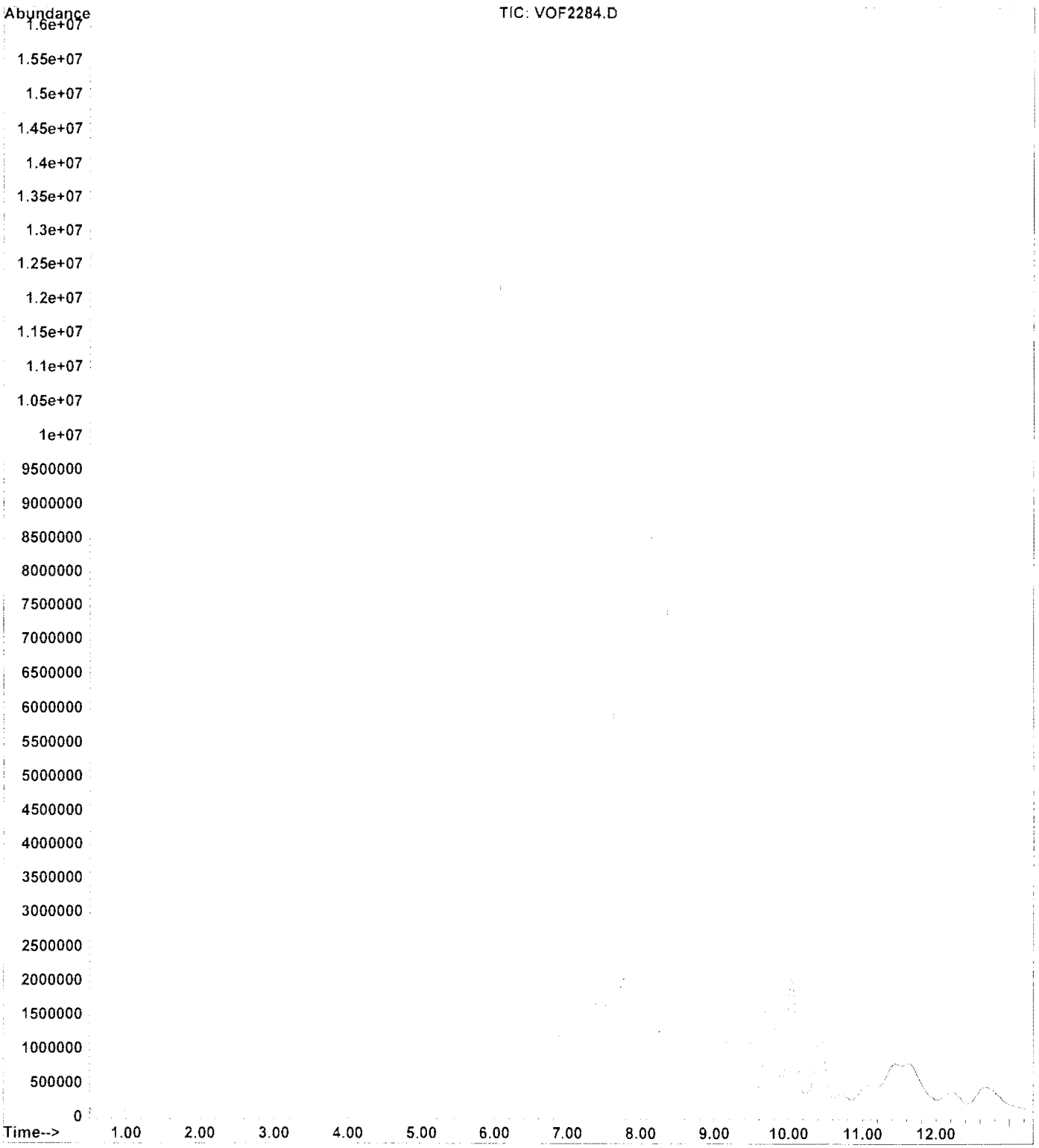
File : C:\HPCHEM\1\DATA\VOF2282.D
Operator : Raphe HGS
Acquired : 8 Nov 2011 3:07 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FP1-10045-45
Misc Info : SFS/FERO 08NOV11 1240 A24
Vial Number: 1



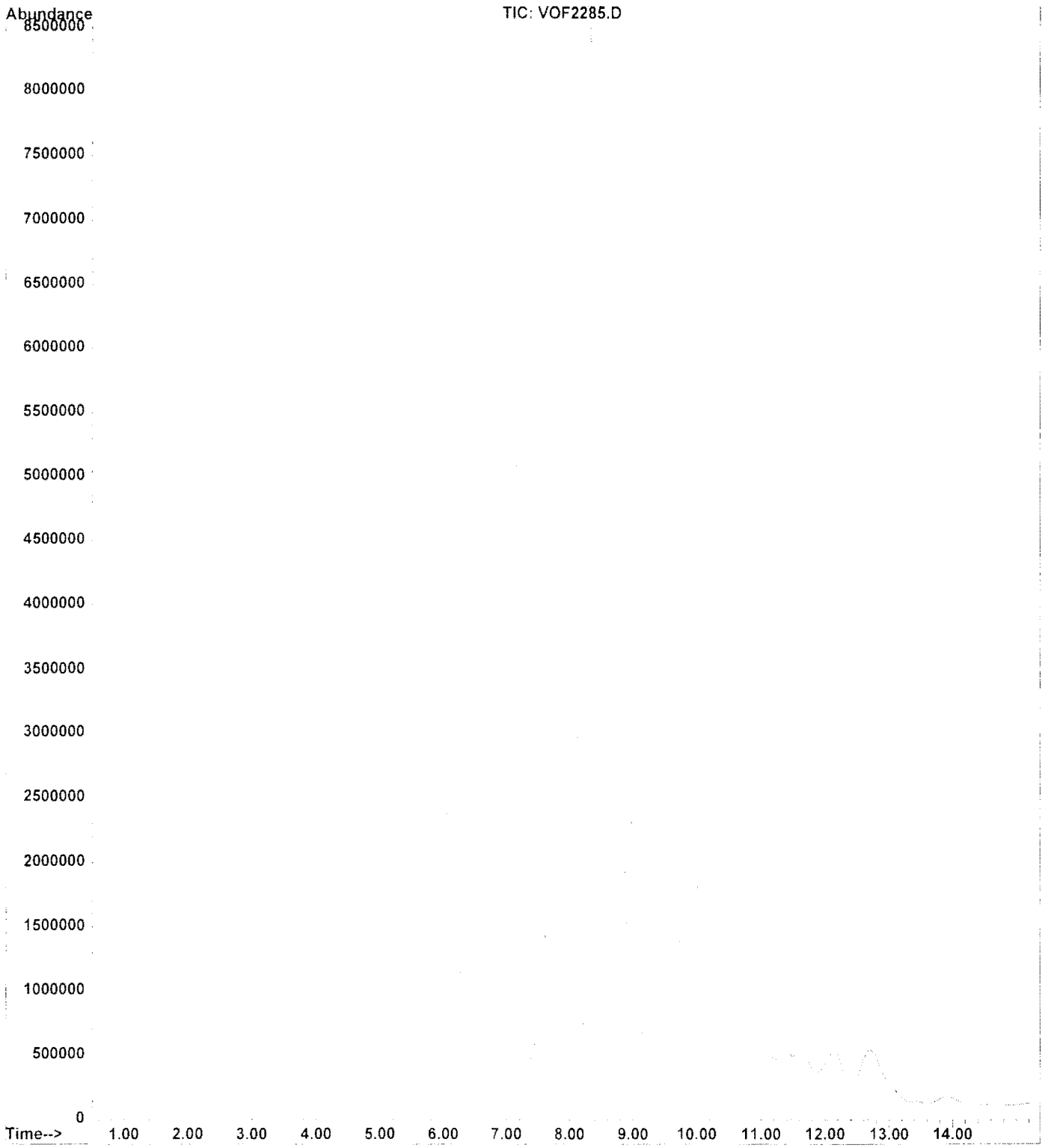
File : C:\HPCHEM\1\DATA\VOF2283.D
Operator : Raphe HGS
Acquired : 8 Nov 2011 3:27 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FP1-10046-60
Misc Info : SFS/FERO 08NOV11 1245 E2
Vial Number: 1



File : C:\HPCHEM\1\DATA\VOF2284.D
Operator : Raphe HGS
Acquired : 8 Nov 2011 3:46 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FP2-10047-60
Misc Info : SFS/FERO 08NOV11 1256 A12
Vial Number: 1



File : C:\HPCHEM\1\DATA\VOF2285.D
Operator : Raphe HGS
Acquired : 8 Nov 2011 4:05 pm using AcqMethod 082311
Instrument : GC/MS Ins
Sample Name: FP2-10048-45
Misc Info : SFS/FERO 08NOV11 1251 A7
Vial Number: 1



ATTACHMENT E

Laboratory Report
Enviro-Chem Laboratories

Date: November 8, 2011

Mr. John Petersen
Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

Project: **Continental Heat Treating / 10-758**

Dear Mr. Peterson:

The analytical results for the soil samples received by our laboratory on October 28, 2011, are attached. All samples were received chilled, intact and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

LABORATORY REPORT FORM

LABORATORY NAME: ENVIRO-CHEM, INC.

ADDRESS: 1214 E. LEXINGTON AVE., POMONA, CA 91766

LABORATORY CERTIFICATION
(ELAP) No.: 1555 EXPIRATION DATE: 06/30/2013

LABORATORY DIRECTOR'S NAME: CURTIS DESILETS

LABORATORY'S DIRECTOR SIGNATURE: _____

CLIENT: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

PROJECT: **Continental Heat Treating / 10-758**

ANALYTICAL METHODS: EPA 5035/8260B; EPA 8015B (TPH-CARBON CHAIN)
EPA 6010B/7471A/7196A

SAMPLING DATE(S): 10/26-27/11 DATE RECEIVED: 10/28/11

DATE REPORTED: 11/08/11 SAMPLE MATRIX: SOIL

EXTRACTION METHOD: SEE ATTACHMENTS

EXTRACTION MATERIAL: PER THE METHODS

CHAIN OF CUSTODY RECEIVED: YES NO

---- SAMPLE HEADSPACE DESCRIPTION (%): N/A (EPA 5035)

---- SAMPLE CONTAINER MATERIAL: 4 - VOAS (EPA 5035)
1 - BRASS SLEEVE

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

ORGANIC ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	10	0

SAMPLE CONDITION: CHILLED, INTACT, EPA 5035 MEDIA/TUBE PLUS ONE BRASS SLEEVE

INORGANIC ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	3	0

SAMPLE CONDITION: BRASS SLEEVE; CHILLED & INTACT

MICROBIOLOGICAL ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	0	0

SAMPLE CONDITION:

OTHER TYPES OF ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	0	0

SAMPLE CONDITION:

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
 PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/28/11
DATE EXTRACTED	10/28/11
LAB SAMPLE I.D.	111028-33
CLIENT SAMPLE I.D.	**FVP2-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
 PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/28/11
DATE EXTRACTED	10/28/11
LAB SAMPLE I.D.	111028-33
CLIENT SAMPLE I.D.	**FVP2-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/28/11
DATE EXTRACTED	10/28/11
LAB SAMPLE I.D.	111028-33
CLIENT SAMPLE I.D.	**FVP2-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	0.116
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	11/01/11
DATE EXTRACTED	11/01/11
LAB SAMPLE I.D.	111028-34
CLIENT SAMPLE I.D.	**FVP2-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
 PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	11/01/11
DATE EXTRACTED	11/01/11
LAB SAMPLE I.D.	111028-34
CLIENT SAMPLE I.D.	**FVP2-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	11/01/11
DATE EXTRACTED	11/01/11
LAB SAMPLE I.D.	111028-34
CLIENT SAMPLE I.D.	**FVP2-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	ND
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX:SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED:10/26/11 DATE RECEIVED:10/28/11

DATE ANALYZED	11/01/11
DATE EXTRACTED	11/01/11
LAB SAMPLE I.D.	111028-35
CLIENT SAMPLE I.D.	**FVP2-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
 PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	11/01/11
DATE EXTRACTED	11/01/11
LAB SAMPLE I.D.	111028-35
CLIENT SAMPLE I.D.	**FVP2-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	11/01/11
DATE EXTRACTED	11/01/11
LAB SAMPLE I.D.	111028-35
CLIENT SAMPLE I.D.	**FVP2-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	ND
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX:SOIL REPORTING UNIT: MG/KG (PPM)
 PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED:10/26/11 DATE RECEIVED:10/28/11

DATE ANALYZED	10/28/11
DATE EXTRACTED	10/28/11
LAB SAMPLE I.D.	111028-36
CLIENT SAMPLE I.D.	**FVP2-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
 PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/28/11
DATE EXTRACTED	10/28/11
LAB SAMPLE I.D.	111028-36
CLIENT SAMPLE I.D.	**FVP2-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/28/11
DATE EXTRACTED	10/28/11
LAB SAMPLE I.D.	111028-36
CLIENT SAMPLE I.D.	**FVP2-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	0.006
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
 PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/28/11
DATE EXTRACTED	10/28/11
LAB SAMPLE I.D.	111028-37
CLIENT SAMPLE I.D.	**FVP2-90'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/28/11
DATE EXTRACTED	10/28/11
LAB SAMPLE I.D.	111028-37
CLIENT SAMPLE I.D.	**FVP2-90'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/28/11
DATE EXTRACTED	10/28/11
LAB SAMPLE I.D.	111028-37
CLIENT SAMPLE I.D.	**FVP2-90'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	0.008
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8015B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 1 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26-27/11 DATE RECEIVED: 10/28/11

DATE ANALYZED 11/01/11
DATE EXTRACTED 11/01/11

SAMPLE ID	LAB ID	GASOLINE (C4-C10)	DIESEL (C11-C22)	OIL (C23-C35)	DF
FVP2-5'	111028-33	ND	ND	ND	1
FVP2-15'	111028-34	ND	ND	ND	1
FVP2-30'	111028-35	ND	ND	ND	1
FVP2-60'	111028-36	ND	ND	ND	1
FVP2-90'	111028-37	ND	ND	ND	1
FVP7-5'	111028-38	ND	ND	ND	1
FVP8-5'	111028-39	ND	ND	ND	1
FVP10-5'	111028-40	ND	ND	ND	1
FVP13-5'	111028-41	ND	ND	ND	1
MERHOD BLANK		ND	ND	ND	1
PQL		10	10	50	

COMMENTS
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = DF X PQL
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

METHOD: EPA 6010B/7196A/7471A MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 1 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/27/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/31-11/01/11
LAB SAMPLE I.D.	111028-42
CLIENT SAMPLE I.D.	**FVP11-3'**
DILUTION FACTOR (DF)	1

ELEMENT ANALYZED	**SAMPLE RESULT**	**MB RESULT**	**PQL**	**TTLC LIMIT**	**STLC LIMIT**	**EPA METHOD**
Antimony(Sb)	ND	ND	1.0	500	15	6010B
Arsenic(As)	ND	ND	0.3	500	5.0	6010B
Barium(Ba)	99.3	ND	5.0	10,000	100	6010B
Beryllium(Be)	ND	ND	0.5	75	0.75	6010B
Cadmium(Cd)	ND	ND	0.5	100	1.0	6010B
Chromium(Cr)	17.1	ND	0.5	2,500	560/5@	6010B
Chromium VI (Cr6)	ND	ND	0.1	500	5.0	7196A
Cobalt(Co)	6.22	ND	1.0	8,000	80	6010B
Copper(Cu)	15.4	ND	1.0	2,500	25	6010B
Lead(Pb)	3.68	ND	0.5	1,000	5.0	6010B
Mercury(Hg)	ND	ND	0.1	20	0.2	7471A
Molybdenum(Mo)	ND	ND	5.0	3,500	350	6010B
Nickel(Ni)	10.3	ND	2.5	2,000	20	6010B
Selenium(Se)	ND	ND	1.0	100	1.0	6010B
Silver(Ag)	ND	ND	1.0	500	5.0	6010B
Thallium(Tl)	ND	ND	1.0	700	7.0	6010B
Vanadium(V)	29.0	ND	5.0	2,400	24	6010B
Zinc(Zn)	43.5	ND	0.5	5,000	250	6010B

MB = Method Blank
PQL = Practical Quantitation Limit
ND = The concentration is below the PQL or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 6010B/7196A/7471A MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 1 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/27/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/31-11/01/11
LAB SAMPLE I.D.	111028-43
CLIENT SAMPLE I.D.	**FVP12-3'**
DILUTION FACTOR (DF)	1

ELEMENT ANALYZED	**SAMPLE RESULT**	**MB RESULT**	**PQL**	**TTLC LIMIT**	**STLC LIMIT**	**EPA METHOD**
Antimony(Sb)	ND	ND	1.0	500	15	6010B
Arsenic(As)	ND	ND	0.3	500	5.0	6010B
Barium(Ba)	88.4	ND	5.0	10,000	100	6010B
Beryllium(Be)	ND	ND	0.5	75	0.75	6010B
Cadmium(Cd)	ND	ND	0.5	100	1.0	6010B
Chromium(Cr)	17.2	ND	0.5	2,500	560/5@	6010B
Chromium VI (Cr6)	ND	ND	0.1	500	5.0	7196A
Cobalt(Co)	6.78	ND	1.0	8,000	80	6010B
Copper(Cu)	12.0	ND	1.0	2,500	25	6010B
Lead(Pb)	3.37	ND	0.5	1,000	5.0	6010B
Mercury(Hg)	ND	ND	0.1	20	0.2	7471A
Molybdenum(Mo)	ND	ND	5.0	3,500	350	6010B
Nickel(Ni)	11.4	ND	2.5	2,000	20	6010B
Selenium(Se)	ND	ND	1.0	100	1.0	6010B
Silver(Ag)	ND	ND	1.0	500	5.0	6010B
Thallium(Tl)	ND	ND	1.0	700	7.0	6010B
Vanadium(V)	31.7	ND	5.0	2,400	24	6010B
Zinc(Zn)	38.4	ND	0.5	5,000	250	6010B

MB = Method Blank
PQL = Practical Quantitation Limit
ND = The concentration is below the PQL or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 6010B/7196A/7471A MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 1 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/27/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/31-11/01/11
LAB SAMPLE I.D.	111028-44
CLIENT SAMPLE I.D.	**PVP1a-3'**
DILUTION FACTOR (DF)	1

ELEMENT ANALYZED	**SAMPLE RESULT**	**MB RESULT**	**PQL**	**TTLC LIMIT**	**STLC LIMIT**	**EPA METHOD**
Antimony(Sb)	ND	ND	1.0	500	15	6010B
Arsenic(As)	ND	ND	0.3	500	5.0	6010B
Barium(Ba)	96.7	ND	5.0	10,000	100	6010B
Beryllium(Be)	ND	ND	0.5	75	0.75	6010B
Cadmium(Cd)	ND	ND	0.5	100	1.0	6010B
Chromium(Cr)	15.8	ND	0.5	2,500	560/5@	6010B
Chromium VI (Cr6)	ND	ND	0.1	500	5.0	7196A
Cobalt(Co)	6.01	ND	1.0	8,000	80	6010B
Copper(Cu)	12.1	ND	1.0	2,500	25	6010B
Lead(Pb)	3.10	ND	0.5	1,000	5.0	6010B
Mercury(Hg)	ND	ND	0.1	20	0.2	7471A
Molybdenum(Mo)	ND	ND	5.0	3,500	350	6010B
Nickel(Ni)	10.2	ND	2.5	2,000	20	6010B
Selenium(Se)	ND	ND	1.0	100	1.0	6010B
Silver(Ag)	ND	ND	1.0	500	5.0	6010B
Thallium(Tl)	ND	ND	1.0	700	7.0	6010B
Vanadium(V)	28.4	ND	5.0	2,400	24	6010B
Zinc(Zn)	37.7	ND	0.5	5,000	250	6010B

MB = Method Blank
PQL = Practical Quantitation Limit
ND = The concentration is below the PQL or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

DATA APPROVED BY: _____

QA/QC REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 8 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26-20/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/28/11 & 11/01/11
DATE EXTRACTED	10/28/11 & 11/01/11

SEE ATTACHED PAGES (7)

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

8260 QA/QC Report

Date Analyzed: 10/28/2011 **Matrix:** SOIL
Method: 524BW144 **Unit:** mg/Kg (PPM)
Machine: C

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
Spiked Sample Lab I.D.: 111028-1 MS/MSD

Analyte	S.R.	spk conc	MS	%RC	MSD	%RC	%RPD	ACP %RC	ACP RPD
Trichloroethene	0.00	50.0	46.3	93%	48.5	97%	5%	80-120	0-20
Toluene	0.00	50.0	48.0	96%	46.7	93%	3%	80-120	0-20
Ethylbenzene	0.00	50.0	49.0	98%	47.3	95%	4%	80-120	0-20
Cis-1,2-Dichloroethene	0.00	50.0	51.7	103%	45.7	91%	12%	80-120	0-20
Tetrachloroethene	0.00	50.0	46.5	93%	54.8	110%	16%	80-120	0-20

Lab Control Spike (LCS)

Analyte	spk conc	LCS	%RC	ACP %RC
1,1,1-TCA	50.0	47.9	96%	80-120
Tetrachloroethene	50.0	52.7	105%	80-120
Benzene	50.0	42.7	85%	80-120
Toluene	50.0	48.1	96%	80-120
Ethylbenzene	50.0	47.1	94%	80-120
Chloroform	50.0	43.9	88%	80-120

Calibration date: 4/12/2011

Continuing Calibration Check (CCC)

Analyte	AvgRF	CCRF	%Dev	%RSD
1,1,1-TCA	0.985	1.013	2.84	4.36
Trichloroethene	0.369	0.326	11.65	6.14
Tetrachloroethene	0.983	1.064	8.24	6.54
Toluene	1.552	1.575	1.48	7.84
Chloroform	1.097	1.229	12.03	4.23
Cis-1,2-Dichloroethene	1.534	1.591	3.72	6.76

Surrogate Recovery	spk conc	ACP%	MB %RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			**M-BLK**	**111028-33**	**111028-36**	**111028-37**			
Dibromofluoromethane	25.0	75-125	117%	104%	95%	99%			
Toluene-d8	25.0	75-125	115%	123%	124%	124%			
4-Bromofluorobenzene	25.0	75-125	85%	89%	87%	87%			

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.									
Dibromofluoromethane	25.0	75-125							
Toluene-d8	25.0	75-125							
4-Bromofluorobenzene	25.0	75-125							

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.									
Dibromofluoromethane	25.0	75-125							
Toluene-d8	25.0	75-125							
4-Bromofluorobenzene	25.0	75-125							

** = Surrogate fail due to matrix interference; LCS, MS, MSD are in control therefore the analysis is in control.*
S.R. = Sample Results *%RC = Percent Recovery*
spk conc = Spike Concentration *ACP %RC = Accepted Percent Recovery*
MS = Matrix Spike *MSD = Matrix Spike Duplicate*

Analyzed/Reviewed By: _____

Final Reviewer: _____

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

8260 QA/QC Report

Date Analyzed: 11/1/2011
Method: 524BW144
Machine: C

Matrix: SOIL
Unit: mg/Kg (PPM)

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
Spiked Sample Lab I.D.: 111101- LCS1/LCS2

Analyte	S.R.	spk conc	MS	%RC	MSD	%RC	%RPD	ACP %RC	ACP RPD
Trichloroethene	0.00	50.0	48.3	97%	48.9	98%	1%	80-120	0-20
Toluene	0.00	50.0	47.4	95%	44.7	89%	6%	80-120	0-20
Ethylbenzene	0.00	50.0	47.0	94%	45.5	91%	3%	80-120	0-20
Cis-1,2-Dichloroethene	0.00	50.0	44.6	89%	51.8	104%	15%	80-120	0-20
Tetrachloroethene	0.00	50.0	55.8	112%	53.7	107%	4%	80-120	0-20

Lab Control Spike (LCS)

Analyte	spk conc	LCS	%RC	ACP %RC
1,1,1-TCA	50.0	47.2	94%	80-120
Tetrachloroethene	50.0	55.0	110%	80-120
Benzene	50.0	41.7	83%	80-120
Toluene	50.0	46.7	93%	80-120
Ethylbenzene	50.0	48.0	96%	80-120
Chloroform	50.0	45.0	90%	80-120

Calibration date: 4/12/2011

Continuing Calibration Check (CCC)

Analyte	AvgRF	CCRF	%Dev	%RSD
1,1,1-TCA	0.985	1.013	2.84	4.36
Trichloroethene	0.369	0.326	11.65	6.14
Tetrachloroethene	0.983	1.064	8.24	6.54
Toluene	1.552	1.575	1.48	7.84
Chloroform	1.097	1.229	12.03	4.23
Cis-1,2-Dichloroethene	1.534	1.591	3.72	6.76

Surrogate Recovery	spk conc	ACP%	MB %RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			**M-BLK**	**111028-34**	**111028-35**				
Dibromofluoromethane	25.0	75-125	121%	124%	124%				
Toluene-d8	25.0	75-125	116%	112%	109%				
4-Bromofluorobenzene	25.0	75-125	88%	87%	85%				

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.									
Dibromofluoromethane	25.0	75-125							
Toluene-d8	25.0	75-125							
4-Bromofluorobenzene	25.0	75-125							

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.									
Dibromofluoromethane	25.0	75-125							
Toluene-d8	25.0	75-125							
4-Bromofluorobenzene	25.0	75-125							

** = Surrogate fail due to matrix interference; LCS, MS, MSD are in control therefore the analysis is in control.*

S.R. = Sample Results
spk conc = Spike Concentration
MS = Matrix Spike
%RC = Percent Recovery
ACP %RC = Accepted Percent Recovery
MSD = Matrix Spike Duplicate

Analyzed/Reviewed By: _____

Final Reviewer: _____

GC Sequence #	Standard Name:	Solvent	Stock Standard	Calculation STD V X STD Conc. / Total Volume = Final Conc.	Ref./ Page	Prep. Date	Exp. Date	Initial
2574	8260 B Gas	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 110412 Exp. Date: —	Name: Gas STD Source: Ultra Cat #: DWM-544 Lot #: GC-1486 Exp. Date: 5/13/13	12.5uL X 2000ppm / 0.5mL = 50.0ppm		10/24/2011	10/30/2011	[illegible]
2575	8260 B Gas	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 110412 Exp. Date: —	Name: Gas STD Source: Ultra Cat #: DWM-544 Lot #: GC-1486 Exp. Date: 9/30/14	12.5ul X 2000ppm / 0.5mL = 50.0ppm		10/31/2011	11/6/2011	[illegible]
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				

GC Sequence #	Standard Name:	Solvent	Stock Standard	Calculation STD V X STD Conc. / Total Volume = Final Conc.	Ref./ Page	Prep. Date	Exp. Date	Initial
2437 ~~2461~~ BL	8141 Surrogate + Internal std	Name: Hexane Source: Fisher Cat #: 14307-4 Lot #: 096524 Exp. Date:	Name: Source: check log Cat #: Lot #: Exp. Date:	Book A3 Page 15 X =	A3/15	1/7/2011	1/6/2012	BL
2438	8260 Gas	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 091463 Exp. Date:	Name: Gas standard Source: Ultra Cat #: DWM-544 Lot #: CTC-1486 Exp. Date: 5/13/13	12.5uL x 2000 ppm / 0.50mL = 50ppm		1/10/2011	1/16/2011	SUR
2439	8260 In/surr	Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	detail in Logbook A3. P.16. X =		1/10/2011	7/31/2011	SUR
2440	8260 CCV	Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	detail in Logbook A3 X = P.17.		1/10/2011	1/9/2012	SUR
2441	8260 LCS	Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	detail in Logbook A3 X = P.18		1/10/2011	1/9/2012	SUR
2442	8260 OXY.	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 091463 Exp. Date:	Name: OXY standard Source: Ultra Cat #: RGU-422 Lot #: CD-3554A Exp. Date: 2/28/2012	4% ; 7.3% 12.5uL x / 10.0mL = 50 ; 91.25 ppm		1/10/2011	1/9/2012	SUR
2443	8260 In/surr BFB.	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 091463 Exp. Date:	Name: GC 2439 Source: Cat #: Lot #: Exp. Date: 7/31/2011	1.0mL x 50ppm / 10.0mL = 5.0ppm		1/10/2011	7/31/2011	SUR

Standard Name: 8260B In/Surr **Analyst:** SCH **GC #:** 2518

Preparation Date: 9/15/2011 **Expiration Date:** 8/31/2012

Compound Name	Source	Catalog #	Lot #	Exp date	Calculation STD V x STD Conc / Total Volume =Final Conc	Initial
Internal standard	ultra	STM-341N	CF-2990	8/31/2012	250ul X 2000ppm / 10.0mL = 50ppm	SCH
Surrogate "	ultra	STM-330N	CE-3401A	11/30/2012	250ul X 2000ppm / 10.0mL = 50ppm	SCH
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
STM-330N-1 Lot: CE-3401A Exp: 11/30/2012 ULTRA 1 mL Surrogate Standard Mixture 3 analyte(s) at 2000 µg/mL in methanol 250 Smith St, Ste Kingstown, RI 02852 USA For Lab Use Only	STM-341N-1 Lot: CF-2990 Exp: 08/31/2012 ULTRA 1 mL Internal Standard Mixture 4 analyte(s) at 2000 µg/mL in methanol 250 Smith St, Ste Kingstown, RI 02852 USA For Lab Use Only				X =	
					X =	
					X =	

Total Standard Volume: 500ul Added Solvent Volume: 9.50mL Final Volume: 10.0mL

Standard Name: 8260.CCV. **Analyst:** Sch **GC #:** 2440

Preparation Date: 1/10/2011 **Expiration Date:** 1/9/2012

Compound Name	Source	Catalog #	Lot #	Exp date	Calculation STD V x STD Conc / Total Volume =Final Conc	Initial
Acrolein	GC-2444			1/9/2012	0.625mL X 2000ppm / 25mL = 50ppm	Sch
Voc Mixture	Ultra Scientific	DWM-592	CF-0062	2/28/2012	0.625mL X 2000ppm / 25mL = 50ppm	Sch
Voc Mixture	"	DWM-589	CG-0088	2/28/2013	0.625mL X 2000ppm / 25mL = 50ppm	Sch
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	

Total Standard Volume: 1.875mL Added Solvent Volume: 23.125mL Final Volume: 25mL

Standard Name: 8260 LCS **Analyst:** SLH **GC #:** 2441

Preparation Date: 1/10/2011 **Expiration Date:** 1/9/2012

Compound Name	Source	Catalog #	Lot #	Exp date	Calculation STD V x STD Conc / Total Volume =Final Conc	Initial
Acrolein	GC-2444			1/9/2012	0.625mL X 2000ppm / 25.0mL = 50ppm	[illegible]
Voc Mixture	Certiliant	ERS-079	ER10160701	10/2012	0.625mL X 2000ppm / 25.0mL = 50ppm	[illegible]
Voc Mixture	ultra	DWM-592	CG-2384	8/31/2013	0.625mL X 2000ppm / 25.0mL = 50ppm	[illegible]
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	

Total Standard Volume: 1.875mL Added Solvent Volume: 23.125mL Final Volume: 25.0mL

QA/QC REPORT

METHOD: EPA 8015B MATRIX:SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 2 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED:10/26-27/11 DATE RECEIVED:10/28/11

DATE ANALYZED	11/01/01
DATE EXTRACTED	11/01/01

SEE ATTACHED PAGE

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

8015B QA/QC Report

Date Analyzed: 11/1/2011 **Units:** mg/Kg (ppm)

Matrix: **Soil/Solid/Sludge/Liquid**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **111028-36 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	2500	2440	98%	2500	100%	2%	75-125	0-20%

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	219	110%	75-125

Analyzed and Reviewed By: _____

Final Reviewer: _____

QA/QC REPORT

METHOD: EPA 6010B/7471A/7196A MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/26-27/11 DATE RECEIVED: 10/28/11

DATE ANALYZED	10/28/11
DATE EXTRACTED	10/28/11

SEE ATTACHED PAGES (2)

QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 10/31/2011 Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic(As)	111026-23	1.00	102	PASS	0	50.0	43.4	87%	43.6	87%	0%
Cadmium(Cd)	111026-23	1.00	105	PASS	1.14	50.0	43.0	84%	42.9	84%	0%
Lead(Pb)	111026-23	1.00	105	PASS	2.35	50.0	46.0	87%	46.5	88%	1%

ANALYSIS DATE. : 10/31/2011

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	111031-1	0.125	93.4	PASS	0	0.125	0.108	86%	0.112	90%	4%

MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Cadmium(Cd)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
Accepted Range	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: _____

FINAL REVIEWER: _____

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766
Tel (909)590-5905 Fax (909)590-5907

Matrix: Soil/Solid/Sludge

QA/QC Report

Analysis	Units	Date Analyzed	Sample I.D.	S.R.	Duplicate	% RPD	ACP %RPD
Alkalinity	mg/L					0.00%	0-20
Residual Chlorine	mg/Kg	5/10/2010	100506-47	0.0	0.0	0.00%	0-20
EPA 1664A	mg/Kg					0.00%	0-20
EC	umhos/cm	10/28/2010	101028-5	203	205	0.98%	0-20
pH	pH units	11/1/2011	111101-5	12.59	12.60	0.08%	0-20
TDS	mg/L					0.00%	0-20
TSS	mg/Kg					0.00%	0-20
Resistivity	ohms	10/28/2010	101028-5	4926	4878	0.98%	0-20
% SOLID	%	11/1/2011	111101-4	23.6	23.9	1.26%	0-20
BTU	BTU/lb	11/1/2011	111101-2	10951	11232	2.53%	0-20
% MOISTURE	%	10/26/2011	111025-18	23.2	23.6	1.71%	0-20

%RPD = Relative Percent Difference **ACP %RPD** = Acceptable Relative Percent Difference

Analysis	Units	Date Analyzed	Sample I.D.	Spk Conc	S.R.	ACP %RPD	ACP %RC	MS	MS %RC	MSD	MSD %RC	% RPD
Acidity	mg/Kg					0-20	80-120					#VALUE!
Ammonia as N	mg/Kg					0-20	80-120					#VALUE!
MBAS	mg/Kg	10/22/2010	LCS1/2	6.0	0.0	0-20	80-120	5.02	84%	5.24	87%	3.7%
Chloride	mg/Kg	10/28/2010	LCS1/2	200	0.0	0-20	80-120	174	87%	174	87%	0.0%
COD	mg/Kg	5/10/2010	LCS1/2	5000.0	0.0	0-20	80-120	4154	83%	4068	81%	1.7%
Cr VI	mg/Kg	11/1/2011	111028-42	4.0	0.000	0-20	80-120	3.33	83%	3.36	84%	0.7%
Cyanide	mg/Kg	10/14/2011	110927-16	10.0	0.00	0-20	80-120	9.11	91%	8.79	88%	3.2%
Fluoride	mg/Kg	8/20/2010	100820-7	10.0	0.2	0-20	80-120	10.2	100%	9.69	95%	5.1%
Nitrate as N	mg/Kg	10/13/2010	LCS1/2	4.00	0.0	0-20	80-120	3.34	84%	3.47	87%	3.3%
Nitrite as N	mg/Kg	10/13/2010	LCS1/2	4.00	0.0	0-20	80-120	3.67	92%	3.75	94%	2.0%
Oil and Grease	mg/Kg	10/11/2010	LCS1/2	667	0	0-20	80-120	653	98%	667	100%	2.1%
Phenolics	mg/Kg					0-20	80-120					#VALUE!
Sulfate	mg/Kg	10/21/2011	LCS1/2	200.0	0.0	0-20	80-120	171	86%	174	87%	1.5%
Sulfide	mg/Kg	5/21/2010	100519-65	3.0	0.0	0-20	80-120	2.60	87%	2.55	85%	1.7%
TRPH	mg/Kg	11/1/2011	111031-130	667	65.3	0-20	80-120	593	79%	598	80%	0.7%
Sulfide, Dissolved /	mg/Kg	10/21/2011	LCS1/2	3.0	0.0	0-20	80-120	2.73	91%	2.63	88%	3.3%
Sulfide, Reactive	mg/Kg	10/1/2010	101001-9	3.0	0.0	0-20	80-120	2.60	87%	2.60	87%	0.0%

S.R. = Sample Results **%RC** = Percent Recovery **ACP %RC** = Accepted Percent Recovery **Spk Conc** = Spike Concentration

Analyst Signature: WJ

Final Reviewer: CH

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
~~0~~ 1 Week (Standard)
Other:

Misc.

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION 5035	8260B	TPH cond	Cam Metals	7196A · CAG						COMMENTS
FVP2-5'	1108-33	10/26/11	0900	Soil	5	4x 5035 1x pt	x	X	X								
FVP2-15'	-34		0915		5		x	X	X								
FVP2-30'	-35		0932		5		x	X	X								
FVP2-60'	-36		1030		5		x	X	X								
FVP2-90'	-37		1104		5		x	X	X								
FVP7-5'	-38	10/27/11	1020		1	1x pt			X								
FVP8-5'	-39		1130		1				X								
FVP10-5'	-40		200p		1				X								
FVP13-5'	-41		300p		1				X								
FVP11-3'	-42		215p		1	4oz				X	X						
FVP12-3'	-43		230p		1					X	X						
TVP1a-3'	-44		245p		1					X	X						

Analysis Required

Company Name: Fero Eng	Project Contact: John Peterson	Sampler's Signature: [signature]
Address: 431 W. Lambert Rd. #305	Tel:	Project Name/ID: Continental Heat Treating / 10-758
City/State/Zip: Brea CA 92821	Fax:	

Relinquished by: [signature]	Received by: [signature]	Date & Time: 10/28/11 9:21	Instructions for Sample Storage After Analysis:
Relinquished by: [signature]	Received by: [signature]	Date & Time: 10/28/11 1500	✓ Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other:

CHAIN OF CUSTODY RECORD

Date: _____

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date: October 28, 2011

Mr. John Petersen
Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

Project: **Continental Heat Treating / 10-758**

Dear Mr. Peterson:

The analytical results for the soil samples received by our laboratory on October 21, 2011, are attached. All samples were received chilled, intact and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

LABORATORY REPORT FORM

LABORATORY NAME: ENVIRO-CHEM, INC.

ADDRESS: 1214 E. LEXINGTON AVE., POMONA, CA 91766

LABORATORY CERTIFICATION
(ELAP) No.: 1555 EXPIRATION DATE: 06/30/2013

LABORATORY DIRECTOR'S NAME: CURTIS DESILETS

LABORATORY'S DIRECTOR SIGNATURE: _____

CLIENT: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

PROJECT: **Continental Heat Treating / 10-758**

ANALYTICAL METHODS: EPA 5035/8260B; EPA 8015B (TPH-CARBON CHAIN)

SAMPLING DATE(S): 10/21/11 DATE RECEIVED: 10/21/11

DATE REPORTED: 10/28/11 SAMPLE MATRIX: SOIL

EXTRACTION METHOD: SEE ATTACHMENTS

EXTRACTION MATERIAL: PER THE METHODS

CHAIN OF CUSTODY RECEIVED: YES NO

---- SAMPLE HEADSPACE DESCRIPTION (%): N/A (EPA 5035)

---- SAMPLE CONTAINER MATERIAL: 4 - VOAS (EPA 5035)
1 - BRASS SLEEVE

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

ORGANIC ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	5	0

SAMPLE CONDITION: CHILLED, INTACT, EPA 5035 MEDIA/TUBE PLUS ONE BRASS SLEEVE

INORGANIC ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	0	0

SAMPLE CONDITION:

MICROBIOLOGICAL ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	0	0

SAMPLE CONDITION:

OTHER TYPES OF ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	0	0

SAMPLE CONDITION:

LABORATORY REPORT

METHOD: EPA 8015B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 1 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/21/11 DATE RECEIVED: 10/21/11

DATE ANALYZED 10/24/11
DATE EXTRACTED 10/24/11

SAMPLE ID	LAB ID	GASOLINE (C4-C10)	DIESEL (C11-C22)	OIL (C23-C35)	DF
FVP4-5'	111021-77	ND	ND	ND	1
FVP4-15'	111021-78	ND	ND	ND	1
FVP4-30'	111021-79	ND	ND	ND	1
FVP4-60'	111021-80	ND	ND	ND	1
FVP4-90'	111021-81	ND	ND	ND	1
METHOD BLANK		ND	ND	ND	1
PQL		10	10	50	

COMMENTS
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = DF X PQL
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC REPORT

METHOD: EPA 8015B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 2 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/21/11 DATE RECEIVED: 10/21/11

DATE ANALYZED	10/24/11
DATE EXTRACTED	10/24/11

SEE ATTACHED PAGE

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

8015B QA/QC Report

Date Analyzed: 10/24/2011 **Units:** mg/Kg (ppm)

Matrix: **Soil/Solid/Sludge/Liquid**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **111021-80 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	2500	2350	**94%**	2440	**98%**	**4%**	**75-125**	**0-20%**

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	193	**97%**	**75-125**

Analyzed and Reviewed By: ZI

Final Reviewer: e

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
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DATE SAMPLED: 10/21/11 DATE RECEIVED: 10/21/11

DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-77
CLIENT SAMPLE I.D.	**FVP4-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
 PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
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DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-77
CLIENT SAMPLE I.D.	**FVP4-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-77
CLIENT SAMPLE I.D.	**FVP4-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	0.072
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	0.007
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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431 W. Lambert Road, Suite 305
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DATE SAMPLED: 10/21/11 DATE RECEIVED: 10/21/11

DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-78
CLIENT SAMPLE I.D.	**FVP4-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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LAB SAMPLE I.D.	111021-78
CLIENT SAMPLE I.D.	**FVP4-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-78
CLIENT SAMPLE I.D.	**FVP4-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	ND
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE SAMPLED: 10/21/11 DATE RECEIVED: 10/21/11

DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-79
CLIENT SAMPLE I.D.	**FVP4-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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LAB SAMPLE I.D.	111021-79
CLIENT SAMPLE I.D.	**FVP4-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	0.009
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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LAB SAMPLE I.D.	111021-79
CLIENT SAMPLE I.D.	**FVP4-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	0.067
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	0.006
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE SAMPLED: 10/21/11 DATE RECEIVED: 10/21/11

DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-80
CLIENT SAMPLE I.D.	**FVP4-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-80
CLIENT SAMPLE I.D.	**FVP4-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	0.213
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/21/11 DATE RECEIVED: 10/21/11

DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-80
CLIENT SAMPLE I.D.	**FVP4-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	0.132
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	0.044
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/21/11 DATE RECEIVED: 10/21/11

DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-81
CLIENT SAMPLE I.D.	**FVP4-90**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/21/11 DATE RECEIVED: 10/21/11

DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-81
CLIENT SAMPLE I.D.	**FVP4-90**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	CRDL	MB	RESULT
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/21/11 DATE RECEIVED: 10/21/11

DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11
LAB SAMPLE I.D.	111021-81
CLIENT SAMPLE I.D.	**FVP4-90**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	ND
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

QA/QC REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 7 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/21/11 DATE RECEIVED: 10/21/11

DATE ANALYZED	10/25/11
DATE EXTRACTED	10/25/11

SEE ATTACHED PAGES (6)

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

(1)

8260 QA/QC Report

Date Analyzed: 10/24-25/2011 **Matrix:** SOIL
Method: 524BW144 **Unit:** mg/Kg (PPM)
Machine: C

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
Spiked Sample Lab I.D.: 111021-81 MS/MSD

Analyte	S.R.	spk conc	MS	%RC	MSD	%RC	%RPD	ACP %RC	ACP RPD
Trichloroethene	0.00	50.0	46.7	93%	44.8	90%	4%	80-120	0-20
Toluene	0.00	50.0	46.1	92%	45.1	90%	2%	80-120	0-20
Ethylbenzene	0.00	50.0	45.1	90%	45.9	92%	2%	80-120	0-20
Cis-1,2-Dichloroethene	0.00	50.0	41.6	83%	42.5	85%	2%	80-120	0-20
Tetrachloroethene	0.00	50.0	52.9	106%	56.3	113%	6%	80-120	0-20

Lab Control Spike (LCS)

Analyte	spk conc	LCS	%RC	ACP %RC
1,1,1-TCA	50.0	51.1	102%	80-120
Tetrachloroethene	50.0	55.4	111%	80-120
Benzene	50.0	45.7	91%	80-120
Toluene	50.0	50.0	100%	80-120
Ethylbenzene	50.0	50.5	101%	80-120
Chloroform	50.0	52.8	106%	80-120

Calibration date: 4/12/2011

Continuing Calibration Check (CCC)

Analyte	AvgRF	CCRF	%Dev	%RSD
1,1,1-TCA	0.985	1.013	2.84	4.36
Trichloroethene	0.369	0.326	11.65	6.14
Tetrachloroethene	0.983	1.064	8.24	6.54
Toluene	1.552	1.575	1.48	7.84
Chloroform	1.097	1.229	12.03	4.23
Cis-1,2-Dichloroethene	1.534	1.591	3.72	6.76

Surrogate Recovery	spk conc	ACP%	MB %RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			**M-BLK**	**111021-77**	**111021-78**	**111021-79**	**111021-80**	**111021-81**	
Dibromofluoromethane	25.0	75-125	110%	119%	125%	118%	117%	99%	
Toluene-d8	25.0	75-125	99%	102%	98%	98%	112%	108%	
4-Bromofluorobenzene	25.0	75-125	82%	93%	94%	86%	88%	116%	

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.									
Dibromofluoromethane	25.0	75-125							
Toluene-d8	25.0	75-125							
4-Bromofluorobenzene	25.0	75-125							

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.									
Dibromofluoromethane	25.0	75-125							
Toluene-d8	25.0	75-125							
4-Bromofluorobenzene	25.0	75-125							

** = Surrogate fail due to matrix interference; LCS, MS, MSD are in control therefore the analysis is in control.*

S.R. = Sample Results *%RC = Percent Recovery*
spk conc = Spike Concentration *ACP %RC = Accepted Percent Recovery*
MS = Matrix Spike *MSD = Matrix Spike Duplicate*

Analyzed/Reviewed By: _____

Final Reviewer: _____

GC Sequence #	Standard Name:	Solvent	Stock Standard	Calculation STD V X STD Conc. / Total Volume = Final Conc.	Ref./ Page	Prep. Date	Exp. Date	Initial
2574	8260 B Gas	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 110412 Exp. Date: —	Name: Gas STD Source: Ultra Cat #: DWM-544 Lot #: GC-1486 Exp. Date: 5/13/13	12.5mL X 200ppm / 0.5mL = 50.0ppm		10/24/2011	10/30/2011	[illegible]
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				

GC Sequence #	Standard Name:	Solvent	Stock Standard	Calculation STD V X STD Conc. / Total Volume = Final Conc.	Ref./ Page	Prep. Date	Exp. Date	Initial
2437 ~~2440~~ (2c)	8141 Surrogate + Internal std	Name: Hexane Source: Fisher Cat #: H307-4 Lot #: 096534 Exp. Date:	Name: Source: check log Cat #: Lot #: Exp. Date:	Book A3 Page 15 x =	A3/15	1/7/2011	1/6/2012	2c.
2438	8260 Gas	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 091463 Exp. Date:	Name: Gas standard Source: ultra Cat #: DWM-544 Lot #: GTC-1486 Exp. Date: 5/13/13	12.5uL x 2000ppm / 0.50mL = 50ppm		1/10/2011	1/6/2011	SCh
2439	8260 In/surr	Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	detail in logbook A3. x = P.16.		1/10/2011	7/31/2011	Sm
2440	8260 CCV	Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	detail in Logbook A3 x = P.17.		1/10/2011	1/9/2012	[illegible]
2441	8260 LCS	Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	detail in Logbook A3 x = P.18		1/10/2011	1/9/2012	Sm
2442	8260 OXY.	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 091463 Exp. Date:	Name: OXY standard Source: ultra Cat #: RGU-422 Lot #: CD-3554A Exp. Date: 2/28/2012	4% ; 7.3% 12.5uL x / 10.0mL = 50 ; 91.25 ppm		1/10/2011	1/9/2012	Sm
2443	8260 In/surr BFB.	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 091463 Exp. Date:	Name: GC 2439 Source: Cat #: Lot #: Exp. Date: 7/31/2011	1.0mL x 50ppm / 10.0mL = 5.0ppm		1/10/2011	7/31/2011	SCh

(W)

Standard Name: 8260B In/Surr **Analyst:** Sch **GC #:** 2518

Preparation Date: 9/15/2011 **Expiration Date:** 8/31/2012

Compound Name	Source	Catalog #	Lot #	Exp date	Calculation STD V x STD Conc / Total Volume =Final Conc	Initial
Internal standard	ultra	STM-341N	CF-2990	8/31/2012	250ul X 2000ppm / 10.0mL = 50ppm	sch
Surrogate "	ultra	STM-330N	CE-3401A	11/30/2012	250ul X 2000ppm / 10.0mL = 50ppm	sch
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
STM-330N-1 Lot. CE-3401A Exp. 11/30/2012 ULTRA 1 mL Surrogate Standard Mixture 3 analyte(s) at 2000 µg/mL in methanol 250 Smith St, Bo Kingstown, RI 02852 USA For Lab Use Only	STM-341N-1 Lot. CF-2990 Exp. 08/31/2012 ULTRA 1 mL Internal Standard Mixture 4 analyte(s) at 2000 µg/mL in methanol 250 Smith St, Bo Kingstown, RI 02852 USA For Lab Use Only				X =	
					X =	
					X =	

Total Standard Volume: 500ul Added Solvent Volume: 9.50mL Final Volume: 10.0mL

Standard Name: 8260 CCV. **Analyst:** Sch **GC #:** 2440

Preparation Date: 1/10/2011 **Expiration Date:** 1/9/2012

Compound Name	Source	Catalog #	Lot #	Exp date	Calculation STD V x STD Conc / Total Volume = Final Conc	Initial
Acrolein	GC-2444			1/9/2012	0.625mL X 2000ppm / 25mL = 50ppm	sch
Voc Mixture	Ultra Scientific	DWM-592	CF-0062	7/28/2012	0.625mL X 2000ppm / 25mL = 50ppm	sch
Voc Mixture	"	DWM-589	CG-0088	7/28/2013	0.625mL X 2000ppm / 25mL = 50ppm	sch
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	

Total Standard Volume: 1.875mL Added Solvent Volume: 23.125mL Final Volume: 25mL

5

Standard Name: 8260 LCS **Analyst:** SLH **GC #:** 2441

Preparation Date: 1/10/2011 **Expiration Date:** 1/9/2012

Compound Name	Source	Catalog #	Lot #	Exp date	Calculation STD V x STD Conc / Total Volume =Final Conc	Initial
Acrolein	GC-2444			1/9/2012	0.625mL X 2000ppm / 25.0mL = 50ppm	[illegible]
Voc Mixture	Certilliant	ERS-079	ER10160701	10/2012	0.625mL X 2000ppm / 25.0mL = 50ppm	[illegible]
Voc Mixture	Ultra	DWM-592	CG-2384	8/31/2013	0.625mL X 2000ppm / 25.0mL = 50ppm	[illegible]
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	

Total Standard Volume: 1.875mL Added Solvent Volume: 23.125 mL Final Volume: 25.0 mL

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8015M TPHcc	8260B	Misc.	COMMENTS
FVP4 -5'	11102-1	10/21/11	8:44	Soil	5	4°C	1x pt 4x 5035	X	X		
" -15'	-78	"	9:24	"	"			X	X		
" -30'	-79	"	9:46	"	"			X	X		
" -60'	-80	"	10:38	"	"			X	X		
" -90'	-81	"	11:38	"	"			X	X		

Analysis Required

Company Name: FERO ENGIN.
Address: 431 W. LAMBERT Rd #305
City/State/Zip: BREA, CA 92821

Project Contact: RICK FERO
Tel: (714) 256-2737
Fax:

Sampler's Signature:
Project Name/ID: CONTINENTAL HEAT TREAT
10-758

Relinquished by:	Received by:	Date & Time:
		10/21/11 2:02
		10/21/11 1441

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date:

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date: October 27, 2011

Mr. John Petersen
Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

Project: **Continental Heat Treating / 10-758**

Dear Mr. Peterson:

The analytical results for the soil samples received by our laboratory on October 20, 2011, are attached. All samples were received chilled, intact and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

LABORATORY REPORT FORM

LABORATORY NAME: ENVIRO-CHEM, INC.

ADDRESS: 1214 E. LEXINGTON AVE., POMONA, CA 91766

LABORATORY CERTIFICATION
(ELAP) No.: 1555 EXPIRATION DATE: 06/30/2013

LABORATORY DIRECTOR'S NAME: CURTIS DESILETS

LABORATORY'S DIRECTOR SIGNATURE: _____

CLIENT: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

PROJECT: **Continental Heat Treating / 10-758**

ANALYTICAL METHODS: EPA 5035/8260B;EPA 8015B (TPH-CARBON CHAIN)

SAMPLING DATE(S): 10/19-20/11 DATE RECEIVED: 10/20/11

DATE REPORTED: 10/27/11 SAMPLE MATRIX: SOIL

EXTRACTION METHOD: SEE ATTACHMENTS

EXTRACTION MATERIAL: PER THE METHODS

CHAIN OF CUSTODY RECEIVED: (YES) NO

---- SAMPLE HEADSPACE DESCRIPTION (%): N/A (EPA 5035)

---- SAMPLE CONTAINER MATERIAL: 4 - VOAS (EPA 5035)
1 - BRASS SLEEVE

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

ORGANIC ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	10	0

SAMPLE CONDITION: CHILLED, INTACT, EPA 5035 MEDIA/TUBE PLUS ONE BRASS SLEEVE

INORGANIC ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	0	0

SAMPLE CONDITION:

MICROBIOLOGICAL ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	0	0

SAMPLE CONDITION:

OTHER TYPES OF ANALYSES	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
	0	0

SAMPLE CONDITION:

LABORATORY REPORT

METHOD: EPA 8015B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 1 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/19-20/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/20/11
DATE EXTRACTED	10/20/11

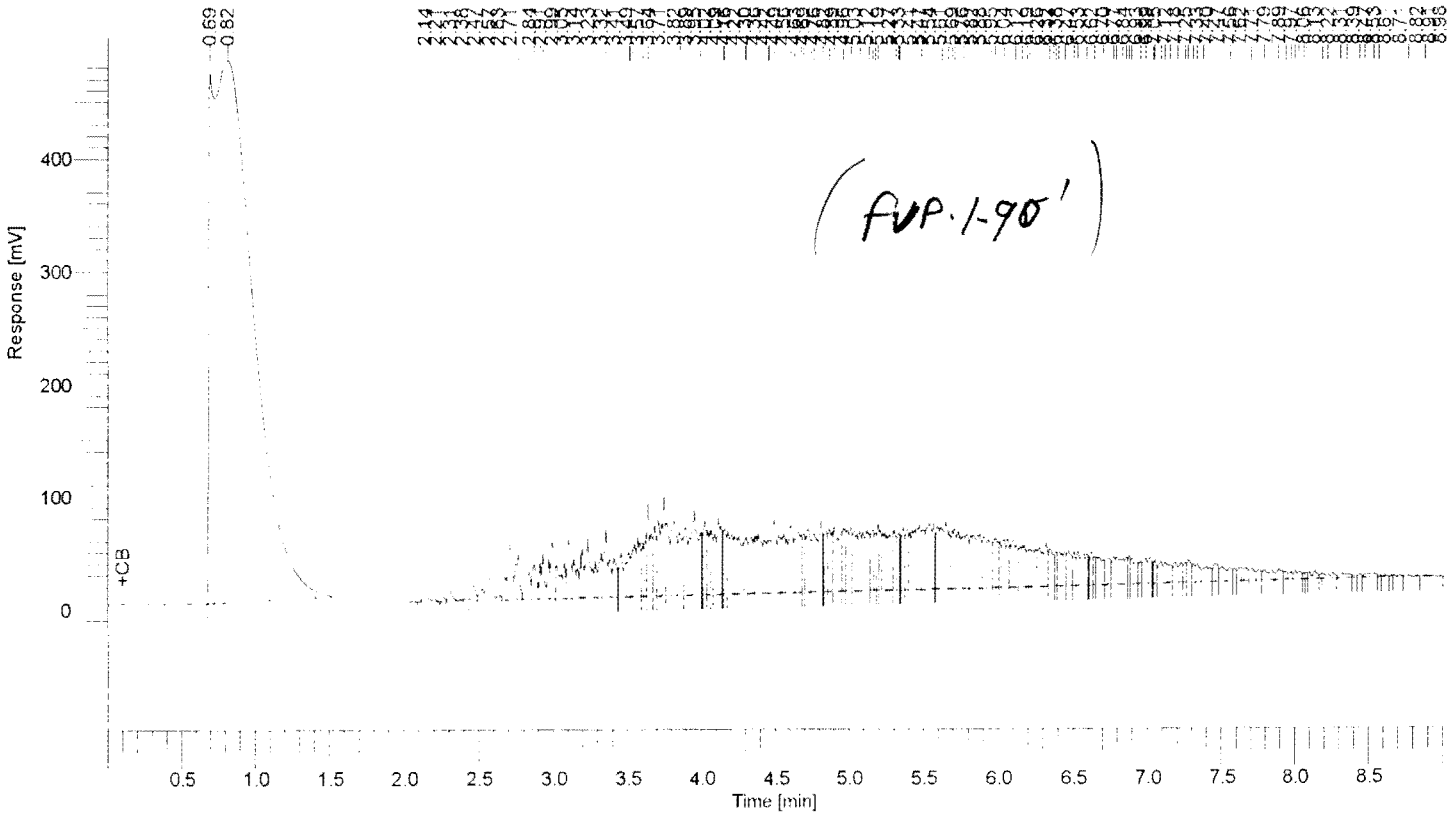
SAMPLE ID	LAB ID	GASOLINE (C4-C10)	DIESEL (C11-C22)	OIL (C23-C35)	DF
FVP1-5'	111020-8	ND	ND	ND	1
FVP1-15'	111020-9	ND	ND	ND	1
FVP1-30'	111020-10	ND	ND	ND	1
FVP1-60'	111020-11	ND	ND	ND	1
FVP1-90'	111020-12	23.4	75.0	92.3	1
FVP3-5'	111020-13	ND	ND	ND	1
FVP3-15'	111020-14	ND	ND	ND	1
FVP3-30'	111020-15	ND	ND	ND	1
FVP3-60'	111020-16	ND	ND	ND	1
FVP3-90'	111020-17	ND	ND	ND	1
MERHOD BLANK		ND	ND	ND	1
PQL		10	10	50	

COMMENTS
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = DF X PQL
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Software Version	: 6.3.2.0646		Date	: 10/21/2011 3:24:08 PM
Sample Name	: 111020-12	20/2	Data Acquisition Time	: 10/20/2011 10:31:56 PM
Instrument Name	: GC-I		Channel	: A
Rack/Vial	: 0/53		Operator	: manager
Sample Amount	: 1.000000		Dilution Factor	: 1.000000
Cycle	: 40			

Result File : D:\GC DATA\GC-I\I111020\A069.rst
Sequence File : D:\GC DATA\GC-I\I111020\I111020.seq



8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	873890	234.3
C11-C22	6306983	750.4
C23-C35	4181507	923.1
	11362380	1907.8

QA/QC REPORT

METHOD: EPA 8015B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 2 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/19-20/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/20/11
DATE EXTRACTED	10/20/11

SEE ATTACHED PAGE

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

8015B QA/QC Report

Date Analyzed: 10/20/2011 **Units:** mg/Kg (ppm)

Matrix: **Soil/Solid/Sludge/Liquid**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **111020-8 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	2500	2390	**96%**	2350	**94%**	**2%**	**75-125**	**0-20%**

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	182	**91%**	**75-125**

Analyzed and Reviewed By: _____

Final Reviewer: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
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DATE SAMPLED: 10/19/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-8
CLIENT SAMPLE I.D.	**FVP1-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
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DATE SAMPLED: 10/19/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-8
CLIENT SAMPLE I.D.	**FVP1-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	0.005
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-8
CLIENT SAMPLE I.D.	**FVP1-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	0.126
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	0.024
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE SAMPLED: 10/19/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-9
CLIENT SAMPLE I.D.	**FVP1-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX:SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-9
CLIENT SAMPLE I.D.	**FVP1-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE SAMPLED: 10/19/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-9
CLIENT SAMPLE I.D.	**FVP1-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	ND
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
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DATE SAMPLED: 10/19/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-10
CLIENT SAMPLE I.D.	**FVP1-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-10
CLIENT SAMPLE I.D.	**FVP1-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	0.012
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
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DATE SAMPLED: 10/19/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-10
CLIENT SAMPLE I.D.	**FVP1-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	0.158
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	0.024
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
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Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/19/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/22/11
DATE EXTRACTED	10/22/11
LAB SAMPLE I.D.	111020-11
CLIENT SAMPLE I.D.	**FVP1-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/19/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/22/11
DATE EXTRACTED	10/22/11
LAB SAMPLE I.D.	111020-11
CLIENT SAMPLE I.D.	**FVP1-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE ANALYZED	10/22/11
DATE EXTRACTED	10/22/11
LAB SAMPLE I.D.	111020-11
CLIENT SAMPLE I.D.	**FVP1-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	ND
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
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DATE SAMPLED: 10/19/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/22/11
DATE EXTRACTED	10/22/11
LAB SAMPLE I.D.	111020-12
CLIENT SAMPLE I.D.	**FVP1-90**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE ANALYZED	10/22/11
DATE EXTRACTED	10/22/11
LAB SAMPLE I.D.	111020-12
CLIENT SAMPLE I.D.	**FVP1-90**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	0.027
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE EXTRACTED	10/22/11
LAB SAMPLE I.D.	111020-12
CLIENT SAMPLE I.D.	**FVP1-90**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	5 (MATRIX INTERFERENCE)

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	ND
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

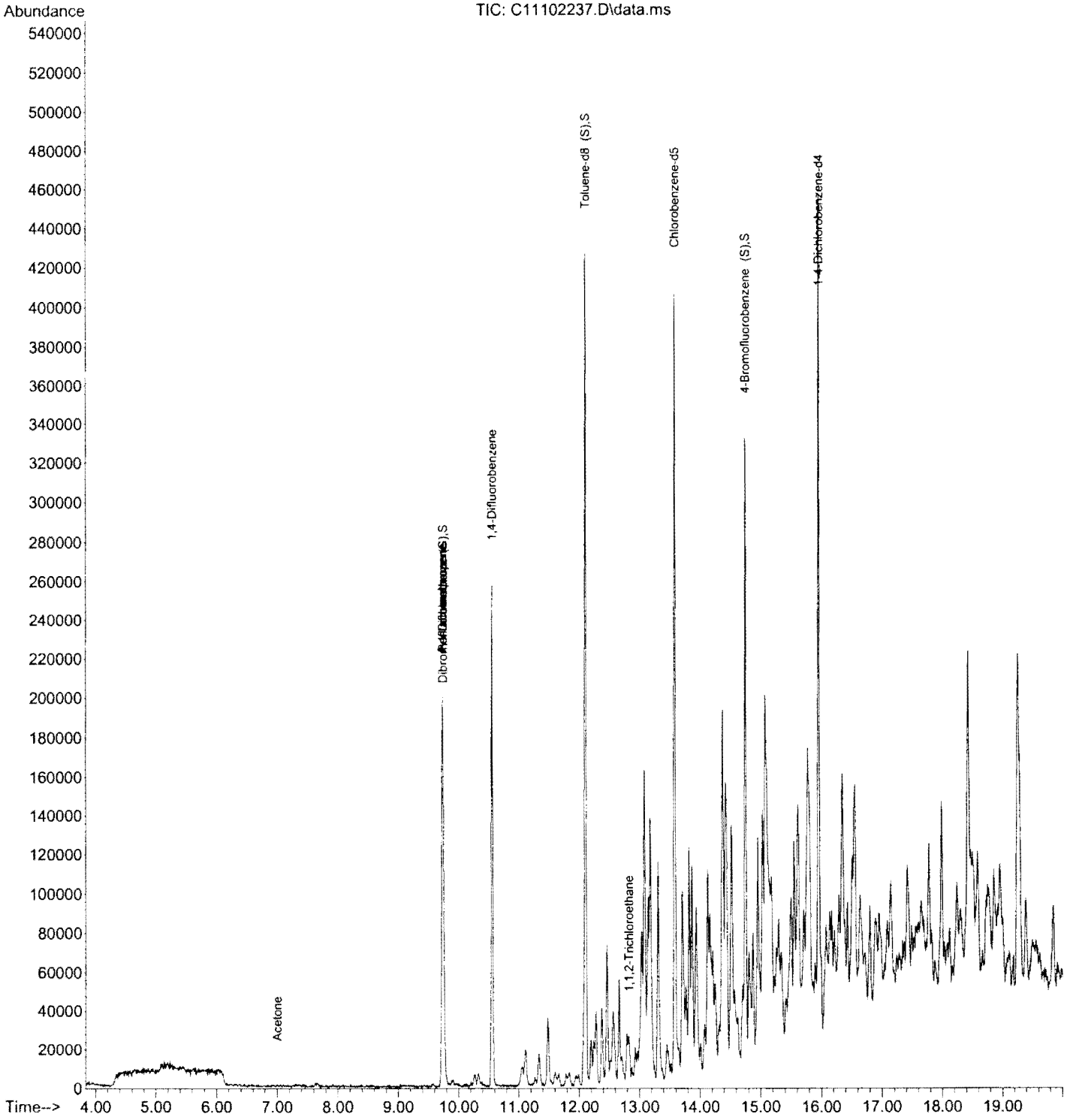
MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

Quantitation Report (QT Reviewed)

Data Path : D:\Data\C111022\
Data File : C11102237.D
Acq On : 22 Oct 2011 7:00 am
Operator :
Sample : 111020-12 1G 5X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 24 10:34:15 2011
Quant Method : D:\Methods\8260C050.M
Quant Title : VOCs Method for 524.2
QLast Update : Thu Feb 10 15:13:21 2011
Response via : Initial Calibration



LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE SAMPLED: 10/20/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-13
CLIENT SAMPLE I.D.	**FVP3-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE SAMPLED: 10/20/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-13
CLIENT SAMPLE I.D.	**FVP3-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	0.076
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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LAB SAMPLE I.D.	111020-13
CLIENT SAMPLE I.D.	**FVP3-5'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-14
CLIENT SAMPLE I.D.	**FVP3-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-14
CLIENT SAMPLE I.D.	**FVP3-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	0.027
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	0.006
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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LAB SAMPLE I.D.	111020-14
CLIENT SAMPLE I.D.	**FVP3-15'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/20/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-15
CLIENT SAMPLE I.D.	**FVP3-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
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Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/20/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-15
CLIENT SAMPLE I.D.	**FVP3-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/20/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-15
CLIENT SAMPLE I.D.	**FVP3-30'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	0.281
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	0.051
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX:SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED:10/20/11 DATE RECEIVED:10/20/11

DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-16
CLIENT SAMPLE I.D.	**FVP3-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	ND
SEC-BUTYLBENZENE	0.005	ND	ND
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

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DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-16
CLIENT SAMPLE I.D.	**FVP3-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	ND
N-PROPYLBENZENE	0.005	ND	ND
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
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DATE ANALYZED	10/21/11
DATE EXTRACTED	10/21/11
LAB SAMPLE I.D.	111020-16
CLIENT SAMPLE I.D.	**FVP3-60'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	ND
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/20/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/22/11
DATE EXTRACTED	10/22/11
LAB SAMPLE I.D.	111020-17
CLIENT SAMPLE I.D.	**FVP3-90'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
ACETONE	0.020	ND	ND
BENZENE	0.005	ND	ND
BROMOBENZENE	0.005	ND	ND
BROMOCHLOROMETHANE	0.005	ND	ND
BROMODICHLOROMETHANE	0.005	ND	ND
BROMOFORM	0.005	ND	ND
BROMOMETHANE	0.005	ND	ND
2-BUTANONE (MEK)	0.020	ND	ND
N-BUTYLBENZENE	0.005	ND	0.028
SEC-BUTYLBENZENE	0.005	ND	0.025
TERT-BUTYLBENZENE	0.005	ND	ND
CARBON DISULFIDE	0.010	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND
CHLOROBENZENE	0.005	ND	ND
CHLOROETHANE	0.005	ND	ND
CHLOROFORM	0.005	ND	ND
CHLOROMETHANE	0.005	ND	ND
2-CHLOROTOLUENE	0.005	ND	ND
4-CHLOROTOLUENE	0.005	ND	ND
DIBROMOCHLOROMETHANE	0.005	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.005	ND	ND
1,2-DIBROMOETHANE	0.005	ND	ND
DIBROMOMETHANE	0.005	ND	ND
1,2-DICHLOROBENZENE	0.005	ND	ND
1,3-DICHLOROBENZENE	0.005	ND	ND
1,4-DICHLOROBENZENE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 2 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
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DATE SAMPLED: 10/20/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/22/11
DATE EXTRACTED	10/22/11
LAB SAMPLE I.D.	111020-17
CLIENT SAMPLE I.D.	**FVP3-90'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
DICHLORODIFLUOROMETHANE	0.005	ND	ND
1,1-DICHLOROETHANE	0.005	ND	ND
CIS-1,2-DICHLOROETHENE	0.005	ND	ND
TRANS-1,2-DICHLOROETHENE	0.005	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND
1,1-DICHLOROETHENE	0.005	ND	ND
1,3-DICHLOROPROPANE	0.005	ND	ND
2,2-DICHLOROPROPANE	0.005	ND	ND
1,1-DICHLOROPROPENE	0.005	ND	ND
CIS-1,3-DICHLOROPROPENE	0.005	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.005	ND	ND
ETHYLBENZENE	0.005	ND	ND
2-HEXANONE	0.020	ND	ND
HEXACHLOROBUTADIENE	0.005	ND	ND
IODOMETHANE	0.005	ND	ND
ISOPROPYLBENZENE	0.005	ND	ND
4-ISOPROPYLTOLUENE	0.005	ND	ND
4-METHYL-2-PENTANONE (MIBK)	0.020	ND	ND
METHYL tert-BUTYL ETHER	0.005	ND	ND
METHYLENE CHLORIDE	0.005	ND	ND
NAPHTHALENE	0.005	ND	0.068
N-PROPYLBENZENE	0.005	ND	0.047
STYRENE	0.005	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.005	ND	ND

- CONTINUED -

LABORATORY REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
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DATE SAMPLED: 10/20/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/22/11
DATE EXTRACTED	10/22/11
LAB SAMPLE I.D.	111020-17
CLIENT SAMPLE I.D.	**FVP3-90'**
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5035
DILUTION FACTOR (DF)	1

COMPOUND	**CRDL**	**MB**	**RESULT**
1,1,2,2-TETRACHLOROETHANE	0.005	ND	ND
TETRACHLOROETHENE (PCE)	0.005	ND	ND
TOLUENE	0.005	ND	ND
1,2,3-TRICHLOROBENZENE	0.005	ND	ND
1,2,4-TRICHLOROBENZENE	0.005	ND	ND
1,1,1-TRICHLOROETHANE	0.005	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	0.031
TRICHLOROETHENE (TCE)	0.005	ND	ND
TRICHLOROFLUOROMETHANE	0.005	ND	ND
1,2,3-TRICHLOROPROPANE	0.005	ND	ND
1,2,4-TRIMETHYLBENZENE	0.005	ND	ND
1,3,5-TRIMETHYLBENZENE	0.005	ND	ND
VINYL CHLORIDE	0.005	ND	ND
M,P-XYLENE	0.010	ND	ND
O-XYLENE	0.005	ND	ND

MG/KG = MILLIGRAM PER KILOGRAM = PPM
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

QA/QC REPORT

METHOD: EPA 8260B MATRIX: SOIL REPORTING UNIT: MG/KG (PPM)
PAGE: 1 OF 8 PAGES PROJECT: **Continental Heat Treating / 10-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 10/19-20/11 DATE RECEIVED: 10/20/11

DATE ANALYZED	10/21-22/11
DATE EXTRACTED	10/21-22/11

SEE ATTACHED PAGES (7)

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

8260 QA/QC Report

Date Analyzed: 10/21/2011 **Matrix:** SOIL
Method: 524BW144 **Unit:** mg/Kg (PPM)
Machine: C

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
Spiked Sample Lab I.D.: 111020-8 MS/MSD

Analyte	S.R.	spk conc	MS	%RC	MSD	%RC	%RPD	ACP %RC	ACP RPD
Trichloroethene	0.00	50.0	42.8	86%	43.4	87%	1%	80-120	0-20
Toluene	0.00	50.0	41.7	83%	42.0	84%	1%	80-120	0-20
Ethylbenzene	0.00	50.0	46.8	94%	45.0	90%	4%	80-120	0-20
Cis-1,2-Dichloroethene	0.00	50.0	44.2	88%	45.6	91%	3%	80-120	0-20
Tetrachloroethene	0.00	50.0	56.9	114%	57.9	116%	2%	80-120	0-20

Lab Control Spike (LCS)

Analyte	spk conc	LCS	%RC	ACP %RC
1,1,1-TCA	50.0	45.5	91%	80-120
Tetrachloroethene	50.0	56.2	112%	80-120
Benzene	50.0	42.4	85%	80-120
Toluene	50.0	45.3	91%	80-120
Ethylbenzene	50.0	46.8	94%	80-120
Chloroform	50.0	45.8	92%	80-120

Calibration date: 4/12/2011

Continuing Calibration Check (CCC)

Analyte	AvgRF	CCRF	%Dev	%RSD
1,1,1-TCA	0.985	1.013	2.84	4.36
Trichloroethene	0.369	0.326	11.65	6.14
Tetrachloroethene	0.983	1.064	8.24	6.54
Toluene	1.552	1.575	1.48	7.84
Chloroform	1.097	1.229	12.03	4.23
Cis-1,2-Dichloroethene	1.534	1.591	3.72	6.76

Surrogate Recovery	spk conc	ACP%	MB %RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			**M-BLK**	**111020-8**	**111020-9**	**111020-10**	**111020-13**	**111020-14**	**111020-15**
Dibromofluoromethane	25.0	75-125	125%	100%	88%	99%	105%	114%	105%
Toluene-d8	25.0	75-125	98%	99%	100%	108%	108%	110%	105%
4-Bromofluorobenzene	25.0	75-125	86%	86%	80%	82%	83%	97%	92%

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			**111020-16**						
Dibromofluoromethane	25.0	75-125	123%						
Toluene-d8	25.0	75-125	102%						
4-Bromofluorobenzene	25.0	75-125	89%						

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.									
Dibromofluoromethane	25.0	75-125							
Toluene-d8	25.0	75-125							
4-Bromofluorobenzene	25.0	75-125							

** = Surrogate fail due to matrix interference; LCS, MS, MSD are in control therefore the analysis is in control.*
S.R. = Sample Results *%RC = Percent Recovery*
spk conc = Spike Concentration *ACP %RC = Accepted Percent Recovery*
MS = Matrix Spike *MSD = Matrix Spike Duplicate*

Analyzed/Reviewed By: _____

Final Reviewer: _____

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

8260 QA/QC Report

Date Analyzed: 10/22/2011 **Matrix:** SOIL
Method: 524BW144 **Unit:** mg/Kg (PPM)
Machine: C

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
Spiked Sample Lab I.D.: 111021-56 MS/MSD

Analyte	S.R.	spk conc	MS	%RC	MSD	%RC	%RPD	ACP %RC	ACP RPD
Trichloroethene	0.00	50.0	45.4	91%	43.2	86%	5%	80-120	0-20
Toluene	0.00	50.0	50.1	100%	45.9	92%	9%	80-120	0-20
Ethylbenzene	0.00	50.0	51.6	103%	48.3	97%	7%	80-120	0-20
Cis-1,2-Dichloroethene	0.00	50.0	43.3	87%	41.2	82%	5%	80-120	0-20
Tetrachloroethene	0.00	50.0	59.4	119%	57.6	115%	3%	80-120	0-20

Lab Control Spike (LCS)

Analyte	spk conc	LCS	%RC	ACP %RC
1,1,1-TCA	50.0	47.3	95%	80-120
Tetrachloroethene	50.0	54.7	109%	80-120
Benzene	50.0	42.1	84%	80-120
Toluene	50.0	45.1	90%	80-120
Ethylbenzene	50.0	48.7	97%	80-120
Chloroform	50.0	46.3	93%	80-120

Calibration date: 4/12/2011

Continuing Calibration Check (CCC)

Analyte	AvgRF	CCRF	%Dev	%RSD
1,1,1-TCA	0.985	1.013	2.84	4.36
Trichloroethene	0.369	0.326	11.65	6.14
Tetrachloroethene	0.983	1.064	8.24	6.54
Toluene	1.552	1.575	1.48	7.84
Chloroform	1.097	1.229	12.03	4.23
Cis-1,2-Dichloroethene	1.534	1.591	3.72	6.76

Surrogate Recovery	spk conc	ACP%	MB %RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			**M-BLK**	**111020-11**	**111020-12**	**111020-17**			
Dibromofluoromethane	25.0	75-125	103%	128%	123%	122%			
Toluene-d8	25.0	75-125	103%	102%	109%	111%			
4-Bromofluorobenzene	25.0	75-125	78%	86%	94%	94%			

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.									
Dibromofluoromethane	25.0	75-125							
Toluene-d8	25.0	75-125							
4-Bromofluorobenzene	25.0	75-125							

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.									
Dibromofluoromethane	25.0	75-125							
Toluene-d8	25.0	75-125							
4-Bromofluorobenzene	25.0	75-125							

** = Surrogate fail due to matrix interference; LCS, MS, MSD are in control therefore the analysis is in control.*

S.R. = Sample Results *%RC = Percent Recovery*
spk conc = Spike Concentration *ACP %RC = Accepted Percent Recovery*
MS = Matrix Spike *MSD = Matrix Spike Duplicate*

Analyzed/Reviewed By: _____

Final Reviewer: _____

GC Sequence #	Standard Name:	Solvent	Stock Standard	Calculation STD V X STD Con... / Total Volume = Final Conc.	Ref. Page	Prep. Date	Exp. Date	Initi
2574	8260 B Gas	Name: MeOH Source: Fisher Cat #: A452... Lot #: 1104. Exp. Date: —	Name: Gas STD Source: U... Cat #: DWM-54... Lot #: GC-148 Exp. ... /13/...	12.5mL X 2000ppm / 5mL = 50.0ppm		1/24/2011	10/30/2011	[illegible]
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	X =				

GC Sequence	Standard Name:	Solvent	Stock Standard	Calculation STD [illegible] X STD Conc. / Total Volume = Final Conc.	R[illegible] Page	Prep. Date	Exp. Date	Init[illegible]
24[illegible]	8[illegible] Surrogan + internal sta	Name: [illegible]xane Source: [illegible]isher Cat #: [illegible] Lot #: 0965[illegible] Exp. Date:	Name: Source: Check Log Book A3 Page 5 Cat #: Lot #: Exp. Date:	X =	A3 [illegible]	1/7/2011	[illegible]	[illegible]
[illegible]438	8260 Gas	Name: [illegible]eoH Source: [illegible]isher Cat #: A45[illegible] Lot #: 09146[illegible] Exp. Date:	Name: Gas standard Source: ultra DWM-544 Lot #: [illegible]1486 Exp. Date: [illegible]/13/1[illegible]	12.5uL x 2000ppm / 0.50mL = 50[illegible]		1/10/2011	1/16/2011	SCL
[illegible]439	8260 In/surr	Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	detail in Logbook A3 X = P.6.		1/10/2011	1/31/2011	Sc
[illegible]0	8260 CCV	Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	detail in Logbook A3 X = P.17.		1/10/2011	[illegible]/201[illegible]	Sc
[illegible]1	8260 [illegible]S	Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	detail in Logbook A3 X = P.18		1/10/2011	1/9/201[illegible]	Sc
[illegible]2	8260 Ox	Name: Me[illegible] Source: Fisher Cat #: A453-1 Lot #: 091463 Exp. Date:	Name: OXY standard Source: ultra Cat #: RE[illegible]-422 Lot #: CL-3554A Exp. Date: 2/28/2012	12.5u x 4% ; 7.3% / 10.0 mL = [illegible]; 91.25 ppm		[illegible]	[illegible]/2012	Sc
[illegible]3	8260 In/surr BFB	Name: Me[illegible] Source: Fishe[illegible] Cat #: A453-1 Lot #: 091463 Exp. Date:	Name: GC 2439 Source: Cat #: Lot #: Exp. Date: [illegible]/31/2011	1.0mL x 50ppm / 10.0mL = 5.0ppm		1/10/2011	1/31/2011	SCL

Standard Name: [illegible] In/s[illegible] **lyst:** [illegible] **GC #:** 2518

Preparation Date: 9/15 [illegible] **Expiration Date:** 8/[illegible]/2012

Compound Name	Sour	Catalog #	Lot #	Exp date	Calculation STD V x STD Conc / Total Volume = Final Conc	Initial
Internal standard	ultra	[illegible]-341[illegible]	CF-[illegible]990	[illegible]/2012	25[illegible]ul X 2000ppm / 10.0mL = 50ppm	[illegible]ch
Surrogate "	ultra	STM-[illegible]30N	[illegible]E-340[illegible]	11/30/20[illegible]	250ul [illegible]ppm / 10.0[illegible] = 50ppm	Sc.
					X =	
					=	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X	

STM-33[illegible] ULTRA 1 mL
Lot: CE-340[illegible]
Exp: 11/30/2012
Surrogate Standard Mixture
[illegible] analyte(s) at 2000 µg/mL in methanol
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

STM-341[illegible] ULTRA 1 mL
Lot: CF-299[illegible]
Exp: 08/31/20[illegible]
Internal Standard Mixture
4 analyte(s) at 2000 µg/mL in methanol
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

Total Standard Volume: 500ul Added Solvent Volume: 9.50mL Final Volume: 10.0mL

Standard Name: 8260 CCV **Analyst:** Sch **QC #:** 24

Preparation Date: 1/10/2011 **Expiration Date:** 1/9/2012

Compound Name	Source	Catalog #	Lot #	Exp date	Calculation STD Conc / Total V	Final Co	Total
[illegible]olein	GC-2444			1/9/2012	0.625mL X 25mL	50ppm	Sch
Voc Mixture	Ultra Scientific	DWM-592	CF-0[illegible]	2/[illegible]	0.62[illegible] X 2000ppm=	[illegible]m	Sch
Voc Mixture	"	DWM-589	CF-0088	2/28/2013	0.625mL X 25mL	50ppm	Sch
					X		
					=		
					X	=	
					=		
					X		
					=		
					X		
					X	=	
					X	=	

Total Standard Volume: 1.875mL Added Solvent Volume: 23.125mL Final Volume: [illegible]mL

Standard Name: 82[illegible] LCS Analyst: SL GC #: 2441

Preparation Date: 1/10/201 Expiration Date: 1/9/201

Compound Name	Source	Catalog #	Lot #	Exp Date	Calculation STD V x STD Conc / Total Volume	Initial
Acrolein	GC-[illegible]			1/9/2[illegible]	0.62[illegible] X 2000ppm / [illegible] 50ppm	[illegible]
Voc Mixture	Gilliant	ERS-[illegible]	ER10150701	10/2012	[illegible]5mL X [illegible]ppm / 25.0[illegible] = 50ppm	[illegible]
Voc Mixture	U[illegible]	DWM-592	G-2384	8/31/201[illegible]	0.62[illegible] X 2000ppm / [illegible] 50ppm	[illegible]
					X =	
					X	
					X =	
					X =	
					X =	
					X =	
					X	
					X =	

Total Standard Volume: 1.8 mL Added Solvent Volume: 23.125 mL Final Volume: 25.0 mL

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Total Threshold Limit Concentration Analysis Results

Matrix: Soil/Solid
Unit: mg/Kg (PPM)

NOTE: *MATRIX INTERFERENCE **=LIMITED SAMPLE

Client's sample ID.													
Metals Date:	10/31/11	10/31/11	10/31/11	10/31/11	10/31/11	10/31/11	10/31/11	10/31/11	10/31/11				
Mercury Date:	10/28/11	10/28/11	10/28/11	10/28/11	10/28/11	10/28/11	10/31/11	10/31/11	10/31/11				
Chromium VI Date:													
Dilution Factor:	1	1	1	1	1	1	1	1	1				
Lab I.D. #:	M-BLANK	111028-6	111028-7	111028-8	111028-9	111028-1	111028-42	111028-43	111028-44	PQL	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	500	15	6010B
Arsenic (As)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.30	500	5.0	6010B
Barium (Ba)	ND	105	11[illegible]	150	109	94.9	99.3	88.4	96.7	5.00	10,000	100	6010B
Beryllium (Be)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.50	75	0.75	6010B
Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.50	100	1.0	6010B
Chromium Total (Cr)	ND	2109	2102	3389	2532	2080	17.1	17.2	15.8	0.50	2,500	560/5@	6010B
Chromium VI (Cr6)	---									0.20	500	5.0	7196A
Cobalt (Co)	ND	ND	ND	14.8	9.39J	ND	6.22	6.78	6.01	1.00	8,000	80	6010B
Copper (Cu)	ND	10.1	ND	11.4	11.7	[illegible]	15.4	12.0	12.1	1.00	2,500	25	6010B
Lead (Pb)	ND	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.68	3.37	3.10	0.50	1,000	5.0	6010B
Mercury (Hg)	ND	ND(1X)	ND(1X)	ND(1X)	ND(1X)	ND(1X)	ND	ND	ND	0.01	20	0.2	7471A
Molybdenum (Mo)	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.00	3,500	350	6010B
Nickel (Ni)	ND	ND	ND	ND	ND	ND	10.3	11.4	10.2	2.[illegible]	2,000	20	6010B
Selenium (Se)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	100	1.0	6010B
Silver (Ag)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	500	5.0	6010B
Thallium (Tl)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	700	7.0	6010B
Vanadium (V)	ND	ND	ND	ND	ND	ND	29.0	31.7	28.4	5.00	2,400	24	6010B
Zinc (Zn)	ND	133	534.0	995.0	147.0	127.0	43.5	38.4	37.70	0.5	5,000	250	6010B
Titanium(Ti)	ND									[illegible]			6010B
Tin(Sn)	ND									5.00			6010B
Aluminum(Al)	ND									5.00			6010B
Iron(Fe)	ND									5.00			6010B
Boron(B)	ND									5.00			6010B
Calcium(Ca)	ND									5.00			6010B
Magnesium(Mg)	ND									5.00			6010B
Sodium(Na)	ND									5.00			6010B
Manganese(Mn)	ND									0.50			6010B
Potassium (K)	ND									2.00			6010B
Total Hardness(as CaCO3)	ND									50			6010B

Comments

DF = Dilution Factor Actual Detection Limit = PQL X DF *=Matrix Interference **=Limited Sample --- = Not analyzed/not requested

PQL = Practical Quantitation Limit ND = Below the Actual Detection Limit or non-detected

Analyzed/First Reviewed By: _____ Final Reviewer: CN

Enviro-Chem, Inc.
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Tel (909)590-5905 Fax (909)590-5907

Laboratory Results

Matrix: solid/sludge

Parameters		Date	RESULTS								Units	D.L.
Lab I.D.	Method	Analyzed	111028-41	D.F.	111028-42	D.F.	111028-43	D.F.		D.F.		
Ammonia as N	SM 4500-NH_3D M										mg/Kg	0.50
Total Alkalinity as CaCO3	SM 2320B M										mg/Kg	5.00
Bicarbonate as CaCO3	SM 2320B M										mg/Kg	5.00
Carbonate as CaCO3	SM 2320B M										mg/Kg	5.00
Hydroxide as CaCO3	SM 2320B M										mg/Kg	5.00
Fluoride	SM 4500-F⁻B M										mg/Kg	0.50
Chemical Oxygen Demand (COD)	EPA 410.4M										mg/Kg	5.00
Chloride	SM 4500-Cl⁻C M										mg/Kg	10.0
Chlorine Residual	SM 4500-ClB										mg/Kg	0.50
Chromium VI	EPA 7196A	11/1/2011	ND	1	ND	1	ND	1			mg/Kg	0.10
Cyanide, Total	EPA 9010B										mg/Kg	0.50
Cyanide, Amenable to Chlorination	EPA 9010B										mg/Kg	0.50
Cyanide, Free	SM 4500CN⁻I										mg/Kg	0.50
Cyanide, Reactive	SW846 CH7										mg/Kg	0.50
Electrical Conductivity (EC)*	EPA 120.1										umhos/cm	5.00
Resistivity (R Value)*	EPA 120.1										ohms	
%MOISTURE	SM 2540B M										%	0.05
DENSITY	ASTM										G/Ml	1.00
TDS	SM 2540C M										mg/L	5.00
Nitrate as N	SM 4500-NO_3^-E M										mg/Kg	0.50
Nitrite as N	SM 4500-NO_2^-E M										mg/Kg	0.10
EPA METHOD 1664 (HEM/SGT-HEM)	EPA 1664A M										mg/Kg	5.00
Flash Point / Ignitability	EPA 1010/1030											
Oil and Grease	EPA 413.1/413.2										mg/Kg	10.0
Paint Filter Liquids Test	EPA 9095A											
PH*	EPA 9045C										pH unit	
TRPH	EPA 418.1										mg/Kg	10.0
Sulfate	EPA 9038										mg/Kg	10.0
Sulfide, Total / Reactive**	SM 4500-$S^{=}$D M										mg/Kg	0.25
Sulfide, Dissolved/soluble	SM 4500-$S^{=}$D M										mg/Kg	0.25
reactivity to water	ASTM											

D.L. = Detection Limit ND = Not Detected or below the detection limit M = Modified method for Solid matrix

* = 1:1 Extraction with deionized water ^Matrix Interference

** = 1:10 Extraction with deionized water

Analyzed By: Final Reviewer: Date:

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel(909)590-5905 Fax(909)590-5907

Volatile Organics, EPA Method 8260B/5035

Laboratory Report

Standard was absorbed by Sample

Matrix: Soil/Solid/Sludge
Unit: mg/Kg (PPM)

Parameter	Sample Results								PQL
Client's sample ID.									
Date Analyzed:	10/28/11	10/28/11	11/1/11	11/1/11	10/28/11	10/28/11			
Time:									
Dilution:	1	1	5	5	1	1			
Lab I.D. # :	M-BLK	111028-33	111028-34	111028-35	111028-36	111028-37			
Acetone	ND	ND	ND	ND	ND	ND			0.020
Acrolein	ND	ND	ND	ND	ND	ND			0.020
Acrylonitrile	ND	ND	ND	ND	ND	ND			0.020
Benzene	ND	ND	ND	ND	ND	ND			0.005
Bromobenzene	ND	ND	ND	ND	ND	ND			0.005
Bromochloromethane	ND	ND	ND	ND	ND	ND			0.005
Bromodichloromethane	ND	ND	ND	ND	ND	ND			0.005
Bromoform	ND	ND	ND	ND	ND	ND			0.005
Bromomethane	ND	ND	ND	ND	ND	ND			0.005
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND			0.020
n-Butylbenzene	ND	ND	ND	ND	ND	ND			0.005
sec-Butylbenzene	ND	ND	ND	ND	ND	ND			0.005
tert-Butylbenzene	ND	ND	ND	ND	ND	ND			0.005
Carbon Disulfide	ND	ND	ND	ND	ND	ND			0.010
Carbon tetrachloride	ND	ND	ND	ND	ND	ND			0.005
Chlorobenzene	ND	ND	ND	ND	ND	ND			0.005
Chloroethane	ND	ND	ND	ND	ND	ND			0.005
Chloroform	ND	ND	ND	ND	ND	ND			0.005
Chloromethane	ND	ND	ND	ND	ND	ND			0.005
2-Chlorotoluene	ND	ND	ND	ND	ND	ND			0.005
4-Chlorotoluene	ND	ND	ND	ND	ND	ND			0.005
Dibromochloromethane	ND	ND	ND	ND	ND	ND			0.005
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ND			0.005
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND			0.005
Dibromomethane	ND	ND	ND	ND	ND	ND			0.005
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND			0.005
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND			0.005
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND			0.005
Trans 1,4-Dichlorobutene	ND	ND	ND	ND	ND	ND			0.005
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND			0.005
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND			0.005
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND			0.005
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND			0.005
Cis 1,2-Dichloroethene	ND	ND	ND	ND	ND	ND			0.005
Trans 1,2-dichloroethene	ND	ND	ND	ND	ND	ND			0.005
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND			0.005
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND			0.005
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND			0.005
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND			0.005
Cis 1,3-Dichloropropene	ND	ND	ND	ND	ND	ND			0.005
Trans 1,3-Dichloropropene	ND	ND	ND	ND	ND	ND			0.005
Diethyl ether	ND	ND	ND	ND	ND	ND			0.020

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Volatile Organics, EPA Method 8260B/5035
Laboratory Report

Matrix: Soil/Solid/Sludge
Unit: mg/Kg (PPM)

Parameter	Sample Results								PQL
Client's sample ID.									
Date Analyzed:	10/28/11	10/28/11	11/1/11	11/1/11	10/28/11	10/28/11			
Time:									
Dilution:	1	1	5	5	1	1			
Lab I.D. # :	M-BLK	111028-33	111028-34	111028-35	111028-36	111028-37			
Ethylbenzene	ND	ND	ND	ND	ND	ND			0.005
2-Hexanone	ND	ND	ND	ND	ND	ND			0.020
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND			0.005
Iodomethane	ND	ND	ND	ND	ND	ND			0.005
Isopropylbenzene	ND	ND	ND	ND	ND	ND			0.005
4-Isopropyltoluene	ND	ND	ND	ND	ND	ND			0.005
4-Methyl-2-Pentanone (MIBK)	ND	ND	ND	ND	ND	ND			0.020
Methyl tert butyl ether (MTBE)	ND	ND	ND	ND	ND	ND			0.005
Methylene Chloride	ND	ND	ND	ND	ND	ND			0.010
Naphthalene	ND	ND	ND	ND	ND	ND			0.005
n-Propylbenzene	ND	ND	ND	ND	ND	ND			0.005
Styrene	ND	ND	ND	ND	ND	ND			0.005
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND			0.005
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND			0.005
Tetrachloroethene (PCE)	ND	0.116	ND	ND	0.00628	0.00800			0.005
Tetrahydrofuran	ND	ND	ND	ND	ND	ND			0.020
Toluene	ND	ND	ND	ND	ND	ND			0.005
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND			0.005
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND			0.005
1,1,1-Trichloroethane (TCA)	ND	ND	ND	ND	ND	ND			0.005
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND			0.005
Trichloroethene (TCE)	ND	ND	ND	ND	ND	ND			0.005
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND			0.005
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND			0.005
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND			0.005
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND			0.005
Vinyl chloride	ND	ND	ND	ND	ND	ND			0.005
m/p-Xylene x2	ND	ND	ND	ND	ND	ND			0.010
o-Xylene	ND	ND	ND	ND	ND	ND			0.005
Total Xylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**0.000**	**0.000**	**0.015**

Comments:

DF = Dilution Factor
Actual Detection Limit= PQL X DF
* = Actual Detection Limit raised due to matrix interference (If Marked)

PQL = Practical Quantitation Limit
ND = Non-Detected or below the Actual Detection Limit

Analyzed/Reviewed By: _____ **Final Reviewer:** _____

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

CCID (S) REPORT

Date Extracted: 11/1/2011

Matrix: Soil/Solid/Sludge
Unit: mg/Kg (PPM)

Parameter	Sample Results							D.L.
Date Analyzed:	11/1/11	11/1/11	11/1/11	11/1/11	11/1/11	11/1/11	11/1/11	
Time Analyzed:								
Dilution Factor:	1	4000	1	1	1	1	1	
Lab I.D. # :	M-BLK	111020-22	111028-1	111028-33	111028-34	111028-35	111028-36	
C4~C10	ND	538760	ND	ND	ND	ND	ND	10
C11~C22	ND	83600#	ND	ND	ND	ND	ND	10
C23~C35	ND	ND	ND	ND	ND	ND	ND	50

Parameter	Sample Results							D.L.
Date Analyzed:	11/1/11	11/1/11	11/1/11	11/1/11	11/1/11			
Time Analyzed:								
Dilution Factor:	1	1	1	1	1			
Lab I.D. # :	111028-37	111028-38	111028-39	111028-40	111028-41			
C4~C10	ND	ND	ND	ND	ND			10
C11~C22	ND	ND	ND	ND	ND			10
C23~C35	ND	ND	ND	ND	ND			50

Parameter	Sample Results							D.L.
Date Analyzed:								
Time Analyzed:								
Dilution Factor:								
Lab I.D. # :								
C4~C10								10
C11~C22								10
C23~C35								50

D.L. = Detection Limit

N.D. = Non-Detected or below the detection limit

PEAKS IN RANGES BUT HAVE NO DIESEL PATTERN (If Marked)

* MATRIX INTERFERENCE (IF MARKED)

** Limited Sample

*** Dark Extract

^ PEAKS IN RANGES BUT HAVE NO GASOLINE PATTERN (If Marked)

Analyzed/Reviewed By: _____

Final Reviewer: _____

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
0 1 Week (Standard)
Other:

Misc.

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8015m TPHcc	8260b								COMMENTS
FVP1-5'	11020-8	10/19/11	11:40	SOIL	5	40C	1x[illegible]	X	X								
FVP1-15'	-9	"	11:47	"	"	"	1x[illegible]	X	X								
FVP1-30'	-10	"	11:53	"	"	"		X	X								
FVP1-60'	-11	"	12:12	"	"	"		X	X								
FVP1-90'	-12	"	12:42	"	"	"		X	X								
FVP3-5'	-13	10/20/11	8:31	"	"	"		X	X								
FVP3-15'	-14	"	8:49	"	"	"		X	X								
FVP3-30'	-15	"	9:05	"	"	"		X	X								
FVP3-60'	-16	"	9:58	"	"	"		X	X								
FVP3-90'	-17	"	10:43	"	"	"		X	X								

Company Name: FERO ENG. / CONT. HEAT TREAT 10-758
Address: 431 W. LAMBERT RD #305
City/State/Zip: BREA CA 92821

Project Contact: RICK FERO
Tel: (714) 256-2737
Fax:

Sampler's Signature: [signature]
Project Name/ID: TREAT CONTINENTAL HEAT

Relinquished by:	Received by:	Date & Time:
[signature]	[signature]	10/20/11 11:20

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: _____

WHITE WITH SAMPLE • YELLOW TO CLIENT

Page ____ of ____