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A Member of The IT Group

M60050.002502
MCAS EL TORO
SSIC #5090.3

June 2, 1999

Ms. Bozier H. Demaree, Code 02R.BD
Contracting Officer
Naval Facilities Engineering Command, Southwest Division
1220 Pacific Highway
San Diego, California 92132-5187

Attn: Ms. Lynn Marie Hornecker

Re: Tank Closure Report
Above-ground Storage Tank (AST) 155 at
Marine Corps Air Station El Toro, California
SWDIV Contract No. N68711-93-D-1459
DCN SW 6816, Delivery Order No. 70

This Tank Closure Report summarizes the field activities conducted and associated with the removal of aboveground storage tank (AST) at Building 155. One AST designated as AST 155 was removed from the Building 155 site at Marine Corps Air Station, El Toro, California (hereinafter referred to as "the Station"). The location of the Station is shown on Figure 1-1, Facility Location Map.

Building 155 is located in the southwest quadrant of the Station, south of Bee Canyon Wash near the cross section of South Marine Way and "L" street. An unpaved fenced area surrounds Building 155 and currently being used as Grounds Equipment Storage shed. Building 155 was a pump house for the former water distribution system. The AST 155 is located just outside of the fenced area northwest to Building 155 in a concrete berm area. Building 155 and the AST 155 locations are shown on Figure 1-2, Location Map.

Summary of Field Activities

Field activities were conducted in accordance with the approved *Draft Work Plan, Remediation of Various Underground Tanks at the Marine Corps Air Station El Toro, California, OHM 1995.* Details of the AST 155 field activities are described below.

Permitting and Utility Investigation

Prior to initiating field activities, OHM contacted the Orange County Health Care Agency (OCHCA) and was informed by the agency that no permits were required for removal of the AST. A geophysical survey of the AST area was conducted by an OHM subcontractor, Spectrum Geophysical Services Inc., to locate the underground utilities in the area. The Geophysical Survey Data is provided in Appendix A.

Site Inspection

OHM personnel conducted a site inspection on April 20, 1999 to visually inspect the AST 155 area. AST 155 location was observed adjacent to the north west side of Building 155.
The tank had a hose and fuel dispensing nozzle attached; indicating that tank had been used to fuel vehicles and/or equipment at the site.

During the visual inspection of the AST 155 area, OHM observed some evidence of surface stains at four locations on the unpaved dirt area surrounding the concrete berm. OHM determined the general hand auger sampling locations at the stained areas. A copy of the Site Inspection Log is included in Appendix B, Site Inspection Log.

AST Gauging and Removal

AST 155, a 500-gallon, steel diesel fuel storage tank was located in a square concrete berm area. The AST was gauged on April 20, 1999 and was observed to be empty.

OHM removed the AST 155 on May 6, 1999 by lifting it (using a forklift) from the support legs. The inside of the AST 155 was tested using Lower Explosive Limit meter to verify the absence of any flammable vapors. Dry ice was placed inside the AST to maintain it in an inert condition. The AST 155 was transported off-site by Ecology Control Industries, a subcontractor to OHM, to Erickson Inc., tank processing facility in Fontana, California. A copy of the waste manifest is included in Appendix C, Waste Manifest.

There was no underground vent piping associated with the AST 155 but a steel ladder for access to the AST. Photographs of the field activities are included in Appendix D, Site Photographs.

Sampling, Analysis, and Results

OHM collected eight confirmation soil samples (at 6-inches and 18-inches bgs) from the four hand auger locations and three Quality Assurance and Quality Control (QA/QC) samples at the AST 155 area. Hand auger locations were selected based on the visual inspection of the AST 155 area. All the soil samples were analyzed for total petroleum hydrocarbons purgable and extractable (TPH) by CA LUFT Method 8015 modified. Also, benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) compounds were analyzed by EPA method 8260.

Analytical results from the hand augered soil samples indicated TPH, as diesel was present at locations HA-01 (at 247 mg/kg), HA-03 (at 670 mg/kg) and HA-04 (at 18 mg/kg). The highest concentration of TPH as diesel was detected in HA-03 at 670 mg/kg. No BTEX and MTBE compounds were detected in the eight-confirmation soil samples. The analytical data are summarized in Table 1-1, Summary of Analytical Results -AST 155. Hard copies of the laboratory analytical reports with QA/QC data are included in Appendix E, Laboratory Analytical Reports.

Land Surveying

After completing the confirmation soil sampling, the hand auger soil boring locations were surveyed on April 14, 1999 by Cal Vada Surveying, Inc., a California-registered land surveyor. The surveyed locations were measured to ± 0.01 feet horizontally and tied to the California State Plane Coordinate Systems, North American Datum 1983. The surveyed elevations were measured to ± 0.01 feet vertically and tied to msl elevation. The land surveying data for the AST 155 are presented as Appendix F, Land Survey Data.

Conclusions and Recommendations

The following conclusions are based upon information from site inspection and OHM soil sampling data:

- AST 155 was removed and transported off-site to Erickson Inc., an approved tank processing facility in Fontana, California.

- Confirmation soil samples collected in the vicinity of the AST 155 area identified low concentration of TPH as diesel (670 mg/kg in one sample). Additionally, benzene and MTBE were not detected in all eight-soil samples, eliminating the threat to human health from exposure to the surface and shallow soils.

Based on the information presented in this report and a review of the analytical results, OHM recommends that AST 155 site be considered closed.

Should you have any questions or comments, please feel free to contact either of the undersigned at (949) 261-6441.

Sincerely,
OHM Remediation Services Corporation

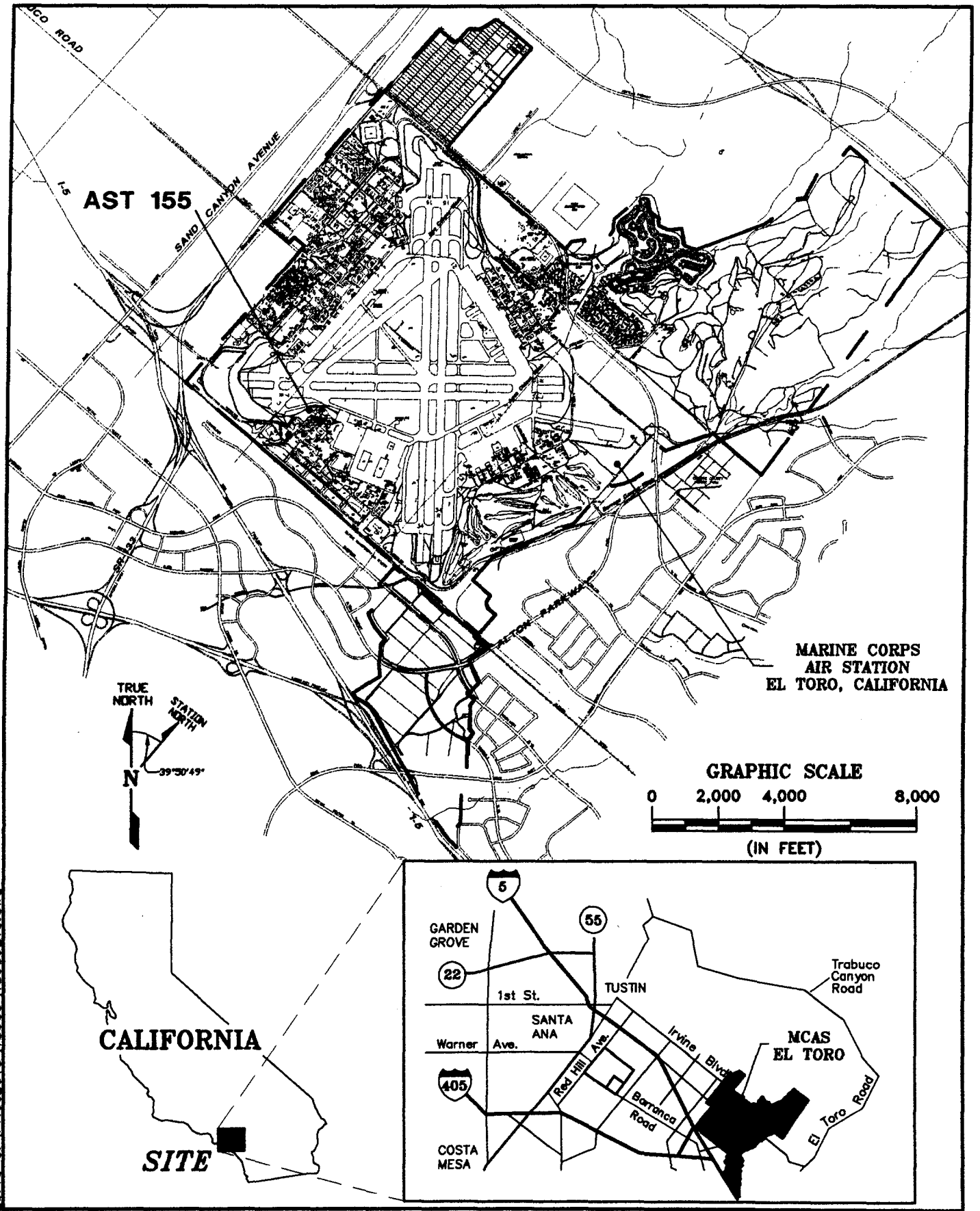
Dhananjay Rawal
Project Engineer

William Sedlak, P.E.
Project Manager

Attachments:

Table 1-1	Analytical Results
Figure 1-1	Facility Location Map
Figure 1-2	Location Map
Appendix A	Geophysical Survey Data
Appendix B	Site Inspection Log
Appendix C	Waste Manifest
Appendix D	Site Photographs
Appendix E	Laboratory Analytical Results
Appendix F	Land Survey Data

Figures



OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA	DRAWN BY R. PIRMORADIAN	DATE 05/27/99	FACILITY LOCATION MAP AST 155
	CHECKED BY DR	DATE 5/27/99	
	APPROVED BY	DATE	
CONTRACT NAME SWDIV	PROJECT MANAGER	DATE 10/1/99	MARINE CORPS AIR STATION EL TORO, CALIFORNIA

AUTOCAD FILE No.	PLOT SCALE	SHEET	OF	SCALE	DOCUMENT CONTROL No.	OHM PROJECT No.	FIGURE No.	REVISION
18609210.DWG	1=1	1	1	1"=4,000'	SW6816	18609	FIG 1-1	0

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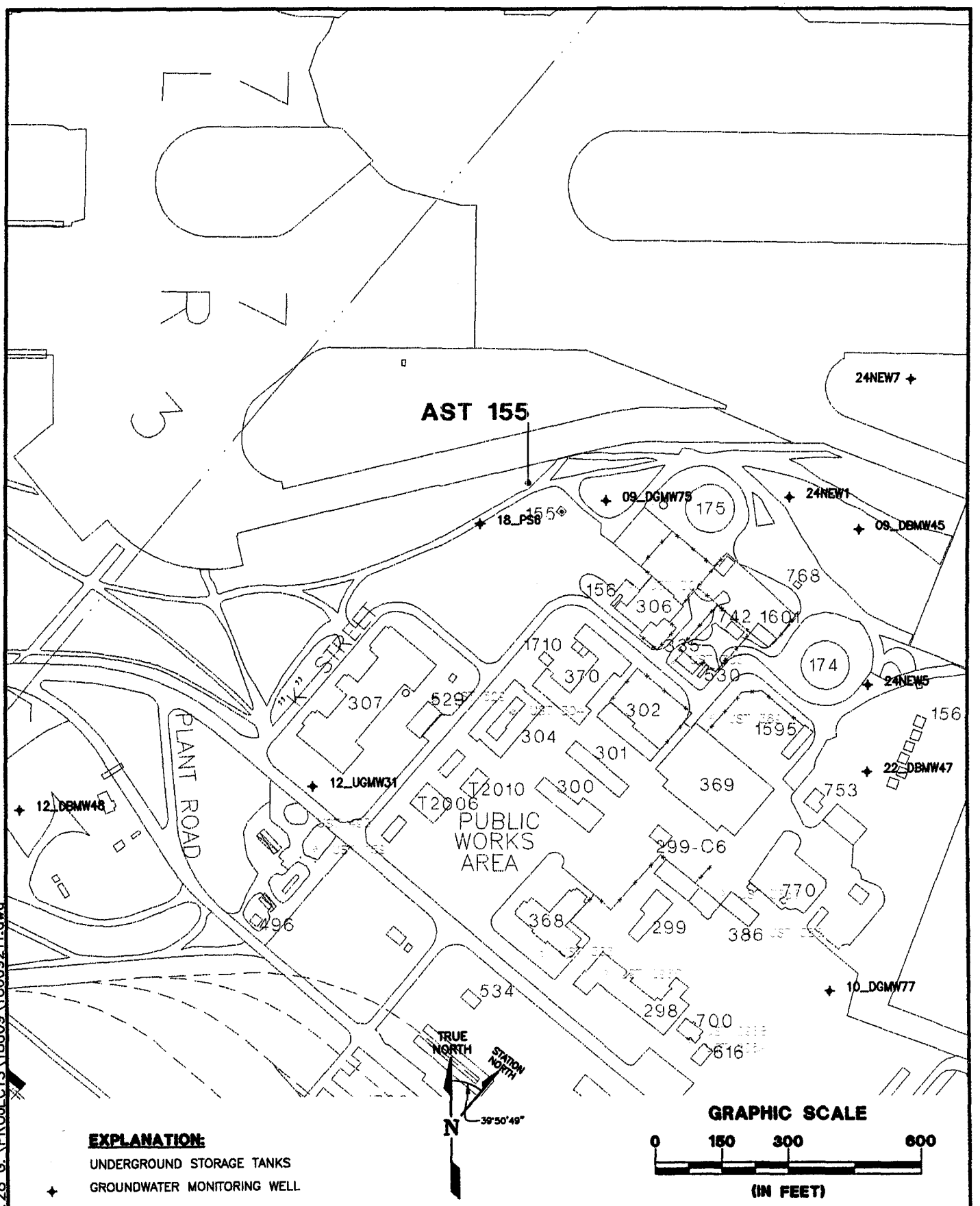

OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA	DRAWN BY R. PIRMORADIAN	DATE 05/27/99	LOCATION MAP AST 155
	CHECKED BY DR	DATE 5/27/99	
	APPROVED BY	DATE	
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AUTOCAD FILE No.	PLOT SCALE	SHEET	OF	SCALE	DOCUMENT CONTROL No.	OHM PROJECT No.	FIGURE No.	REVISION
18609211.DWG	1=1	1	1	1"=300'	SW6816	18609	FIG 1-2	0

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Table

Table 1-1
Analytical Results for Soil Samples - AST-155, MCAS El Toro

Sample Identification		18609-2184	18609-2185	18609-2186	18609-2187	18609-2188	18609-2189	18609-2190
Location Code		AST-155-HA01	AST-155-HA01	AST-155-HA01	AST-155-HA04	AST-155-HA04	AST-155-HA02	AST-155-HA02
Date Sampled		04/20/99	04/20/99	04/20/99	04/20/99	04/20/99	04/20/99	04/20/99
Depth (feet below ground surface)		0.5	1.5	1.5	0.5	1.5	0.5	1.5
	Unit							
CA LUFT 8015M								
TPH as Diesel	mg/kg	11 U	247	11 U	12 U	18	9 J	11 U
TPH as Gasoline	mg/kg	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
TPH as Motor Oil	mg/kg	11 U	18	11 U	12 U	16	18	11 U
EPA 8260A								
1,1,1,2-Tetrachloroethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,1,1-Trichloroethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,1,2,2-Tetrachloroethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,1,2-Trichloroethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,1-Dichloroethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,1-Dichloroethene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,1-Dichloropropene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,2,3-Trichlorobenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,2,3-Trichloropropane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,2,4-Trichlorobenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,2,4-Trimethylbenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,2-Dibromoethane (EDB)	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,2-Dichlorobenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,2-Dichloroethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,2-Dichloropropane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,3,5-Trimethylbenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,3-Dichlorobenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,3-Dichloropropane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
1,4-Dichlorobenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
2,2-Dichloropropane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
2-Butanone (MEK)	µg/kg	110 U	110 U	110 U	120 U	110 U	110 U	110 U
2-Chlorotoluene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
4-Chlorotoluene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
4-Methyl-2-pentanone (MIBK)	µg/kg	57 U	55 U	53 U	59 U	56 U	57 U	55 U
Acetone	µg/kg	110 U	110 U	110 U	120 U	110 U	110 U	110 U
Benzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Bromobenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U

Table 1-1
Analytical Results for Soil Samples - AST-155, MCAS El Toro

Sample Identification		18609-2184	18609-2185	18609-2186	18609-2187	18609-2188	18609-2189	18609-2190
Location Code		AST-155-HA01	AST-155-HA01	AST-155-HA01	AST-155-HA04	AST-155-HA04	AST-155-HA02	AST-155-HA02
Date Sampled		04/20/99	04/20/99	04/20/99	04/20/99	04/20/99	04/20/99	04/20/99
Depth (feet below ground surface)		0.5	1.5	1.5	0.5	1.5	0.5	1.5
	Unit							
Bromochloromethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Bromodichloromethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Bromoform	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Bromomethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Carbon disulfide	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Carbon tetrachloride	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Chlorobenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Chloroethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Chloroform	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Chloromethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
cis-1,2-Dichloroethene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
cis-1,3-Dichloropropene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Dibromochloromethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Dibromomethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Dichlorodifluoromethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Ethylbenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Hexachlorobutadiene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Isopropylbenzene (Cumene)	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Methyl tert-butyl ether (MTBE)	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U
Methylene chloride	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
N-Butylbenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
N-Propylbenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Naphthalene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
p-Isopropyltoluene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
sec-Butylbenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Styrene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
tert-Butylbenzene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Tetrachloroethene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Toluene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
trans-1,2-Dichloroethene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
trans-1,3-Dichloropropene	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Trichloroethene	µg/kg	1 J	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Trichlorofluoromethane	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U

Table 1-1
Analytical Results for Soil Samples - AST-155, MCAS El Toro

Sample Identification		18609-2184	18609-2185	18609-2186	18609-2187	18609-2188	18609-2189	18609-2190
Location Code		AST-155-HA01	AST-155-HA01	AST-155-HA01	AST-155-HA04	AST-155-HA04	AST-155-HA02	AST-155-HA02
Date Sampled		04/20/99	04/20/99	04/20/99	04/20/99	04/20/99	04/20/99	04/20/99
Depth (feet below ground surface)		0.5	1.5	1.5	0.5	1.5	0.5	1.5
	Unit							
Vinyl chloride	µg/kg	5.7 U	5.5 U	5.3 U	5.9 U	5.6 U	5.7 U	5.5 U
Xylenes (total)	µg/kg	17 U	16 U	16 U	18 U	17 U	17 U	17 U

Table 1-1
Analytical Results for Soil Samples - AST-155, MCAS El Toro

Sample Identification		18609-2192	18609-2193
Location Code		AST-155-HA03	AST-155-HA03
Date Sampled		04/20/99	04/20/99
Depth (feet below ground surface)		0.5	1.5
	Unit		
CA LUFT 8015M			
TPH as Diesel	mg/kg	670	57
TPH as Gasoline	mg/kg	1.1 U	1.1 U
TPH as Motor Oil	mg/kg	170	5 J
EPA 8260A			
1,1,1,2-Tetrachloroethane	µg/kg	5.6 U	5.6 U
1,1,1-Trichloroethane	µg/kg	5.6 U	5.6 U
1,1,2,2-Tetrachloroethane	µg/kg	5.6 U	5.6 U
1,1,2-Trichloroethane	µg/kg	5.6 U	5.6 U
1,1-Dichloroethane	µg/kg	5.6 U	5.6 U
1,1-Dichloroethene	µg/kg	5.6 U	5.6 U
1,1-Dichloropropene	µg/kg	5.6 U	5.6 U
1,2,3-Trichlorobenzene	µg/kg	5.6 U	5.6 U
1,2,3-Trichloropropane	µg/kg	5.6 U	5.6 U
1,2,4-Trichlorobenzene	µg/kg	5.6 U	5.6 U
1,2,4-Trimethylbenzene	µg/kg	5.6 U	5.6 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	5.6 U	5.6 U
1,2-Dibromoethane (EDB)	µg/kg	5.6 U	5.6 U
1,2-Dichlorobenzene	µg/kg	5.6 U	5.6 U
1,2-Dichloroethane	µg/kg	5.6 U	5.6 U
1,2-Dichloropropane	µg/kg	5.6 U	5.6 U
1,3,5-Trimethylbenzene	µg/kg	5.6 U	5.6 U
1,3-Dichlorobenzene	µg/kg	5.6 U	5.6 U
1,3-Dichloropropane	µg/kg	5.6 U	5.6 U
1,4-Dichlorobenzene	µg/kg	5.6 U	5.6 U
2,2-Dichloropropane	µg/kg	5.6 U	5.6 U
2-Butanone (MEK)	µg/kg	110 U	110 U
2-Chlorotoluene	µg/kg	5.6 U	5.6 U
4-Chlorotoluene	µg/kg	5.6 U	5.6 U
4-Methyl-2-pentanone (MIBK)	µg/kg	56 U	56 U
Acetone	µg/kg	110 U	110 U
Benzene	µg/kg	5.6 U	5.6 U
Bromobenzene	µg/kg	5.6 U	5.6 U

Table 1-1
Analytical Results for Soil Samples - AST-155, MCAS El Toro

Sample Identification		18609-2192	18609-2193
Location Code		AST-155-HA03	AST-155-HA03
Date Sampled		04/20/99	04/20/99
Depth (feet below ground surface)		0.5	1.5
	Unit		
Bromochloromethane	µg/kg	5.6 U	5.6 U
Bromodichloromethane	µg/kg	5.6 U	5.6 U
Bromoform	µg/kg	5.6 U	5.6 U
Bromomethane	µg/kg	5.6 U	5.6 U
Carbon disulfide	µg/kg	5.6 U	5.6 U
Carbon tetrachloride	µg/kg	5.6 U	5.6 U
Chlorobenzene	µg/kg	5.6 U	5.6 U
Chloroethane	µg/kg	5.6 U	5.6 U
Chloroform	µg/kg	5.6 U	5.6 U
Chloromethane	µg/kg	5.6 U	5.6 U
cis-1,2-Dichloroethene	µg/kg	5.6 U	5.6 U
cis-1,3-Dichloropropene	µg/kg	5.6 U	5.6 U
Dibromochloromethane	µg/kg	5.6 U	5.6 U
Dibromomethane	µg/kg	5.6 U	5.6 U
Dichlorodifluoromethane	µg/kg	5.6 U	5.6 U
Ethylbenzene	µg/kg	5.6 U	5.6 U
Hexachlorobutadiene	µg/kg	5.6 U	5.6 U
Isopropylbenzene (Cumene)	µg/kg	5.6 U	5.6 U
Methyl tert-butyl ether (MTBE)	µg/kg	11 U	11 U
Methylene chloride	µg/kg	5.6 U	5.6 U
N-Butylbenzene	µg/kg	5.6 U	5.6 U
N-Propylbenzene	µg/kg	5.6 U	5.6 U
Naphthalene	µg/kg	5.6 U	5.6 U
p-Isopropyltoluene	µg/kg	5.6 U	5.6 U
sec-Butylbenzene	µg/kg	5.6 U	5.6 U
Styrene	µg/kg	5.6 U	5.6 U
tert-Butylbenzene	µg/kg	5.6 U	5.6 U
Tetrachloroethene	µg/kg	5.6 U	5.6 U
Toluene	µg/kg	5.6 U	5.6 U
trans-1,2-Dichloroethene	µg/kg	5.6 U	5.6 U
trans-1,3-Dichloropropene	µg/kg	5.6 U	5.6 U
Trichloroethene	µg/kg	5.6 U	5.6 U
Trichlorofluoromethane	µg/kg	5.6 U	5.6 U

Table 1-1
Analytical Results for Soil Samples - AST-155, MCAS El Toro

Sample Identification		18609-2192	18609-2193
Location Code		AST-155-HA03	AST-155-HA03
Date Sampled		04/20/99	04/20/99
Depth (feet below ground surface)		0.5	1.5
	Unit		
Vinyl chloride	µg/kg	5.6 U	5.6 U
Xylenes (total)	µg/kg	17 U	17 U

Table 1-1
Analytical Results for Field QC Samples - AST-155, MCAS El Toro

Sample Identification		18609-2183	18609-2191
Location Code		Trip Blank	Equipment Rinsate
Date Sampled		04/20/99	04/20/99
	Unit		
CA LUFT 8015M			
TPH as Diesel	mg/L	NA	0.5 U
TPH as Gasoline	mg/L	NA	0.05 U
TPH as Motor Oil	mg/L	NA	0.5 U
EPA 8260A			
1,1,1,2-Tetrachloroethane	µg/L	5 U	5 U
1,1,1-Trichloroethane	µg/L	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U
1,1-Dichloropropene	µg/L	5 U	5 U
1,2,3-Trichlorobenzene	µg/L	5 U	5 U
1,2,3-Trichloropropane	µg/L	5 U	5 U
1,2,4-Trichlorobenzene	µg/L	5 U	5 U
1,2,4-Trimethylbenzene	µg/L	5 U	5 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5 U	5 U
1,2-Dibromoethane (EDB)	µg/L	5 U	5 U
1,2-Dichlorobenzene	µg/L	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U
1,3,5-Trimethylbenzene	µg/L	5 U	5 U
1,3-Dichlorobenzene	µg/L	5 U	5 U
1,3-Dichloropropane	µg/L	5 U	5 U
1,4-Dichlorobenzene	µg/L	5 U	5 U
2,2-Dichloropropane	µg/L	5 U	5 U
2-Butanone (MEK)	µg/L	100 U	100 U
2-Chlorotoluene	µg/L	5 U	5 U
4-Chlorotoluene	µg/L	5 U	5 U
4-Methyl-2-pentanone (MIBK)	µg/L	50 U	50 U
Acetone	µg/L	100 U	100 U
Benzene	µg/L	5 U	5 U
Bromobenzene	µg/L	5 U	5 U
Bromochloromethane	µg/L	5 U	5 U

Table 1-1
Analytical Results for Field QC Samples - AST-155, MCAS El Toro

Sample Identification Location Code Date Sampled		18609-2183 Trip Blank 04/20/99	18609-2191 Equipment Rinsate 04/20/99
	Unit		
Bromodichloromethane	µg/L	5 U	5 U
Bromoform	µg/L	5 U	5 U
Bromomethane	µg/L	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U
Chloroethane	µg/L	5 U	5 U
Chloroform	µg/L	5 U	5 U
Chloromethane	µg/L	5 U	5 U
cis-1,2-Dichloroethene	µg/L	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U
Dibromomethane	µg/L	5 U	5 U
Dichlorodifluoromethane	µg/L	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U
Hexachlorobutadiene	µg/L	5 U	5 U
Isopropylbenzene (Cumene)	µg/L	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U	10 U
Methylene chloride	µg/L	5 U	5 U
N-Butylbenzene	µg/L	5 U	5 U
N-Propylbenzene	µg/L	5 U	5 U
Naphthalene	µg/L	5 U	5 U
p-Isopropyltoluene	µg/L	5 U	5 U
sec-Butylbenzene	µg/L	5 U	5 U
Styrene	µg/L	5 U	5 U
tert-Butylbenzene	µg/L	5 U	5 U
Tetrachloroethene	µg/L	1 J	5 U
Toluene	µg/L	5 U	5 U
trans-1,2-Dichloroethene	µg/L	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U
Trichloroethene	µg/L	2 J	5 U
Trichlorofluoromethane	µg/L	5 U	5 U
Vinyl chloride	µg/L	5 U	5 U
Xylenes (total)	µg/L	15 U	15 U

Table 1-1
Summary of Explanation - AST-155, MCAS El Toro

AST - Aboveground Storage Tank
CA LUFT - California Leaking Underground Fuel Tank
EPA - United States Environmental Protection Agency
M - modified
MCAS - Marine Corps Air Station
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
OHM - OHM Remediation Services Corp.
TPH - total petroleum hydrocarbons
U - not detected at or above the stated reporting limit
µg/kg - micrograms per kilogram
µg/L - micrograms per liter

Appendix A
Geophysical Survey Data

Results of Subsurface Investigation

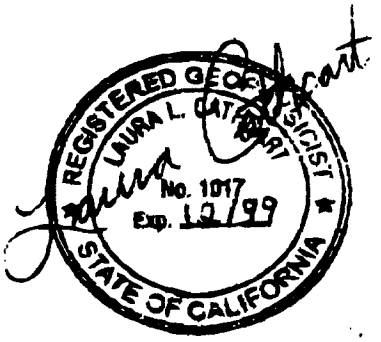
Site 155
Marine Corps Air Station El Toro
Irvine, California

Prepared for: OHM Remediation Corporation
Irvine, California

Date of Investigation: March 10, 1999

Prepared by:

Jim Pfoser
Project Manager
Spectrum-Gasch Geophysics
15260 Sky High Road
Escondido, CA 92025



Laura Cathcart
Registered Geophysicist No. 1017

Warranty:

Spectrum-Gasch Geophysics was retained to conduct a subsurface investigation of the above facility to characterize the shallow subsurface. Our findings are subject to certain limitations due to site conditions and the instruments employed. We conducted this investigation in a manner consistent with our profession using similar methods. No other warranty as to the performance or deliverables is expressed or implied.

Contents

Introduction

Methods

Results and Conclusions

Figure 1 Area of Subsurface Investigation, Site 155, MCAS El Toro, Irvine, California

Appendix A Base Utility Maps for Site 155

Results of Subsurface Investigation
Site 155
MCAS El Toro
Irvine, California

Introduction

On March 10, 1999 Spectrum-Gasch Geophysics conducted a subsurface investigation of Site 155 at MCAS El Toro in Irvine, California. The purpose was to investigate two areas, approximately 15 by 20 feet each, within Site 155 for detectable subsurface utilities.

Methods

The equipment used in this investigation consisted of a Fisher TW-6 shallow-focus terrain conductivity meter, Dynatel 500A cable locator, Radiodetection RD400 utility locator, and a GSSI SIR-3 ground penetrating radar (GPR) unit coupled to a 500 MHz antenna.

GPR and EM utility-locating methods were used in the areas of interest to delineate the surface trace of detectable conduits and to identify buried objects having no surface expression. The following paragraphs discuss the methods used.

1.) Each area was investigated for detectable subsurface utilities or other buried features. Utilities which were exposed above ground in the vicinity of each area were directly connected to, traced out, and mapped on a site map (Figure 1).

2.) Each area was investigated with a passive electromagnetic receiver tuned to 50/60 Hz, radio, and audio frequencies to detect buried utilities that might reradiate an electromagnetic field.

3.) Each area was investigated with two operators in conjunction with a matched frequency transmitter and receiver. We conducted bi-directional traverses to detect increases in signal strength which might suggest subsurface utilities. Each suspected signal increase was further investigated to discern a signal-propagating utility.

4.) GPR data from 11 traverses were collected. A map of these traverses is presented in Figure 1. GPR data were produced in the form of vertical cross sections and interpreted in the field for anomalies whose signatures might indicate the presence of subsurface conduits or other features of interest.

Results and Conclusions

The surface trace of detected utilities was marked on the ground with spray paint using a color code established by the American Public Works Association. A site map with geophysical interpretation is presented in Figure 1. Drilling and excavation activities should be kept a minimum of two feet away from detected utilities.

The penetration depth of the GPR signal was approximately 1-2 feet in all areas investigated. As a consequence, some subsurface utilities may not have been detected due to the shallow penetration of the GPR. Because of this limitation, Spectrum cannot guarantee that all nonmetallic conduits, such as sewers and pvc water lines, have been identified within the areas of investigation.

Base utility maps for this area are included in Appendix A.

M60050.002502
MCAS EL TORO
SSIC # 5090.3

FIGURE 1
AREA OF SUBSURFACE INVESTIGATION, SITE 55, MCAS EL TORO, IRVINE CALIFORNIA

TANK CLOSURE REPORT
ABOVE-GROUND STORAGE TANK (AST) 155

DATED 02 JUNE 1999

BLDG 5

AREA 27 MAPS

C990310

N

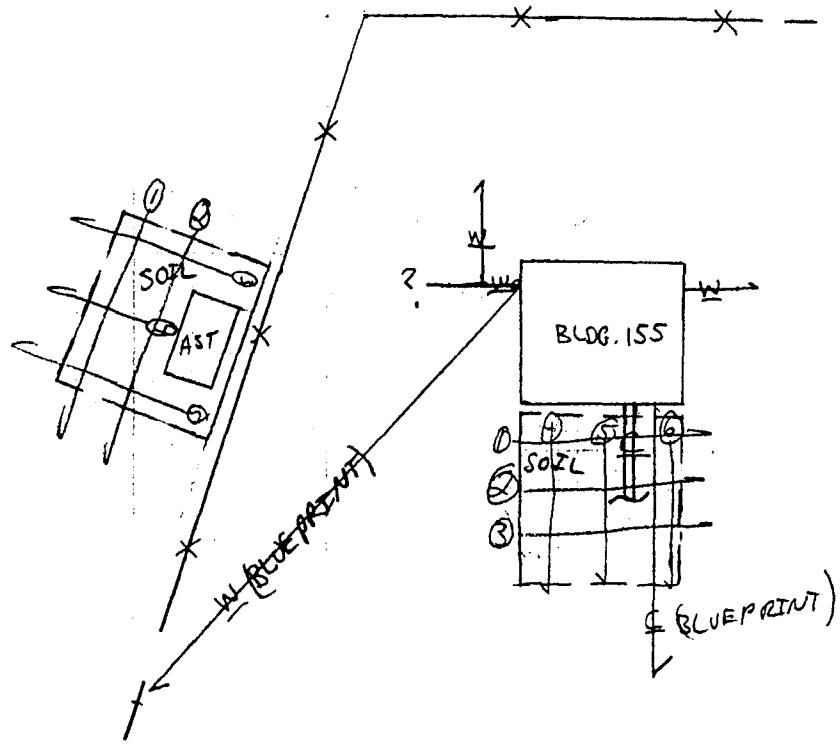
1" = 20'

[ ] = AREA OF INVESTIGATION

W = WATER

C = CONDUIT

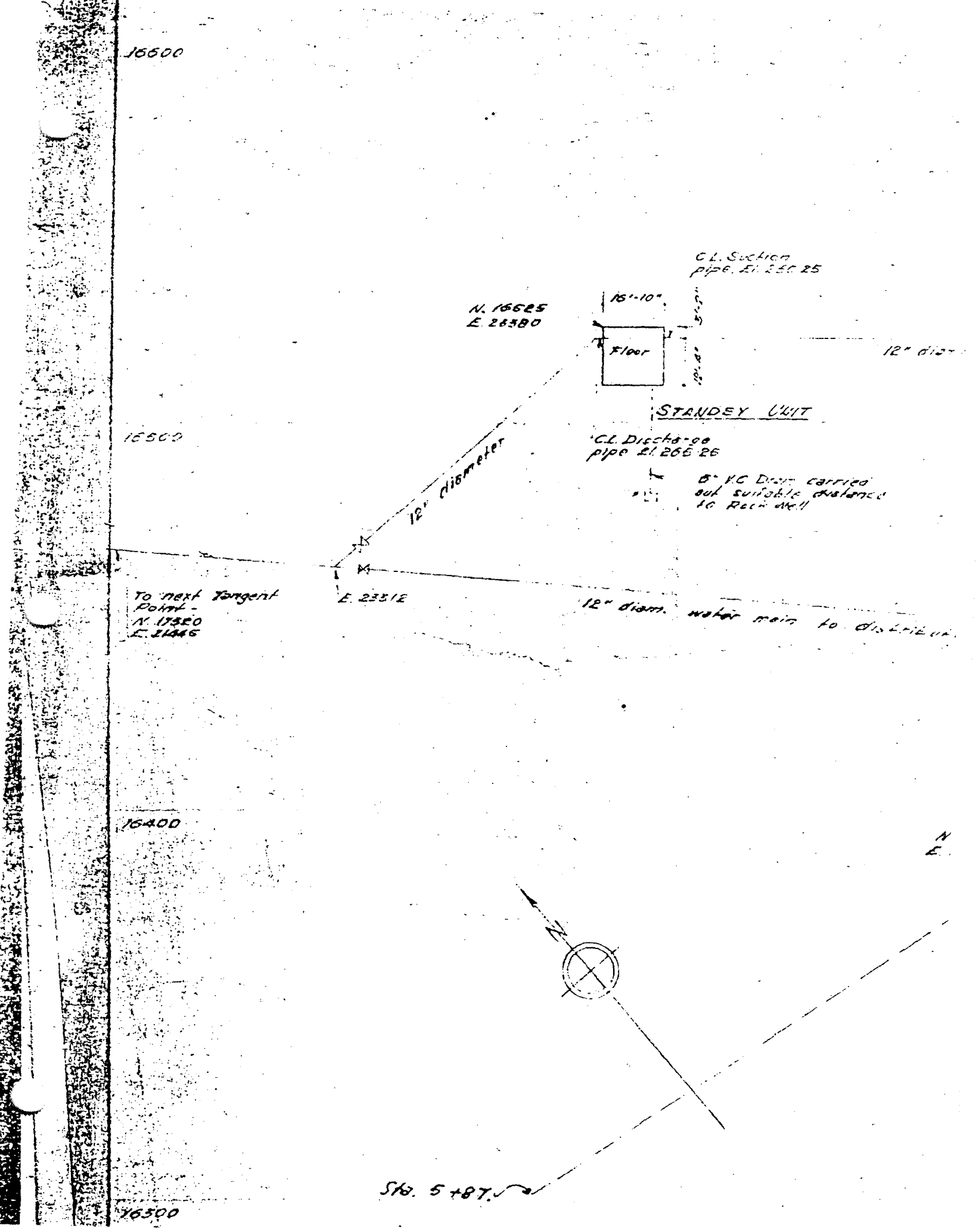
① → = GPR TRAVERSE



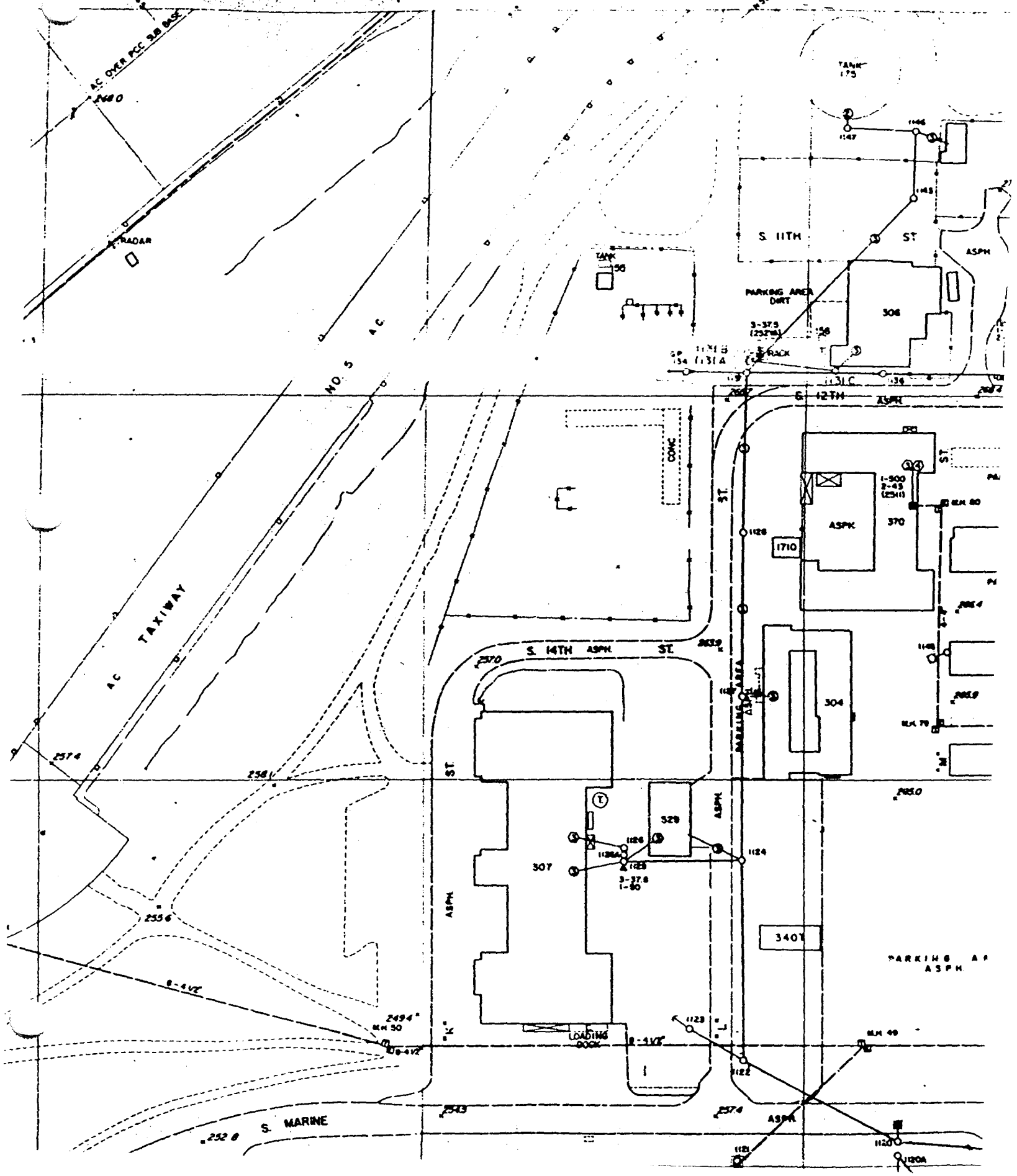
APPENDIX A
BASE UTILITY MAPS FOR SITE 55

TANK CLOSURE REPORT
ABOVE-GROUND STORAGE TANK (AST) 155

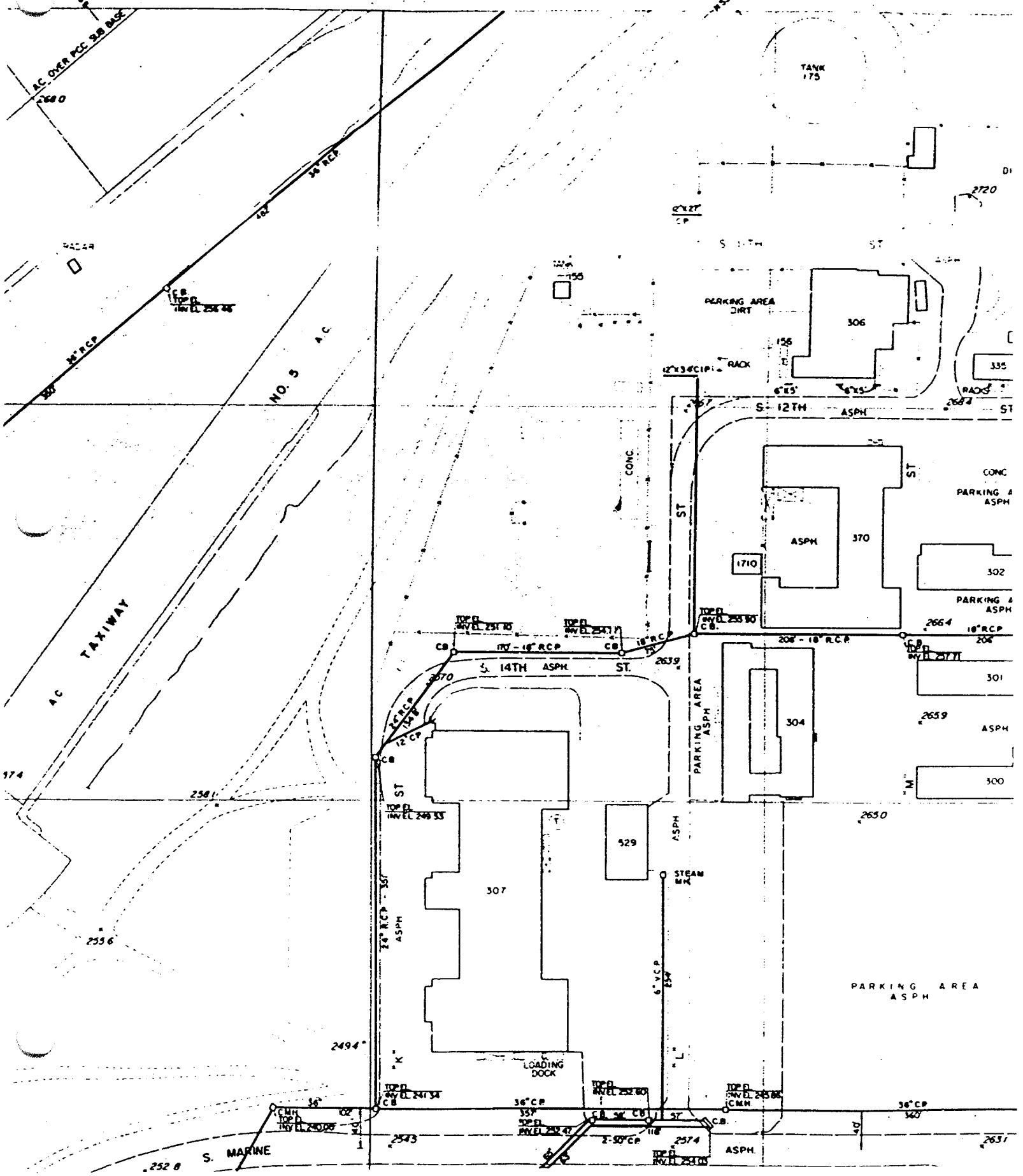
DATED 02 JUNE 1999


16600
C.L. Suction
pipe. El. 266.25
N. 16625
E. 26380
15'-10"
Floor
12" diam
STANDEY UNIT
16500
C.L. Discharge
pipe El. 266.26
12" diameter
8" VC Drain carried
out suitable distance
to Rock Well
To next Tangent
Point -
N. 17320
E. 21446
E. 23512
12" diam. water main to distribution
16400
N
E
Sta. 5+87.
16300

BLDG. 155
ELECTRICAL

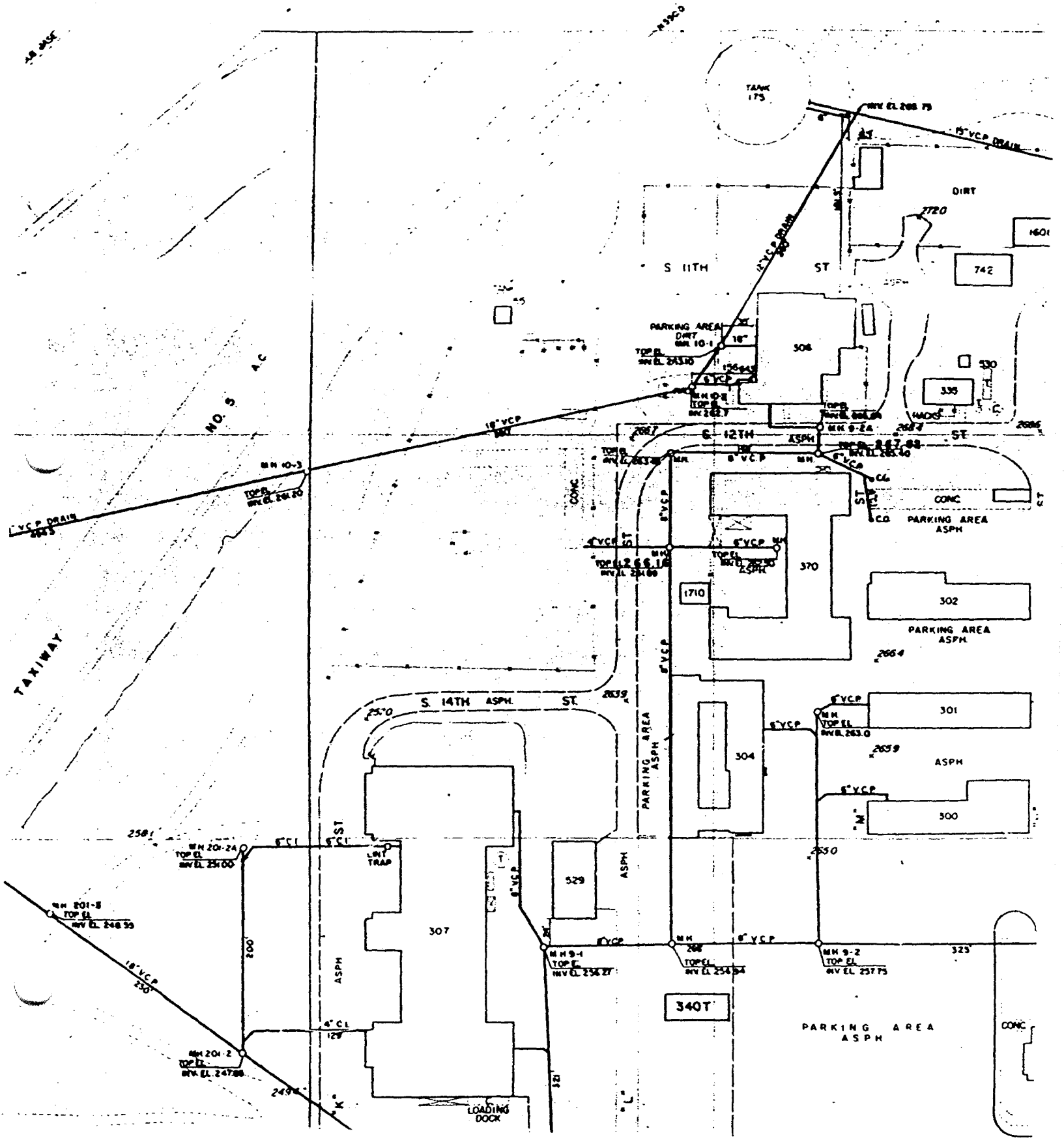


BLDG. 155
STORM SEWERS

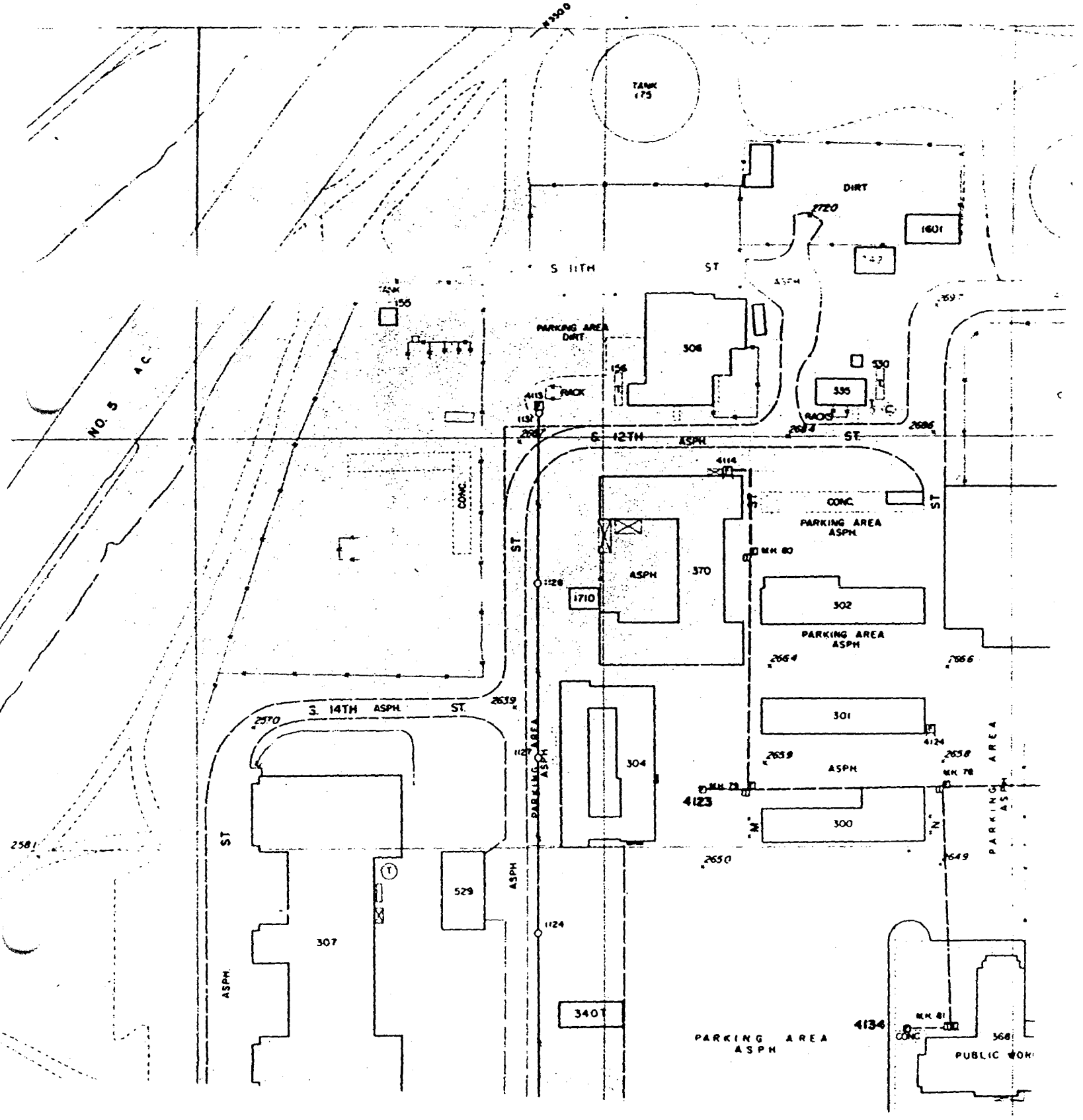


BLDG. 155

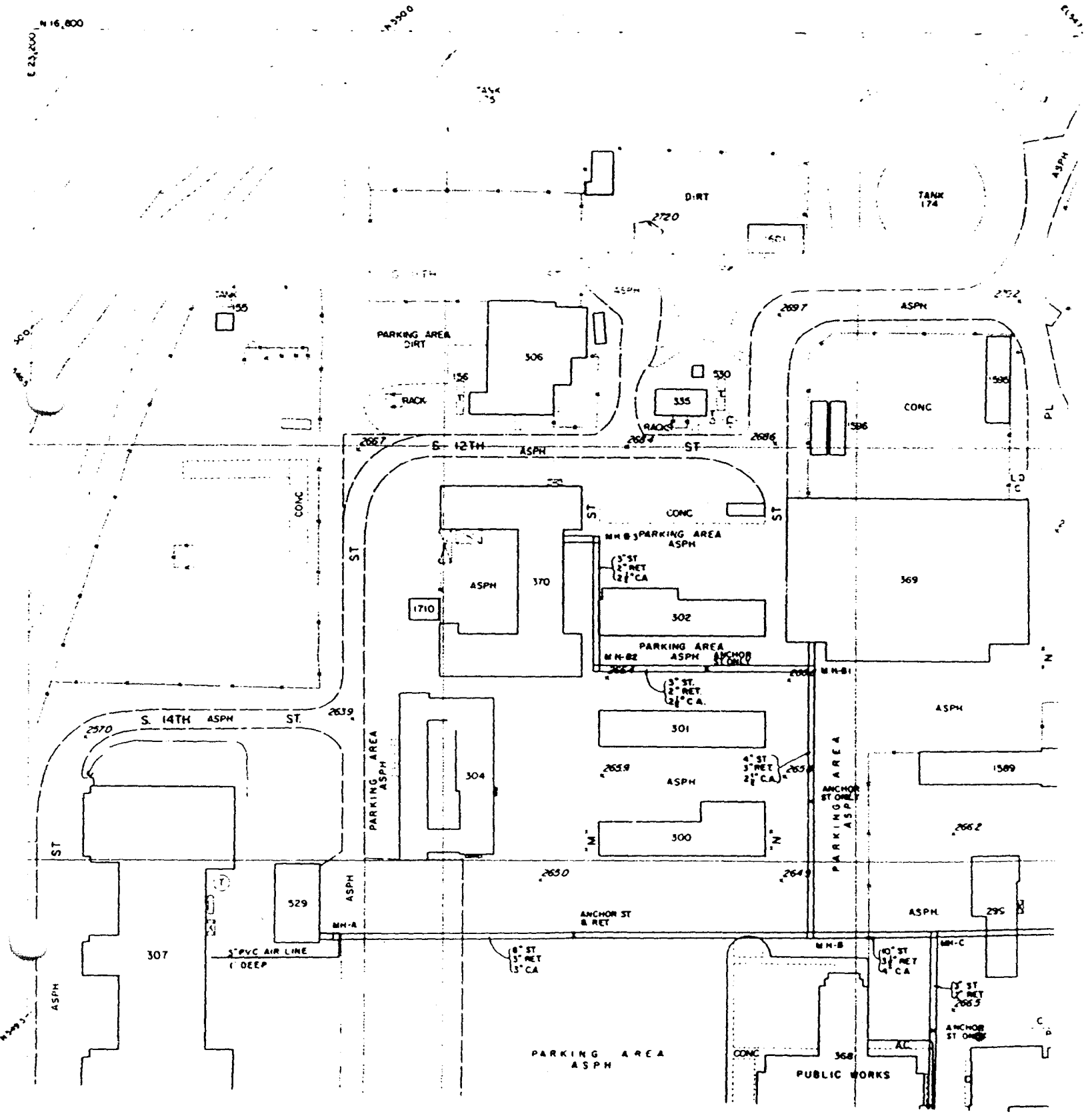
SANITARY SEWER



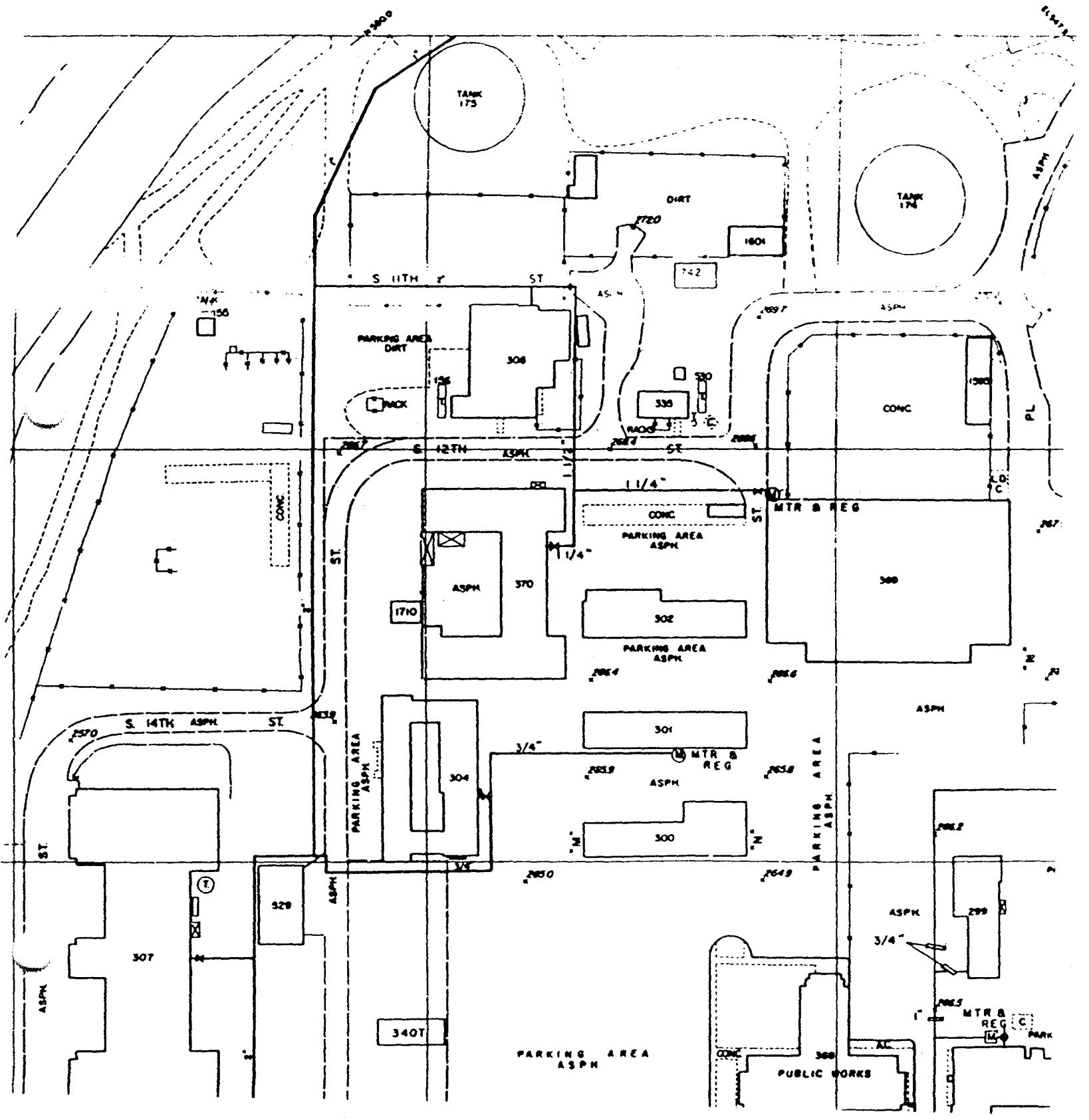
Area 27
Bldg. 155
Comm. & Fire Alarm



Area 27
Bldg. 155
Steam



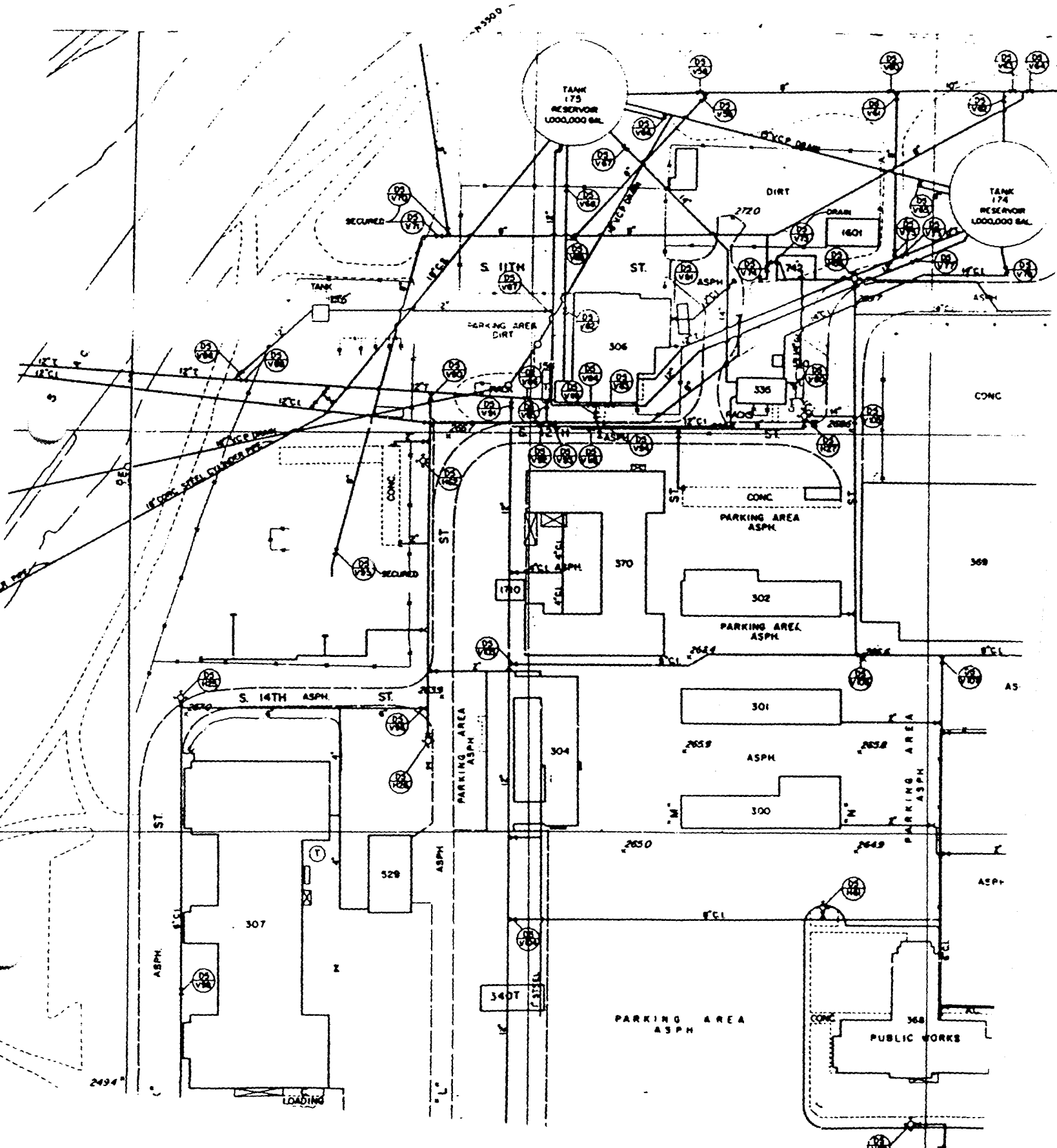
Area 27
Bldg. 155
Nat. Gas Dist.



Area 27

Bldg. 155

Water Dist.



Appendix B
Site Inspection Log

SITE ASSESSMENT LOG
MCAS El Toro
REMEDIATION OF VARIOUS UST SITES
18609, D.O. 70 or 20242, D.O. 112

AST SITE: 155

Field Observations by: D. Rawal **Date:** April 20, 99

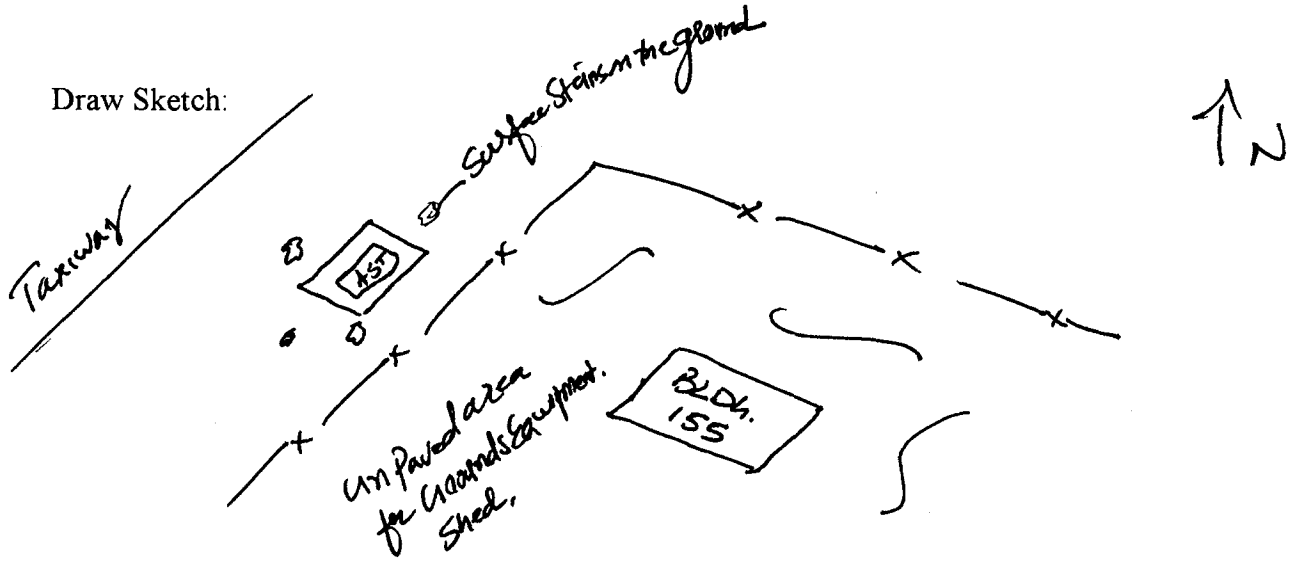
AST area: Paved or Unpaved AST 155 in a Concrete berm area on a support leg AST Seems to be 500 gallon. Steel AST.
Paved: Concrete or Asphalt N/A
Unpaved: Open dirt area — dirt area surround the Concrete berm area
Any Visible Sprinkler System: Yes / No No,

-Nearest Building or Structure Distance: Building 155, Appx 40 feet Northwest

-Any Underground Piping/Lines, or Transformer Observed: No, Underground Piping associated with AST 155, one ladder to access AST
-Overhead Utility Lines/Poles: None,

-Site Setup Constrains: None,

Draw Sketch:



Additional Field Notes: Some surface stains around the Concrete berm area. Probably from AST 155 use, No recent spill observed. AST Seems to be empty and not in active use from long time.

Appendix C
Waste Manifest

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA617002320 Manifest Document No. 85201 2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Commanding General MCAS (IAU)
P.O. Box 95001 Santa Ana, CA 92709

4. Generator's Phone (949) 660-7545 Steve Chandler

A. State Manifest Document Number 98752012

B. State Generator's ID

C. State Transporter's ID

D. Transporter's Phone (310) 320-2555

5. Transporter 1 Company Name
Ecology Control Industries

6. US EPA ID Number CAD982030173

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
ERICKSON INC.
13738 SLOVER AVE.
FONTANA, CA 92337

10. US EPA ID Number CAD982484933

G. State Facility's ID

H. Facility's Phone (909)355-5601

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
Non-RCRA hazardous waste solid (WASTE EMPTY STORAGE TANK)	001	TP	00500	P	State 512 / EPA/Other NA
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

11b. UNDERGROUND STORAGE ONCE CONTAINING PETROLEUM PRODUCTS.

J. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information
USE APPROPRIATE PPE SITE ADDRESS:SAME
EMERGENCY CONTACT:(909)355-5601
JOB#2236 Tank(s)#7928.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Thomas S. Leary Jr	[signature]	05	06	99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Albert A. Ghard	[signature]	05	06	99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Month	Day	Year

DO NOT WRITE BELOW THIS LINE.

GENERATOR — IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

TRANSPORTER

FACILITY

DTSC 8022A (4/97)
EPA 8700—22

White To TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS P.O. Box 3000, Sacramento CA 95812

Tank Processing Facility Land Disposal Restriction Notification Form
Tank Certification
Tank Processing Job # 2236 Torrance

Part1 - To be completed by Customer at job site.

Customer: I.T.	Generator: MCAS	State Waste Codes: 512
Location: Santa Ana	EPA ID#: CA 6170023208	EPA Waste Codes: N/A
Transporter: ECI	Manifest #: 98752012	☐ None ☐ See attached

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Tank #	7928					
Capacity	500					
Diameter	8'					
Length	10'					
Steel/Glass	S					
Last Contained	D					
LG=Leaded Gas	UG=Unleaded Gas	D=Diesel	UO=Used Oil	FO=Fuel Oil	If other than these,	write out entry
DipStick Reading						

Erickson, Inc. Tank Processing Facility
Land Disposal Restriction Notification Form

The waste represented on this manifest is not generated by a chemical manufacturing plant, coke-by-product recovery plant petroleum refinery. As such, it is not regulated under 40 CFR Part 61, Subpart FF (NESHAPS for Benzene Operations).

☒ Pursuant to 40 CFR 268.7, I am notifying Erickson, Inc. that the material described by the above referenced manifest is a nonwastewater, Non-RCRA hazardous waste and not currently subject to EPA Land Disposal Restrictions.

☒ Pursuant to CCR 22, 66268.7, I am notifying Erickson, Inc. that the material described by the manifest is a metal containing Non-RCRA solid hazardous waste (66268.29(g)), with treatment standard at 66268.106(a)(3) Table CCWE I-C. It is also an organics containing Non-RCRA solid hazardous waste (66268.29(k)). The treatment standards for both these wastes have been repealed by SB-1222.

I am an authorized agent/representative of the generator. I certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge. The tanks on the transport equipment have been numbered to correspond with the information provided above. In the event that the tanks do not correspond to the form, I will pay any and all costs incurred in rectifying the discrepancy(ies) between the tank(s) and the form. In the event that the tank(s) contain excessive solids or liquids, I agree to pay the cost of preparation, transportation and disposal/recycling of the excess material according to the schedule of charges in effect at the time of receipt of tank(s). Further, I will not hold Erickson, Inc. responsible for any damage to tanks which occurs after the tanks are removed from the ground.

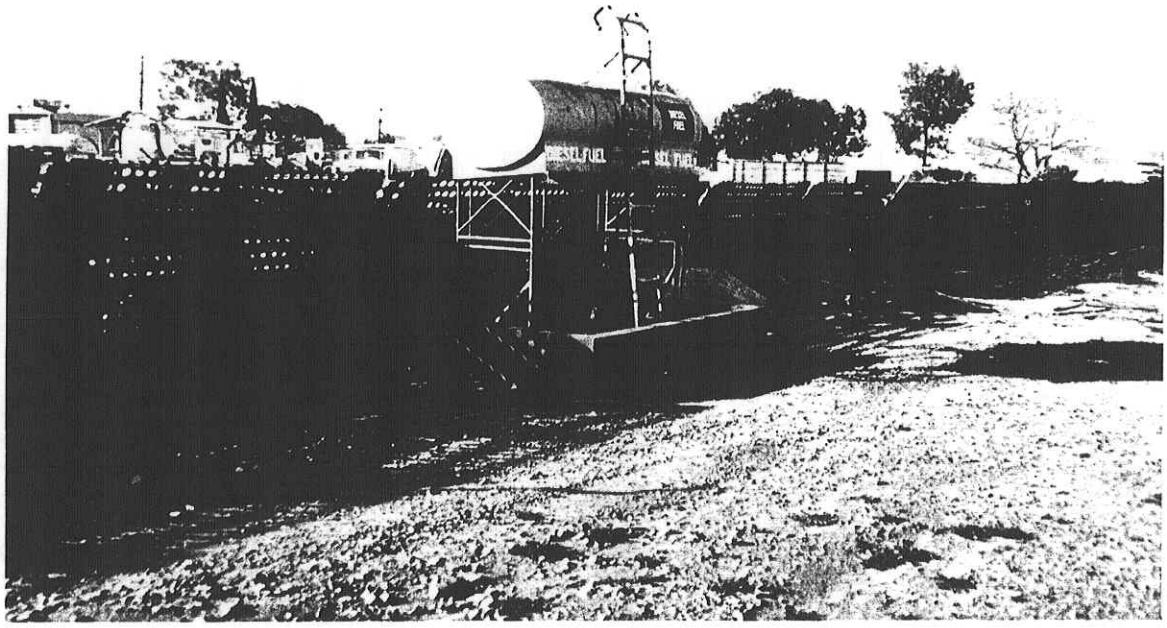
Authorized Representative

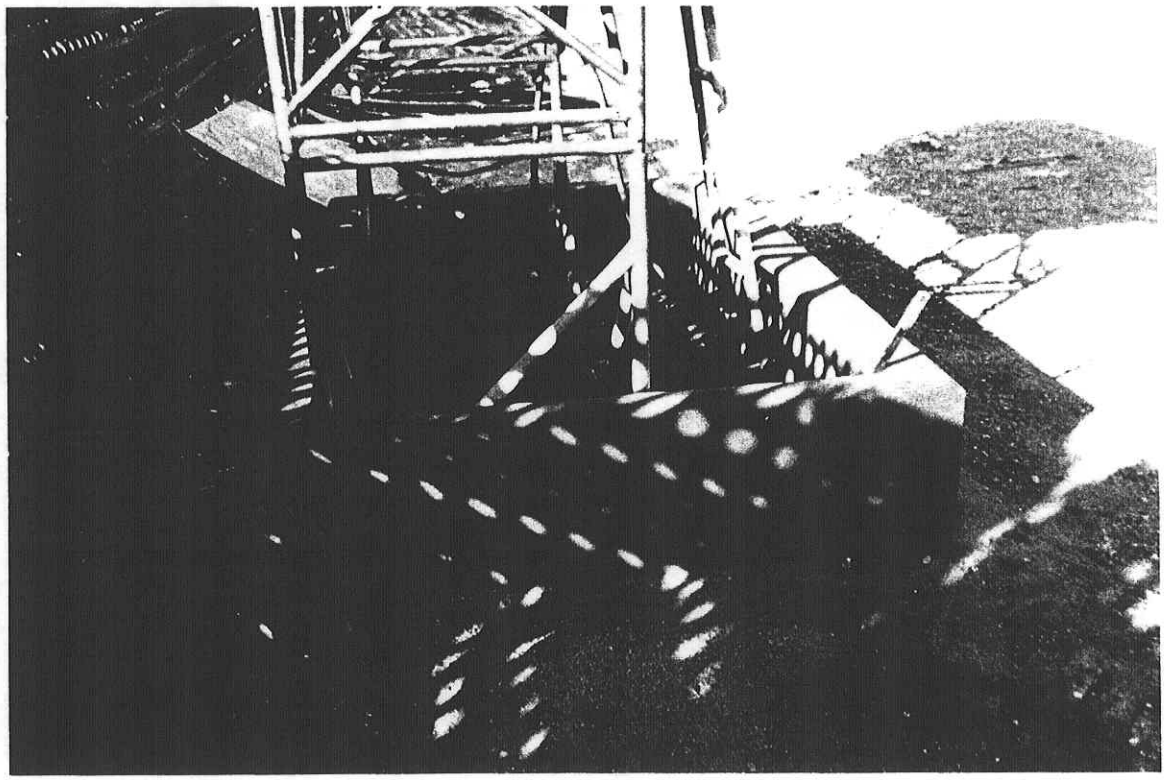
SIGNATURE: Thomas S. Leary Jr DATE: 5-6-99

PRINT NAME: Thomas S. Leary Jr TITLE: Enviro Specialist

For assistance in completing this form, please contact Linda Allen (909) 355-5601.

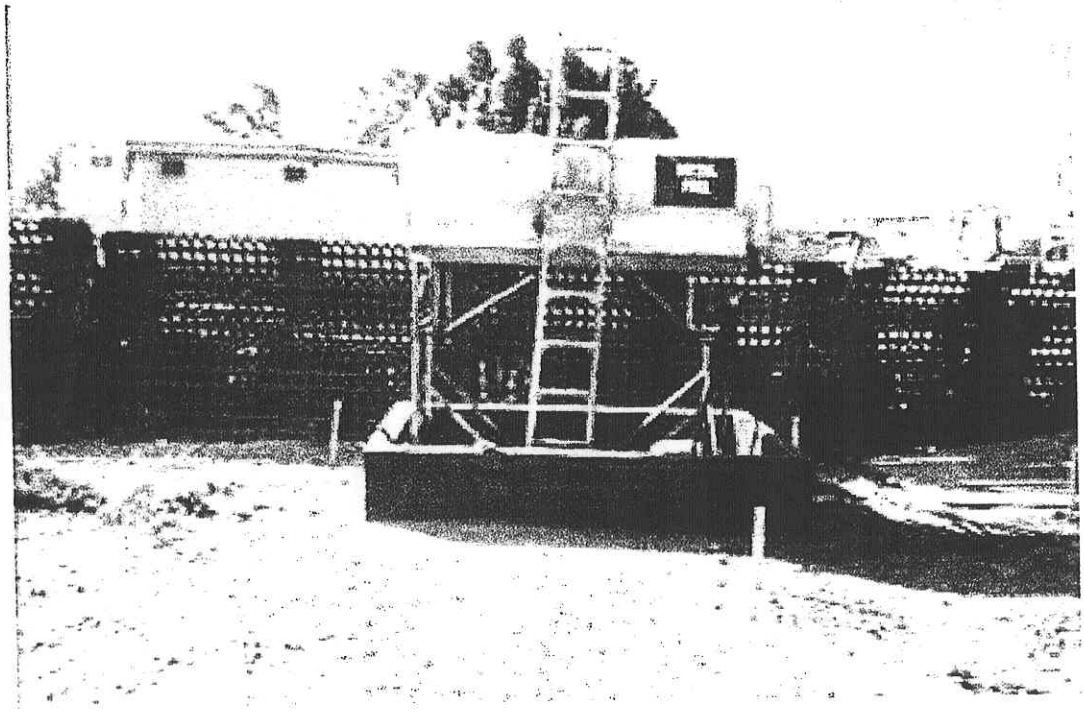
Appendix D
Site Photographs



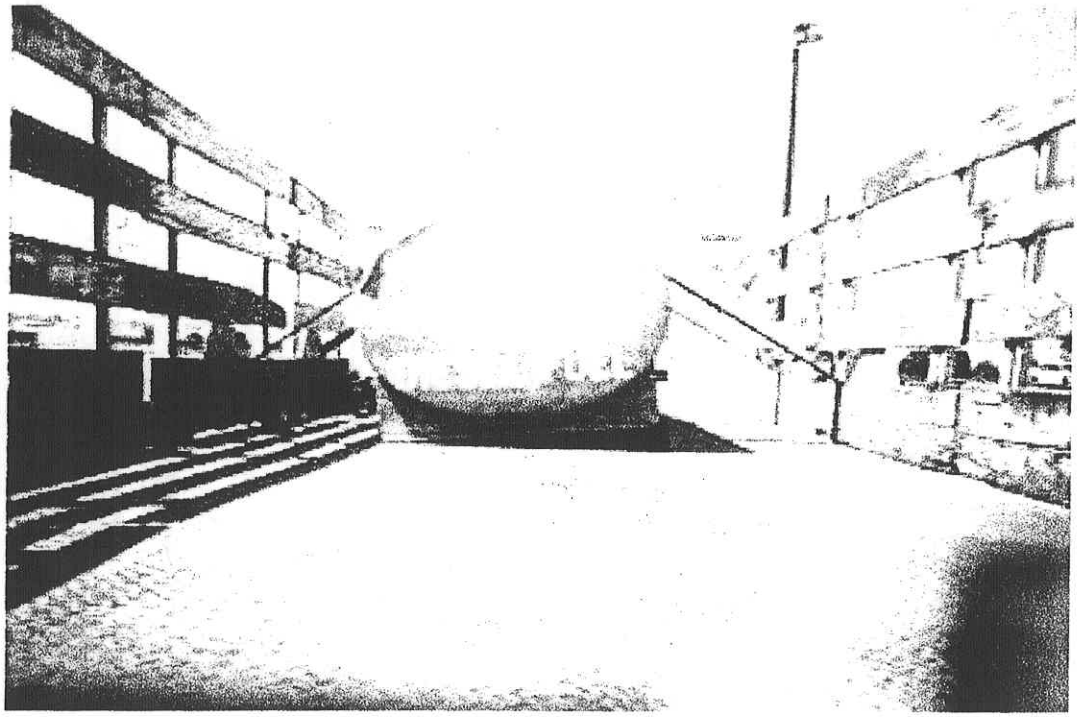


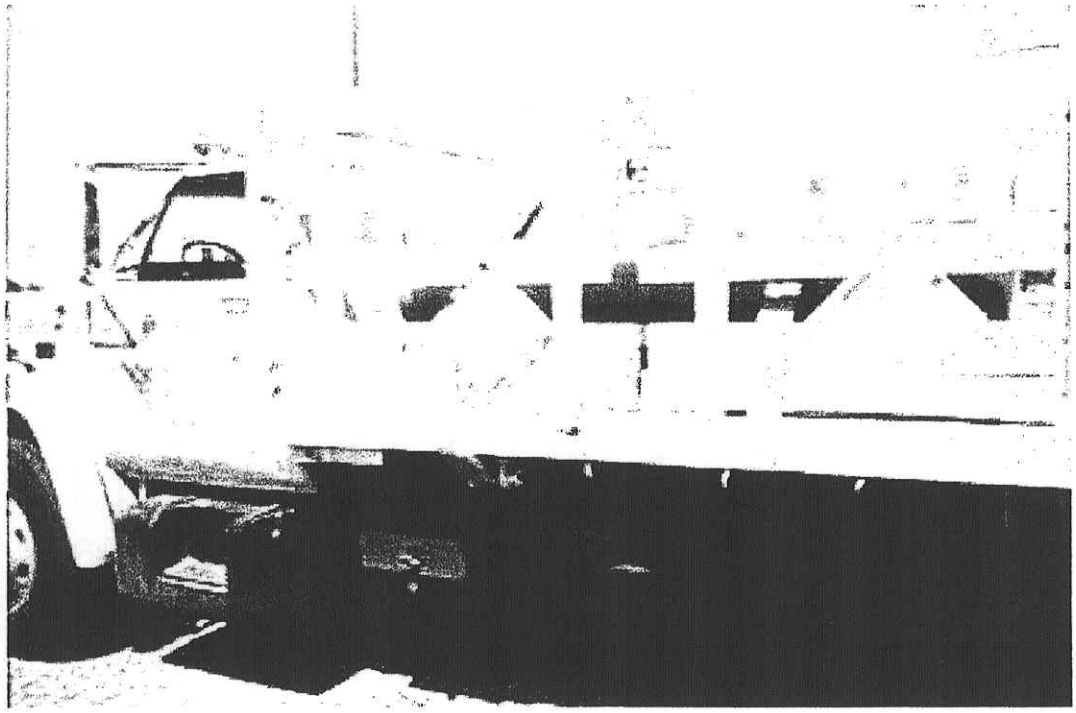
Photograph No. 1 and 2: AST 155 Site Condition Prior to Removal

Photograph No. 3: AST 155 Surrounding Unpaved Dirt Area



Photograph No. 4: AST 155 confirmation soil samples locations with staked





Photograph No. 5 & 6: AST 155 removal and off-site transportation in ECI flat bed truck

Appendix E
Laboratory Analytical Reports

COMPLETED 5-13

OHM Remediation Services Corp.
Subsidiary of OHM Corporation
U.S. Route 224 East • Findlay, Ohio 45840 • (419) 423-3526

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY
222467
FORM 0019 REV. 2-97

OHM's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
LISA BIENKOWSKI	949-261-6441	949-475-5433	99-3115	JIM	IT GROUP

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
DO:70 AST 155	MCAS EL TORO	78609	909-590-1828	909-590-1498	DWAYNE ISHIDA

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
LISA BIENKOWSKI	949-261-6441	949-475-5433	1360 MAGNOLIA AVE	3347 MICHELSON DR.

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE, AND ZIPCODE
MCAS EL TORO	IRVINE CA	SWDIV	CHINO, CA 91710	IRVINE, CA.

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
BILL SEOLAK	949-261-6441	949-475-5433

Item	Sample Identifier	Matrix	Date 1999	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: EPA 8260/MTBE	EPA 8015-DUR	EPA 8015-EXT	SPLP				Comments
1	18609-2183	W	4-20	0730	HCL	2	III	5DAY	X			H				APCL
2	18609-2184	$	4-20	0840	–	1	III	5DAY	X	X	X	H				
3	18609-2185	$	4-20	0845	–	1	III	5DAY	X	X	X	H				
4	18609-2186	$	4-20	0847	–	1	III	5DAY	X	X	X	H				
5	18609-2187	$	4-20	0859	–	1	III	5DAY	X	X	X	H				
6	18609-2188	$	4-20	0905	–	1	III	5DAY	X	X	X	H				
7	18609-2189	$	4-20	0916	–	1	III	5DAY	X	X	X	H				
8	18609-2190	$	4-20	0925	–	1	III	5DAY	X	X	X	H				
9	18609-2191	W	4-20	0930	HCL HNO3	5	III	5DAY	X	X	X	H				
10	18609-2192	$	4-20	0935	–	1	III	5DAY	X	X	X	H				
	18609-2193	$	4-20	0945	–	1	III	5DAY	X	X	X	H				

SAMPLES COLLECTED BY: C. PARRISH	COURIER AND AIR BILL NUMBER: COURIER			COOLER TEMPERATURE UPON RECEIPT:
RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Cheryl Parrish	[signature]	4-20-99	1500	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

AST 155

Sample Point Location	G	C	F	QC
1. TRIP BLANK	X			X
2. AST155 HA-01 6" SLITE ODOR	X			
3. AST155 HA-01 18"	X			
4 AST155 HA-01 18.5" DUPLICATE OF -2185	X			X
5. AST155 HA-04 6"	X			
6. AST155 HA-04 18"	X			
7 AST155 HA-02 6"	X			
8. AST155 HA-02 18"	X			
9. AST155 HA-02 EQ. RINSATE	X			X
10. AST155 HA-03 6"	X			
11. AST155 HA-03 18"	X			

Comments

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

99-03115

Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-1	Received Date:	04/20/1999
Sample ID:	**18609-2183**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2372	Prep. No:	-	Anal. Time:	19:00
Data File Name:	3115-01	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/L	100	<100	U
2	BENZENE	71-43-2	µg/L	5	<5	U
3	BROMOBENZENE	108-86-1	µg/L	5	<5	U
4	BROMOCHLOROMETHANE	74-97-5	µg/L	5	<5	U
5	BROMODICHLOROMETHANE	75-27-4	µg/L	5	<5	U
6	BROMOFORM	75-25-2	µg/L	5	<5	U
7	BROMOMETHANE	74-83-9	µg/L	5	<5	U
8	2-BUTANONE (MEK)	78-93-3	µg/L	100	<100	U
9	N-BUTYLBENZENE	104-51-8	µg/L	5	<5	U
10	SEC-BUTYLBENZENE	135-98-8	µg/L	5	<5	U
11	TERT-BUTYLBENZENE	98-06-6	µg/L	5	<5	U
12	CARBON DISULFIDE	75-15-0	µg/L	5	<5	U
13	CARBON TETRACHLORIDE	56-23-5	µg/L	5	<5	U
14	CHLOROBENZENE	108-90-7	µg/L	5	<5	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	<5	U
16	CHLOROETHANE	75-00-3	µg/L	5	<5	U
17	CHLOROFORM	67-66-3	µg/L	5	<5	U
18	CHLOROMETHANE	74-87-3	µg/L	5	<5	U
19	2-CHLOROTOLUENE	95-49-8	µg/L	5	<5	U
20	4-CHLOROTOLUENE	106-43-4	µg/L	5	<5	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	<5	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	<5	U
23	DIBROMOMETHANE	74-95-3	µg/L	5	<5	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	<5	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	<5	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	<5	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	<5	U
28	1,1-DICHLOROETHANE	75-34-3	µg/L	5	<5	U
29	1,2-DICHLOROETHANE	107-06-2	µg/L	5	<5	U
30	1,1-DICHLOROETHENE	75-35-4	µg/L	5	<5	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	<5	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	<5	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	<5	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	<5	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	<5	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	<5	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	<5	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	5	<5	U
39	ETHYLBENZENE	100-41-4	µg/L	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	< 5	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	< 5	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	< 5	U
43	METHYLENE CHLORIDE	75-09-2	µg/L	5	< 5	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	50	< 50	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/L	10	< 10	U
46	NAPHTHALENE	91-20-3	µg/L	5	< 5	U
47	N-PROPYLBENZENE	103-65-1	µg/L	5	< 5	U
48	STYRENE	100-42-5	µg/L	5	< 5	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	< 5	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	< 5	U
51	TETRACHLOROETHENE	127-18-4	µg/L	5	1	J
52	TOLUENE	108-88-3	µg/L	5	< 5	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	< 5	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	< 5	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	< 5	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	< 5	U
57	TRICHLOROETHENE	79-01-6	µg/L	5	2	J
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	< 5	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	< 5	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	< 5	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	< 5	U
62	VINYL CHLORIDE	75-01-4	µg/L	5	< 5	U
63	XYLENES (TOTAL)	1330-20-7	µg/L	15	< 15	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	80-119	91
2	DIBROMOFLUOROMETHANE	1868-53-7	79-120	99
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-119	97
4	TOLUENE-D8	2037-26-5	81-118	104
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	91
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	81
3	FLUOROBENZENE	462-06-6	50-200	96
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-2	Received Date:	04/20/1999
Sample ID:	**18609-2184**	Sample Matrix	Soil	Moisture %:	11.6
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2379	Prep. No:	–	Anal. Time:	14:15
Data File Name:	3115-02	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	110	<110	U
2	BENZENE	71-43-2	µg/kg	5.7	<5.7	U
3	BROMOBENZENE	108-86-1	µg/kg	5.7	<5.7	U
4	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.7	<5.7	U
5	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.7	<5.7	U
6	BROMOFORM	75-25-2	µg/kg	5.7	<5.7	U
7	BROMOMETHANE	74-83-9	µg/kg	5.7	<5.7	U
8	2-BUTANONE (MEK)	78-93-3	µg/kg	110	<110	U
9	N-BUTYLBENZENE	104-51-8	µg/kg	5.7	<5.7	U
10	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.7	<5.7	U
11	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.7	<5.7	U
12	CARBON DISULFIDE	75-15-0	µg/kg	5.7	<5.7	U
13	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.7	<5.7	U
14	CHLOROBENZENE	108-90-7	µg/kg	5.7	<5.7	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.7	<5.7	U
16	CHLOROETHANE	75-00-3	µg/kg	5.7	<5.7	U
17	CHLOROFORM	67-66-3	µg/kg	5.7	<5.7	U
18	CHLOROMETHANE	74-87-3	µg/kg	5.7	<5.7	U
19	2-CHLOROTOLUENE	95-49-8	µg/kg	5.7	<5.7	U
20	4-CHLOROTOLUENE	106-43-4	µg/kg	5.7	<5.7	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.7	<5.7	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.7	<5.7	U
23	DIBROMOMETHANE	74-95-3	µg/kg	5.7	<5.7	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.7	<5.7	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.7	<5.7	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.7	<5.7	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.7	<5.7	U
28	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.7	<5.7	U
29	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.7	<5.7	U
30	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.7	<5.7	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.7	<5.7	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.7	<5.7	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.7	<5.7	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.7	<5.7	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.7	<5.7	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.7	<5.7	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.7	<5.7	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.7	<5.7	U
39	ETHYLBENZENE	100-41-4	µg/kg	5.7	<5.7	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.7	< 5.7	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.7	< 5.7	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.7	< 5.7	U
43	METHYLENE CHLORIDE	75-09-2	µg/kg	5.7	< 5.7	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	57	< 57	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	< 11	U
46	NAPHTHALENE	91-20-3	µg/kg	5.7	< 5.7	U
47	N-PROPYLBENZENE	103-65-1	µg/kg	5.7	< 5.7	U
48	STYRENE	100-42-5	µg/kg	5.7	< 5.7	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.7	< 5.7	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.7	< 5.7	U
51	TETRACHLOROETHENE	127-18-4	µg/kg	5.7	< 5.7	U
52	TOLUENE	108-88-3	µg/kg	5.7	< 5.7	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.7	< 5.7	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.7	< 5.7	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.7	< 5.7	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.7	< 5.7	U
57	TRICHLOROETHENE	79-01-6	µg/kg	5.7	1	J
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.7	< 5.7	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.7	< 5.7	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.7	< 5.7	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.7	< 5.7	U
62	VINYL CHLORIDE	75-01-4	µg/kg	5.7	< 5.7	U
63	XYLENES (TOTAL)	1330-20-7	µg/kg	17	< 17	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	99
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	110
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	104
4	TOLUENE-D8	2037-26-5	80-119	94
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	123
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	126
3	FLUOROBENZENE	462-06-6	50-200	84
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-3	Received Date:	04/20/1999
Sample ID:	**18609-2185**	Sample Matrix	Soil	Moisture %:	8.9
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2379	Prep. No:	-	Anal. Time:	14:46
Data File Name:	3115-03	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	110	<110	U
2	BENZENE	71-43-2	µg/kg	5.5	<5.5	U
3	BROMOBENZENE	108-86-1	µg/kg	5.5	<5.5	U
4	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.5	<5.5	U
5	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.5	<5.5	U
6	BROMOFORM	75-25-2	µg/kg	5.5	<5.5	U
7	BROMOMETHANE	74-83-9	µg/kg	5.5	<5.5	U
8	2-BUTANONE (MEK)	78-93-3	µg/kg	110	<110	U
9	N-BUTYLBENZENE	104-51-8	µg/kg	5.5	<5.5	U
10	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.5	<5.5	U
11	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.5	<5.5	U
12	CARBON DISULFIDE	75-15-0	µg/kg	5.5	<5.5	U
13	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.5	<5.5	U
14	CHLOROBENZENE	108-90-7	µg/kg	5.5	<5.5	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.5	<5.5	U
16	CHLOROETHANE	75-00-3	µg/kg	5.5	<5.5	U
17	CHLOROFORM	67-66-3	µg/kg	5.5	<5.5	U
18	CHLOROMETHANE	74-87-3	µg/kg	5.5	<5.5	U
19	2-CHLOROTOLUENE	95-49-8	µg/kg	5.5	<5.5	U
20	4-CHLOROTOLUENE	106-43-4	µg/kg	5.5	<5.5	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.5	<5.5	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.5	<5.5	U
23	DIBROMOMETHANE	74-95-3	µg/kg	5.5	<5.5	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.5	<5.5	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.5	<5.5	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.5	<5.5	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.5	<5.5	U
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29	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.5	<5.5	U
30	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.5	<5.5	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.5	<5.5	U
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34	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.5	<5.5	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.5	<5.5	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.5	<5.5	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.5	<5.5	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.5	<5.5	U
39	ETHYLBENZENE	100-41-4	µg/kg	5.5	<5.5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.5	< 5.5	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.5	< 5.5	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.5	< 5.5	U
43	METHYLENE CHLORIDE	75-09-2	µg/kg	5.5	< 5.5	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	55	< 55	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	< 11	U
46	NAPHTHALENE	91-20-3	µg/kg	5.5	< 5.5	U
47	N-PROPYLBENZENE	103-65-1	µg/kg	5.5	< 5.5	U
48	STYRENE	100-42-5	µg/kg	5.5	< 5.5	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.5	< 5.5	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.5	< 5.5	U
51	TETRACHLOROETHENE	127-18-4	µg/kg	5.5	< 5.5	U
52	TOLUENE	108-88-3	µg/kg	5.5	< 5.5	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.5	< 5.5	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.5	< 5.5	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.5	< 5.5	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.5	< 5.5	U
57	TRICHLOROETHENE	79-01-6	µg/kg	5.5	< 5.5	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.5	< 5.5	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.5	< 5.5	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.5	< 5.5	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.5	< 5.5	U
62	VINYL CHLORIDE	75-01-4	µg/kg	5.5	< 5.5	U
63	XYLENES (TOTAL)	1330-20-7	µg/kg	16	< 16	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	98
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	112
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	106
4	TOLUENE-D8	2037-26-5	80-119	94
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	116
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	117
3	FLUOROBENZENE	462-06-6	50-200	78
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-4	Received Date:	04/20/1999
Sample ID:	**18609-2186**	Sample Matrix	Soil	Moisture %:	6.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2379	Prep. No:	–	Anal. Time:	15:17
Data File Name:	3115-04	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	110	<110	U
2	BENZENE	71-43-2	µg/kg	5.3	<5.3	U
3	BROMOBENZENE	108-86-1	µg/kg	5.3	<5.3	U
4	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.3	<5.3	U
5	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.3	<5.3	U
6	BROMOFORM	75-25-2	µg/kg	5.3	<5.3	U
7	BROMOMETHANE	74-83-9	µg/kg	5.3	<5.3	U
8	2-BUTANONE (MEK)	78-93-3	µg/kg	110	<110	U
9	N-BUTYLBENZENE	104-51-8	µg/kg	5.3	<5.3	U
10	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.3	<5.3	U
11	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.3	<5.3	U
12	CARBON DISULFIDE	75-15-0	µg/kg	5.3	<5.3	U
13	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.3	<5.3	U
14	CHLOROBENZENE	108-90-7	µg/kg	5.3	<5.3	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.3	<5.3	U
16	CHLOROETHANE	75-00-3	µg/kg	5.3	<5.3	U
17	CHLOROFORM	67-66-3	µg/kg	5.3	<5.3	U
18	CHLOROMETHANE	74-87-3	µg/kg	5.3	<5.3	U
19	2-CHLOROTOLUENE	95-49-8	µg/kg	5.3	<5.3	U
20	4-CHLOROTOLUENE	106-43-4	µg/kg	5.3	<5.3	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.3	<5.3	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.3	<5.3	U
23	DIBROMOMETHANE	74-95-3	µg/kg	5.3	<5.3	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.3	<5.3	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.3	<5.3	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.3	<5.3	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.3	<5.3	U
28	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.3	<5.3	U
29	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.3	<5.3	U
30	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.3	<5.3	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.3	<5.3	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.3	<5.3	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.3	<5.3	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.3	<5.3	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.3	<5.3	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.3	<5.3	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.3	<5.3	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.3	<5.3	U
39	ETHYLBENZENE	100-41-4	µg/kg	5.3	<5.3	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.3	< 5.3	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.3	< 5.3	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.3	< 5.3	U
43	METHYLENE CHLORIDE	75-09-2	µg/kg	5.3	< 5.3	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	53	< 53	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	< 11	U
46	NAPHTHALENE	91-20-3	µg/kg	5.3	< 5.3	U
47	N-PROPYLBENZENE	103-65-1	µg/kg	5.3	< 5.3	U
48	STYRENE	100-42-5	µg/kg	5.3	< 5.3	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.3	< 5.3	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.3	< 5.3	U
51	TETRACHLOROETHENE	127-18-4	µg/kg	5.3	< 5.3	U
52	TOLUENE	108-88-3	µg/kg	5.3	< 5.3	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.3	< 5.3	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.3	< 5.3	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.3	< 5.3	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.3	< 5.3	U
57	TRICHLOROETHENE	79-01-6	µg/kg	5.3	< 5.3	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.3	< 5.3	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.3	< 5.3	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.3	< 5.3	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.3	< 5.3	U
62	VINYL CHLORIDE	75-01-4	µg/kg	5.3	< 5.3	U
63	XYLENES (TOTAL)	1330-20-7	µg/kg	16	< 16	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	96
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	112
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	105
4	TOLUENE-D8	2037-26-5	80-119	93
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	109
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	112
3	FLUOROBENZENE	462-06-6	50-200	73
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-5	Received Date:	04/20/1999
Sample ID:	**18609-2187**	Sample Matrix	Soil	Moisture %:	15.5
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2379	Prep. No:	–	Anal. Time:	15:48
Data File Name:	3115-05	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	120	<120	U
2	BENZENE	71-43-2	µg/kg	5.9	<5.9	U
3	BROMOBENZENE	108-86-1	µg/kg	5.9	<5.9	U
4	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.9	<5.9	U
5	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.9	<5.9	U
6	BROMOFORM	75-25-2	µg/kg	5.9	<5.9	U
7	BROMOMETHANE	74-83-9	µg/kg	5.9	<5.9	U
8	2-BUTANONE (MEK)	78-93-3	µg/kg	120	<120	U
9	N-BUTYLBENZENE	104-51-8	µg/kg	5.9	<5.9	U
10	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.9	<5.9	U
11	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.9	<5.9	U
12	CARBON DISULFIDE	75-15-0	µg/kg	5.9	<5.9	U
13	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.9	<5.9	U
14	CHLOROBENZENE	108-90-7	µg/kg	5.9	<5.9	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.9	<5.9	U
16	CHLOROETHANE	75-00-3	µg/kg	5.9	<5.9	U
17	CHLOROFORM	67-66-3	µg/kg	5.9	<5.9	U
18	CHLOROMETHANE	74-87-3	µg/kg	5.9	<5.9	U
19	2-CHLOROTOLUENE	95-49-8	µg/kg	5.9	<5.9	U
20	4-CHLOROTOLUENE	106-43-4	µg/kg	5.9	<5.9	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.9	<5.9	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.9	<5.9	U
23	DIBROMOMETHANE	74-95-3	µg/kg	5.9	<5.9	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.9	<5.9	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.9	<5.9	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.9	<5.9	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.9	<5.9	U
28	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.9	<5.9	U
29	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.9	<5.9	U
30	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.9	<5.9	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.9	<5.9	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.9	<5.9	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.9	<5.9	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.9	<5.9	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.9	<5.9	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.9	<5.9	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.9	<5.9	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.9	<5.9	U
39	ETHYLBENZENE	100-41-4	µg/kg	5.9	<5.9	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.9	< 5.9	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.9	< 5.9	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.9	< 5.9	U
43	METHYLENE CHLORIDE	75-09-2	µg/kg	5.9	< 5.9	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	59	< 59	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	12	< 12	U
46	NAPHTHALENE	91-20-3	µg/kg	5.9	< 5.9	U
47	N-PROPYLBENZENE	103-65-1	µg/kg	5.9	< 5.9	U
48	STYRENE	100-42-5	µg/kg	5.9	< 5.9	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.9	< 5.9	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.9	< 5.9	U
51	TETRACHLOROETHENE	127-18-4	µg/kg	5.9	< 5.9	U
52	TOLUENE	108-88-3	µg/kg	5.9	< 5.9	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.9	< 5.9	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.9	< 5.9	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.9	< 5.9	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.9	< 5.9	U
57	TRICHLOROETHENE	79-01-6	µg/kg	5.9	< 5.9	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.9	< 5.9	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.9	< 5.9	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.9	< 5.9	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.9	< 5.9	U
62	VINYL CHLORIDE	75-01-4	µg/kg	5.9	< 5.9	U
63	XYLENES (TOTAL)	1330-20-7	µg/kg	18	< 18	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	96
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	113
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	106
4	TOLUENE-D8	2037-26-5	80-119	93
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	111
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	116
3	FLUOROBENZENE	462-06-6	50-200	76
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-6	Received Date:	04/20/1999
Sample ID:	**18609-2188**	Sample Matrix	Soil	Moisture %:	11.1
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2379	Prep. No:	–	Anal. Time:	16:19
Data File Name:	3115-06	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	110	<110	U
2	BENZENE	71-43-2	µg/kg	5.6	<5.6	U
3	BROMOBENZENE	108-86-1	µg/kg	5.6	<5.6	U
4	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.6	<5.6	U
5	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.6	<5.6	U
6	BROMOFORM	75-25-2	µg/kg	5.6	<5.6	U
7	BROMOMETHANE	74-83-9	µg/kg	5.6	<5.6	U
8	2-BUTANONE (MEK)	78-93-3	µg/kg	110	<110	U
9	N-BUTYLBENZENE	104-51-8	µg/kg	5.6	<5.6	U
10	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.6	<5.6	U
11	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.6	<5.6	U
12	CARBON DISULFIDE	75-15-0	µg/kg	5.6	<5.6	U
13	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.6	<5.6	U
14	CHLOROBENZENE	108-90-7	µg/kg	5.6	<5.6	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.6	<5.6	U
16	CHLOROETHANE	75-00-3	µg/kg	5.6	<5.6	U
17	CHLOROFORM	67-66-3	µg/kg	5.6	<5.6	U
18	CHLOROMETHANE	74-87-3	µg/kg	5.6	<5.6	U
19	2-CHLOROTOLUENE	95-49-8	µg/kg	5.6	<5.6	U
20	4-CHLOROTOLUENE	106-43-4	µg/kg	5.6	<5.6	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.6	<5.6	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.6	<5.6	U
23	DIBROMOMETHANE	74-95-3	µg/kg	5.6	<5.6	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.6	<5.6	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.6	<5.6	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.6	<5.6	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.6	<5.6	U
28	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.6	<5.6	U
29	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.6	<5.6	U
30	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.6	<5.6	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.6	<5.6	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.6	<5.6	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.6	<5.6	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.6	<5.6	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.6	<5.6	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.6	<5.6	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.6	<5.6	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.6	<5.6	U
39	ETHYLBENZENE	100-41-4	µg/kg	5.6	<5.6	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.6	< 5.6	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.6	< 5.6	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.6	< 5.6	U
43	METHYLENE CHLORIDE	75-09-2	µg/kg	5.6	< 5.6	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	56	< 56	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	< 11	U
46	NAPHTHALENE	91-20-3	µg/kg	5.6	< 5.6	U
47	N-PROPYLBENZENE	103-65-1	µg/kg	5.6	< 5.6	U
48	STYRENE	100-42-5	µg/kg	5.6	< 5.6	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.6	< 5.6	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.6	< 5.6	U
51	TETRACHLOROETHENE	127-18-4	µg/kg	5.6	< 5.6	U
52	TOLUENE	108-88-3	µg/kg	5.6	< 5.6	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.6	< 5.6	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.6	< 5.6	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.6	< 5.6	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.6	< 5.6	U
57	TRICHLOROETHENE	79-01-6	µg/kg	5.6	< 5.6	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.6	< 5.6	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.6	< 5.6	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.6	< 5.6	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.6	< 5.6	U
62	VINYL CHLORIDE	75-01-4	µg/kg	5.6	< 5.6	U
63	XYLENES (TOTAL)	1330-20-7	µg/kg	17	< 17	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	98
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	115
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	111
4	TOLUENE-D8	2037-26-5	80-119	93
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	104
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	106
3	FLUOROBENZENE	462-06-6	50-200	69
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-7	Received Date:	04/20/1999
Sample ID:	**18609-2189**	Sample Matrix	Soil	Moisture %:	11.7
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2379	Prep. No:	–	Anal. Time:	16:50
Data File Name:	3115-07	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	110	<110	U
2	BENZENE	71-43-2	µg/kg	5.7	<5.7	U
3	BROMOBENZENE	108-86-1	µg/kg	5.7	<5.7	U
4	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.7	<5.7	U
5	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.7	<5.7	U
6	BROMOFORM	75-25-2	µg/kg	5.7	<5.7	U
7	BROMOMETHANE	74-83-9	µg/kg	5.7	<5.7	U
8	2-BUTANONE (MEK)	78-93-3	µg/kg	110	<110	U
9	N-BUTYLBENZENE	104-51-8	µg/kg	5.7	<5.7	U
10	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.7	<5.7	U
11	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.7	<5.7	U
12	CARBON DISULFIDE	75-15-0	µg/kg	5.7	<5.7	U
13	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.7	<5.7	U
14	CHLOROBENZENE	108-90-7	µg/kg	5.7	<5.7	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.7	<5.7	U
16	CHLOROETHANE	75-00-3	µg/kg	5.7	<5.7	U
17	CHLOROFORM	67-66-3	µg/kg	5.7	<5.7	U
18	CHLOROMETHANE	74-87-3	µg/kg	5.7	<5.7	U
19	2-CHLOROTOLUENE	95-49-8	µg/kg	5.7	<5.7	U
20	4-CHLOROTOLUENE	106-43-4	µg/kg	5.7	<5.7	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.7	<5.7	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.7	<5.7	U
23	DIBROMOMETHANE	74-95-3	µg/kg	5.7	<5.7	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.7	<5.7	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.7	<5.7	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.7	<5.7	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.7	<5.7	U
28	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.7	<5.7	U
29	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.7	<5.7	U
30	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.7	<5.7	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.7	<5.7	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.7	<5.7	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.7	<5.7	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.7	<5.7	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.7	<5.7	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.7	<5.7	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.7	<5.7	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.7	<5.7	U
39	ETHYLBENZENE	100-41-4	µg/kg	5.7	<5.7	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.7	<5.7	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.7	<5.7	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.7	<5.7	U
43	METHYLENE CHLORIDE	75-09-2	µg/kg	5.7	<5.7	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	57	<57	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	<11	U
46	NAPHTHALENE	91-20-3	µg/kg	5.7	<5.7	U
47	N-PROPYLBENZENE	103-65-1	µg/kg	5.7	<5.7	U
48	STYRENE	100-42-5	µg/kg	5.7	<5.7	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.7	<5.7	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.7	<5.7	U
51	TETRACHLOROETHENE	127-18-4	µg/kg	5.7	<5.7	U
52	TOLUENE	108-88-3	µg/kg	5.7	<5.7	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.7	<5.7	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.7	<5.7	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.7	<5.7	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.7	<5.7	U
57	TRICHLOROETHENE	79-01-6	µg/kg	5.7	<5.7	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.7	<5.7	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.7	<5.7	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.7	<5.7	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.7	<5.7	U
62	VINYL CHLORIDE	75-01-4	µg/kg	5.7	<5.7	U
63	XYLENES (TOTAL)	1330-20-7	µg/kg	17	<17	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	97
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	115
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	111
4	TOLUENE-D8	2037-26-5	80-119	93
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	103
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	105
3	FLUOROBENZENE	462-06-6	50-200	68
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-8	Received Date:	04/20/1999
Sample ID:	**18609-2190**	Sample Matrix	Soil	Moisture %:	9.8
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2379	Prep. No:	–	Anal. Time:	17:21
Data File Name:	3115-08	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	110	<110	U
2	BENZENE	71-43-2	µg/kg	5.5	<5.5	U
3	BROMOBENZENE	108-86-1	µg/kg	5.5	<5.5	U
4	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.5	<5.5	U
5	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.5	<5.5	U
6	BROMOFORM	75-25-2	µg/kg	5.5	<5.5	U
7	BROMOMETHANE	74-83-9	µg/kg	5.5	<5.5	U
8	2-BUTANONE (MEK)	78-93-3	µg/kg	110	<110	U
9	N-BUTYLBENZENE	104-51-8	µg/kg	5.5	<5.5	U
10	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.5	<5.5	U
11	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.5	<5.5	U
12	CARBON DISULFIDE	75-15-0	µg/kg	5.5	<5.5	U
13	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.5	<5.5	U
14	CHLOROBENZENE	108-90-7	µg/kg	5.5	<5.5	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.5	<5.5	U
16	CHLOROETHANE	75-00-3	µg/kg	5.5	<5.5	U
17	CHLOROFORM	67-66-3	µg/kg	5.5	<5.5	U
18	CHLOROMETHANE	74-87-3	µg/kg	5.5	<5.5	U
19	2-CHLOROTOLUENE	95-49-8	µg/kg	5.5	<5.5	U
20	4-CHLOROTOLUENE	106-43-4	µg/kg	5.5	<5.5	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.5	<5.5	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.5	<5.5	U
23	DIBROMOMETHANE	74-95-3	µg/kg	5.5	<5.5	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.5	<5.5	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.5	<5.5	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.5	<5.5	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.5	<5.5	U
28	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.5	<5.5	U
29	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.5	<5.5	U
30	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.5	<5.5	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.5	<5.5	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.5	<5.5	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.5	<5.5	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.5	<5.5	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.5	<5.5	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.5	<5.5	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.5	<5.5	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.5	<5.5	U
39	ETHYLBENZENE	100-41-4	µg/kg	5.5	<5.5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.5	< 5.5	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.5	< 5.5	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.5	< 5.5	U
43	METHYLENE CHLORIDE	75-09-2	µg/kg	5.5	< 5.5	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	55	< 55	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	< 11	U
46	NAPHTHALENE	91-20-3	µg/kg	5.5	< 5.5	U
47	N-PROPYLBENZENE	103-65-1	µg/kg	5.5	< 5.5	U
48	STYRENE	100-42-5	µg/kg	5.5	< 5.5	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.5	< 5.5	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.5	< 5.5	U
51	TETRACHLOROETHENE	127-18-4	µg/kg	5.5	< 5.5	U
52	TOLUENE	108-88-3	µg/kg	5.5	< 5.5	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.5	< 5.5	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.5	< 5.5	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.5	< 5.5	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.5	< 5.5	U
57	TRICHLOROETHENE	79-01-6	µg/kg	5.5	< 5.5	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.5	< 5.5	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.5	< 5.5	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.5	< 5.5	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.5	< 5.5	U
62	VINYL CHLORIDE	75-01-4	µg/kg	5.5	< 5.5	U
63	XYLENES (TOTAL)	1330-20-7	µg/kg	17	< 17	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	99
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	115
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	110
4	TOLUENE-D8	2037-26-5	80-119	91
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	101
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	102
3	FLUOROBENZENE	462-06-6	50-200	67
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-9	Received Date:	04/20/1999
Sample ID:	**18609-2191**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2372	Prep. No:	-	Anal. Time:	19:28
Data File Name:	3115-09	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/L	100	<100	U
2	BENZENE	71-43-2	µg/L	5	<5	U
3	BROMOBENZENE	108-86-1	µg/L	5	<5	U
4	BROMOCHLOROMETHANE	74-97-5	µg/L	5	<5	U
5	BROMODICHLOROMETHANE	75-27-4	µg/L	5	<5	U
6	BROMOFORM	75-25-2	µg/L	5	<5	U
7	BROMOMETHANE	74-83-9	µg/L	5	<5	U
8	2-BUTANONE (MEK)	78-93-3	µg/L	100	<100	U
9	N-BUTYLBENZENE	104-51-8	µg/L	5	<5	U
10	SEC-BUTYLBENZENE	135-98-8	µg/L	5	<5	U
11	TERT-BUTYLBENZENE	98-06-6	µg/L	5	<5	U
12	CARBON DISULFIDE	75-15-0	µg/L	5	<5	U
13	CARBON TETRACHLORIDE	56-23-5	µg/L	5	<5	U
14	CHLOROBENZENE	108-90-7	µg/L	5	<5	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	<5	U
16	CHLOROETHANE	75-00-3	µg/L	5	<5	U
17	CHLOROFORM	67-66-3	µg/L	5	<5	U
18	CHLOROMETHANE	74-87-3	µg/L	5	<5	U
19	2-CHLOROTOLUENE	95-49-8	µg/L	5	<5	U
20	4-CHLOROTOLUENE	106-43-4	µg/L	5	<5	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	<5	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	<5	U
23	DIBROMOMETHANE	74-95-3	µg/L	5	<5	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	<5	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	<5	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	<5	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	<5	U
28	1,1-DICHLOROETHANE	75-34-3	µg/L	5	<5	U
29	1,2-DICHLOROETHANE	107-06-2	µg/L	5	<5	U
30	1,1-DICHLOROETHENE	75-35-4	µg/L	5	<5	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	<5	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	<5	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	<5	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	<5	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	<5	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	<5	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	<5	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	5	<5	U
39	ETHYLBENZENE	100-41-4	µg/L	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	< 5	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	< 5	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	< 5	U
43	METHYLENE CHLORIDE	75-09-2	µg/L	5	< 5	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	50	< 50	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/L	10	< 10	U
46	NAPHTHALENE	91-20-3	µg/L	5	< 5	U
47	N-PROPYLBENZENE	103-65-1	µg/L	5	< 5	U
48	STYRENE	100-42-5	µg/L	5	< 5	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	< 5	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	< 5	U
51	TETRACHLOROETHENE	127-18-4	µg/L	5	< 5	U
52	TOLUENE	108-88-3	µg/L	5	< 5	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	< 5	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	< 5	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	< 5	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	< 5	U
57	TRICHLOROETHENE	79-01-6	µg/L	5	< 5	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	< 5	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	< 5	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	< 5	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	< 5	U
62	VINYL CHLORIDE	75-01-4	µg/L	5	< 5	U
63	XYLENES (TOTAL)	1330-20-7	µg/L	15	< 15	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	80-119	92
2	DIBROMOFLUOROMETHANE	1868-53-7	79-120	103
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-119	102
4	TOLUENE-D8	2037-26-5	81-118	108
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	82
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	74
3	FLUOROBENZENE	462-06-6	50-200	89
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-10	Received Date:	04/20/1999
Sample ID:	**18609-2192**	Sample Matrix	Soil	Moisture %:	11.5
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2379	Prep. No:	–	Anal. Time:	17:52
Data File Name:	3115-10	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	110	<110	U
2	BENZENE	71-43-2	µg/kg	5.6	<5.6	U
3	BROMOBENZENE	108-86-1	µg/kg	5.6	<5.6	U
4	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.6	<5.6	U
5	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.6	<5.6	U
6	BROMOFORM	75-25-2	µg/kg	5.6	<5.6	U
7	BROMOMETHANE	74-83-9	µg/kg	5.6	<5.6	U
8	2-BUTANONE (MEK)	78-93-3	µg/kg	110	<110	U
9	N-BUTYLBENZENE	104-51-8	µg/kg	5.6	<5.6	U
10	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.6	<5.6	U
11	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.6	<5.6	U
12	CARBON DISULFIDE	75-15-0	µg/kg	5.6	<5.6	U
13	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.6	<5.6	U
14	CHLOROBENZENE	108-90-7	µg/kg	5.6	<5.6	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.6	<5.6	U
16	CHLOROETHANE	75-00-3	µg/kg	5.6	<5.6	U
17	CHLOROFORM	67-66-3	µg/kg	5.6	<5.6	U
18	CHLOROMETHANE	74-87-3	µg/kg	5.6	<5.6	U
19	2-CHLOROTOLUENE	95-49-8	µg/kg	5.6	<5.6	U
20	4-CHLOROTOLUENE	106-43-4	µg/kg	5.6	<5.6	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.6	<5.6	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.6	<5.6	U
23	DIBROMOMETHANE	74-95-3	µg/kg	5.6	<5.6	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.6	<5.6	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.6	<5.6	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.6	<5.6	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.6	<5.6	U
28	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.6	<5.6	U
29	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.6	<5.6	U
30	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.6	<5.6	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.6	<5.6	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.6	<5.6	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.6	<5.6	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.6	<5.6	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.6	<5.6	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.6	<5.6	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.6	<5.6	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.6	<5.6	U
39	ETHYLBENZENE	100-41-4	µg/kg	5.6	<5.6	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.6	< 5.6	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.6	< 5.6	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.6	< 5.6	U
43	METHYLENE CHLORIDE	75-09-2	µg/kg	5.6	< 5.6	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	56	< 56	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	< 11	U
46	NAPHTHALENE	91-20-3	µg/kg	5.6	< 5.6	U
47	N-PROPYLBENZENE	103-65-1	µg/kg	5.6	< 5.6	U
48	STYRENE	100-42-5	µg/kg	5.6	< 5.6	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.6	< 5.6	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.6	< 5.6	U
51	TETRACHLOROETHENE	127-18-4	µg/kg	5.6	< 5.6	U
52	TOLUENE	108-88-3	µg/kg	5.6	< 5.6	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.6	< 5.6	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.6	< 5.6	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.6	< 5.6	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.6	< 5.6	U
57	TRICHLOROETHENE	79-01-6	µg/kg	5.6	< 5.6	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.6	< 5.6	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.6	< 5.6	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.6	< 5.6	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.6	< 5.6	U
62	VINYL CHLORIDE	75-01-4	µg/kg	5.6	< 5.6	U
63	XYLENES (TOTAL)	1330-20-7	µg/kg	17	< 17	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	98
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	116
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	118
4	TOLUENE-D8	2037-26-5	80-119	89
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	102
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	101
3	FLUOROBENZENE	462-06-6	50-200	66
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-11	Received Date:	04/20/1999
Sample ID:	**18609-2193**	Sample Matrix	Soil	Moisture %:	10.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2379	Prep. No:	–	Anal. Time:	18:23
Data File Name:	3115-11	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) Y	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	110	<110	U
2	BENZENE	71-43-2	µg/kg	5.6	<5.6	U
3	BROMOBENZENE	108-86-1	µg/kg	5.6	<5.6	U
4	BROMOCHLOROMETHANE	74-97-5	µg/kg	5.6	<5.6	U
5	BROMODICHLOROMETHANE	75-27-4	µg/kg	5.6	<5.6	U
6	BROMOFORM	75-25-2	µg/kg	5.6	<5.6	U
7	BROMOMETHANE	74-83-9	µg/kg	5.6	<5.6	U
8	2-BUTANONE (MEK)	78-93-3	µg/kg	110	<110	U
9	N-BUTYLBENZENE	104-51-8	µg/kg	5.6	<5.6	U
10	SEC-BUTYLBENZENE	135-98-8	µg/kg	5.6	<5.6	U
11	TERT-BUTYLBENZENE	98-06-6	µg/kg	5.6	<5.6	U
12	CARBON DISULFIDE	75-15-0	µg/kg	5.6	<5.6	U
13	CARBON TETRACHLORIDE	56-23-5	µg/kg	5.6	<5.6	U
14	CHLOROBENZENE	108-90-7	µg/kg	5.6	<5.6	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5.6	<5.6	U
16	CHLOROETHANE	75-00-3	µg/kg	5.6	<5.6	U
17	CHLOROFORM	67-66-3	µg/kg	5.6	<5.6	U
18	CHLOROMETHANE	74-87-3	µg/kg	5.6	<5.6	U
19	2-CHLOROTOLUENE	95-49-8	µg/kg	5.6	<5.6	U
20	4-CHLOROTOLUENE	106-43-4	µg/kg	5.6	<5.6	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5.6	<5.6	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5.6	<5.6	U
23	DIBROMOMETHANE	74-95-3	µg/kg	5.6	<5.6	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5.6	<5.6	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5.6	<5.6	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5.6	<5.6	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5.6	<5.6	U
28	1,1-DICHLOROETHANE	75-34-3	µg/kg	5.6	<5.6	U
29	1,2-DICHLOROETHANE	107-06-2	µg/kg	5.6	<5.6	U
30	1,1-DICHLOROETHENE	75-35-4	µg/kg	5.6	<5.6	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5.6	<5.6	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5.6	<5.6	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5.6	<5.6	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5.6	<5.6	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5.6	<5.6	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5.6	<5.6	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5.6	<5.6	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5.6	<5.6	U
39	ETHYLBENZENE	100-41-4	µg/kg	5.6	<5.6	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5.6	< 5.6	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5.6	< 5.6	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5.6	< 5.6	U
43	METHYLENE CHLORIDE	75-09-2	µg/kg	5.6	< 5.6	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	56	< 56	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	11	< 11	U
46	NAPHTHALENE	91-20-3	µg/kg	5.6	< 5.6	U
47	N-PROPYLBENZENE	103-65-1	µg/kg	5.6	< 5.6	U
48	STYRENE	100-42-5	µg/kg	5.6	< 5.6	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5.6	< 5.6	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5.6	< 5.6	U
51	TETRACHLOROETHENE	127-18-4	µg/kg	5.6	< 5.6	U
52	TOLUENE	108-88-3	µg/kg	5.6	< 5.6	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5.6	< 5.6	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5.6	< 5.6	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5.6	< 5.6	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5.6	< 5.6	U
57	TRICHLOROETHENE	79-01-6	µg/kg	5.6	< 5.6	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5.6	< 5.6	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5.6	< 5.6	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5.6	< 5.6	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5.6	< 5.6	U
62	VINYL CHLORIDE	75-01-4	µg/kg	5.6	< 5.6	U
63	XYLENES (TOTAL)	1330-20-7	µg/kg	17	< 17	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	99
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	115
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	118
4	TOLUENE-D8	2037-26-5	80-119	91
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	100
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	100
3	FLUOROBENZENE	462-06-6	50-200	65
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-2	Received Date:	04/20/1999
Sample ID:	**18609-2184**	Sample Matrix	Soil	Moisture %:	11.6
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2367	Prep. No:	–	Anal. Time:	14:57
Data File Name:	3115.002	Sample Amount:	5.0 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	<1.1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	94
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-3	Received Date:	04/20/1999
Sample ID:	**18609-2185**	Sample Matrix	Soil	Moisture %:	8.9
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2367	Prep. No:	–	Anal. Time:	15:19
Data File Name:	3115.003	Sample Amount:	5.0 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	<1.1	U

Surrogates		Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID) 460-00-4	70-132	99
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-4	Received Date:	04/20/1999
Sample ID:	**18609-2186**	Sample Matrix	Soil	Moisture %:	6.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2367	Prep. No:	–	Anal. Time:	17:10
Data File Name:	3115.004	Sample Amount:	5.0 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	<1.1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	76
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75799

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-5	Received Date:	04/20/1999
Sample ID:	**18609-2187**	Sample Matrix	Soil	Moisture %:	15.5
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2367	Prep. No:	–	Anal. Time:	17:32
Data File Name:	3115.005	Sample Amount:	5.0 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.2	<1.2	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	81
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75800

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-6	Received Date:	04/20/1999
Sample ID:	**18609-2188**	Sample Matrix	Soil	Moisture %:	11.1
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2367	Prep. No:	–	Anal. Time:	17:54
Data File Name:	3115.006	Sample Amount:	5.0 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	<1.1	U

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	75
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75801

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-7	Received Date:	04/20/1999
Sample ID:	**18609-2189**	Sample Matrix	Soil	Moisture %:	11.7
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2367	Prep. No:	–	Anal. Time:	18:16
Data File Name:	3115.007	Sample Amount:	5.0 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	<1.1	U

Surrogates		Control Limit, %	Surro. Rec.%
1 4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	76
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75802

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-8	Received Date:	04/20/1999
Sample ID:	**18609-2190**	Sample Matrix	Soil	Moisture %:	9.8
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2367	Prep. No:	–	Anal. Time:	18:38
Data File Name:	3115.008	Sample Amount:	5.0 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	< 1.1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	77
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75803

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-9	Received Date:	04/20/1999
Sample ID:	**18609-2191**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2377	Prep. No:	–	Anal. Time:	21:01
Data File Name:	3115.009	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	<0.05	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	68-124	96
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75804

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-10	Received Date:	04/20/1999
Sample ID:	**18609-2192**	Sample Matrix	Soil	Moisture %:	11.5
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2367	Prep. No:	-	Anal. Time:	19:00
Data File Name:	3115.010	Sample Amount:	5.0 g	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	<1.1	U

Surrogates		Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID) 460-00-4	70-132	94
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75805

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-11	Received Date:	04/20/1999
Sample ID:	**18609-2193**	Sample Matrix	Soil	Moisture %:	10.3
Sample Type:	Field Sample	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2367	Prep. No:	–	Anal. Time:	19:23
Data File Name:	3115.011	Sample Amount:	5.0 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1.1	< 1.1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FID)	460-00-4	70-132	93
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75806

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-2	Received Date:	04/20/1999
Sample ID:	**18609-2184**	Sample Matrix	Soil	Moisture %:	11.6
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2371	Prep. No:	1 of 1	Anal. Time:	19:40
Data File Name:	3115.002	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	<11	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	<11	U

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-146	81
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75833

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-3	Received Date:	04/20/1999
Sample ID:	**18609-2185**	Sample Matrix	Soil	Moisture %:	8.9
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2371	Prep. No:	1 of 1	Anal. Time:	20:06
Data File Name:	3115.003	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	247	
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	18	

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-146	119
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

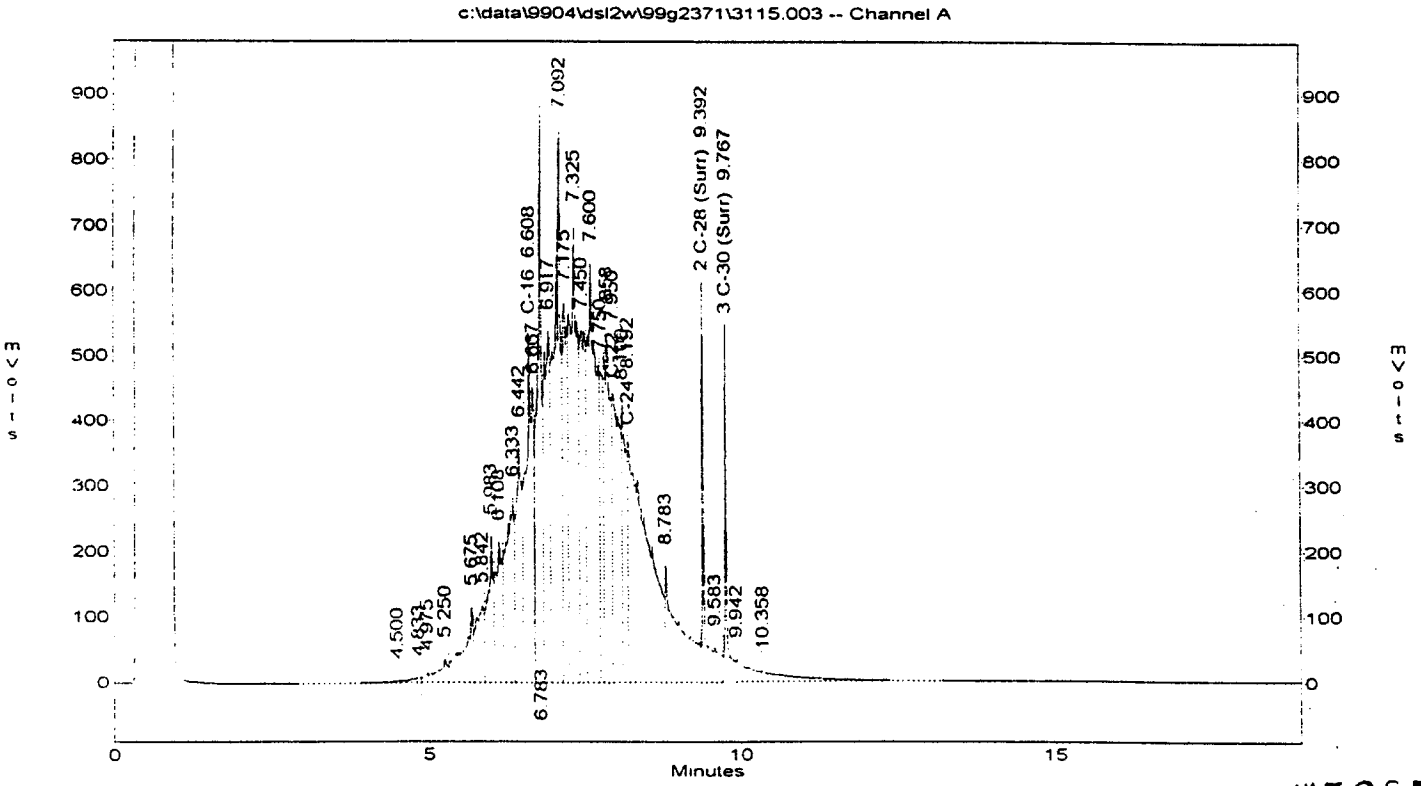
75834

Applied P & Ch Lab
Total Extractable Petroleum Hydrocarbon Analysis by GC-FID
Instrument ID: GC-W, Column: DB-1 (0.32mm x 15m x 0.25 um), 1ul

File : c:\data\9904\dsl2w\99g2371\3115.003
Method : c:\ezchrom\methods\Dsl2-026.w00
Sample ID : 3115-3 f=0.05
Vial : 7
Volume : 1
Acquired : Apr 21, 1999 20:06:30
Printed : Apr 21, 1999 20:25:29
User : System

Channel A Results

Name	Time	Area	AVE RF	Conc (ppm)
C-10	2.63	0	0.000	0.000
C-16	6.61	4132968	0.000	0.000
C-22	7.95	3676416	0.000	0.000
C-24	8.19	8221743	0.000	0.000
2 C-28 (Surr)	9.39	1073049	18003.779	59.601
3 C-30 (Surr)	9.77	676093	16961.650	39.860
C-36	11.04	0	0.000	0.000
1 Diesel		67838272	15071.858	4500.989
4 Motor oil		4159862	12791.396	325.208



75835

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-4	Received Date:	04/20/1999
Sample ID:	**18609-2186**	Sample Matrix	Soil	Moisture %:	6.3
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2371	Prep. No:	1 of 1	Anal. Time:	20:31
Data File Name:	3115.004	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	<11	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	<11	U

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-146	76
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75836

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-5	Received Date:	04/20/1999
Sample ID:	**18609-2187**	Sample Matrix	Soil	Moisture %:	15.5
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2371	Prep. No:	1 of 1	Anal. Time:	20:57
Data File Name:	3115.005	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	12	< 12	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	12	< 12	U

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-146	80
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75837

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-6	Received Date:	04/20/1999
Sample ID:	**18609-2188**	Sample Matrix	Soil	Moisture %:	11.1
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2371	Prep. No:	1 of 1	Anal. Time:	22:12
Data File Name:	3115.006	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	18	
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	16	

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-146	119
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75838

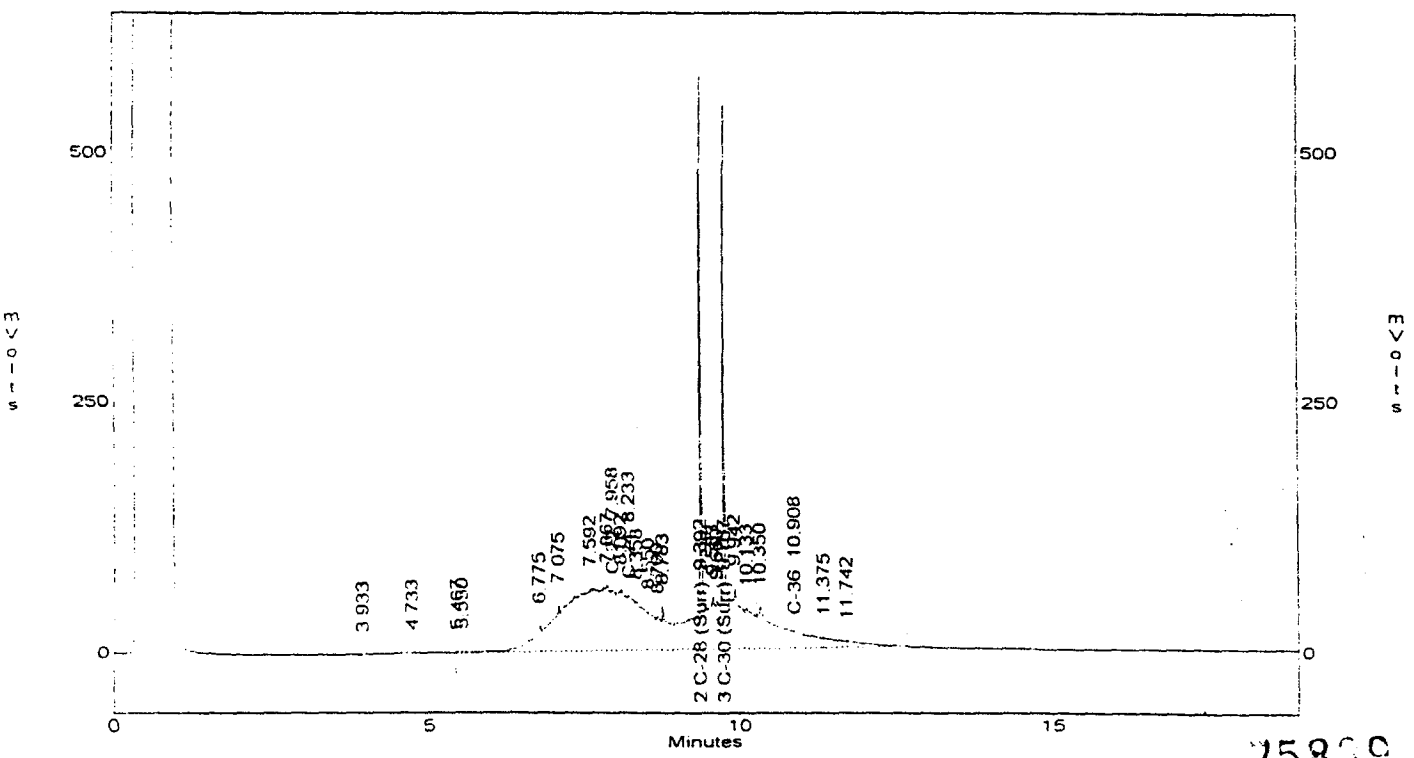
Applied P & Ch Lab
Total Extractable Petroleum Hydrocarbon Analysis by GC-FID
Instrument ID: GC-W, Column: DB-1 (0.32mm x 15m x 0.25 um), 1ul

File : c:\data\9904\dsl2w\99g2371\3115.006
Method : c:\ezchrom\methods\dsl2-026.w00
Sample ID : 3115-6 f=0.05
Vial : 10
Volume : 1
Acquired : Apr 21, 1999 22:12:30
Printed : Apr 22, 1999 14:30:25
User : System

Channel A Results

Name	Time	Area	AVE RF	Conc (ppm)
C-10	2.63	0	0.000	0.000
C-16	6.53	0	0.000	0.000
C-22	7.96	292983	0.000	0.000
C-24	8.23	361360	0.000	0.000
2 C-28 (Surr)	9.39	1068107	18003.779	59.327
3 C-30 (Surr)	9.77	1153559	16961.650	68.010
C-36	10.91	350002	0.000	0.000
1 Diesel		4892624	15071.858	324.620
4 Motor oil		3626349	12791.396	283.499

c:\data\9904\dsl2w\99g2371\3115.006 -- Channel A



75839

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-7	Received Date:	04/20/1999
Sample ID:	**18609-2189**	Sample Matrix	Soil	Moisture %:	11.7
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2371	Prep. No:	1 of 1	Anal. Time:	22:37
Data File Name:	3115.007	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	9	J
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	18	

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-146	76
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

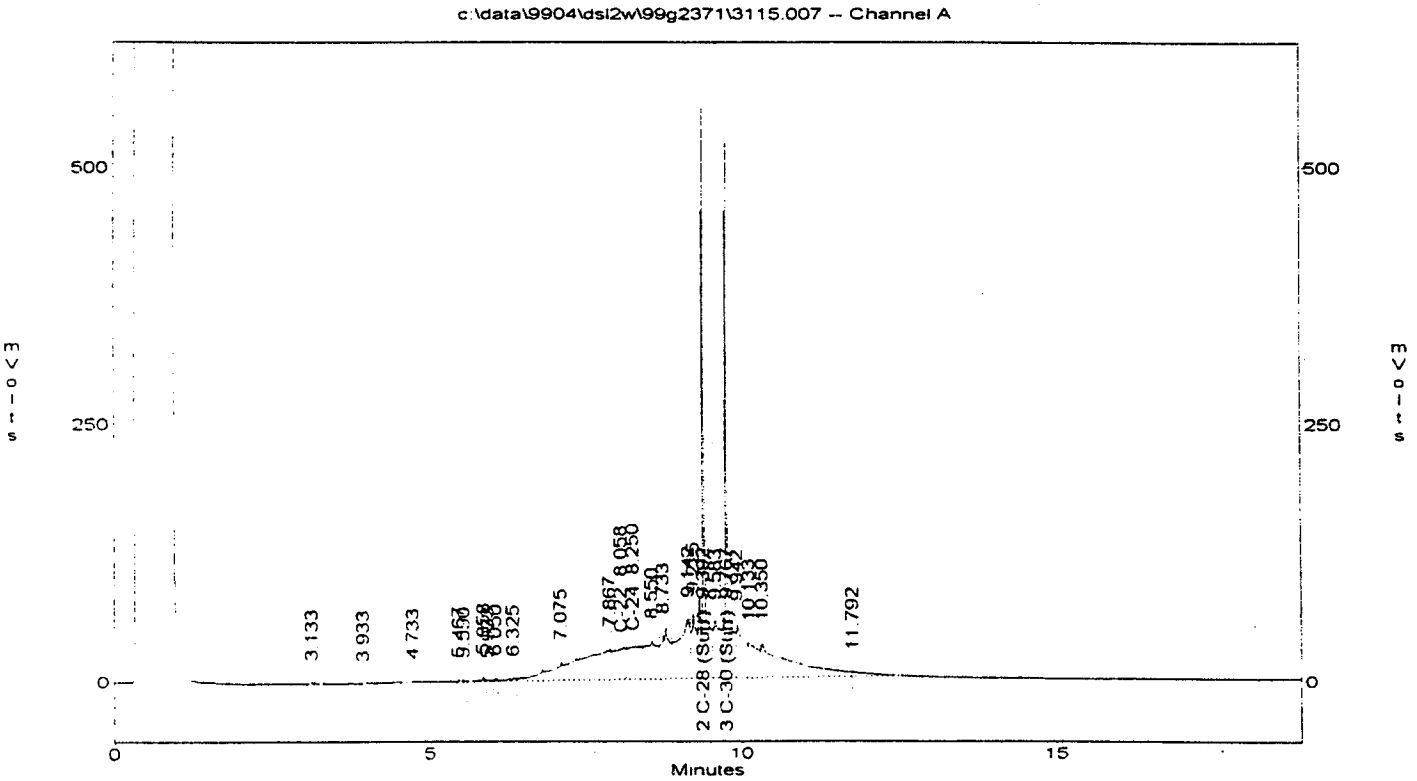
15840

Applied P & Ch Lab
Total Extractable Petroleum Hydrocarbon Analysis by GC-FID
Instrument ID: GC-W, Column: DB-1 (0.32mm x 15m x 0.25 um), 1ul

File : c:\data\9904\dsl2w\99g2371\3115.007
Method : c:\ezchrom\methods\dsl2-026.w00
Sample ID : 3115-7 f=0.05
Vial : 11
Volume : 1
Acquired : Apr 21, 1999 22:37:42
Printed : Apr 22, 1999 14:33:11
User : System

Channel A Results

Name	Time	Area	AVE RF	Conc (ppm)
C-10	2.63	0	0.000	0.000
C-16	6.53	0	0.000	0.000
C-22	8.06	415039	0.000	0.000
C-24	8.25	493494	0.000	0.000
2 C-28 (Surr)	9.39	687022	18003.779	38.160
3 C-30 (Surr)	9.77	649109	16961.650	38.269
C-36	11.04	0	0.000	0.000
1 Diesel		2311715	15071.858	153.380
4 Motor oil		3985573	12791.396	311.582



75841

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-8	Received Date:	04/20/1999
Sample ID:	**18609-2190**	Sample Matrix	Soil	Moisture %:	9.8
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2371	Prep. No:	1 of 1	Anal. Time:	23:02
Data File Name:	3115.008	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	<11	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	<11	U

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-146	77
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75842

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-9	Received Date:	04/20/1999
Sample ID:	**18609-2191**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2374	Prep. No:	1 of 1	Anal. Time:	18:20
Data File Name:	3115.009	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/L	0.5	<0.5	U
2	TPH AS MOTOR OIL	TBD-0002	mg/L	0.5	<0.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	85
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75843

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-10	Received Date:	04/20/1999
Sample ID:	**18609-2192**	Sample Matrix	Soil	Moisture %:	11.5
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/22/99
Batch No:	99G2371	Prep. No:	1 of 1	Anal. Time:	10:57
Data File Name:	3115.110	Sample Amount:	20.0 g	Dilution Factor:	5
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	56	670	
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	56	170	

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-146	79
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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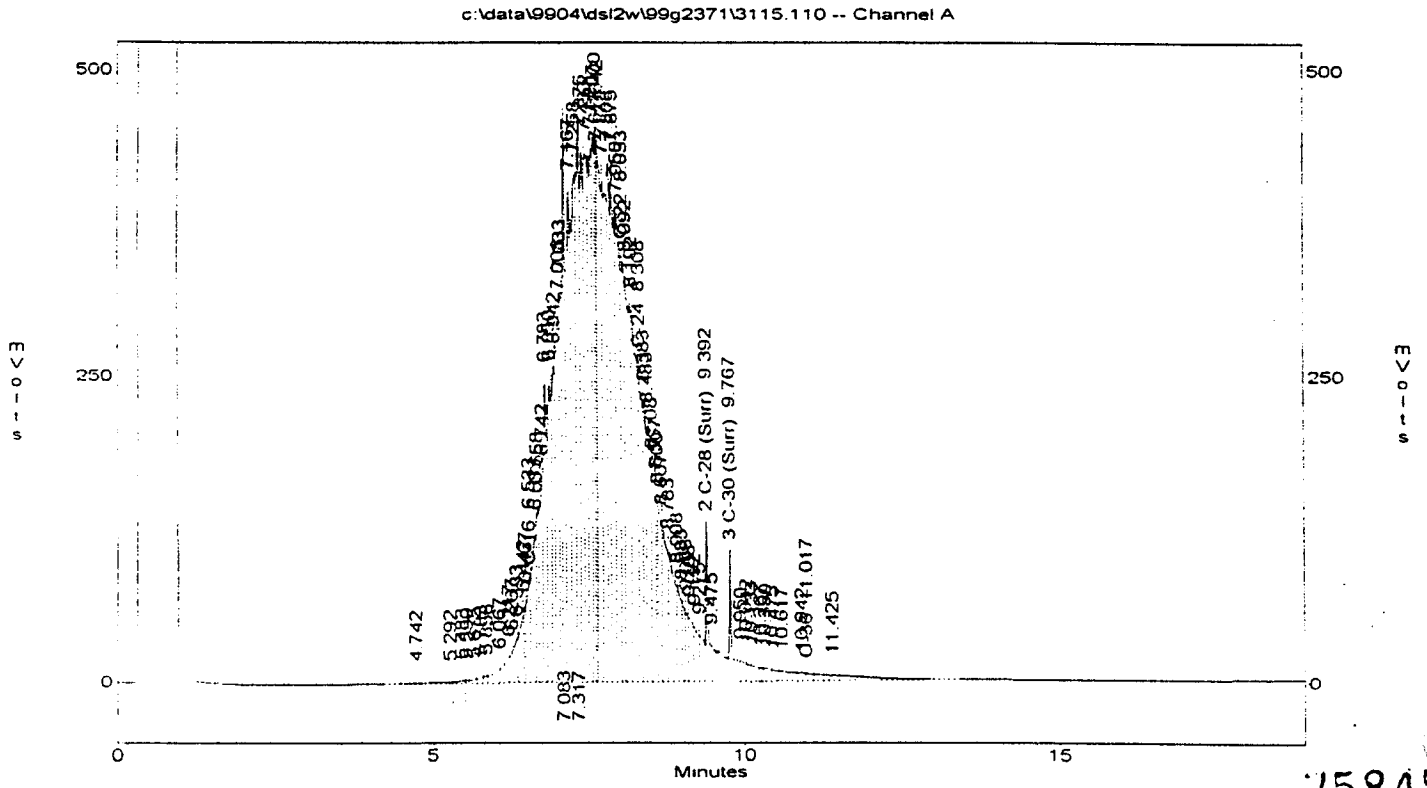
Applied P & Ch Lab
Total Extractable Petroleum Hydrocarbon Analysis by GC-FID
Instrument ID: GC-W, Column: DB-1 (0.32mm x 15m x 0.25 um), 1ul

File : c:\data\9904\dsl2w\99g2371\3115.110
Method : c:\ezchrom\methods\dsl2-026.w00
Sample ID : 3115-10 f=0.25
Vial : 29
Volume : 1
Acquired : Apr 22, 1999 10:57:56
Printed : Apr 22, 1999 14:35:50
User : System

Channel A Results

Name	Time	Area	AVE RF	Conc (ppm)
C-10	2.63	0	0.000	0.000
C-16	6.53	295715	0.000	0.000
C-22	8.03	1363973	0.000	0.000
C-24	8.31	1073870	0.000	0.000
2 C-28 (Surr)	9.39	142474	18003.779	7.914
3 C-30 (Surr)	9.77	132211	16961.650	7.795
C-36	11.02	40236	0.000	0.000
1 Diesel		35623400	15071.858	2363.571
4 Motor oil		7588551	12791.396	593.254



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Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/20/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	C.Parrish
		Lab Sample ID:	99-3115-11	Received Date:	04/20/1999
Sample ID:	**18609-2193**	Sample Matrix	Soil	Moisture %:	10.3
Sample Type:	Field Sample	Prep. Method:	3550	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2371	Prep. No:	1 of 1	Anal. Time:	23:52
Data File Name:	3115.011	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	11	57	
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	11	5	J

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-146	96
# of out-of-control				0

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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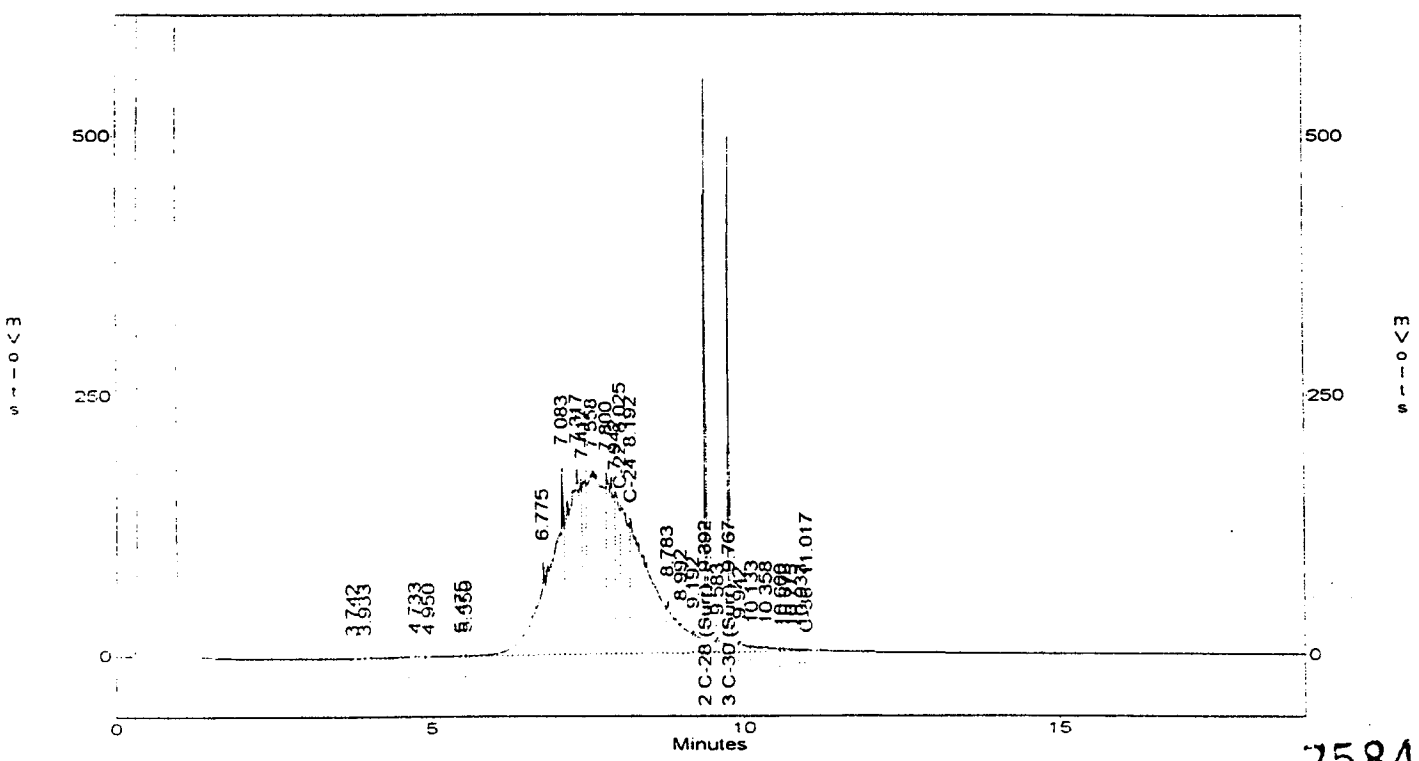
Applied P & Ch Lab
Total Extractable Petroleum Hydrocarbon Analysis by GC-FID
Instrument ID: GC-W, Column: DB-1 (0.32mm x 15m x 0.25 um), 1ul

File : c:\data\9904\ds12w\99g2371\3115.011
Method : c:\ezchrom\methods\Ds12-026.w00
Sample ID : 3115-11 f=0.05
Vial : 14
Volume : 1
Acquired : Apr 21, 1999 23:52:51
Printed : Apr 22, 1999 00:11:49
User : System

Channel A Results

Name	Time	Area	AVE RF	Conc (ppm)
C-10	2.63	0	0.000	0.000
C-16	6.53	0	0.000	0.000
C-22	8.02	1243816	0.000	0.000
C-24	8.19	2791179	0.000	0.000
2 C-28 (Surr)	9.39	861639	18003.779	47.859
3 C-30 (Surr)	9.77	784728	16961.650	46.265
C-36	11.02	7744	0.000	0.000
1 Diesel		15430930	15071.858	1023.824
4 Motor oil		1135463	12791.396	88.768

c:\data\9904\ds12w\99g2371\3115.011 -- Channel A



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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/21/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	
		Lab Sample ID:	99G2372-MB-01	Received Date:	04/21/1999
Sample ID:	**99G2372-MB-01**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: Q
Anal. Method:	8260	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2372	Prep. No:	–	Anal. Time:	12:52
Data File Name:	G2372K01	Sample Amount:	5 mL	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) N	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/L	100	<100	U
2	BENZENE	71-43-2	µg/L	5	<5	U
3	BROMOBENZENE	108-86-1	µg/L	5	<5	U
4	BROMOCHLOROMETHANE	74-97-5	µg/L	5	<5	U
5	BROMODICHLOROMETHANE	75-27-4	µg/L	5	<5	U
6	BROMOFORM	75-25-2	µg/L	5	<5	U
7	BROMOMETHANE	74-83-9	µg/L	5	<5	U
8	2-BUTANONE (MEK)	78-93-3	µg/L	100	<100	U
9	N-BUTYLBENZENE	104-51-8	µg/L	5	<5	U
10	SEC-BUTYLBENZENE	135-98-8	µg/L	5	<5	U
11	TERT-BUTYLBENZENE	98-06-6	µg/L	5	<5	U
12	CARBON DISULFIDE	75-15-0	µg/L	5	<5	U
13	CARBON TETRACHLORIDE	56-23-5	µg/L	5	<5	U
14	CHLOROBENZENE	108-90-7	µg/L	5	<5	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/L	5	<5	U
16	CHLOROETHANE	75-00-3	µg/L	5	<5	U
17	CHLOROFORM	67-66-3	µg/L	5	<5	U
18	CHLOROMETHANE	74-87-3	µg/L	5	<5	U
19	2-CHLOROTOLUENE	95-49-8	µg/L	5	<5	U
20	4-CHLOROTOLUENE	106-43-4	µg/L	5	<5	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/L	5	<5	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	5	<5	U
23	DIBROMOMETHANE	74-95-3	µg/L	5	<5	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/L	5	<5	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/L	5	<5	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/L	5	<5	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	5	<5	U
28	1,1-DICHLOROETHANE	75-34-3	µg/L	5	<5	U
29	1,2-DICHLOROETHANE	107-06-2	µg/L	5	<5	U
30	1,1-DICHLOROETHENE	75-35-4	µg/L	5	<5	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	5	<5	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	5	<5	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/L	5	<5	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/L	5	<5	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/L	5	<5	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/L	5	<5	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	5	<5	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	5	<5	U
39	ETHYLBENZENE	100-41-4	µg/L	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/L	5	< 5	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	5	< 5	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/L	5	< 5	U
43	METHYLENE CHLORIDE	75-09-2	µg/L	5	< 5	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/L	50	< 50	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/L	10	< 10	U
46	NAPHTHALENE	91-20-3	µg/L	5	< 5	U
47	N-PROPYLBENZENE	103-65-1	µg/L	5	< 5	U
48	STYRENE	100-42-5	µg/L	5	< 5	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	5	< 5	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	5	< 5	U
51	TETRACHLOROETHENE	127-18-4	µg/L	5	< 5	U
52	TOLUENE	108-88-3	µg/L	5	< 5	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	5	< 5	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	5	< 5	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	< 5	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	< 5	U
57	TRICHLOROETHENE	79-01-6	µg/L	5	< 5	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	5	< 5	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	5	< 5	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	5	< 5	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	5	< 5	U
62	VINYL CHLORIDE	75-01-4	µg/L	5	< 5	U
63	XYLENES (TOTAL)	1330-20-7	µg/L	15	< 15	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	80-119	98
2	DIBROMOFLUOROMETHANE	1868-53-7	79-120	103
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-119	100
4	TOLUENE-D8	2037-26-5	81-118	108
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	92
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	83
3	FLUOROBENZENE	462-06-6	50-200	96
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/22/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	
		Lab Sample ID:	99G2379-MB-01	Received Date:	04/22/1999
Sample ID:	**99G2379-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2379	Prep. No:	–	Anal. Time:	11:25
Data File Name:	G2379K01	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	100	<100	U
2	BENZENE	71-43-2	µg/kg	5	<5	U
3	BROMOBENZENE	108-86-1	µg/kg	5	<5	U
4	BROMOCHLOROMETHANE	74-97-5	µg/kg	5	<5	U
5	BROMODICHLOROMETHANE	75-27-4	µg/kg	5	<5	U
6	BROMOFORM	75-25-2	µg/kg	5	<5	U
7	BROMOMETHANE	74-83-9	µg/kg	5	<5	U
8	2-BUTANONE (MEK)	78-93-3	µg/kg	100	<100	U
9	N-BUTYLBENZENE	104-51-8	µg/kg	5	<5	U
10	SEC-BUTYLBENZENE	135-98-8	µg/kg	5	<5	U
11	TERT-BUTYLBENZENE	98-06-6	µg/kg	5	<5	U
12	CARBON DISULFIDE	75-15-0	µg/kg	5	<5	U
13	CARBON TETRACHLORIDE	56-23-5	µg/kg	5	<5	U
14	CHLOROBENZENE	108-90-7	µg/kg	5	<5	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5	<5	U
16	CHLOROETHANE	75-00-3	µg/kg	5	<5	U
17	CHLOROFORM	67-66-3	µg/kg	5	<5	U
18	CHLOROMETHANE	74-87-3	µg/kg	5	<5	U
19	2-CHLOROTOLUENE	95-49-8	µg/kg	5	<5	U
20	4-CHLOROTOLUENE	106-43-4	µg/kg	5	<5	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5	<5	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5	<5	U
23	DIBROMOMETHANE	74-95-3	µg/kg	5	<5	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5	<5	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5	<5	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5	<5	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5	<5	U
28	1,1-DICHLOROETHANE	75-34-3	µg/kg	5	<5	U
29	1,2-DICHLOROETHANE	107-06-2	µg/kg	5	<5	U
30	1,1-DICHLOROETHENE	75-35-4	µg/kg	5	<5	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5	<5	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5	<5	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5	<5	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5	<5	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5	<5	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5	<5	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5	<5	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5	<5	U
39	ETHYLBENZENE	100-41-4	µg/kg	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5	< 5	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5	< 5	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5	< 5	U
43	METHYLENE CHLORIDE	75-09-2	µg/kg	5	< 5	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	50	< 50	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	10	< 10	U
46	NAPHTHALENE	91-20-3	µg/kg	5	< 5	U
47	N-PROPYLBENZENE	103-65-1	µg/kg	5	< 5	U
48	STYRENE	100-42-5	µg/kg	5	< 5	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5	< 5	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5	< 5	U
51	TETRACHLOROETHENE	127-18-4	µg/kg	5	< 5	U
52	TOLUENE	108-88-3	µg/kg	5	< 5	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5	< 5	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5	< 5	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5	< 5	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5	< 5	U
57	TRICHLOROETHENE	79-01-6	µg/kg	5	< 5	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5	< 5	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5	< 5	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5	< 5	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5	< 5	U
62	VINYL CHLORIDE	75-01-4	µg/kg	5	< 5	U
63	XYLENES (TOTAL)	1330-20-7	µg/kg	15	< 15	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	98
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	109
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	99
4	TOLUENE-D8	2037-26-5	80-119	96
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	79
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	79
3	FLUOROBENZENE	462-06-6	50-200	55
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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Applied P & Ch Laboratory

Organic Analysis Results for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/22/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	
		Lab Sample ID:	99G2379-MB-02	Received Date:	04/22/1999
Sample ID:	**99G2379-MB-02**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC/MS: X
Anal. Method:	8260	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2379	Prep. No:	–	Anal. Time:	20:27
Data File Name:	G2379K02	Sample Amount:	5 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/kg	100	<100	U
2	BENZENE	71-43-2	µg/kg	5	<5	U
3	BROMOBENZENE	108-86-1	µg/kg	5	<5	U
4	BROMOCHLOROMETHANE	74-97-5	µg/kg	5	<5	U
5	BROMODICHLOROMETHANE	75-27-4	µg/kg	5	<5	U
6	BROMOFORM	75-25-2	µg/kg	5	<5	U
7	BROMOMETHANE	74-83-9	µg/kg	5	<5	U
8	2-BUTANONE (MEK)	78-93-3	µg/kg	100	<100	U
9	N-BUTYLBENZENE	104-51-8	µg/kg	5	<5	U
10	SEC-BUTYLBENZENE	135-98-8	µg/kg	5	<5	U
11	TERT-BUTYLBENZENE	98-06-6	µg/kg	5	<5	U
12	CARBON DISULFIDE	75-15-0	µg/kg	5	<5	U
13	CARBON TETRACHLORIDE	56-23-5	µg/kg	5	<5	U
14	CHLOROBENZENE	108-90-7	µg/kg	5	<5	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/kg	5	<5	U
16	CHLOROETHANE	75-00-3	µg/kg	5	<5	U
17	CHLOROFORM	67-66-3	µg/kg	5	<5	U
18	CHLOROMETHANE	74-87-3	µg/kg	5	<5	U
19	2-CHLOROTOLUENE	95-49-8	µg/kg	5	<5	U
20	4-CHLOROTOLUENE	106-43-4	µg/kg	5	<5	U
21	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	µg/kg	5	<5	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/kg	5	<5	U
23	DIBROMOMETHANE	74-95-3	µg/kg	5	<5	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/kg	5	<5	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/kg	5	<5	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/kg	5	<5	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/kg	5	<5	U
28	1,1-DICHLOROETHANE	75-34-3	µg/kg	5	<5	U
29	1,2-DICHLOROETHANE	107-06-2	µg/kg	5	<5	U
30	1,1-DICHLOROETHENE	75-35-4	µg/kg	5	<5	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/kg	5	<5	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/kg	5	<5	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/kg	5	<5	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/kg	5	<5	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/kg	5	<5	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/kg	5	<5	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/kg	5	<5	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/kg	5	<5	U
39	ETHYLBENZENE	100-41-4	µg/kg	5	<5	U

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#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/kg	5	< 5	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/kg	5	< 5	U
42	P-ISOPROPYLTOLUENE	99-87-6	µg/kg	5	< 5	U
43	METHYLENE CHLORIDE	75-09-2	µg/kg	5	< 5	U
44	4-METHYL-2-PENTANONE (MIBK)	108-10-1	µg/kg	50	< 50	U
45	METHYL TERT-BUTYL ETHER	1634-04-4	µg/kg	10	< 10	U
46	NAPHTHALENE	91-20-3	µg/kg	5	< 5	U
47	N-PROPYLBENZENE	103-65-1	µg/kg	5	< 5	U
48	STYRENE	100-42-5	µg/kg	5	< 5	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/kg	5	< 5	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/kg	5	< 5	U
51	TETRACHLOROETHENE	127-18-4	µg/kg	5	< 5	U
52	TOLUENE	108-88-3	µg/kg	5	< 5	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/kg	5	< 5	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/kg	5	< 5	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/kg	5	< 5	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/kg	5	< 5	U
57	TRICHLOROETHENE	79-01-6	µg/kg	5	< 5	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/kg	5	< 5	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/kg	5	< 5	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/kg	5	< 5	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/kg	5	< 5	U
62	VINYL CHLORIDE	75-01-4	µg/kg	5	< 5	U
63	XYLENES (TOTAL)	1330-20-7	µg/kg	15	< 15	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	77-119	95
2	DIBROMOFLUOROMETHANE	1868-53-7	75-124	114
3	1,2-DICHLOROETHANE-D4	17060-07-0	75-129	108
4	TOLUENE-D8	2037-26-5	80-119	93
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	78
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	87
3	FLUOROBENZENE	462-06-6	50-200	54
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

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FORM-2C

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		SDG Number:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Water
		Batch No:	99G2372		

#	Client Sample No	Lab Sample ID	S1 %	S1 #	S2 %	S2 #	S3 %	S3 #	S4 %	S4 #	TOT OUT
1	99G2372-MB-01	99G2372-MB-01	98		103		100		108		0
2	99G2372-LCS-01	99G2372-LCS-01	93		95		92		96		0
3	20242-751-MS	99-3119-1MS	95		97		92		98		0
4	20242-751-MSD	99-3119-1MSD	95		99		92		101		0
5	18609-2183	99-3115-1	91		99		97		104		0
6	18609-2191	99-3115-9	92		103		102		108		0
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	QC Control Limit
S1 = 4-BROMO-FLUOROBENZENE (BFB)	80-119
S2 = DIBROMOFLUOROMETHANE	79-120
S3 = 1,2-DICHLOROETHANE-D4	81-119
S4 = TOLUENE-D8	81-118

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits D - Surrogate diluted out I - Matrix Interference

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FORM-2D

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Soil
		Batch No:	99G2379		

#	Client Sample No	Lab Sample ID	S1 %	#	S2 %	#	S3 %	#	S4 %	#	TOT OUT
1	99G2379-MB-01	99G2379-MB-01	98		109		99		96		0
2	99G2379-LCS-01	99G2379-LCS-01	105		107		101		98		0
3	18609-2184	99-3115-2	99		110		104		94		0
4	18609-2185	99-3115-3	98		112		106		94		0
5	18609-2186	99-3115-4	96		112		105		93		0
6	18609-2187	99-3115-5	96		113		106		93		0
7	18609-2188	99-3115-6	98		115		111		93		0
8	18609-2189	99-3115-7	97		115		111		93		0
9	18609-2190	99-3115-8	99		115		110		91		0
10	18609-2192	99-3115-10	98		116		118		89		0
11	18609-2193	99-3115-11	99		115		118		91		0
12	99G2379-MB-02	99G2379-MB-02	95		114		108		93		0
13	99G2379-LSD-01	99G2379-LSD-01	109		106		104		97		0
14	MSBF D-9-MS	99-3136-1MS	105		100		92		96		0
15	MSBF D-9-MSD	99-3136-1MSD	104		103		93		103		0
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18											
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23											
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25											

	QC Control Limit
S1 = 4-BROMO-FLUOROBENZENE (BFB)	77-119
S2 = DIBROMOFLUOROMETHANE	75-124
S3 = 1,2-DICHLOROETHANE-D4	75-129
S4 = TOLUENE-D8	80-119

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits D - Surrogate diluted out I - Matrix Interference

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FORM-3A

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Water
		Batch No:	99G2372		
LCS Filename:	G2372L01	Date Analyzed:	042199	Time Analyzed:	13:19
LCSD Filename:	–	Date Analyzed:	–	Time Analyzed:	–

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
BENZENE	μg/L	50	0	47.1	94	76-121
CHLOROBENZENE	μg/L	50	0	48.7	97	77-122
1,1-DICHLOROETHENE	μg/L	50	0	42.1	84	71-126
TOLUENE	μg/L	50	0	46.7	93	77-120
TRICHLOROETHENE	μg/L	50	0	45.2	90	73-124
# of Out-of-control					0	

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

75737

FORM-3A

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Water
		Batch No:	99G2372		
MS Filename:	G2372M01	Date Analyzed:	042199	Time Analyzed:	14:57
MSD Filename:	G2372N01	Date Analyzed:	042199	Time Analyzed:	15:24
MS Sample No:	**20242-751**	Sample Lab ID:	99-3119-1		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
BENZENE	µg/L	50	0	48.1	96	72-126
CHLOROBENZENE	µg/L	50	0	49.3	99	69-131
1,1-DICHLOROETHENE	µg/L	50	0	42.6	85	66-133
TOLUENE	µg/L	50	0	47.6	95	70-129
TRICHLOROETHENE	µg/L	50	0	45.7	91	65-134
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/L	50	48.6	97	1	27	72-126
CHLOROBENZENE	µg/L	50	51.3	103	4	31	69-131
1,1-DICHLOROETHENE	µg/L	50	43.4	87	2	34	66-133
TOLUENE	µg/L	50	49.1	98	3	30	70-129
TRICHLOROETHENE	µg/L	50	48.3	97	6	35	65-134
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

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FORM-3B

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Soil
		Batch No:	99G2379		
LCS Filename:	G2379L01	Date Analyzed:	042299	Time Analyzed:	11:56
LCSD Filename:	G2379J01	Date Analyzed:	042299	Time Analyzed:	20:58

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
BENZENE	µg/kg	50	0	53.7	107	76-118
CHLOROBENZENE	µg/kg	50	0	57.7	115	76-116
1,1-DICHLOROETHENE	µg/kg	50	0	56.9	114	71-125
TOLUENE	µg/kg	50	0	53.3	107	77-114
TRICHLOROETHENE	µg/kg	50	0	59.8	120	69-121
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/kg	50	51.6	103	4	22	76-118
CHLOROBENZENE	µg/kg	50	56.0	112	3	21	76-116
1,1-DICHLOROETHENE	µg/kg	50	55.0	110	4	29	71-125
TOLUENE	µg/kg	50	51.8	104	3	21	77-114
TRICHLOROETHENE	µg/kg	50	59.9	120	0	29	69-121
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

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FORM-3B

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Soil
		Batch No:	99G2379		
MS Filename:	G2379M02	Date Analyzed:	042299	Time Analyzed:	21:29
MSD Filename:	G2379N02	Date Analyzed:	042299	Time Analyzed:	22:00
MS Sample No:	**MSBF D-9**	Sample Lab ID:	99-3136-1	Moisture, %	15.1

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
BENZENE	µg/kg	58.9	0	62.9	107	75-119
CHLOROBENZENE	µg/kg	58.9	0	67.0	114	76-117
1,1-DICHLOROETHENE	µg/kg	58.9	0	62.9	107	69-127
TOLUENE	µg/kg	58.9	0	62.2	106	75-117
TRICHLOROETHENE	µg/kg	58.9	0	70.1	119	66-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
BENZENE	µg/kg	58.9	63.8	108	1	22	75-119
CHLOROBENZENE	µg/kg	58.9	69.2	117	3	21	76-117
1,1-DICHLOROETHENE	µg/kg	58.9	62.5	106	1	29	69-127
TOLUENE	µg/kg	58.9	65.6	111	5	21	75-117
TRICHLOROETHENE	µg/kg	58.9	70.6	120	1	29	66-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

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FORM-4A

Applied P & Ch Laboratory

Method Blank Summary for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Analysis Date:	04/21/99
		Sample Matrix:	Water	Analysis Time:	12:52
Sample ID:	**99G2372-MB-01**	Batch No:	99G2372	Instrument ID:	GC/MS: Q
Lab Sample ID:	99G2372-MB-01	Data File Name:	G2372K01	GC Column:	DB-5.624
		Heated Purge: (Y/N)	N	Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	99G2372-LCS-01	99G2372-LCS-01	Lab Control Spike	G2372L01	04/21/99	13:19
2	20242-751-MS	99-3119-1MS	Matrix Spike	G2372M01	04/21/99	14:57
3	20242-751-MSD	99-3119-1MSD	Matrix Spike Duplicate	G2372N01	04/21/99	15:24
4	18609-2183	99-3115-1	Field Sample	3115-01	04/21/99	19:00
5	18609-2191	99-3115-9	Field Sample	3115-09	04/21/99	19:28
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FORM-4A

Applied P & Ch Laboratory

Method Blank Summary for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Analysis Date:	04/22/99
		Sample Matrix:	Soil	Analysis Time:	11:25
Sample ID:	**99G2379-MB-01**	Batch No:	99G2379	Instrument ID:	GC/MS: X
Lab Sample ID:	99G2379-MB-01	Data File Name:	G2379K01	GC Column:	DB-5.624
		Heated Purge: (Y/N)	Y	Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	99G2379-LCS-01	99G2379-LCS-01	Lab Control Spike	G2379L01	04/22/99	11:56
2	18609-2184	99-3115-2	Field Sample	3115-02	04/22/99	14:15
3	18609-2185	99-3115-3	Field Sample	3115-03	04/22/99	14:46
4	18609-2186	99-3115-4	Field Sample	3115-04	04/22/99	15:17
5	18609-2187	99-3115-5	Field Sample	3115-05	04/22/99	15:48
6	18609-2188	99-3115-6	Field Sample	3115-06	04/22/99	16:19
7	18609-2189	99-3115-7	Field Sample	3115-07	04/22/99	16:50
8	18609-2190	99-3115-8	Field Sample	3115-08	04/22/99	17:21
9	18609-2192	99-3115-10	Field Sample	3115-10	04/22/99	17:52
10	18609-2193	99-3115-11	Field Sample	3115-11	04/22/99	18:23
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FORM-4A

Applied P & Ch Laboratory

Method Blank Summary for Method 8260

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Analysis Date:	04/22/99
		Sample Matrix:	Soil	Analysis Time:	20:27
Sample ID:	**99G2379-MB-02**	Batch No:	99G2379	Instrument ID:	GC/MS: X
Lab Sample ID:	99G2379-MB-02	Data File Name:	G2379K02	GC Column:	DB-5.624
		Heated Purge: (Y/N)	Y	Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	99G2379-LSD-02	99G2379-LSD-02	Lab Control Spike Duplicate	G2379J01	04/22/99	20:58
2	MSBF D-9-MS	99-3136-1MS	Matrix Spike	G2379M02	04/22/99	21:29
3	MSBF D-9-MSD	99-3136-1MSD	Matrix Spike Duplicate	G2379N02	04/22/99	22:00
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Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/21/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	
		Lab Sample ID:	99G2367-MB-01	Received Date:	04/21/1999
Sample ID:	**99G2367-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC: B
Anal. Method:	M8015V	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2367	Prep. No:	–	Anal. Time:	11:53
Data File Name:	2367G.K01	Sample Amount:	5.0 g	Dilution Factor:	1
Methanol Vol.	–				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/kg	1	<1	U

Surrogates			Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FI	460-00-4	70-132	75
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75795

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/22/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	
		Lab Sample ID:	99G2377-MB-01	Received Date:	04/22/1999
Sample ID:	**99G2377-MB-01**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Method Blank	Prep. Method:	5030	Instrument ID:	GC: N
Anal. Method:	M8015V	Prep. Date:	04/22/99	Anal. Date:	04/22/99
Batch No:	99G2377	Prep. No:	-	Anal. Time:	18:03
Data File Name:	2377G.K01	Sample Amount:	5.0 mL	Dilution Factor:	1
Methanol Vol.	-				
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	N

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	GASOLINE	8006-61-9	mg/L	0.05	<0.05	U

Surrogates		Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (FI 460-00-4	68-124	96
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75796

FORM-2D

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Soil
		Batch No:	99G2367		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	99G2367-MB-01	99G2367-MB-01	75	0
2	99G2367-LCS-01	99G2367-LCS-01	89	0
3	99G2367-LSD-01	99G2367-LSD-01	93	0
4	18609-2184	99-3115-2	94	0
5	18609-2185	99-3115-3	99	0
6	18609-2184-MS	99-3115-2MS	86	0
7	18609-2184-MSD	99-3115-2MSD	85	0
8	18609-2186	99-3115-4	76	0
9	18609-2187	99-3115-5	81	0
10	18609-2188	99-3115-6	75	0
11	18609-2189	99-3115-7	76	0
12	18609-2190	99-3115-8	77	0
13	18609-2192	99-3115-10	94	0
14	18609-2193	99-3115-11	93	0
15				
16				
17				
18				
19				
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21				
22				
23				
24				
25				

S1 = 4-BROMO-FLUOROBENZENE (FID) — QC Control Limit 70-132

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits D - Surrogate diluted out I.- Matrix Interference

75807

FORM-2C

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Water
		Batch No:	99G2377		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	99G2377-MB-01	99G2377-MB-01	96	0
2	99G2377-LCS-01	99G2377-LCS-01	94	0
3	99G2377-LSD-01	99G2377-LSD-01	96	0
4	20242-751-MS	99-3119-1MS	94	0
5	20242-751-MSD	99-3119-1MSD	97	0
6	18609-2191	99-3115-9	96	0
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	QC Control Limit
S1 = 4-BROMO-FLUOROBENZENE (FID)	68-124

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits D - Surrogate diluted out I - Matrix Interference

75808

FORM-3B

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Soil
		Batch No:	99G2367		
LCS Filename:	2367G.L01	Date Analyzed:	042199	Time Analyzed:	12:15
LCSD Filename:	2367G.J01	Date Analyzed:	042199	Time Analyzed:	12:38

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
GASOLINE	mg/kg	1	0	1.02	102	77-122
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
GASOLINE	mg/kg	1	1.04	104	2	23	77-122
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

75809

FORM-3B

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Soil
		Batch No:	99G2367		
MS Filename:	2367G.M01	Date Analyzed:	042199	Time Analyzed:	16:25
MSD Filename:	2367G.N01	Date Analyzed:	042199	Time Analyzed:	16:48
MS Sample No:	**18609-2184**	Sample Lab ID:	99-3115-2	Moisture, %	11.6

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
GASOLINE	mg/kg	1.13	0	0.957	85	65-127
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
GASOLINE	mg/kg	1.13	0.963	85	0	31	65-127
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

75810

FORM-3A

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Water
		Batch No:	99G2377		
LCS Filename:	2377G.L01	Date Analyzed:	042299	Time Analyzed:	18:28
LCSD Filename:	2377G.J01	Date Analyzed:	042299	Time Analyzed:	18:54

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
GASOLINE	mg/L	1	0	1.08	108	75-122
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
GASOLINE	mg/L	1	1.14	114	5	23	75-122
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

75811

FORM-3A

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Water
		Batch No:	99G2377		
MS Filename:	2377G.M01	Date Analyzed:	042299	Time Analyzed:	19:19
MSD Filename:	2377G.N01	Date Analyzed:	042299	Time Analyzed:	19:45
MS Sample No:	**20242-751**	Sample Lab ID:	99-3119-1		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
GASOLINE	mg/L	1	0.05	0.837	79	75-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
GASOLINE	mg/L	1	0.822	77	3	23	75-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

75812

FORM-4A

Applied P & Ch Laboratory

Method Blank Summary for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Analysis Date:	04/21/99
		Sample Matrix:	Soil	Analysis Time:	11:53
Sample ID:	**99G2367-MB-01**	Batch No:	99G2367	Instrument ID:	GC: B
Lab Sample ID:	99G2367-MB-01	Data File Name:	2367G.K01	GC Column:	RTX-5
		Heated Purge: (Y/N)	Y	Column ID:	0.53 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	99G2367-LCS-01	99G2367-LCS-01	Lab Control Spike	2367G.L01	04/21/99	12:15
2	99G2367-LSD-01	99G2367-LSD-01	Lab Control Spike Duplicate	2367G.J01	04/21/99	12:38
3	18609-2184	99-3115-2	Field Sample	3115.002	04/21/99	14:57
4	18609-2185	99-3115-3	Field Sample	3115.003	04/21/99	15:19
5	18609-2184-MS	99-3115-2MS	Matrix Spike	2367G.M01	04/21/99	16:25
6	18609-2184-MSD	99-3115-2MSD	Matrix Spike Duplicate	2367G.N01	04/21/99	16:48
7	18609-2186	99-3115-4	Field Sample	3115.004	04/21/99	17:10
8	18609-2187	99-3115-5	Field Sample	3115.005	04/21/99	17:32
9	18609-2188	99-3115-6	Field Sample	3115.006	04/21/99	17:54
10	18609-2189	99-3115-7	Field Sample	3115.007	04/21/99	18:16
11	18609-2190	99-3115-8	Field Sample	3115.008	04/21/99	18:38
12	18609-2192	99-3115-10	Field Sample	3115.010	04/21/99	19:00
13	18609-2193	99-3115-11	Field Sample	3115.011	04/21/99	19:23
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75813

FORM-4A

Applied P & Ch Laboratory

Method Blank Summary for Method M8015V

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Analysis Date:	04/22/99
		Sample Matrix:	Water	Analysis Time:	18:03
Sample ID:	**99G2377-MB-01**	Batch No:	99G2377	Instrument ID:	GC: N
Lab Sample ID:	99G2377-MB-01	Data File Name:	2377G.K01	GC Column:	DB-1
		Heated Purge: (Y/N)	N	Column ID:	0.53 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	99G2377-LCS-01	99G2377-LCS-01	Lab Control Spike	2377G.L01	04/22/99	18:28
2	99G2377-LSD-01	99G2377-LSD-01	Lab Control Spike Duplicate	2377G.J01	04/22/99	18:54
3	20242-751-MS	99-3119-1MS	Matrix Spike	2377G.M01	04/22/99	19:19
4	20242-751-MSD	99-3119-1MSD	Matrix Spike Duplicate	2377G.N01	04/22/99	19:45
5	18609-2191	99-3115-9	Field Sample	3115.009	04/22/99	21:01
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23						
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25						

75814

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/21/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	
		Lab Sample ID:	99G2371-MB-01	Received Date:	04/21/1999
Sample ID:	**99G2371-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	3550	Instrument ID:	GC: W
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2371	Prep. No:	1 of 1	Anal. Time:	16:46
Data File Name:	2371G.K01	Sample Amount:	20.0 g	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/kg	10	< 10	U
2	TPH AS MOTOR OIL	TBD-0002	mg/kg	10	< 10	U

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-146	136
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75831

Applied P & Ch Laboratory

Organic Analysis Results for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Project No:	18609	Collection Date:	04/21/1999
Project ID:	DO 70 AST 155	Service ID:	993115	Collected by:	
		Lab Sample ID:	99G2374-MB-01	Received Date:	04/21/1999
Sample ID:	**99G2374-MB-01**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank	Prep. Method:	3510	Instrument ID:	GC: H
Anal. Method:	M8015E	Prep. Date:	04/21/99	Anal. Date:	04/21/99
Batch No:	99G2374	Prep. No:	1 of 1	Anal. Time:	16:39
Data File Name:	2374G.K01	Sample Amount:	1000 mL	Dilution Factor:	1
Extract Vol.	1.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	TPH AS DIESEL	68334-30-5	mg/L	0.5	<0.5	U
2	TPH AS MOTOR OIL	TBD-0002	mg/L	0.5	<0.5	U

Surrogates			Control Limit, %	Surro. Rec.%
1	OCTACOSANE, C_{28}	630-02-4	50-149	114
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

75832

FORM-2D

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Soil
		Batch No:	99G2371		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	99G2371-MB-01	99G2371-MB-01	136	0
2	99G2371-LCS-01	99G2371-LCS-01	68	0
3	99G2371-LSD-01	99G2371-LSD-01	68	0
4	18609-2190-MS	99-3115-8MS	81	0
5	18609-2190-MSD	99-3115-8MSD	75	0
6	18609-2184	99-3115-2	81	0
7	18609-2185	99-3115-3	119	0
8	18609-2186	99-3115-4	76	0
9	18609-2187	99-3115-5	80	0
10	18609-2188	99-3115-6	119	0
11	18609-2189	99-3115-7	76	0
12	18609-2190	99-3115-8	77	0
13	18609-2193	99-3115-11	96	0
14	18609-2192	99-3115-10	79	0
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

S1 = OCTACOSANE, C_{28}

QC Control Limit
50-146

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits D - Surrogate diluted out I - Matrix Interference

75848

FORM-2C

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Water
		Batch No:	99G2374		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	99G2374-MB-01	99G2374-MB-01	114	0
2	99G2374-LCS-01	99G2374-LCS-01	117	0
3	99G2374-LSD-01	99G2374-LSD-01	114	0
4	18609-2191	99-3115-9	85	0
5				
6				
7				
8				
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17				
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20				
21				
22				
23				
24				
25				

QC Control Limit

S1 = OCTACOSANE, C_{28} 50-149

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits D - Surrogate diluted out I - Matrix Interference

75849

FORM-3D

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Soil
		Batch No:	99G2371		
LCS Filename:	2371G.L01	Date Analyzed:	042199	Time Analyzed:	17:36
LCSD Filename:	2371G.J01	Date Analyzed:	042199	Time Analyzed:	18:24

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
TPH AS DIESEL	mg/kg	50	0	36.4	73	65-134
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
TPH AS DIESEL	mg/kg	50	34.3	69	6	35	65-134
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

75850

FORM-3D

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Soil
		Batch No:	99G2371		
MS Filename:	2371G.M01	Date Analyzed:	042199	Time Analyzed:	18:50
MSD Filename:	2371G.N01	Date Analyzed:	042199	Time Analyzed:	19:15
MS Sample No:	**18609-2190**	Sample Lab ID:	99-3115-8	Moisture, %	9.8

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
TPH AS DIESEL	mg/kg	55.4	0	49.2	89	65-134
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
TPH AS DIESEL	mg/kg	55.4	48.7	88	1	30	65-134
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits D - Spiked components diluted out

Comments: _____

75851

FORM-3C

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Sample Matrix:	Water
		Batch No:	99G2374		
LCS Filename:	2374G.L01	Date Analyzed:	042199	Time Analyzed:	17:29
LCSD Filename:	2374G.J01	Date Analyzed:	042199	Time Analyzed:	17:55

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
TPH AS DIESEL	mg/L	1	0	0.911	91	65-134
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
TPH AS DIESEL	mg/L	1	0.937	94	3	35	65-134
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

75852

FORM-4B

Applied P & Ch Laboratory

Method Blank Summary for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Analysis Date:	04/21/99
		Sample Matrix:	Soil	Analysis Time:	16:46
Sample ID:	**99G2371-MB-01**	Batch No:	99G2371	Instrument ID:	GC: W
Lab Sample ID:	99G2371-MB-01	Data File Name:	2371G.K01	GC Column:	DB-1
				Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	99G2371-LCS-01	99G2371-LCS-01	Lab Control Spike	2371G.L01	04/21/99	17:36
2	99G2371-LSD-01	99G2371-LSD-01	Lab Control Spike Duplicate	2371G.J01	04/21/99	18:24
3	18609-2190-MS	99-3115-8MS	Matrix Spike	2371G.M01	04/21/99	18:50
4	18609-2190-MSD	99-3115-8MSD	Matrix Spike Duplicate	2371G.N01	04/21/99	19:15
5	18609-2184	99-3115-2	Field Sample	3115.002	04/21/99	19:40
6	18609-2185	99-3115-3	Field Sample	3115.003	04/21/99	20:06
7	18609-2186	99-3115-4	Field Sample	3115.004	04/21/99	20:31
8	18609-2187	99-3115-5	Field Sample	3115.005	04/21/99	20:57
9	18609-2188	99-3115-6	Field Sample	3115.006	04/21/99	22:12
10	18609-2189	99-3115-7	Field Sample	3115.007	04/21/99	22:37
11	18609-2190	99-3115-8	Field Sample	3115.008	04/21/99	23:02
12	18609-2193	99-3115-11	Field Sample	3115.011	04/21/99	23:52
13	18609-2192	99-3115-10	Field Sample	3115.110	04/22/99	10:57
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FORM-4B

Applied P & Ch Laboratory

Method Blank Summary for Method M8015E

Client Name:	OHM Remediation Services (Irvine)	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	993115
Project ID:	DO 70 AST 155	Project No:	18609	Analysis Date:	04/21/99
		Sample Matrix:	Water	Analysis Time:	16:39
Sample ID:	**99G2374-MB-01**	Batch No:	99G2374	Instrument ID:	GC: H
Lab Sample ID:	99G2374-MB-01	Data File Name:	2374G.K01	GC Column:	DB-1
				Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	99G2374-LCS-01	99G2374-LCS-01	Lab Control Spike	2374G.L01	04/21/99	17:29
2	99G2374-LSD-01	99G2374-LSD-01	Lab Control Spike Duplicate	2374G.J01	04/21/99	17:55
3	18609-2191	99-3115-9	Field Sample	3115.009	04/21/99	18:20
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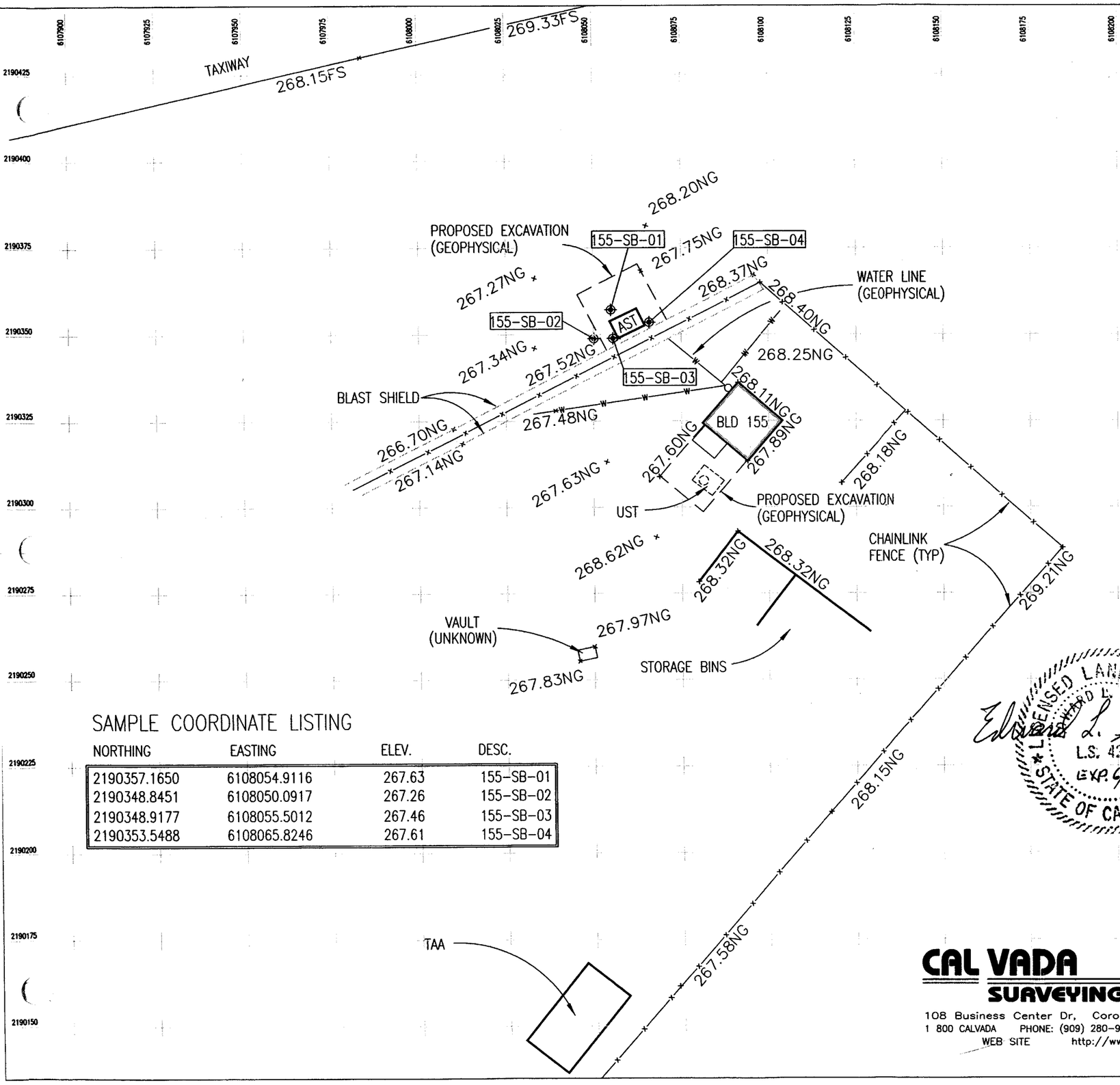
Appendix F
Land Surveying Report and Soil Sample Location

MCAS, EL TORO
UST 155/AST 155
D.0.112



SAMPLE COORDINATE LISTING

NORTHING	EASTING	ELEV.	DESC.
2190357.1650	6108054.9116	267.63	155-SB-01
2190348.8451	6108050.0917	267.26	155-SB-02
2190348.9177	6108055.5012	267.46	155-SB-03
2190353.5488	6108065.8246	267.61	155-SB-04

LICENSED LAND SURVEYOR
EDWARD L. STONE
L.S. 4240
EXP. 6/30/01
STATE OF CALIFORNIA

Graphic Scale

30 0 15 30 60

(In Feet)

1 inch = 30 ft.

LEGEND

⊕	SAMPLE POINTS
NG	NATURAL GROUND
FS	FINISH SURFACE

DATE OF SURVEY: 4-14-99

NOTE: SB-01 IS SAME AS HA-01

CAL VADA SURVEYING, INC.
108 Business Center Dr, Corona, Ca 91720
1 800 CALVADA PHONE: (909) 280-9960 FAX: (909) 280-9746
WEB SITE http://www.calvada.com

JOB NO. 97102-128

PREPARED FOR:
IT CORPORATION
3347 MICHELSON DR. SUITE 200
(949) 660-7594

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

OHM TRANSMITTAL/DELIVERABLE RECEIPT

CONTRACT N68711-93-D-1459 **DOCUMENT CONTROL NO: SW6816**

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Bozier H. Demaree, Code 02R.BD
Building 131
1220 Pacific Highway
San Diego, California 92132-5101

Date: 03-Jun-99

D.O.: 70

Location: MCAS EL TORO

FROM: Stewart Bornhoft, Program Manager

Edwin G. Bond, Contracts Manager

DESCRIPTION OF ENCLOSURE: *Tank Closure Report, Above-ground Storage Tank (AST) 155, dated June 2, 1999*

TYPE: Contract Deliverable ( ) ($) D. O. Deliverable (X) (Tech) Request for Change ( ) Other ( )

VERSION: FINAL **REVISION:** 0

ADMIN RECORD: Yes ( ) No (X) Category ( ) Confidential ( )

SCHEDULED DELIVERY DATE: 03-Jun-99 **ACTUAL DELIVERY DATE:** 03-Jun-99

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