O'BRIEN & GERE

November 14, 2007

Mr. Joseph Jones
NYSDEC Project Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Re: State Superfund Standby Contract
Work Assignment #D00490-40
New Cassel, Site No. 1-30-043A-V

File: 10653/37976 #5

Dear Mr. Jones:

This letter report summarizes the work efforts conducted at New Cassel pursuant to New York State Department of Environmental Conservation (NYSDEC) work assignment #D00490-40 and makes recommendations for indoor air sampling based on the results obtained to date. The assignment was issued by NYSDEC to O'Brien & Gere on April 14, 2006.

The objective of the work assignment was to assess whether vapor phase contaminants migrating in groundwater or in the vadose zone from the New Cassel Industrial Area (NCIA), also known as Operable Unit [Operable Unit (OU)-3], may be volatilizing and entering structures located within the Study Area (designated as OU-4; the Site). To meet this objective, soil vapor samples and indoor air samples were collected and analyzed in accordance with the Standby Contract between O'Brien and Gere and the NYSDEC dated 1999 and applicable soil vapor guidance. The Site location is shown on Figure 1 while sampling locations are shown on Figure 2.

Work was conducted in two phases. Phase 1 was conducted in August and September, 2006 and involved the installation of seventy-six soil vapor probes in OU-4 at thirty-eight locations, two depths/location. The collection of 76 soil vapor samples in Summa-type canisters was conducted concurrent with the installation of the probes.

The second phase of the fieldwork took place in September, 2007. Seven air samples, six from the W.T. Clarke High School and one ambient air sample, were collected during this phase of the investigation. The work was conducted on a day school was not in session.

Based on the sampling results obtained to date, it appears that further work, consisting of: 1) the collection of subslab, indoor, and ambient air, in the subdivision downgradient of the NCIA, and 2) evaluation of volatile organics in the vadose zone of the NCIA, is warranted. In terms of 1), a total of 17 homes in this subdivision have been selected for investigation on a preliminary basis. The addresses of these homes have been provided to NYSDEC and the NYSDOH. They were selected on the basis of their

proximity to soil vapor sample points that contained elevated levels of organics and because they have basements. As of the date of this report, the homeowners at these addresses have not been contacted. However, a letter addressing access has been prepared and approved for distribution by both the NYSDEC and the NYSDOH.

In addition, it is believed that further work to assess ambient air quality in the New Cassel area may also be desirable based on the preliminary results obtained by O'Brien & Gere. These preliminary results indicate that air quality may have impacted the indoor air results obtained from the W.T. Clarke H.S. due to the presence of volatile organics.

The remainder of this report presents background information concerning the site as well as specifics associated with the 2006 and 2007 sampling events.

Site Description:

That portion of New Cassel that is the subject of this report is located in the Towns of Hempstead and North Hempstead, Nassau County, New York. Operable Unit (OU-3) known as the "New Cassel Industrial Park Area" or NCIA, and Operable Unit (OU-4) known as the "Study Area" are within this area and are shown on Figures 2.

The NCIA (OU-3) is about 170 acres, and is bounded by the Long Island Railroad to the north, Frost Street to the east, Old Country Road to the south and Grand Island Boulevard to the southwest. The NCIA is a heavily developed industrial and commercial area. Development of this vicinity dates back to the 1950's and many of the properties have housed various businesses over the years. The topography is generally flat. A total of seventeen sites within the NCIA were listed as Class 2 sites in the New York State Registry of Inactive Hazardous Waste Disposal Sites. The listing of the 17 sites occurred between May 1995 and September 1999.

The Study Area (OU-4) is the area under investigation and is approximately 400 acres. In addition to residential single family homes, this area contains the Bowling Green Public well field and the W.T.Clarke Middle/High School. The well field and school were a focus of the investigation

Previous Investigations:

Previous investigations in this vicinity concerning off-site groundwater, are summarized in the record of decision (ROD), October 2003 for NCIA (OU-3). The ROD identifies 1,1,1-trichloroethane, tetrachloroethylene and trichloroethylene as having been released to groundwater by businesses located in OU-3.

The ROD also identifies three plumes of contaminated groundwater flowing into the Study Area (OU-4) from OU-3. The relative dimensions and locations of these plumes are shown on Figures 3 and 4. As the groundwater has not been sampled in some time (Joseph Jones, NYSDEC, personal communication 11/16/05), the extent of the plumes indicated on these Figures may not be entirely accurate. The investigation presented in this work plan has been designed in recognition of this situation.

Site Geology and Hydrology:

The site's surface is covered, primarily, by either buildings or asphalt pavement. Beneath the site are two water bearing geologic units, the Upper Glacial Aquifer and the Magothy Aquifer.

The Upper Glacial aquifer (UGA) is the uppermost hydrogeologic unit on Long Island and forms the present day land surface. Upper Pleistocene deposits of poorly sorted sand and gravel are found from the surface to a depth of 80-ft. below ground surface (bgs) in the study area. This aquifer is nearly continuous across Long Island, indicating that almost all recharge must infiltrate through the Upper Glacial aquifer to reach those aquifers below.

The Magothy aquifer is located beneath the UGA and is in direct hydraulic connection with the UGA. This aquifer consists of clay lenses in its upper portions and fine sands, silt and small amounts of clay in its lower portions. The Magothy formation is the principal source of fresh water on Long Island and because of the composition, most public water supply wells are screened in the lower regions.

In general the top of the Magothy formation is found at least 100-ft. bgs. However, according to the ROD, the Magothy is sometimes found at significantly shallower depths (60-80 ft. bgs) in the study area, in comparison to many other locations on Long Island.

Regarding the Study Area (OU-4), the depth of the water table in this locale is believed to lie between 55-65 ft. bgs with groundwater flowing in a southwesterly direction.

Phase 1 Field Activities

During the investigation, a site reconnaissance was performed, surface and subsurface utilities were marked, temporary soil gas probes were installed, soil vapor samples collected, soil vapor borings deconstructed, and a global positioning survey (GPS) performed. Field activities were conducted from August 11, 2006 through September 22, 2006. YEC, Inc. located in Valley Cottage, New York performed these activities under contract to O'Brien & Gere Engineers. Land Air Water Environmental Services, Inc. (LAWES), of Center Moriches, New York performed all drilling operations at site. O'Brien & Gere Engineers of East Syracuse, New York, collected soil vapor samples. ChemTech Environmental Consulting, Inc., of Mountainside, New Jersey, provided the sample vapor analyses. Nancy Potak, Greensboro, Vermont, conducted validation of the sample vapor analyses.

The site reconnaissance was conducted on August 11, 2006 to review the Study Area and soil vapor sampling locations planned. Representatives from O'Brien & Gere, YEC and LAWES participated in the reconnaissance. Locations originally planned for Old Country Road and Grand Blvd. were moved to side streets due to the presence of overhead lines and multiple underground utilities near the right of way of these roads. On August 25th, utilities were marked out in areas in which samples were to be taken. Additional information concerning the selection of sample locations and meetings with various town and Nassau County Officials is presented in the monthly summary reports submitted to the Department.

Soil Vapor Collection:

From August 28 through September 15, 2006, temporary soil vapor probes were installed in the Study Area (Figure 2. The probes were installed at 38 locations, 2 depths per location for a total of 76 probes. Originally the project called for probes to be installed at 3 depths per location. One at a depth of a typical building foundation (8-ft. bgs), one at approximately 25 ft. bgs and one just above the water table (typically 60 ft. bgs in the study area according to the work assignment). However, soil saturation at the time of the investigation ranged from 29 to 45 ft. bgs depending on the location. Due to the shallow depth to water, probes were installed at only 2 depths per locations, one at a depth of 8-ft. bgs and one at approximately 6-10 feet above saturation. Saturation depths were determined by periodically punching to depths of 50 feet or by measuring water levels in a nearby well. Depths to saturation or water levels were measured as follows:

Date Measured	Location	Depth below Ground Surface of Saturation/Water
8/28/06	VP-24	35-40'
8/28/06	VP-24	37'
8/28/06	VP-23	29'
9/5/06	MW-14a	45.28'
9/7/06	VP-14	31'
9/13/06	VP-33	49'

The soil vapor probes were installed using a Geoprobe© 6600. A sacrificial metal tip was fixed to the end of the push rods and advanced to a depth of 8 feet. A second probe was advanced to a depth generally around 10 feet above the water table installed at a location approximately 2-ft. from the first probe. The rods were then extracted 6 inches and inner extension rods were used to detach the point into the void space (this method was also used to check for water). A weighted tape was then sent down the hole to verify the depth. After depth verification, a 6-inch metal screen was threaded into a weight point and attached to 1/4" by 3/8" Teflon® tubing. The screen was then lowered to just above the drive point. The open end of the tubing was plugged to protect the inside. The Teflon® tubing stuck up 3"-24" above grade. The hole was backfilled with 2 feet of sand and the rods were then extracted. Ten feet of bentonite pellets, hydrated every 2 feet, were added above the sand (in the 8-foot borings, bentonite was added to grade). A temporary riser constructed of 7 inches of 2-inch PVC pipe and an end cap was fixed over the tubing for protection until the well could be sampled. Daily field reports can be found in the daily field logs in Attachment A1.

Following the installation of the soil vapor probes, the bentonite was allowed to hydrate for a minimum of two hours prior to the commencement of sampling. In most cases, the sampling did not occur on the same day as the installation of the probes. At the beginning of the sampling procedure, the protective plug placed in the end of the tubing was removed and the probe and tubing were purged using a 60 cc syringe in accordance with NYSDOH guidance (2006). Care was taken to prevent excess purging of the sampling tube. After the tubing was purged, a laboratory certified clean SUMMA type canister (one liter) and regulator were attached to the Teflon® tubing using hose clamps. The sample canister and regulator identification numbers were noted along with the sample start time and the canister negative pressure (inches mercury). Sampling was allowed to proceed until the regulator reading was between zero and five inches mercury. The regulators used were laboratory set for two hours; however, in most cases the time to reach five inches mercury was approximately three hours. At that time, the sample canister and regulator were detached and the finish time and pressure were noted. All canisters and regulators were packaged in laboratory provided boxes and shipped via UPS to ChemTech Environmental Consulting for VOC analysis by USEPA Method TO-15. Chains of Custody for the samples are included in Attachment A3

In addition to the 76 samples collected, 4 duplicate samples were collected for quality purposes at the following soil vapor probe locations: SV 18-35 ft; SV 22-8ft; SV 26-8ft. and SV 27-8 ft.

Tracer Gas Testing:

A total of 8 tracer gas tests were performed during the time of the soil vapor sampling. The purpose of the tracer tests was to determine whether the probes were properly constructed. Prior to sampling, the protective plug at the end of tubing was removed and the probe and tubing were purged using a 60 cc syringe in accordance with the NYSDOH guidance (2006).

After the tubing was purged, a laboratory certified clean SUMMA type canister (one liter) and regulator were attached to the Teflon® tubing using hose clamps. The sample canister and regulator ID number were noted along with the sample start time and the canister pressure (inches mercury). Helium was used as the tracer gas and administered according to NYSDOH guidelines. Helium was introduced into a chamber directly over the probe location prior to the sample collection. A detector was then connected to the tubing to evaluate the presence of the helium. As helium was not present, the tracer gas tests were initiated. Sampling was allowed to proceed until the regulators read between zero and five inches mercury. At that time, the sample canister and regulator were detached and the finish time and pressure were noted. All canisters and regulators were packaged in laboratory provided boxes and shipped via UPS to ChemTech Environmental Consulting for VOC analysis employing USEPA Method TO-15. Chains of Custody for samples are included in Attachment A3.

When sampling was completed, the temporary cap was extracted from the ground and the tubing was cut below grade.

GPS Survey and Map

On September 19 and 20, 2006 sample points were located using a Trimble Pro XRS ® global positioning survey instrument. The Pro XRS can achieve accuracy of ± 3' horizontally under ideal conditions. A record of these sample points is included in Attachment A2.

Analytical Results

Analytical results are provided in Table 1. Relatively low levels of organics and petroleum hydrocarbons were found in several locations. Of particular note are the sampling results related to tetrachloroethylene (PCE) ranging to approximately 2756 µ/m3 at SV-9, benzene at approximately 143 ug/m3 and 182 ug/m3 at SV-27 and SV-17, respectively; and trichloroethylene at 602 ug/m3 at SV17. Because SV-17 (shown as VP-17 on Figure 2) is located in the Industrial Park, and vapor from this location exhibited some of the higher measurements of volatile organics encountered, additional investigation of the Industrial Park may be warranted.

Laboratory Data Quality and Usability

Data Usability Summary Reports (DUSRs) are in Attachment A4. Four DUSRs, corresponding to the sample delivery groups (SDGs) for the 2006 sample analyses, are provided: SDG 4234, SDG 4317, SDG SDG 4477, and SDG 4547.

Although there were some quality deficiencies with SDG 4234, there were no significant problems with this sample delivery group that would invalidate the data or make it unusable for decision making purposes. The deficiencies associated with this group were largely confine to a slight exceedence of holding times for several of the samples, internal calibrations, and some out of range recoveries for the

matrix spike and matrix spike duplicates performed on Sample SV8-8FEET. The deficiencies are discussed in the DUSR.

The quality of the data associated with SDG 4477 improved over that of SDG 4234. All holding times were met and internal calibrations were more consistent. The deficiencies, discussed in the DUSR (Attachment A4) would not preclude using the data for decision making purposes.

The quality of SDG 4317 was similar to that of SDG 4477. Although holding times were met, there were deficiencies noted with internal calibrations, and matrix/matrix spike duplicate recoveries. However, because the recoveries were again only slightly outside accepted standards, the data are usable.

Recurrent deficiencies mention above were noted for SDG 4547, including several dilution issues. As noted in the DUSR for this SDG, however, the data quality issues associated with this SDG were not severe and the data are usable.

Phase 1 Recommendations

Based on the detections of chlorinated solvents during Phase 1, NYSDEC decided, in consultation with the NYSDOH, that additional work was warranted. This work consisted of identifying homes as potential candidates for indoor air sampling within the study area, coordination with school officials at the W.T. Clark High School for the collection of indoor air samples, and preparation of home owner access letters. These activities are discussed under the section labeled Phase 2.

Phase 2

During Phase 2 a total of 17 homes were identified as potential candidates for indoor air sampling.

LOCATION	LOT	BLOCK	SECTION	ADDRESS
VP-34	23	91	10	35 Carleton St., Westbury, NY 11590
VP-36	49	165	10	8 Barrington St., Westbury, NY 11590
Corner Westbury Dr. & Roxbury	53	1	45	926 Westbury Dr., Westbury, NY 11590
VP-29		TBD	10	9 Elton Pl., Westbury, NY 11590
VP-28	154	230	10	16 Fieldston, Westbury, NY 11590
VP-26	44	1	45	1053 Washington Ave., Westbury, NY 11590
VP-10	51	13	45	2536 Aster Pl., Westbury, NY 11590
VP-11	49	13	45	2516 Rose Pl., Westbury, NY 11590
VP-9	38	12	45	2571 Aster Pl., Westbury, NY 11590
Corner Iris Pl. & Aster Pl. N	1	224	45	1093 Iris Pl., Westbury, NY 11590
VP-8	57	13	45	2570 Aster Pl., Westbury, NY 11590
US Gov't-Community Service Area	213	D	45	Iris Pl., Westbury, NY 11590
VP-6	11	544	45	2583 Hyacinth St., Westbury, NY 11590
VP-4	20	226	45	2684 Hyacinth St., Westbury, NY 11590
VP-28	18	51	10	11 Dayton St., Westbury NY 11590
VP-10	58	13	45	2580 Aster Pl., Westbury NY 11590
South of Bowling Green Well Field	37	19	45	66 Choir Ln., Westbury, NY 11590

An access letter was prepared and sent to NYSDEC and NYSDOH for approval. The letters were not delivered since the term of O'Brien & Gere's Standby Contract with NYSDEC ended before the 2007

heating season, when indoor air sampling is usually conducted. It is anticipated that sampling will take place during the 2007-2008 heating season.

Due to the potential exposure of students to volatile organics, however, a series of first floor and basement crawl space samples were taken at the W.T. Clarke H.S. as a preliminary measure prior to the heating season. The acquisition and sample results associated with these samples are discussed below.

Phase 2 Field Activities

Six air samples were obtained at the W.T. Clarke H.S. on September 14, 2007, a date when school was not in session. Mr. Dan Pletynycki, a member of the school operations staff, was present at the time of sample collection and assisted the sample technicians in selecting the sample locations. It was determined at this time that the basement floor was sand and, therefore, no subslab samples were taken. Instead, six liter canisters were set up at the following locations:

- Location 1: Basement below the High School Technical Wing
- Location 2: Basement below the entrance to the Auditorium
- Location 3: Basement below the approximate center of the Middle School

In order to compare the basement samples to those collected on the first floor, the first floor samples were collected from immediately above the basement samples. Sample locations, including that of the ambient air sample, are shown on Figure 2.

Indoor Air Sample Collection

As noted above, three basement and three first floor indoor air samples were collected. The first floor samples were collected at a height of approximately four feet above the floor to approximate the breathing zone. The ambient air sample was collected in the outdoor common area between the Middle School and the athletic fields. The canister was attached to a fence approximately five ft above grade.

School personnel did not contact O'Brien & Gere until September 12th regarding the preferred sampling date nor did they advise O'Brien & Gere that the school would close early on September 14th. Consequently, the time of sample collection lasted for only about five hours. However, it is believed that the collected samples were representative of the school environment on the date that they were collected and, according to the laboratory, sufficient sample was collected for analysis. Sample IDs assigned in the field, start/end times, and pressures were as follows:

Sample ID	Start/End Time	Start/End Pressures (inches mercury)
Amb-1-091407	0900/1447	30/2
IA-B-1-091407	0826/1344	29/10
IA-B-1-091407	0832/1349	30/17
IA-B-3-091407	0835/1347	30/13
IA-FF-1-091407	0846/1351	30/11
IA-FF-2-091407	0850/134030/13	30/11
IA-FF-3-091407	855/1343	30/14

Prior to sampling, the areas where the canisters were placed were inspected for the presence of materials that could have interfered with the collection of representative samples, such as paints, cleaners, etc. No

samples were collected from the areas where these items were present. The sample chain-of custody is presented in Attachment B1.

Analytical Results

Analytical results are shown on Table 2. The results indicate that there are very low levels of various compounds in the indoor basement and first floor air. The importance of these compounds, however, cannot be assessed because the same or similar compounds were found in the ambient air sample. Using tetrachlorethylene an example, 2.21 µg/L was identified in the basement air sample. At the same time, 2.28 µg/L tetrachloroethylene was found in the ambient air sample obtained outside the school. The source of the tetrachloroethylene and its importance cannot be evaluated further because of the presence of potential contaminants of this type in the ambient air sample.

Laboratory Data Quality and Usability

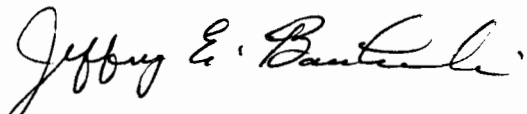
The DUSR for Phase 2 air samples is presented in Attachment B2. No significant issues were identified by the validator that would indicate a quality problem with the data. Of note is that the method blank was "clean", and that analytes in the ambient air sample cannot be attributed to the contamination of analytical equipment.

Phase 2 Recommendations

Further work to identify the ambient air quality in the vicinity of the W.T. Clarke H.S. is necessary to interpret the indoor air quality results obtained during Phase 2. In light of the presence of volatile organics in the ambient air sample, it is not possible to say at this time that the indoor air at the High School has been compromised by vapors entering the School due to volatilization from the ground water.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Jeffrey E. Banikowski, CPG
Sr. Managing Scientist

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TABLE 1

Phase 1
Analyte Summary

Table 1: New Cassel Analyte Summary

Sample ID			SV1-25FEET	SV1-8FEET	SV2-35FEET	SV2-35FEET	SV2-8FEET	SV2-8FEET	SV-3-25FEET
Sample Date			9/22/2006	9/22/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/5/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Initial	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			1	2	2	20	2	20	2
Lab Sample ID			X4683-04	X4683-03	X4477-19	X4477-19DL	X4477-18	X4477-18DL	X4317-02
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	1.69	2.35	< 2.18 U	< 21.76 U	< 2.18 U	< 21.76 U	< 2.18 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 0.69 U	1.24 J	< 1.37 U	< 13.74 U	< 1.37 U	< 13.74 U	< 1.37 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 0.76 U	1.79	< 1.53 U	< 15.3 U	< 1.53 U	< 15.3 U	< 1.53 U
1,1,2-Trichloroethane	79-00-5	1.50	< 0.54 U	< 1.09 U	< 1.09 U	< 10.88 U	< 1.09 U	< 10.88 U	< 1.09 U
1,1-Dichloroethane	75-34-3	5000.00	< 0.81 U	< 1.62 U	< 1.62 U	< 16.2 U	< 1.62 U	< 16.2 U	< 1.62 U
1,1-Dichloroethene	75-35-4	2000.00	< 0.79 U	< 1.59 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U
1,2,4-Trimethylbenzene	95-63-6	60.00	3.34	2.03	8.64	< 9.82 U	6.77	< 9.82 U	5.6
1,2-Dichloroethane	107-06-2	0.94	< 0.4 U	< 0.81 U	< 0.81 U	< 8.1 U	< 0.81 U	< 8.1 U	< 0.81 U
1,2-Dichloropropane	78-87-5	40.00	< 0.46 U	< 0.92 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U
1,2-Xylene	95-47-6	70000.00	3.42	1.4	13.8	< 8.67 U	14.7	12.1 D	1.47
1,3,5-Trimethylbenzene	108-67-8	60.00	1.47	1.24	2.94	< 9.82 U	3.14	< 9.82 U	1.57
1,3-Butadiene	106-99-0	870.00	< 0.44 U	< 0.88 U	< 0.88 U	< 8.83 U	< 0.88 U	< 8.83 U	< 0.88 U
1,4-Dioxane	123-91-1	—	< 0.72 U	< 1.44 U	< 1.44 U	< 14.4 U	< 1.44 U	< 14.4 U	< 1.44 U
1-Propene	115-07-1	---	< 0.86 U	11.8	9.34	14.8 JD	36	59.8 D	9.41
2,2,4-Trimethylpentane	540-84-1	—	1.12	2.27	2.05	< 9.33 U	4.66	< 9.33 U	< 0.93 U
2-Hexanone	591-78-6	---	0.82 J	< 1.64 U	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U	< 1.64 U
4-Ethyltoluene	622-96-8	—	1.57	1.15	4.71	< 9.82 U	6.09	< 9.82 U	2.85
4-Methyl-2-pentanone	108-10-1	800.00	1.39	< 1.64 U	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U	12.8
Acetone	67-64-1	3500.00	41.3	37.3	23.2	24.2 D	23.8	30.8 D	118 EB
Allyl chloride	107-05-1	---	< 0.63 U	< 1.26 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U
Benzene	71-43-2	3.10	2.3	2.12	8.17	7.02 D	5.04	6.38 JD	1.66
Benzyl chloride	100-44-7	0.50	< 0.58 U	< 1.15 U	< 1.15 U	< 11.53 U	< 1.15 U	< 11.53 U	< 1.15 U
Bromodichloromethane	75-27-4	1.40	< 0.67 U	< 1.34 U	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	< 1.34 U
Bromoethene	593-60-2	---	< 0.88 U	< 1.75 U	< 1.75 U	< 17.51 U	< 1.75 U	< 17.51 U	< 1.75 U
Bromoform	75-25-2	22.00	< 1.03 U	< 2.07 U	< 2.07 U	< 20.7 U	< 2.07 U	< 20.7 U	< 2.07 U
Bromomethane	74-83-9	50.00	< 0.78 U	< 1.55 U	< 1.55 U	< 15.54 U	< 1.55 U	< 15.54 U	< 1.55 U
Carbon disulfide	75-15-0	7000.00	1.99	8.78	< 1.24 U	< 12.43 U	6.71	< 12.43 U	1.49
Carbon tetrachloride	56-23-5	1.60	< 0.63 U	< 1.26 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U
Chlorobenzene	108-90-7	600.00	< 0.46 U	0.92	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U
Chloroethane	75-00-3	100000.00	< 0.53 U	< 1.06 U	< 1.06 U	< 10.63 U	< 1.06 U	< 10.63 U	< 1.06 U
Chloroform	67-66-3	1.10	0.58 J	< 1.95 U	< 1.95 U	< 19.47 U	38.2	49.6 D	12.1
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.4 U	2.79	< 0.79 U	< 7.93 U	< 0.79 U	< 7.93 U	< 0.79 U
cis-1,3-Dichloropropene	10061-01-5	---	< 0.45 U	< 0.91 U	< 0.91 U	< 9.08 U	< 0.91 U	< 9.08 U	< 0.91 U
Cyclohexane	110-82-7	---	< 0.67 U	1.99	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	< 1.34 U
Dibromochloromethane	124-48-1	1.00	< 0.85 U	< 1.7 U	< 1.7 U	< 17.01 U	< 1.7 U	< 17.01 U	< 1.7 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	0.84	1.52	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U

Table 1: New Cassel Analyte Summary

Sample ID			SV1-25FEET	SV1-8FEET	SV2-35FEET	SV2-35FEET	SV2-8FEET	SV2-8FEET	SV-3-25FEET
Sample Date			9/22/2006	9/22/2006	9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/5/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Initial	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			1	2	2	20	2	20	2
Lab Sample ID			X4683-04	X4683-03	X4477-19	X4477-19DL	X4477-18	X4477-18DL	X4317-02
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 0.6 U	1.19	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	1.5	1.95	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U
Dichlorodifluoromethane	75-71-8	2000.00	< 0.99 U	3.65	2.67	< 19.8 U	2.47	< 19.8 U	< 1.98 U
Dichlorotetrafluoroethane	76-14-2	---	< 0.7 U	< 1.4 U	< 1.4 U	< 13.99 U	< 1.4 U	< 13.99 U	< 1.4 U
Ethyl acetate	141-78-6	32000.00	15.5	19.3	633 E	566 D	522 E	554 D	110
Ethylbenzene	100-41-4	220.00	4.12	1.56	16.6	9.54 D	19.1	16.5 D	1.56
Ethylene dibromide	106-93-4	0.11	< 0.77 U	< 1.54 U	< 1.54 U	< 15.38 U	< 1.54 U	< 15.38 U	< 1.54 U
Hexachlorobutadiene	87-68-3	1.10	< 1.07 U	< 2.13 U	< 2.13 U	< 21.35 U	< 2.13 U	< 21.35 U	< 2.13 U
Isopropyl alcohol	67-63-0	—	< 0.49 U	7.55	< 0.98 U	< 9.82 U	< 0.98 U	< 9.82 U	8.25
m/p-Xylene	126777-61-2	7000.00	9.19	3.28	40.9	27.7 D	39.2	26 D	3.47
Methyl chloride	74-87-3	240.00	< 0.41 U	0.74 J	< 0.82 U	< 8.18 U	< 0.82 U	< 8.18 U	< 0.82 U
Methyl ethyl ketone	78-93-3	10000.00	5.39	3.71	< 1.18 U	< 11.78 U	< 1.18 U	< 11.78 U	9.19
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.36 U	5.12	< 0.72 U	< 7.2 U	< 0.72 U	< 7.2 U	< 0.72 U
Methylene chloride	75-09-2	520.00	< 0.7 U	6.26	1.6	< 13.91 U	< 1.39 U	< 13.91 U	1.81
Heptane	142-82-5	—	3.15	1.69	3.52	< 8.18 U	3.93	< 8.18 U	1.55
Hexane	110-54-3	2000.00	< 0.7 U	< 1.41 U	< 1.41 U	< 14.07 U	< 1.41 U	< 14.07 U	< 1.41 U
Styrene	100-42-5	10000.00	1.11	0.92	< 0.85 U	< 8.51 U	< 0.85 U	< 8.51 U	< 0.85 U
Tetrachloroethene	127-18-4	8.10	6.25	13.1	7.47	< 13.58 U	8.96	< 13.58 U	2.31
Tetrahydrofuran	109-99-9	—	0.62	< 1.18 U	< 1.18 U	< 11.78 U	< 1.18 U	< 11.78 U	< 1.18 U
Toluene	108-88-3	4000.00	48.2	22.2	85.4	60.2 D	37.5	36.1 D	8.96
trans-1,2-Dichloroethene	156-60-5	700.00	< 0.79 U	< 1.59 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U
trans-1,3-Dichloropropene	10061-02-6	---	< 0.91 U	< 1.82 U	< 1.82 U	< 18.16 U	< 1.82 U	< 18.16 U	< 1.82 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	1.78	2.93	< 1.48 U	< 14.81 U	< 1.48 U	< 14.81 U	2.67
Trichloroethene	79-01-6	0.22	0.86	2.89	< 1.07 U	< 10.72 U	< 1.07 U	< 10.72 U	1.82
Trichlorofluoromethane	75-69-4	7000.00	4.59	3.23	< 2.24 U	< 22.41 U	< 2.24 U	< 22.41 U	2.24 J
Vinyl acetate	108-05-4	2000.00	< 0.35 U	< 0.7 U	14.2	10.6 D	15.4	9.85 D	< 0.7 U
Vinyl chloride	75-01-4	2.80	< 0.51 U	< 1.02 U	< 1.02 U	< 10.22 U	< 1.02 U	< 10.22 U	< 1.02 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV-3-25FEET	SV-3-8FEET	SV-3-8FEET	SV-4-35FEET	SV-4-35FEET	SV-4-8FEET	SV-5-35FEET
Sample Date			9/5/2006	9/5/2006	9/5/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Reanalysis	Reanalysis	Initial
Dilution Factor			10	2	25	2	2	2	2
Lab Sample ID			X4317-02DL	X4317-01	X4317-01DL	X4317-04	X4317-04RE	X4317-03RE	X4317-06
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	< 10.88 U	< 2.18 U	< 27.2 U	< 2.18 U	< 2.18 U	< 2.18 U	2.5
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 6.87 U	< 1.37 U	< 17.18 U	< 1.37 U	< 1.37 U	< 1.37 U	< 1.37 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 7.65 U	< 1.53 U	< 19.12 U	< 1.53 U	< 1.53 U	< 1.53 U	< 1.53 U
1,1,2-Trichloroethane	79-00-5	1.50	< 5.44 U	< 1.09 U	< 13.6 U	< 1.09 U	< 1.09 U	< 1.09 U	< 1.09 U
1,1-Dichloroethane	75-34-3	5000.00	< 8.1 U	< 1.62 U	< 20.25 U	< 1.62 U	< 1.62 U	< 1.62 U	< 1.62 U
1,1-Dichloroethene	75-35-4	2000.00	< 7.93 U	< 1.59 U	< 19.84 U	< 1.59 U	< 1.59 U	< 1.59 U	< 1.59 U
1,2,4-Trimethylbenzene	95-63-6	60.00	< 4.91 U	15.1	< 12.27 U	36.3	41.3	39.9	28.1
1,2-Dichloroethane	107-06-2	0.94	< 4.05 U	< 0.81 U	< 10.12 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U
1,2-Dichloropropane	78-87-5	40.00	< 4.62 U	< 0.92 U	< 11.55 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U
1,2-Xylene	95-47-6	70000.00	< 4.34 U	7.72	< 10.84 U	5.64	7.54	13.5	8.24
1,3,5-Trimethylbenzene	108-67-8	60.00	< 4.91 U	4.52	< 12.27 U	13.2	16.2	9.82	11
1,3-Butadiene	106-99-0	870.00	< 4.42 U	< 0.88 U	< 11.04 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.88 U
1,4-Dioxane	123-91-1	—	< 7.2 U	< 1.44 U	< 18 U	< 1.44 U	< 1.44 U	< 1.44 U	< 1.44 U
1-Propene	115-07-1	---	14.3 D	12.3	29.6 D	< 1.72 U	< 1.72 U	< 1.72 U	< 1.72 U
2,2,4-Trimethylpentane	540-84-1	—	< 4.66 U	1.49	< 11.66 U	1.12	< 0.93 U	6.06	1.12
2-Hexanone	591-78-6	---	11.9 D	< 1.64 U	< 20.45 U	3.76	< 1.64 U	< 1.64 U	< 1.64 U
4-Ethyltoluene	622-96-8	—	< 4.91 U	4.61	< 12.27 U	10	8.64	9.03	7.36
4-Methyl-2-pentanone	108-10-1	800.00	11.5 D	11	< 20.45 U	2.94	< 1.64 U	< 1.64 U	< 1.64 U
Acetone	67-64-1	3500.00	121 DB	444 EB	498 DB	65.6 B	62 B	61.3 B	56.2 B
Allyl chloride	107-05-1	---	< 6.3 U	< 1.26 U	< 15.75 U	< 1.26 U	< 1.26 U	< 1.26 U	< 1.26 U
Benzene	71-43-2	3.10	< 3.19 U	6.38	< 7.98 U	2.68	2.93	8.42	3.57
Benzyl chloride	100-44-7	0.50	< 5.77 U	< 1.15 U	< 14.42 U	< 1.15 U	< 1.15 U	< 1.15 U	< 1.15 U
Bromodichloromethane	75-27-4	1.40	< 6.71 U	< 1.34 U	< 16.77 U	< 1.34 U	< 1.34 U	< 1.34 U	< 1.34 U
Bromoethene	593-60-2	---	< 8.75 U	< 1.75 U	< 21.88 U	< 1.75 U	< 1.75 U	< 1.75 U	< 1.75 U
Bromoform	75-25-2	22.00	< 10.35 U	< 2.07 U	< 25.87 U	< 2.07 U	< 2.07 U	< 2.07 U	< 2.07 U
Bromomethane	74-83-9	50.00	< 7.77 U	< 1.55 U	< 19.43 U	< 1.55 U	< 1.55 U	< 1.55 U	< 1.55 U
Carbon disulfide	75-15-0	7000.00	< 6.22 U	7.27	< 15.54 U	2.92	2.24	7.15	< 1.24 U
Carbon tetrachloride	56-23-5	1.60	< 6.3 U	< 1.26 U	< 15.75 U	< 1.26 U	< 1.26 U	< 1.26 U	< 1.26 U
Chlorobenzene	108-90-7	600.00	< 4.62 U	< 0.92 U	< 11.55 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U
Chloroethane	75-00-3	100000.00	< 5.32 U	< 1.06 U	< 13.29 U	< 1.06 U	< 1.06 U	< 1.06 U	< 1.06 U
Chloroform	67-66-3	1.10	14.1 D	3.21	< 24.34 U	14.1	8.66	< 1.95 U	9.83
cis-1,2-Dichloroethene	156-59-2	350.00	< 3.97 U	< 0.79 U	< 9.92 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U
cis-1,3-Dichloropropene	10061-01-5	—	< 4.54 U	< 0.91 U	< 11.35 U	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U
Cyclohexane	110-82-7	---	< 6.71 U	4.09	< 16.77 U	< 1.34 U	< 1.34 U	< 1.34 U	< 1.34 U
Dibromochloromethane	124-48-1	1.00	< 8.51 U	< 1.7 U	< 21.27 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 6.01 U	< 1.2 U	< 15.03 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U

Table 1: New Cassel Analyte Summary

Sample ID			SV-3-25FEET	SV-3-8FEET	SV-3-8FEET	SV-4-35FEET	SV-4-35FEET	SV-4-8FEET	SV-5-35FEET
Sample Date			9/5/2006	9/5/2006	9/5/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Reanalysis	Reanalysis	Initial
Dilution Factor			10	2	25	2	2	2	2
Lab Sample ID			X4317-02DL	X4317-01	X4317-01DL	X4317-04	X4317-04RE	X4317-03RE	X4317-06
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 6.01 U	< 1.2 U	< 15.03 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 6.01 U	< 1.2 U	< 15.03 U	1.44	< 1.2 U	< 1.2 U	1.44
Dichlorodifluoromethane	75-71-8	2000.00	< 9.9 U	2.18	< 24.74 U	< 1.98 U	< 1.98 U	< 1.98 U	< 1.98 U
Dichlorotetrafluoroethane	76-14-2	---	< 6.99 U	< 1.4 U	< 17.48 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U
Ethyl acetate	141-78-6	32000.00	96.5 D	118	103 D	76.2	84.9	38.9	93.2
Ethylbenzene	100-41-4	220.00	< 4.34 U	6.5	< 10.84 U	14	7.46	17.1	8.32
Ethylene dibromide	106-93-4	0.11	< 7.69 U	< 1.54 U	< 19.22 U	< 1.54 U	< 1.54 U	< 1.54 U	< 1.54 U
Hexachlorobutadiene	87-68-3	1.10	< 10.67 U	< 2.13 U	< 26.69 U	< 2.13 U	< 2.13 U	< 2.13 U	< 2.13 U
Isopropyl alcohol	67-63-0	---	9.82 D	19.2	21.5 D	11.2	20.2	< 0.98 U	20
m/p-Xylene	126777-61-2	7000.00	< 8.67 U	19.6	< 21.68 U	71.9	22.3	43.9	22.5
Methyl chloride	74-87-3	240.00	< 4.09 U	< 0.82 U	< 10.22 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U
Methyl ethyl ketone	78-93-3	10000.00	8.83 D	6.13	31.7 D	13.1	11.4	12.7	11.7
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 3.6 U	< 0.72 U	< 9 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U
Methylene chloride	75-09-2	520.00	< 6.95 U	6.88	< 17.38 U	< 1.39 U	< 1.39 U	< 1.39 U	< 1.39 U
Heptane	142-82-5	---	< 4.09 U	0.98	< 10.22 U	< 0.82 U	2.94	13.2	4.01
Hexane	110-54-3	2000.00	< 7.03 U	< 1.41 U	< 17.59 U	< 1.41 U	< 1.41 U	< 1.41 U	< 1.41 U
Styrene	100-42-5	10000.00	< 4.25 U	2.64	< 10.63 U	< 0.85 U	< 0.85 U	< 0.85 U	< 0.85 U
Tetrachloroethene	127-18-4	8.10	< 6.79 U	2.85	< 16.97 U	7.06	115	10.9 B	7.74
Tetrahydrofuran	109-99-9	---	< 5.89 U	< 1.18 U	< 14.72 U	< 1.18 U	< 1.18 U	< 1.18 U	< 1.18 U
Toluene	108-88-3	4000.00	7.9 D	27.1	21.6 D	14.8	40.8	110	44.9
trans-1,2-Dichloroethene	156-60-5	700.00	< 7.93 U	< 1.59 U	< 19.84 U	< 1.59 U	< 1.59 U	< 1.59 U	< 1.59 U
trans-1,3-Dichloropropene	10061-02-6	---	< 9.08 U	< 1.82 U	< 22.7 U	< 1.82 U	< 1.82 U	< 1.82 U	< 1.82 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 7.4 U	3.41	< 18.51 U	3.11	1.48 J	< 1.48 U	2.67
Trichloroethene	79-01-6	0.22	< 5.36 U	2.36	< 13.39 U	2.89	1.82	< 1.07 U	2.25
Trichlorofluoromethane	75-69-4	7000.00	< 11.21 U	< 2.24 U	< 28.02 U	3.14	< 2.24 U	< 2.24 U	< 2.24 U
Vinyl acetate	108-05-4	2000.00	< 3.52 U	< 0.7 U	< 8.79 U	< 0.7 U	< 0.7 U	< 0.7 U	< 0.7 U
Vinyl chloride	75-01-4	2.80	< 5.11 U	< 1.02 U	< 12.78 U	< 1.02 U	< 1.02 U	< 1.02 U	< 1.02 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV-5-35FEET	SV-5-8FEET	SV-5-8FEET	SV-6-35FEET	SV-6-35FEET	SV-6-8FEET	SV-6-8FEET
Sample Date			9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Reanalysis	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			2	2	10	2	10	2	5
Lab Sample ID			X4317-06RE	X4317-05	X4317-05DL	X4317-08	X4317-08DL	X4317-07	X4317-07DL
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	7.29	3.48	< 10.88 U	8.05	< 10.88 U	32.1	27.7 D
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 1.37 U	< 6.87 U	< 1.37 U	< 6.87 U	< 1.37 U	< 3.44 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 1.53 U	< 1.53 U	< 7.65 U	< 1.53 U	< 7.65 U	< 1.53 U	< 3.82 U
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 1.09 U	< 5.44 U	< 1.09 U	< 5.44 U	< 1.09 U	< 2.72 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 1.62 U	< 8.1 U	< 1.62 U	< 8.1 U	< 1.62 U	< 4.05 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 1.59 U	< 7.93 U	< 1.59 U	< 7.93 U	< 1.59 U	< 3.97 U
1,2,4-Trimethylbenzene	95-63-6	60.00	10.7	66.8	60.4 D	12	5.4 D	74.1	59.4 D
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 0.81 U	< 4.05 U	< 0.81 U	< 4.05 U	< 0.81 U	< 2.02 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 0.92 U	< 4.62 U	< 0.92 U	< 4.62 U	< 0.92 U	< 2.31 U
1,2-Xylene	95-47-6	70000.00	3.9	34.4	32.9 D	4.77	< 4.34 U	23.2	18.4 D
1,3,5-Trimethylbenzene	108-67-8	60.00	2.65	19	16.2 D	3.53	< 4.91 U	19.9	16.0 D
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 0.88 U	< 4.42 U	< 0.88 U	< 4.42 U	< 0.88 U	< 2.21 U
1,4-Dioxane	123-91-1	—	< 1.44 U	< 1.44 U	< 7.2 U	< 1.44 U	< 7.2 U	< 1.44 U	< 3.6 U
1-Propene	115-07-1	---	< 1.72 U	81.9 E	88.6 D	< 1.72 U	< 8.59 U	< 1.72 U	< 4.29 U
2,2,4-Trimethylpentane	540-84-1	—	2.7	49.8	49.4 D	3.26	< 4.66 U	18.3	14.7 D
2-Hexanone	591-78-6	---	< 1.64 U	< 1.64 U	< 8.18 U	3.6	< 8.18 U	< 1.64 U	< 4.09 U
4-Ethyltoluene	622-96-8	—	3.73	15.6	20.1 D	4.32	10.8 D	11.8	12.5 D
4-Methyl-2-pentanone	108-10-1	800.00	< 1.64 U	13.6	12.3 D	< 1.64 U	< 8.18 U	< 1.64 U	< 4.09 U
Acetone	67-64-1	3500.00	61 B	138 EB	147 DB	58.3 B	50.8 DB	103 EB	97.0 DB
Allyl chloride	107-05-1	---	< 1.26 U	< 1.26 U	< 6.3 U	< 1.26 U	< 6.3 U	< 1.26 U	< 3.15 U
Benzene	71-43-2	3.10	4.21	32	31.9 D	4.85	3.19 JD	14.9	12.0 D
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 1.15 U	< 5.77 U	< 1.15 U	< 5.77 U	< 1.15 U	< 2.88 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 1.34 U	< 6.71 U	< 1.34 U	< 6.71 U	< 1.34 U	< 3.35 U
Bromoethene	593-60-2	---	< 1.75 U	< 1.75 U	< 8.75 U	< 1.75 U	< 8.75 U	< 1.75 U	< 4.38 U
Bromoform	75-25-2	22.00	< 2.07 U	< 2.07 U	< 10.35 U	< 2.07 U	< 10.35 U	< 2.07 U	< 5.17 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 1.55 U	< 7.77 U	< 1.55 U	< 7.77 U	< 1.55 U	< 3.89 U
Carbon disulfide	75-15-0	7000.00	< 1.24 U	29.5	28.6 D	2.74	< 6.22 U	11.4	10.4 D
Carbon tetrachloride	56-23-5	1.60	< 1.26 U	< 1.26 U	< 6.3 U	< 1.26 U	< 6.3 U	< 1.26 U	< 3.15 U
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 0.92 U	< 4.62 U	< 0.92 U	< 4.62 U	< 0.92 U	< 2.31 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 1.06 U	< 5.32 U	< 1.06 U	< 5.32 U	< 1.06 U	< 2.66 U
Chloroform	67-66-3	1.10	< 1.95 U	5.65	< 9.73 U	1.95 J	< 9.73 U	4.09	< 4.87 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 0.79 U	< 3.97 U	< 0.79 U	< 3.97 U	< 0.79 U	< 1.98 U
cis-1,3-Dichloropropene	10061-01-5	—	< 0.91 U	< 0.91 U	< 4.54 U	< 0.91 U	< 4.54 U	< 0.91 U	< 2.27 U
Cyclohexane	110-82-7	---	< 1.34 U	< 1.34 U	< 6.71 U	< 1.34 U	< 6.71 U	< 1.34 U	< 3.35 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 1.7 U	< 8.51 U	< 1.7 U	< 8.51 U	< 1.7 U	< 4.25 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 1.2 U	< 6.01 U	< 1.2 U	< 6.01 U	< 1.2 U	< 3.01 U

Table 1: New Cassel Analyte Summary

Sample ID			SV-5-35FEET	SV-5-8FEET	SV-5-8FEET	SV-6-35FEET	SV-6-35FEET	SV-6-8FEET	SV-6-8FEET
Sample Date			9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Reanalysis	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			2	2	10	2	10	2	5
Lab Sample ID			X4317-06RE	X4317-05	X4317-05DL	X4317-08	X4317-08DL	X4317-07	X4317-07DL
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 1.2 U	< 6.01 U	< 1.2 U	< 6.01 U	< 1.2 U	< 3.01 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 1.2 U	1.56	< 6.01 U	1.8	< 6.01 U	< 1.2 U	< 3.01 U
Dichlorodifluoromethane	75-71-8	2000.00	< 1.98 U	< 1.98 U	< 9.9 U	< 1.98 U	< 9.9 U	< 1.98 U	< 4.95 U
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 1.4 U	< 6.99 U	< 1.4 U	< 6.99 U	< 1.4 U	< 3.5 U
Ethyl acetate	141-78-6	32000.00	72.8	106	96.1 D	82.3	53.6 D	119	98.8 D
Ethylbenzene	100-41-4	220.00	5.55	45.3	42.1 D	6.94	< 4.34 U	27	21.0 D
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 1.54 U	< 7.69 U	< 1.54 U	< 7.69 U	< 1.54 U	< 3.84 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 2.13 U	< 10.67 U	< 2.13 U	< 10.67 U	< 2.13 U	< 5.34 U
Isopropyl alcohol	67-63-0	—	< 0.98 U	6.33	< 4.91 U	15.9	12.3 D	6.82	7.12 D
m/p-Xylene	126777-61-2	7000.00	12.4	120	114 D	14.1	< 8.67 U	76.7	57.9 D
Methyl chloride	74-87-3	240.00	< 0.82 U	< 0.82 U	< 4.09 U	< 0.82 U	< 4.09 U	< 0.82 U	< 2.04 U
Methyl ethyl ketone	78-93-3	10000.00	10.8	12.7	13.3 D	2.77	< 5.89 U	19.4	17.8 D
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	< 0.72 U	< 3.6 U	< 0.72 U	< 3.6 U	< 0.72 U	< 1.8 U
Methylene chloride	75-09-2	520.00	< 1.39 U	< 1.39 U	< 6.95 U	< 1.39 U	< 6.95 U	< 1.39 U	< 3.48 U
Heptane	142-82-5	—	5.97	66.4	61.3 D	7.61	4.09 JD	22.5	20.9 D
Hexane	110-54-3	2000.00	< 1.41 U	72.3	67.2 D	< 1.41 U	< 7.03 U	< 1.41 U	< 3.52 U
Styrene	100-42-5	10000.00	< 0.85 U	1.45	< 4.25 U	< 0.85 U	< 4.25 U	< 0.85 U	< 2.13 U
Tetrachloroethene	127-18-4	8.10	80	13.9	14.3 DB	14.1	142 DB	73.7	99.8 DB
Tetrahydrofuran	109-99-9	—	< 1.18 U	< 1.18 U	< 5.89 U	< 1.18 U	< 5.89 U	< 1.18 U	< 2.94 U
Toluene	108-88-3	4000.00	36	301 E	281 D	38.2	22.2 D	121	90.7 D
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 1.59 U	< 7.93 U	< 1.59 U	< 7.93 U	< 1.59 U	< 3.97 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 1.82 U	< 9.08 U	< 1.82 U	< 9.08 U	< 1.82 U	< 4.54 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 1.48 U	2.96	< 7.4 U	2.81	< 7.4 U	2.07	< 3.7 U
Trichloroethene	79-01-6	0.22	3.75	2.04	< 5.36 U	4.29	< 5.36 U	3	2.68 JD
Trichlorofluoromethane	75-69-4	7000.00	< 2.24 U	2.35	< 11.21 U	3.25	< 11.21 U	2.24 J	< 5.6 U
Vinyl acetate	108-05-4	2000.00	< 0.7 U	< 0.7 U	< 3.52 U	< 0.7 U	< 3.52 U	< 0.7 U	< 1.76 U
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 1.02 U	< 5.11 U	< 1.02 U	< 5.11 U	< 1.02 U	< 2.56 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV7-23FEET	SV7-23FEET	SV7-8FEET	SV7-8FEET	SV8-25FEET	SV8-8FEET	SV8-8FEET
Sample Date			9/22/2006	9/22/2006	9/22/2006	9/22/2006	8/30/2006	8/30/2006	8/30/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Initial	Dilution
Dilution Factor			2	20	2	75	4	5	10
Lab Sample ID			X4683-06	X4683-06DL	X4683-05	X4683-05DL	X4234-14	X4234-13	X4234-13DL
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	3.05	< 21.76 U	< 2.18 U	< 81.6 U	3.26	< 5.44 U	< 5.44 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 13.74 U	< 1.37 U	< 51.53 U	< 2.75 U	< 3.44 U	< 6.87 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 1.53 U	< 15.3 U	< 1.53 U	< 57.36 U	< 3.06 U	< 3.82 U	< 7.65 U
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 10.88 U	< 1.09 U	< 40.8 U	< 2.18 U	< 2.72 U	< 5.44 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 16.2 U	< 1.62 U	< 60.74 U	< 1.62 U	< 4.05 U	< 4.05 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 15.87 U	< 1.59 U	< 59.51 U	< 1.59 U	< 3.97 U	< 3.97 U
1,2,4-Trimethylbenzene	95-63-6	60.00	1.18	< 9.82 U	23.8	58.9 D	13.9	12	19.6 D
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 8.1 U	< 0.81 U	< 30.37 U	< 1.62 U	< 2.02 U	< 4.05 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 9.24 U	< 0.92 U	< 34.66 U	< 1.85 U	< 2.31 U	< 4.62 U
1,2-Xylene	95-47-6	70000.00	0.95	< 8.67 U	21.9	48.8 D	4.34	8.67	13.9 D
1,3,5-Trimethylbenzene	108-67-8	60.00	< 0.98 U	< 9.82 U	7.66	44.2 D	5.1	3.44	9.82 D
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 8.83 U	< 0.88 U	< 33.13 U	< 0.88 U	< 2.21 U	< 2.21 U
1,4-Dioxane	123-91-1	---	< 1.44 U	< 14.4 U	< 1.44 U	< 53.99 U	< 2.88 U	< 3.6 U	< 7.2 U
1-Propene	115-07-1	---	19.2	32.3 D	86.7 E	148 D	12.8	< 4.29 U	< 1.72 U
2,2,4-Trimethylpentane	540-84-1	---	< 0.93 U	< 9.33 U	2.98	< 34.97 U	2.8	< 2.33 U	< 4.66 U
2-Hexanone	591-78-6	---	< 1.64 U	< 16.36 U	21.8	< 61.35 U	6.71	< 4.09 U	< 8.18 U
4-Ethyltoluene	622-96-8	---	< 0.98 U	< 9.82 U	9.52	< 36.81 U	10	6.63	23.6 D
4-Methyl-2-pentanone	108-10-1	800.00	< 1.64 U	< 16.36 U	2.94	< 61.35 U	3.6	< 4.09 U	< 8.18 U
Acetone	67-64-1	3500.00	354 E	496 D	622 E	1559 D	49.8 B	201	< 4.74 U
Allyl chloride	107-05-1	---	< 1.26 U	< 12.6 U	< 1.26 U	< 47.24 U	< 1.26 U	< 3.15 U	< 3.15 U
Benzene	71-43-2	3.10	1.72	< 6.38 U	19.1	45.5 D	3.45	16.1	21.7 D
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 11.53 U	< 1.15 U	< 43.25 U	< 2.31 U	< 2.88 U	< 5.77 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 13.42 U	< 1.34 U	< 50.31 U	< 2.68 U	< 3.35 U	< 6.71 U
Bromoethene	593-60-2	---	< 1.75 U	< 17.51 U	< 1.75 U	< 65.64 U	< 1.75 U	< 4.38 U	< 4.38 U
Bromoform	75-25-2	22.00	< 2.07 U	< 20.7 U	< 2.07 U	< 77.61 U	< 4.14 U	< 5.17 U	< 10.35 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 15.54 U	< 1.55 U	< 58.28 U	< 1.55 U	< 3.89 U	< 3.89 U
Carbon disulfide	75-15-0	7000.00	1.43	< 12.43 U	14.7	< 46.63 U	3.98	14.1	21.8 D
Carbon tetrachloride	56-23-5	1.60	17	< 12.6 U	7.31	52 D	3.02	< 3.15 U	< 6.3 U
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 9.24 U	< 0.92 U	< 34.66 U	< 1.85 U	< 2.31 U	< 4.62 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 10.63 U	< 1.06 U	< 39.88 U	< 1.06 U	< 2.66 U	< 2.66 U
Chloroform	67-66-3	1.10	< 1.95 U	< 19.47 U	< 1.95 U	< 73.01 U	2.53	< 4.87 U	< 4.87 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 7.93 U	< 0.79 U	< 29.75 U	< 1.59 U	< 1.98 U	< 3.97 U
cis-1,3-Dichloropropene	10061-01-5	---	< 0.91 U	< 9.08 U	< 0.91 U	< 34.05 U	< 1.82 U	< 2.27 U	< 4.54 U
Cyclohexane	110-82-7	---	< 1.34 U	< 13.42 U	2.68	< 50.31 U	3.35	< 3.35 U	< 3.35 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 17.01 U	< 1.7 U	< 63.8 U	< 3.4 U	< 4.25 U	< 8.51 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 12.02 U	< 1.2 U	< 45.09 U	2.65	< 3.01 U	< 6.01 U

Table 1: New Cassel Analyte Summary

Sample ID			SV7-23FEET	SV7-23FEET	SV7-8FEET	SV7-8FEET	SV8-25FEET	SV8-8FEET	SV8-8FEET
Sample Date			9/22/2006	9/22/2006	9/22/2006	9/22/2006	8/30/2006	8/30/2006	8/30/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Initial	Dilution
Dilution Factor			2	20	2	75	4	5	10
Lab Sample ID			X4683-06	X4683-06DL	X4683-05	X4683-05DL	X4234-14	X4234-13	X4234-13DL
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 12.02 U	< 1.2 U	< 45.09 U	< 2.4 U	< 3.01 U	< 6.01 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 1.2 U	< 12.02 U	1.8	45.1 JD	2.89	< 3.01 U	< 6.01 U
Dichlorodifluoromethane	75-71-8	2000.00	2.77	< 19.8 U	2.57	< 74.23 U	8.91	< 4.95 U	< 4.95 U
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 13.99 U	< 1.4 U	< 52.45 U	< 2.8 U	< 3.5 U	< 6.99 U
Ethyl acetate	141-78-6	32000.00	22	25.2 D	< 0.72 U	< 26.99 U	91.7	< 1.8 U	< 3.6 U
Ethylbenzene	100-41-4	220.00	1.91	< 8.67 U	19.6	45.5 D	6.59	10.8	20.4 D
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 15.38 U	< 1.54 U	< 57.67 U	< 3.08 U	< 3.84 U	< 7.69 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 21.35 U	< 2.13 U	< 80.06 U	< 4.27 U	< 5.34 U	< 10.67 U
Isopropyl alcohol	67-63-0	—	4.96	< 9.82 U	62.9	< 36.81 U	19	< 2.45 U	40.2 D
m/p-Xylene	126777-61-2	7000.00	2.6	< 17.34 U	62.4	114 D	9.36	24.7	38.2 D
Methyl chloride	74-87-3	240.00	< 0.82 U	< 8.18 U	2.25	< 30.67 U	< 0.82 U	< 2.04 U	< 2.04 U
Methyl ethyl ketone	78-93-3	10000.00	10.9	13 D	138 E	152 D	33.9	62.9	68 D
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	< 7.2 U	< 0.72 U	< 26.99 U	< 1.44 U	< 1.8 U	< 3.6 U
Methylene chloride	75-09-2	520.00	< 1.39 U	< 13.91 U	6.67	< 52.15 U	16.3	10.6	17 D
Heptane	142-82-5	—	3.11	< 8.18 U	13.3	39.9 D	5.56	17.6	27.8 D
Hexane	110-54-3	2000.00	< 1.41 U	< 14.07 U	< 1.41 U	< 52.76 U	73.9	80.2	107 D
Styrene	100-42-5	10000.00	< 0.85 U	< 8.51 U	5.36	< 31.9 U	7.49	< 2.13 U	< 4.25 U
Tetrachloroethene	127-18-4	8.10	3.12	< 13.58 U	11.5	66.2 D	10.6 B	10.9	18.3 DB
Tetrahydrofuran	109-99-9	—	< 1.18 U	< 11.78 U	< 1.18 U	< 44.17 U	< 2.36 U	< 2.94 U	< 5.89 U
Toluene	108-88-3	4000.00	65.1	80.5 D	158 E	189 D	185	474 E	339 D
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 15.87 U	< 1.59 U	< 59.51 U	< 1.59 U	< 3.97 U	< 3.97 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 18.16 U	< 1.82 U	< 68.1 U	< 1.82 U	< 4.54 U	< 4.54 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	1.92	< 14.81 U	2.96	< 55.52 U	< 2.96 U	5.55	< 7.4 U
Trichloroethene	79-01-6	0.22	< 1.07 U	< 10.72 U	1.61	44.2 D	4.29	< 2.68 U	< 5.36 U
Trichlorofluoromethane	75-69-4	7000.00	< 2.24 U	< 22.41 U	< 2.24 U	< 84.05 U	5.83	< 5.6 U	< 5.6 U
Vinyl acetate	108-05-4	2000.00	1.76	< 7.03 U	< 0.7 U	< 26.38 U	< 1.41 U	< 1.76 U	< 3.52 U
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 10.22 U	< 1.02 U	< 38.34 U	< 1.02 U	< 2.56 U	< 2.56 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV9-30FEET	SV9-30FEET	SV9-8FEET	SV9-8FEET	SV10-30FEET	SV10-30FEET	SV10-8FEET
Sample Date			9/13/2006	9/13/2006	9/13/2006	9/13/2006	8/30/2006	8/30/2006	8/30/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	20	2	20	10	72	5
Lab Sample ID			X4477-13	X4477-13DL	X4477-12	X4477-12DL	X4234-12	X4234-12DL	X4234-11
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	180	196 D	65.5	78.3 D	< 5.44 U	< 39.17 U	< 5.44 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 13.74 U	< 1.37 U	< 13.74 U	< 6.87 U	< 49.47 U	< 3.44 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	1.84	< 15.3 U	< 1.53 U	< 15.3 U	< 7.65 U	< 55.07 U	< 3.82 U
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 10.88 U	< 1.09 U	< 10.88 U	< 5.44 U	< 39.17 U	< 2.72 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 16.2 U	< 1.62 U	< 16.2 U	< 4.05 U	< 29.15 U	< 4.05 U
1,1-Dichloroethene	75-35-4	2000.00	61.6	69 D	< 1.59 U	< 15.87 U	< 3.97 U	< 28.56 U	< 3.97 U
1,2,4-Trimethylbenzene	95-63-6	60.00	< 0.98 U	< 9.82 U	< 0.98 U	< 9.82 U	46.1	102 D	82.2
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 8.1 U	< 0.81 U	< 8.1 U	< 4.05 U	< 29.15 U	< 2.02 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 4.62 U	< 33.28 U	< 2.31 U
1,2-Xylene	95-47-6	70000.00	< 0.87 U	< 8.67 U	< 0.87 U	< 8.67 U	30.3	68.7 D	14.7
1,3,5-Trimethylbenzene	108-67-8	60.00	< 0.98 U	< 9.82 U	< 0.98 U	< 9.82 U	29	56.5 D	22.6
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 8.83 U	< 0.88 U	< 8.83 U	< 2.21 U	< 15.9 U	< 2.21 U
1,4-Dioxane	123-91-1	---	< 1.44 U	< 14.4 U	< 1.44 U	< 14.4 U	< 7.2 U	< 50.39 U	< 3.6 U
1-Propene	115-07-1	---	6.6	< 17.18 U	< 1.72 U	< 17.18 U	1540 E	4058 ED	70.6
2,2,4-Trimethylpentane	540-84-1	---	< 0.93 U	< 9.33 U	< 0.93 U	< 9.33 U	13.1	83.9 D	< 2.33 U
2-Hexanone	591-78-6	---	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U	27.8	< 57.26 U	< 4.09 U
4-Ethyltoluene	622-96-8	---	< 0.98 U	< 9.82 U	< 0.98 U	< 9.82 U	31.4	163 D	17.9
4-Methyl-2-pentanone	108-10-1	800.00	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U	17.2	< 57.26 U	4.29
Acetone	67-64-1	3500.00	11.8	13.8 D	10.7	14.7 D	343 B	< 33.21 U	101
Allyl chloride	107-05-1	---	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 3.15 U	< 22.67 U	< 3.15 U
Benzene	71-43-2	3.10	5.61	< 6.38 U	5.93	7.02 D	34.8	85 D	8.29
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 11.53 U	< 1.15 U	< 11.53 U	< 5.77 U	< 41.52 U	< 2.88 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	< 6.71 U	< 48.29 U	< 3.35 U
Bromoethene	593-60-2	---	< 1.75 U	< 17.51 U	< 1.75 U	< 17.51 U	< 4.38 U	< 31.51 U	< 4.38 U
Bromoform	75-25-2	22.00	< 2.07 U	< 20.7 U	< 2.07 U	< 20.7 U	< 10.35 U	< 74.5 U	< 5.17 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 15.54 U	< 1.55 U	< 15.54 U	< 3.89 U	< 27.98 U	< 3.89 U
Carbon disulfide	75-15-0	7000.00	3.11	< 12.43 U	3.61	< 12.43 U	17.4	60.4 D	17.4
Carbon tetrachloride	56-23-5	1.60	1.64	< 12.6 U	< 1.26 U	< 12.6 U	< 6.3 U	< 45.35 U	< 3.15 U
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 4.62 U	< 33.28 U	< 2.31 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 10.63 U	< 1.06 U	< 10.63 U	< 2.66 U	< 19.14 U	< 2.66 U
Chloroform	67-66-3	1.10	< 1.95 U	< 19.47 U	< 1.95 U	< 19.47 U	20.9	52.6 D	< 4.87 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 7.93 U	< 0.79 U	< 7.93 U	< 3.97 U	< 28.56 U	< 1.98 U
cis-1,3-Dichloropropene	10061-01-5	---	< 0.91 U	< 9.08 U	< 0.91 U	< 9.08 U	< 4.54 U	< 32.69 U	< 2.27 U
Cyclohexane	110-82-7	---	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	40.9	77.3 D	< 3.35 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 17.01 U	< 1.7 U	< 17.01 U	< 8.51 U	< 61.25 U	< 4.25 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 6.01 U	< 43.29 U	< 3.01 U

Table 1: New Cassel Analyte Summary

Sample ID			SV9-30FEET	SV9-30FEET	SV9-8FEET	SV9-8FEET	SV10-30FEET	SV10-30FEET	SV10-8FEET
Sample Date			9/13/2006	9/13/2006	9/13/2006	9/13/2006	8/30/2006	8/30/2006	8/30/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	20	2	20	10	72	5
Lab Sample ID			X4477-13	X4477-13DL	X4477-12	X4477-12DL	X4234-12	X4234-12DL	X4234-11
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 6.01 U	< 43.29 U	< 3.01 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	36.7	< 43.29 U	< 3.01 U
Dichlorodifluoromethane	75-71-8	2000.00	< 1.98 U	< 19.8 U	2.18	< 19.8 U	6.93	71.3 D	< 4.95 U
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 13.99 U	< 1.4 U	< 13.99 U	< 6.99 U	< 50.36 U	< 3.5 U
Ethyl acetate	141-78-6	32000.00	462 E	425 D	660 E	803 D	< 3.6 U	< 25.91 U	< 1.8 U
Ethylbenzene	100-41-4	220.00	1.3	< 8.67 U	0.87 J	< 8.67 U	33.8	112 D	10.6
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 15.38 U	< 1.54 U	< 15.38 U	< 7.69 U	< 55.36 U	< 3.84 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 21.35 U	< 2.13 U	< 21.35 U	36.3 B	84.5 D	< 5.34 U
Isopropyl alcohol	67-63-0	—	< 0.98 U	< 9.82 U	< 0.98 U	< 9.82 U	< 4.91 U	604 D	25.6
m/p-Xylene	126777-61-2	7000.00	1.47 J	< 17.34 U	< 1.73 U	< 17.34 U	78.5	106 D	31.6
Methyl chloride	74-87-3	240.00	< 0.82 U	< 8.18 U	< 0.82 U	< 8.18 U	< 2.04 U	< 14.72 U	< 2.04 U
Methyl ethyl ketone	78-93-3	10000.00	< 1.18 U	< 11.78 U	< 1.18 U	< 11.78 U	109	67.8 D	114
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	< 7.2 U	< 0.72 U	< 7.2 U	< 3.6 U	< 25.91 U	< 1.8 U
Methylene chloride	75-09-2	520.00	< 1.39 U	< 13.91 U	< 1.39 U	< 13.91 U	< 6.95 U	< 48.67 U	< 3.48 U
Heptane	142-82-5	—	0.9	< 8.18 U	< 0.82 U	< 8.18 U	110	165 D	12.3
Hexane	110-54-3	2000.00	< 1.41 U	< 14.07 U	< 1.41 U	< 14.07 U	236	215 D	97.3
Styrene	100-42-5	10000.00	< 0.85 U	< 8.51 U	< 0.85 U	< 8.51 U	26.8	129 D	2.34
Tetrachloroethene	127-18-4	8.10	1407 E	1086 D	2756 E	2402 D	11.5	78.2 DB	22.1
Tetrahydrofuran	109-99-9	—	< 1.18 U	< 11.78 U	< 1.18 U	< 11.78 U	< 5.89 U	< 41.23 U	2.94 J
Toluene	108-88-3	4000.00	27.9	20.3 D	20.6	16.6 D	375	377 D	287
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 3.97 U	< 28.56 U	< 3.97 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 18.16 U	< 1.82 U	< 18.16 U	< 4.54 U	< 32.69 U	< 4.54 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 1.48 U	< 14.81 U	< 1.48 U	< 14.81 U	59.2	< 53.3 U	6.66
Trichloroethene	79-01-6	0.22	44.4	43.9 D	< 1.07 U	< 10.72 U	< 5.36 U	57.9 D	< 2.68 U
Trichlorofluoromethane	75-69-4	7000.00	< 2.24 U	< 22.41 U	< 2.24 U	< 22.41 U	6.16	< 40.34 U	< 5.6 U
Vinyl acetate	108-05-4	2000.00	8.72	7.74 D	11.5	10.6 D	< 3.52 U	< 25.33 U	< 1.76 U
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 10.22 U	< 1.02 U	< 10.22 U	< 2.56 U	33.1 D	< 2.56 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV11-35FEET	SV11-35FEET	SV11-8FEET	SV11-8FEET	SV12-25FEET	SV12-25FEET	SV12-8FEET
Sample Date			9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/12/2006	9/12/2006	9/12/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	20	2	20	2	66	2
Lab Sample ID			X4477-15	X4477-15DL	X4477-14	X4477-14DL	X4477-06	X4477-06DL	X4477-05
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	12.7	< 21.76 U	16.6	< 21.76 U	3.16	< 70.72 U	4.13
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 13.74 U	< 1.37 U	< 13.74 U	< 1.37 U	< 45.35 U	< 1.37 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 1.53 U	< 15.3 U	< 1.53 U	< 15.3 U	3.37	< 50.48 U	< 1.53 U
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 10.88 U	< 1.09 U	< 10.88 U	< 1.09 U	< 35.9 U	< 1.09 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 16.2 U	< 1.62 U	< 16.2 U	< 1.62 U	< 52.64 U	< 1.62 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 51.57 U	< 1.59 U
1,2,4-Trimethylbenzene	95-63-6	60.00	1.67	< 9.82 U	7.95	< 9.82 U	< 0.98 U	< 32.39 U	1.47
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 8.1 U	< 0.81 U	< 8.1 U	< 0.81 U	< 26.72 U	< 0.81 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	< 30.5 U	< 0.92 U
1,2-Xylene	95-47-6	70000.00	1.04	< 8.67 U	< 0.87 U	< 8.67 U	0.87 J	< 28.61 U	1.3
1,3,5-Trimethylbenzene	108-67-8	60.00	< 0.98 U	< 9.82 U	2.75	< 9.82 U	< 0.98 U	< 32.39 U	< 0.98 U
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 8.83 U	< 0.88 U	< 8.83 U	< 0.88 U	< 28.71 U	< 0.88 U
1,4-Dioxane	123-91-1	---	< 1.44 U	< 14.4 U	< 1.44 U	< 14.4 U	< 1.44 U	< 46.79 U	< 1.44 U
1-Propene	115-07-1	---	< 1.72 U	< 17.18 U	8.69	18.2 D	< 1.72 U	< 56.69 U	< 1.72 U
2,2,4-Trimethylpentane	540-84-1	---	< 0.93 U	< 9.33 U	< 0.93 U	< 9.33 U	1.49	< 30.77 U	1.4
2-Hexanone	591-78-6	---	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U	< 1.64 U	< 53.17 U	< 1.64 U
4-Ethyltoluene	622-96-8	---	2.36	< 9.82 U	3.73	< 9.82 U	< 0.98 U	< 32.39 U	4.22
4-Methyl-2-pentanone	108-10-1	800.00	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U	< 1.64 U	< 53.17 U	< 1.64 U
Acetone	67-64-1	3500.00	18.6	19 D	16	18.5 D	79 B	83 DB	111 EB
Allyl chloride	107-05-1	---	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U	< 40.94 U	< 1.26 U
Benzene	71-43-2	3.10	3.13	< 6.38 U	4.34	< 6.38 U	12.9	< 21.06 U	31.3
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 11.53 U	< 1.15 U	< 11.53 U	< 1.15 U	< 38.06 U	< 1.15 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	< 1.34 U	< 44.27 U	< 1.34 U
Bromoethene	593-60-2	---	< 1.75 U	< 17.51 U	< 1.75 U	< 17.51 U	< 1.75 U	< 56.89 U	< 1.75 U
Bromoform	75-25-2	22.00	< 2.07 U	< 20.7 U	< 2.07 U	< 20.7 U	< 2.07 U	< 68.29 U	< 2.07 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 15.54 U	< 1.55 U	< 15.54 U	< 1.55 U	< 50.51 U	< 1.55 U
Carbon disulfide	75-15-0	7000.00	1.62	< 12.43 U	14.5	18 D	11.6	< 40.41 U	3.79
Carbon tetrachloride	56-23-5	1.60	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	1.39	< 41.57 U	1.39
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	< 30.5 U	< 0.92 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 10.63 U	< 1.06 U	< 10.63 U	< 1.06 U	< 34.56 U	< 1.06 U
Chloroform	67-66-3	1.10	2.24	< 19.47 U	2.73	< 19.47 U	< 1.95 U	< 63.27 U	< 1.95 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 7.93 U	< 0.79 U	< 7.93 U	< 0.79 U	< 26.18 U	< 0.79 U
cis-1,3-Dichloropropene	10061-01-5	---	< 0.91 U	< 9.08 U	< 0.91 U	< 9.08 U	< 0.91 U	< 29.96 U	< 0.91 U
Cyclohexane	110-82-7	---	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	< 1.34 U	< 43.6 U	< 1.34 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 17.01 U	< 1.7 U	< 17.01 U	< 1.7 U	< 56.15 U	< 1.7 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 39.68 U	< 1.2 U

Table 1: New Cassel Analyte Summary

Sample ID			SV11-35FEET	SV11-35FEET	SV11-8FEET	SV11-8FEET	SV12-25FEET	SV12-25FEET	SV12-8FEET
Sample Date			9/13/2006	9/13/2006	9/13/2006	9/13/2006	9/12/2006	9/12/2006	9/12/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	20	2	20	2	66	2
Lab Sample ID			X4477-15	X4477-15DL	X4477-14	X4477-14DL	X4477-06	X4477-06DL	X4477-05
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 39.68 U	< 1.2 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	1.56	< 39.68 U	2.4
Dichlorodifluoromethane	75-71-8	2000.00	< 1.98 U	< 19.8 U	2.08	< 19.8 U	< 1.98 U	< 64.34 U	< 1.98 U
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 13.99 U	< 1.4 U	< 13.99 U	< 1.4 U	< 46.16 U	< 1.4 U
Ethyl acetate	141-78-6	32000.00	272 E	218 D	547 E	507 D	999 E	1527 D	1132 E
Ethylbenzene	100-41-4	220.00	1.3	< 8.67 U	2.51	20.8 D	1.47	< 28.61 U	1.73
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 15.38 U	< 1.54 U	< 15.38 U	< 1.54 U	< 50.75 U	< 1.54 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 21.35 U	< 2.13 U	< 21.35 U	< 2.13 U	< 70.45 U	< 2.13 U
Isopropyl alcohol	67-63-0	—	< 0.98 U	< 9.82 U	2.01	< 9.82 U	2.94	< 31.9 U	< 0.98 U
m/p-Xylene	126777-61-2	7000.00	2.08	< 17.34 U	18.8	12.1 JD	2.17	< 56.36 U	3.29
Methyl chloride	74-87-3	240.00	< 0.82 U	< 8.18 U	< 0.82 U	< 8.18 U	< 0.82 U	< 26.58 U	< 0.82 U
Methyl ethyl ketone	78-93-3	10000.00	< 1.18 U	< 11.78 U	< 1.18 U	< 11.78 U	< 1.18 U	< 38.28 U	< 1.18 U
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	< 7.2 U	< 0.72 U	< 7.2 U	< 0.72 U	< 23.75 U	< 0.72 U
Methylene chloride	75-09-2	520.00	< 1.39 U	< 13.91 U	1.46	< 13.91 U	< 1.39 U	< 45.19 U	< 1.39 U
Heptane	142-82-5	—	2.04	< 8.18 U	< 0.82 U	< 8.18 U	1.64	< 26.99 U	2.62
Hexane	110-54-3	2000.00	< 1.41 U	< 14.07 U	< 1.41 U	< 14.07 U	< 1.41 U	< 45.73 U	< 1.41 U
Styrene	100-42-5	10000.00	< 0.85 U	< 8.51 U	< 0.85 U	< 8.51 U	< 0.85 U	< 28.07 U	< 0.85 U
Tetrachloroethene	127-18-4	8.10	38.8	36.7 D	70.7	70.6 D	9.23 B	< 44.81 U	11.1 B
Tetrahydrofuran	109-99-9	—	< 1.18 U	< 11.78 U	< 1.18 U	< 11.78 U	< 1.18 U	< 38.28 U	< 1.18 U
Toluene	108-88-3	4000.00	25.5	16.6 D	9.26	8.28 D	74.5	42.2 D	35.1
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 51.57 U	< 1.59 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 18.16 U	< 1.82 U	< 18.16 U	< 1.82 U	< 59.02 U	< 1.82 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 1.48 U	< 14.81 U	< 1.48 U	< 14.81 U	2.07	< 48.86 U	2.22
Trichloroethene	79-01-6	0.22	< 1.07 U	< 10.72 U	1.29	< 10.72 U	2.14	< 35.36 U	1.18
Trichlorofluoromethane	75-69-4	7000.00	< 2.24 U	< 22.41 U	< 2.24 U	< 22.41 U	3.59	< 72.84 U	< 2.24 U
Vinyl acetate	108-05-4	2000.00	5.77	< 7.03 U	9.5	7.74 D	45.7	< 23.21 U	90.3
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 10.22 U	< 1.02 U	< 10.22 U	< 1.02 U	< 33.23 U	< 1.02 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV12-8FEET	SV13-21FEET	SV13-21FEET	SV13-8FEET	SV13-8FEET	SV14-25FEET	SV14-25FEET
Sample Date			9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			70	2	70	2	73	2	74
Lab Sample ID			X4477-05DL	X4477-02	X4477-02DL	X4477-01	X4477-01DL	X4477-04	X4477-04DL
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	< 76.16 U	2.72	< 76.16 U	2.83	< 81.6 U	2.39	< 81.6 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 48.1 U	< 1.37 U	< 48.1 U	< 1.37 U	< 50.16 U	< 1.37 U	< 50.85 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 53.54 U	< 1.53 U	< 53.54 U	< 1.53 U	< 55.83 U	< 1.53 U	< 56.6 U
1,1,2-Trichloroethane	79-00-5	1.50	< 38.08 U	< 1.09 U	< 38.08 U	< 1.09 U	< 39.71 U	< 1.09 U	< 40.25 U
1,1-Dichloroethane	75-34-3	5000.00	< 56.69 U	< 1.62 U	< 56.69 U	< 1.62 U	< 60.74 U	< 1.62 U	< 60.74 U
1,1-Dichloroethene	75-35-4	2000.00	< 55.54 U	< 1.59 U	< 55.54 U	< 1.59 U	< 59.51 U	< 1.59 U	< 59.51 U
1,2,4-Trimethylbenzene	95-63-6	60.00	< 34.36 U	< 0.98 U	< 34.36 U	9.42	60.9 D	1.77	< 36.32 U
1,2-Dichloroethane	107-06-2	0.94	< 28.34 U	< 0.81 U	< 28.34 U	< 0.81 U	< 29.56 U	< 0.81 U	< 29.96 U
1,2-Dichloropropane	78-87-5	40.00	< 32.35 U	< 0.92 U	< 32.35 U	< 0.92 U	< 33.74 U	< 0.92 U	< 34.2 U
1,2-Xylene	95-47-6	70000.00	< 30.35 U	< 0.87 U	< 30.35 U	1.39	< 31.65 U	1.56	< 32.08 U
1,3,5-Trimethylbenzene	108-67-8	60.00	< 34.36 U	< 0.98 U	< 34.36 U	3.34	< 35.83 U	< 0.98 U	< 36.32 U
1,3-Butadiene	106-99-0	870.00	< 30.92 U	< 0.88 U	< 30.92 U	< 0.88 U	< 33.13 U	< 0.88 U	< 33.13 U
1,4-Dioxane	123-91-1	—	< 50.39 U	< 1.44 U	< 50.39 U	< 1.44 U	< 53.99 U	< 1.44 U	< 53.99 U
1-Propene	115-07-1	---	< 60.12 U	< 1.72 U	< 60.12 U	< 1.72 U	< 61.84 U	< 1.72 U	< 63.56 U
2,2,4-Trimethylpentane	540-84-1	—	< 32.64 U	< 0.93 U	< 32.64 U	1.21	< 34.04 U	1.03	< 34.5 U
2-Hexanone	591-78-6	---	< 57.26 U	< 1.64 U	< 57.26 U	< 1.64 U	< 61.35 U	< 1.64 U	< 61.35 U
4-Ethyltoluene	622-96-8	—	< 34.36 U	4.02	< 34.36 U	5.6	< 35.83 U	4.22	< 36.32 U
4-Methyl-2-pentanone	108-10-1	800.00	< 57.26 U	< 1.64 U	< 57.26 U	< 1.64 U	< 61.35 U	< 1.64 U	< 61.35 U
Acetone	67-64-1	3500.00	94.7 DB	81.6 B	84.7 D	32.2 B	64.1 D	53.4 B	59.7 D
Allyl chloride	107-05-1	---	< 44.09 U	< 1.26 U	< 44.09 U	< 1.26 U	< 47.24 U	< 1.26 U	< 47.24 U
Benzene	71-43-2	3.10	22.3 JD	15.1	< 22.33 U	16.7	27.9 D	20.2	< 23.61 U
Benzyl chloride	100-44-7	0.50	< 40.37 U	< 1.15 U	< 40.37 U	< 1.15 U	< 42.1 U	< 1.15 U	< 42.67 U
Bromodichloromethane	75-27-4	1.40	< 46.95 U	< 1.34 U	< 46.95 U	< 1.34 U	< 48.97 U	< 1.34 U	< 49.64 U
Bromoethene	593-60-2	---	< 61.27 U	< 1.75 U	< 61.27 U	< 1.75 U	< 65.64 U	< 1.75 U	< 65.64 U
Bromoform	75-25-2	22.00	< 72.43 U	< 2.07 U	< 72.43 U	< 2.07 U	< 75.54 U	< 2.07 U	< 76.57 U
Bromomethane	74-83-9	50.00	< 54.4 U	< 1.55 U	< 54.4 U	< 1.55 U	< 58.28 U	< 1.55 U	< 58.28 U
Carbon disulfide	75-15-0	7000.00	< 43.52 U	5.47	< 43.52 U	8.14	< 46.63 U	< 1.24 U	< 46.63 U
Carbon tetrachloride	56-23-5	1.60	< 44.09 U	< 1.26 U	< 44.09 U	< 1.26 U	< 45.98 U	1.26 J	< 46.61 U
Chlorobenzene	108-90-7	600.00	< 32.35 U	< 0.92 U	< 32.35 U	< 0.92 U	< 33.74 U	< 0.92 U	< 34.2 U
Chloroethane	75-00-3	100000.00	< 37.22 U	< 1.06 U	< 37.22 U	< 1.06 U	< 39.88 U	< 1.06 U	< 39.88 U
Chloroform	67-66-3	1.10	< 68.14 U	8.76	< 68.14 U	4.09	< 73.01 U	< 1.95 U	< 73.01 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 27.77 U	< 0.79 U	< 27.77 U	< 0.79 U	< 28.96 U	< 0.79 U	< 29.36 U
cis-1,3-Dichloropropene	10061-01-5	—	< 31.78 U	< 0.91 U	< 31.78 U	< 0.91 U	< 33.14 U	< 0.91 U	< 33.6 U
Cyclohexane	110-82-7	---	< 46.95 U	< 1.34 U	< 46.95 U	< 1.34 U	< 50.31 U	< 1.34 U	< 50.31 U
Dibromochloromethane	124-48-1	1.00	< 59.55 U	< 1.7 U	< 59.55 U	< 1.7 U	< 62.1 U	< 1.7 U	< 62.95 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 42.09 U	< 1.2 U	< 42.09 U	< 1.2 U	< 43.89 U	< 1.2 U	< 44.49 U

Table 1: New Cassel Analyte Summary

Sample ID			SV12-8FEET	SV13-21FEET	SV13-21FEET	SV13-8FEET	SV13-8FEET	SV14-25FEET	SV14-25FEET
Sample Date			9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			70	2	70	2	73	2	74
Lab Sample ID			X4477-05DL	X4477-02	X4477-02DL	X4477-01	X4477-01DL	X4477-04	X4477-04DL
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 42.09 U	< 1.2 U	< 42.09 U	< 1.2 U	< 43.89 U	< 1.2 U	< 44.49 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 42.09 U	2.28	< 42.09 U	2.16	< 43.89 U	3.37	< 44.49 U
Dichlorodifluoromethane	75-71-8	2000.00	< 69.28 U	< 1.98 U	< 69.28 U	3.37	< 74.23 U	< 1.98 U	< 74.23 U
Dichlorotetrafluoroethane	76-14-2	---	< 48.96 U	< 1.4 U	< 48.96 U	< 1.4 U	< 51.06 U	< 1.4 U	< 51.75 U
Ethyl acetate	141-78-6	32000.00	2802 D	838 E	1423 D	815 E	2412 D	1017 E	2216 D
Ethylbenzene	100-41-4	220.00	< 30.35 U	1.3	< 30.35 U	3.9	< 31.65 U	1.39	< 32.08 U
Ethylene dibromide	106-93-4	0.11	< 53.82 U	< 1.54 U	< 53.82 U	< 1.54 U	< 56.13 U	< 1.54 U	< 56.9 U
Hexachlorobutadiene	87-68-3	1.10	< 74.72 U	< 2.13 U	< 74.72 U	< 2.13 U	< 77.93 U	< 2.13 U	< 78.99 U
Isopropyl alcohol	67-63-0	—	< 34.36 U	< 0.98 U	< 34.36 U	< 0.98 U	< 36.81 U	14.5	< 36.81 U
m/p-Xylene	126777-61-2	7000.00	< 60.7 U	1.91	< 60.7 U	26.5	171 D	3.47	< 65.03 U
Methyl chloride	74-87-3	240.00	< 28.63 U	< 0.82 U	< 28.63 U	< 0.82 U	< 30.67 U	< 0.82 U	< 30.67 U
Methyl ethyl ketone	78-93-3	10000.00	< 41.23 U	< 1.18 U	< 41.23 U	< 1.18 U	< 44.17 U	< 1.18 U	< 44.17 U
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 25.19 U	< 0.72 U	< 25.19 U	< 0.72 U	< 26.27 U	< 0.72 U	< 26.63 U
Methylene chloride	75-09-2	520.00	< 48.67 U	< 1.39 U	< 48.67 U	< 1.39 U	< 52.15 U	< 1.39 U	< 52.15 U
Heptane	142-82-5	—	< 28.63 U	1.06	< 28.63 U	< 0.82 U	< 29.86 U	1.31	< 30.27 U
Hexane	110-54-3	2000.00	< 49.24 U	< 1.41 U	< 49.24 U	< 1.41 U	< 52.76 U	< 1.41 U	< 52.76 U
Styrene	100-42-5	10000.00	< 29.78 U	3.4	< 29.78 U	3.4	< 31.05 U	< 0.85 U	< 31.48 U
Tetrachloroethene	127-18-4	8.10	< 47.53 U	10 B	< 47.53 U	13.7 B	< 49.56 U	35.6 B	< 50.24 U
Tetrahydrofuran	109-99-9	—	< 41.23 U	< 1.18 U	< 41.23 U	< 1.18 U	< 44.17 U	< 1.18 U	< 44.17 U
Toluene	108-88-3	4000.00	< 26.34 U	20.9	< 26.34 U	22.7	< 27.47 U	26.6	< 27.84 U
trans-1,2-Dichloroethene	156-60-5	700.00	< 55.54 U	< 1.59 U	< 55.54 U	< 1.59 U	< 59.51 U	< 1.59 U	< 59.51 U
trans-1,3-Dichloropropene	10061-02-6	---	< 63.56 U	< 1.82 U	< 63.56 U	< 1.82 U	< 68.1 U	< 1.82 U	< 68.1 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 51.82 U	< 1.48 U	< 51.82 U	2.52	< 54.04 U	1.92	< 54.78 U
Trichloroethene	79-01-6	0.22	< 37.51 U	< 1.07 U	< 37.51 U	1.07 J	< 39.11 U	1.39	< 39.65 U
Trichlorofluoromethane	75-69-4	7000.00	< 78.45 U	2.69	< 78.45 U	2.24 J	< 84.05 U	2.8	< 84.05 U
Vinyl acetate	108-05-4	2000.00	< 24.62 U	40	< 24.62 U	35.8	38.5 D	49.7	28.6 D
Vinyl chloride	75-01-4	2.80	< 35.79 U	< 1.02 U	< 35.79 U	< 1.02 U	< 38.34 U	< 1.02 U	< 38.34 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV14-8FEET	SV14-8FEET	SV15-35FEET	SV15-35FEET	SV15-8FEET	SV15-8FEET	SV16-35FEET
Sample Date			9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/13/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	75	2	58	2	68	2
Lab Sample ID			X4477-03	X4477-03DL	X4477-08	X4477-08DL	X4477-07	X4477-07DL	X4477-17
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	3.81	< 81.6 U	7.94	< 65.28 U	8.7	< 76.16 U	2.39
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 51.53 U	< 1.37 U	< 39.85 U	< 1.37 U	< 46.72 U	< 1.37 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 1.53 U	< 57.36 U	2.91	< 44.36 U	2.91	< 52.01 U	< 1.53 U
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 40.8 U	< 1.09 U	< 31.55 U	< 1.09 U	< 36.99 U	< 1.09 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 60.74 U	< 1.62 U	< 48.59 U	< 1.62 U	< 56.69 U	< 1.62 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 59.51 U	< 1.59 U	< 47.61 U	< 1.59 U	< 55.54 U	< 1.59 U
1,2,4-Trimethylbenzene	95-63-6	60.00	0.98 J	< 36.81 U	4.61	< 28.47 U	28.9	< 33.37 U	1.77
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 30.37 U	< 0.81 U	< 23.48 U	< 0.81 U	< 27.53 U	< 0.81 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 34.66 U	< 0.92 U	< 26.81 U	< 0.92 U	< 31.43 U	< 0.92 U
1,2-Xylene	95-47-6	70000.00	0.87 J	< 32.52 U	6.33	< 25.15 U	17.3	< 29.48 U	1.04
1,3,5-Trimethylbenzene	108-67-8	60.00	< 0.98 U	< 36.81 U	2.06	< 28.47 U	8.74	< 33.37 U	< 0.98 U
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 33.13 U	< 0.88 U	< 26.5 U	< 0.88 U	< 30.92 U	< 0.88 U
1,4-Dioxane	123-91-1	—	< 1.44 U	< 53.99 U	< 1.44 U	< 43.19 U	< 1.44 U	< 50.39 U	< 1.44 U
1-Propene	115-07-1	---	< 1.72 U	< 65.28 U	< 1.72 U	< 49.82 U	< 1.72 U	< 58.4 U	< 1.72 U
2,2,4-Trimethylpentane	540-84-1	—	1.03	< 34.97 U	3.26	< 27.04 U	14.7	< 31.71 U	< 0.93 U
2-Hexanone	591-78-6	---	< 1.64 U	< 61.35 U	< 1.64 U	< 49.08 U	< 1.64 U	< 57.26 U	< 1.64 U
4-Ethyltoluene	622-96-8	—	< 0.98 U	< 36.81 U	5.01	< 28.47 U	9.62	< 33.37 U	2.45
4-Methyl-2-pentanone	108-10-1	800.00	< 1.64 U	< 61.35 U	< 1.64 U	< 49.08 U	< 1.64 U	< 57.26 U	< 1.64 U
Acetone	67-64-1	3500.00	26.8 B	< 35.58 U	78.7 B	63.3 DB	64.4 B	77.4 DB	11.8
Allyl chloride	107-05-1	---	< 1.26 U	< 47.24 U	< 1.26 U	< 37.79 U	< 1.26 U	< 44.09 U	< 1.26 U
Benzene	71-43-2	3.10	18.2	< 23.93 U	19.1	< 18.5 U	20.1	< 21.69 U	5.04
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 43.25 U	< 1.15 U	< 33.45 U	< 1.15 U	< 39.21 U	< 1.15 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 50.31 U	< 1.34 U	< 38.9 U	< 1.34 U	< 45.61 U	< 1.34 U
Bromoethene	593-60-2	---	< 1.75 U	< 65.64 U	< 1.75 U	< 52.52 U	< 1.75 U	< 61.27 U	< 1.75 U
Bromoform	75-25-2	22.00	< 2.07 U	< 77.61 U	< 2.07 U	< 60.02 U	< 2.07 U	< 70.36 U	< 2.07 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 58.28 U	< 1.55 U	< 46.63 U	< 1.55 U	< 54.4 U	< 1.55 U
Carbon disulfide	75-15-0	7000.00	5.16	< 46.63 U	< 1.24 U	< 37.3 U	16.5	< 43.52 U	1.68
Carbon tetrachloride	56-23-5	1.60	< 1.26 U	< 47.24 U	1.39	< 36.53 U	1.51	< 42.83 U	< 1.26 U
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 34.66 U	< 0.92 U	< 26.81 U	< 0.92 U	< 31.43 U	< 0.92 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 39.88 U	< 1.06 U	< 31.9 U	< 1.06 U	< 37.22 U	< 1.06 U
Chloroform	67-66-3	1.10	1.56 J	< 73.01 U	< 1.95 U	< 58.4 U	1.95 J	< 68.14 U	< 1.95 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 29.75 U	< 0.79 U	< 23.01 U	< 0.79 U	< 26.98 U	< 0.79 U
cis-1,3-Dichloropropene	10061-01-5	—	< 0.91 U	< 34.05 U	< 0.91 U	< 26.33 U	< 0.91 U	< 30.87 U	< 0.91 U
Cyclohexane	110-82-7	---	< 1.34 U	< 50.31 U	< 1.34 U	< 40.25 U	< 1.34 U	< 46.95 U	< 1.34 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 63.8 U	< 1.7 U	< 49.34 U	< 1.7 U	< 57.85 U	< 1.7 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 45.09 U	< 1.2 U	< 34.87 U	1.32	< 40.88 U	< 1.2 U

Table 1: New Cassel Analyte Summary

Sample ID			SV14-8FEET	SV14-8FEET	SV15-35FEET	SV15-35FEET	SV15-8FEET	SV15-8FEET	SV16-35FEET
Sample Date			9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/13/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	75	2	58	2	68	2
Lab Sample ID			X4477-03	X4477-03DL	X4477-08	X4477-08DL	X4477-07	X4477-07DL	X4477-17
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 45.09 U	< 1.2 U	< 34.87 U	< 1.2 U	< 40.88 U	< 1.2 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	2.16	< 45.09 U	3.25	< 34.87 U	2.28	< 40.88 U	< 1.2 U
Dichlorodifluoromethane	75-71-8	2000.00	< 1.98 U	< 74.23 U	< 1.98 U	< 59.39 U	< 1.98 U	< 69.28 U	< 1.98 U
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 52.45 U	< 1.4 U	< 40.56 U	< 1.4 U	< 47.56 U	< 1.4 U
Ethyl acetate	141-78-6	32000.00	1010 E	1325 D	1073 E	1603 D	1064 E	1806 D	604 E
Ethylbenzene	100-41-4	220.00	1.39	< 32.52 U	8.76	< 25.15 U	17.9	< 29.48 U	1.3
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 57.67 U	< 1.54 U	< 44.6 U	< 1.54 U	< 52.29 U	< 1.54 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 80.06 U	< 2.13 U	< 61.91 U	< 2.13 U	< 72.59 U	< 2.13 U
Isopropyl alcohol	67-63-0	—	< 0.98 U	< 36.81 U	< 0.98 U	< 29.45 U	3.58	< 34.36 U	< 0.98 U
m/p-Xylene	126777-61-2	7000.00	2.34	< 65.03 U	21.2	< 52.02 U	62.3	< 60.7 U	1.99
Methyl chloride	74-87-3	240.00	< 0.82 U	< 30.67 U	< 0.82 U	< 24.54 U	< 0.82 U	< 28.63 U	< 0.82 U
Methyl ethyl ketone	78-93-3	10000.00	< 1.18 U	< 44.17 U	< 1.18 U	< 35.34 U	< 1.18 U	< 41.23 U	< 1.18 U
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	< 26.99 U	< 0.72 U	< 20.88 U	< 0.72 U	< 24.47 U	< 0.72 U
Methylene chloride	75-09-2	520.00	< 1.39 U	< 52.15 U	< 1.39 U	< 41.72 U	11.5	< 48.67 U	< 1.39 U
Heptane	142-82-5	—	1.8	< 30.67 U	5.4	< 23.72 U	6.13	< 27.81 U	1.06
Hexane	110-54-3	2000.00	< 1.41 U	< 52.76 U	< 1.41 U	< 42.21 U	< 1.41 U	< 49.24 U	< 1.41 U
Styrene	100-42-5	10000.00	< 0.85 U	< 31.9 U	5.78	< 24.67 U	3.91	< 28.92 U	< 0.85 U
Tetrachloroethene	127-18-4	8.10	33.9 B	< 50.92 U	32.7 B	< 39.38 U	47.8 B	46.2 JD	4.62
Tetrahydrofuran	109-99-9	—	< 1.18 U	< 44.17 U	< 1.18 U	< 35.34 U	< 1.18 U	< 41.23 U	< 1.18 U
Toluene	108-88-3	4000.00	56.2	< 28.22 U	67.1	37.1 D	105	66.5 D	31.4
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 59.51 U	< 1.59 U	< 47.61 U	< 1.59 U	< 55.54 U	< 1.59 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 68.1 U	< 1.82 U	< 54.48 U	< 1.82 U	< 63.56 U	< 1.82 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	1.92	< 55.52 U	2.52	< 42.94 U	3.7	< 50.34 U	< 1.48 U
Trichloroethene	79-01-6	0.22	1.5	< 40.18 U	1.93	< 31.08 U	< 1.07 U	< 36.43 U	< 1.07 U
Trichlorofluoromethane	75-69-4	7000.00	2.35	< 84.05 U	3.92	< 67.24 U	3.36	< 78.45 U	< 2.24 U
Vinyl acetate	108-05-4	2000.00	40.1	< 26.38 U	58.5	< 20.4 U	46.9	31.1 D	11.2
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 38.34 U	< 1.02 U	< 30.67 U	< 1.02 U	< 35.79 U	< 1.02 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV16-35FEET	SV16-8FEET	SV16-8FEET	SV17-40FEET	SV17-40FEET	SV17-8FEET	SV17-8FEET
Sample Date			9/13/2006	9/13/2006	9/13/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			20	2	20	2	20	2	20
Lab Sample ID			X4477-17DL	X4477-16	X4477-16DL	X4547-14	X4547-14DL	X4547-13	X4547-13DL
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	< 21.76 U	2.83	< 21.76 U	< 2.18 U	< 21.76 U	10	< 21.76 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 13.74 U	< 1.37 U	< 13.74 U	< 1.37 U	< 13.74 U	< 1.37 U	< 13.74 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 15.3 U	< 1.53 U	< 15.3 U	8.57	< 15.3 U	9.64	< 15.3 U
1,1,2-Trichloroethane	79-00-5	1.50	< 10.88 U	< 1.09 U	< 10.88 U	< 1.09 U	< 10.88 U	< 1.09 U	< 10.88 U
1,1-Dichloroethane	75-34-3	5000.00	< 16.2 U	< 1.62 U	< 16.2 U	< 1.62 U	< 16.2 U	< 1.62 U	< 16.2 U
1,1-Dichloroethene	75-35-4	2000.00	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U
1,2,4-Trimethylbenzene	95-63-6	60.00	< 9.82 U	1.47	< 9.82 U	37.8	40.2 D	9.52	10.8 D
1,2-Dichloroethane	107-06-2	0.94	< 8.1 U	< 0.81 U	< 8.1 U	< 0.81 U	< 8.1 U	< 0.81 U	< 8.1 U
1,2-Dichloropropane	78-87-5	40.00	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U
1,2-Xylene	95-47-6	70000.00	< 8.67 U	< 0.87 U	< 8.67 U	72.8	78 D	6.85	< 8.67 U
1,3,5-Trimethylbenzene	108-67-8	60.00	< 9.82 U	< 0.98 U	< 9.82 U	14.5	15.7 D	7.95	< 9.82 U
1,3-Butadiene	106-99-0	870.00	< 8.83 U	< 0.88 U	< 8.83 U	< 0.88 U	< 8.83 U	< 0.88 U	< 8.83 U
1,4-Dioxane	123-91-1	—	< 14.4 U	< 1.44 U	< 14.4 U	< 1.44 U	< 14.4 U	< 1.44 U	< 14.4 U
1-Propene	115-07-1	---	< 17.18 U	< 1.72 U	< 17.18 U	< 1.72 U	< 17.18 U	< 1.72 U	< 17.18 U
2,2,4-Trimethylpentane	540-84-1	—	< 9.33 U	< 0.93 U	< 9.33 U	101	139 D	< 0.93 U	< 9.33 U
2-Hexanone	591-78-6	---	< 16.36 U	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U
4-Ethyltoluene	622-96-8	—	< 9.82 U	2.26	< 9.82 U	15.7	20.6 D	2.65	< 9.82 U
4-Methyl-2-pentanone	108-10-1	800.00	< 16.36 U	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U	2.04	< 16.36 U
Acetone	67-64-1	3500.00	15.2 D	42.5	47 D	< 0.95 U	< 9.49 U	49.7	53.1 D
Allyl chloride	107-05-1	---	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U
Benzene	71-43-2	3.10	< 6.38 U	3.96	< 6.38 U	143 E	182 D	4.34	< 6.38 U
Benzyl chloride	100-44-7	0.50	< 11.53 U	< 1.15 U	< 11.53 U	< 1.15 U	< 11.53 U	< 1.15 U	< 11.53 U
Bromodichloromethane	75-27-4	1.40	< 13.42 U	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U
Bromoethene	593-60-2	---	< 17.51 U	< 1.75 U	< 17.51 U	< 1.75 U	< 17.51 U	< 1.75 U	< 17.51 U
Bromoform	75-25-2	22.00	< 20.7 U	< 2.07 U	< 20.7 U	< 2.07 U	< 20.7 U	< 2.07 U	< 20.7 U
Bromomethane	74-83-9	50.00	< 15.54 U	< 1.55 U	< 15.54 U	< 1.55 U	< 15.54 U	< 1.55 U	< 15.54 U
Carbon disulfide	75-15-0	7000.00	< 12.43 U	14.6	16.8 D	54	69 D	54.6	59.7 D
Carbon tetrachloride	56-23-5	1.60	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U
Chlorobenzene	108-90-7	600.00	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U
Chloroethane	75-00-3	100000.00	< 10.63 U	< 1.06 U	< 10.63 U	< 1.06 U	< 10.63 U	< 1.06 U	< 10.63 U
Chloroform	67-66-3	1.10	< 19.47 U	< 1.95 U	< 19.47 U	< 1.95 U	< 19.47 U	2.63	< 19.47 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 7.93 U	< 0.79 U	< 7.93 U	< 0.79 U	< 7.93 U	< 0.79 U	< 7.93 U
cis-1,3-Dichloropropene	10061-01-5	—	< 9.08 U	< 0.91 U	< 9.08 U	< 0.91 U	< 9.08 U	< 0.91 U	< 9.08 U
Cyclohexane	110-82-7	---	< 13.42 U	< 1.34 U	< 13.42 U	75.9	102 D	5.5	< 13.42 U
Dibromochloromethane	124-48-1	1.00	< 17.01 U	< 1.7 U	< 17.01 U	< 1.7 U	< 17.01 U	< 1.7 U	< 17.01 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U

Table 1: New Cassel Analyte Summary

Sample ID			SV16-35FEET	SV16-8FEET	SV16-8FEET	SV17-40FEET	SV17-40FEET	SV17-8FEET	SV17-8FEET
Sample Date			9/13/2006	9/13/2006	9/13/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			20	2	20	2	20	2	20
Lab Sample ID			X4477-17DL	X4477-16	X4477-16DL	X4547-14	X4547-14DL	X4547-13	X4547-13DL
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	1.56	< 12.02 U
Dichlorodifluoromethane	75-71-8	2000.00	< 19.8 U	< 1.98 U	< 19.8 U	< 1.98 U	< 19.8 U	< 1.98 U	< 19.8 U
Dichlorotetrafluoroethane	76-14-2	---	< 13.99 U	< 1.4 U	< 13.99 U	< 1.4 U	< 13.99 U	< 1.4 U	< 13.99 U
Ethyl acetate	141-78-6	32000.00	638 D	572 E	544 D	< 0.72 U	< 7.2 U	135	137 D
Ethylbenzene	100-41-4	220.00	< 8.67 U	< 0.87 U	< 8.67 U	92.9	101 D	3.73	< 8.67 U
Ethylene dibromide	106-93-4	0.11	< 15.38 U	< 1.54 U	< 15.38 U	< 1.54 U	< 15.38 U	< 1.54 U	< 15.38 U
Hexachlorobutadiene	87-68-3	1.10	< 21.35 U	< 2.13 U	< 21.35 U	< 2.13 U	< 21.35 U	< 2.13 U	< 21.35 U
Isopropyl alcohol	67-63-0	---	< 9.82 U	3.24	< 9.82 U	< 0.98 U	< 9.82 U	21.4	26.5 D
m/p-Xylene	126777-61-2	7000.00	< 17.34 U	< 1.73 U	< 17.34 U	249	287 D	11.4	11.3 JD
Methyl chloride	74-87-3	240.00	< 8.18 U	< 0.82 U	< 8.18 U	< 0.82 U	< 8.18 U	< 0.82 U	< 8.18 U
Methyl ethyl ketone	78-93-3	10000.00	< 11.78 U	< 1.18 U	< 11.78 U	16.3	18.3 D	19.9	21.2 D
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 7.2 U	< 0.72 U	< 7.2 U	< 0.72 U	< 7.2 U	< 0.72 U	< 7.2 U
Methylene chloride	75-09-2	520.00	< 13.91 U	< 1.39 U	< 13.91 U	< 1.39 U	< 13.91 U	5.08	< 13.91 U
Heptane	142-82-5	---	< 8.18 U	< 0.82 U	< 8.18 U	182 E	231 D	3.03	< 8.18 U
Hexane	110-54-3	2000.00	< 14.07 U	< 1.41 U	< 14.07 U	460 E	703 D	< 1.41 U	< 14.07 U
Styrene	100-42-5	10000.00	< 8.51 U	< 0.85 U	< 8.51 U	11.9	10.2 D	1.36	< 8.51 U
Tetrachloroethene	127-18-4	8.10	< 13.58 U	6.38	< 13.58 U	34.6	42.1 D	453 E	602 D
Tetrahydrofuran	109-99-9	---	< 11.78 U	< 1.18 U	< 11.78 U	< 1.18 U	< 11.78 U	3.18	< 11.78 U
Toluene	108-88-3	4000.00	28.6 D	8.8	< 7.53 U	< 0.75 U	900 D	121	143 D
trans-1,2-Dichloroethene	156-60-5	700.00	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U
trans-1,3-Dichloropropene	10061-02-6	---	< 18.16 U	< 1.82 U	< 18.16 U	< 1.82 U	< 18.16 U	< 1.82 U	< 18.16 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 14.81 U	< 1.48 U	< 14.81 U	1.78	< 14.81 U	2.07	< 14.81 U
Trichloroethene	79-01-6	0.22	< 10.72 U	< 1.07 U	< 10.72 U	32	41.8 D	280 E	363 D
Trichlorofluoromethane	75-69-4	7000.00	< 22.41 U	< 2.24 U	< 22.41 U	4.15	< 22.41 U	4.82	< 22.41 U
Vinyl acetate	108-05-4	2000.00	10.6 D	11.5	9.85 D	< 0.7 U	< 7.03 U	< 0.7 U	< 7.03 U
Vinyl chloride	75-01-4	2.80	< 10.22 U	< 1.02 U	< 10.22 U	< 1.02 U	< 10.22 U	< 1.02 U	< 10.22 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV18-35FEET	SV18-35FEET	SV18-8FEET	SV18-8FEET	SV18 FIELD DUP3 - 35 Ft	SV18 FIELD DUP3 - 35 Ft
Sample Date			9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			2	50	2	75	3	60
Lab Sample ID			X4477-10	X4477-10DL	X4477-09	X4477-09DL	X4477-11	X4477-11DL
Chemical Name	CAS	OSWER GUIDANCE						
1,1,1-Trichloroethane	71-55-6	22000.00	6.96	< 54.4 U	16.4	< 81.6 U	< 3.26 U	< 65.28 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 34.36 U	< 1.37 U	< 51.53 U	< 2.06 U	< 41.23 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 1.53 U	< 38.24 U	2.91	< 57.36 U	< 2.29 U	< 45.89 U
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 27.2 U	< 1.09 U	< 40.8 U	< 1.63 U	< 32.64 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 40.49 U	< 1.62 U	< 60.74 U	< 2.43 U	< 48.59 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 39.67 U	< 1.59 U	< 59.51 U	< 2.38 U	< 47.61 U
1,2,4-Trimethylbenzene	95-63-6	60.00	13.5	< 24.54 U	11.2	< 36.81 U	6.77	< 29.45 U
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 20.25 U	< 0.81 U	< 30.37 U	< 1.21 U	< 24.29 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 23.11 U	< 0.92 U	< 34.66 U	< 1.39 U	< 27.73 U
1,2-Xylene	95-47-6	70000.00	1.47	< 21.68 U	5.29	< 32.52 U	< 1.3 U	< 26.01 U
1,3,5-Trimethylbenzene	108-67-8	60.00	5.01	< 24.54 U	2.75	< 36.81 U	2.8	< 29.45 U
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 22.09 U	< 0.88 U	< 33.13 U	< 1.33 U	< 26.5 U
1,4-Dioxane	123-91-1	—	< 1.44 U	< 35.99 U	< 1.44 U	< 53.99 U	< 2.16 U	< 43.19 U
1-Propene	115-07-1	---	< 1.72 U	< 42.94 U	< 1.72 U	< 65.28 U	< 2.58 U	< 51.53 U
2,2,4-Trimethylpentane	540-84-1	—	< 0.93 U	< 23.31 U	1.68	< 34.97 U	< 1.4 U	< 27.98 U
2-Hexanone	591-78-6	---	< 1.64 U	< 40.9 U	< 1.64 U	< 61.35 U	< 2.45 U	< 49.08 U
4-Ethyltoluene	622-96-8	—	3.24	< 24.54 U	6.18	< 36.81 U	5.89	< 29.45 U
4-Methyl-2-pentanone	108-10-1	800.00	< 1.64 U	< 40.9 U	< 1.64 U	< 61.35 U	< 2.45 U	< 49.08 U
Acetone	67-64-1	3500.00	75.3	68.8 DB	105 EB	90.7 DB	29.6 B	117 DB
Allyl chloride	107-05-1	---	< 1.26 U	< 31.49 U	< 1.26 U	< 47.24 U	< 1.89 U	< 37.79 U
Benzene	71-43-2	3.10	23.5	17.5 D	23.8	< 23.93 U	7.47	23 D
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 28.83 U	< 1.15 U	< 43.25 U	< 1.73 U	< 34.6 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 33.54 U	< 1.34 U	< 50.31 U	< 2.01 U	< 40.25 U
Bromoethene	593-60-2	---	< 1.75 U	< 43.76 U	< 1.75 U	< 65.64 U	< 2.63 U	< 52.52 U
Bromoform	75-25-2	22.00	< 2.07 U	< 51.74 U	< 2.07 U	< 77.61 U	< 3.1 U	< 62.09 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 38.85 U	< 1.55 U	< 58.28 U	< 2.33 U	< 46.63 U
Carbon disulfide	75-15-0	7000.00	< 1.24 U	< 31.08 U	27.6	< 46.63 U	< 1.87 U	< 37.3 U
Carbon tetrachloride	56-23-5	1.60	< 1.26 U	< 31.49 U	1.39	< 47.24 U	< 1.89 U	< 37.79 U
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 23.11 U	< 0.92 U	< 34.66 U	< 1.39 U	< 27.73 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 26.58 U	< 1.06 U	< 39.88 U	< 1.6 U	< 31.9 U
Chloroform	67-66-3	1.10	< 1.95 U	< 48.67 U	3.41	< 73.01 U	< 2.92 U	< 58.4 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 19.84 U	< 0.79 U	< 29.75 U	< 1.19 U	< 23.8 U
cis-1,3-Dichloropropene	10061-01-5	—	< 0.91 U	< 22.7 U	< 0.91 U	< 34.05 U	< 1.36 U	< 27.24 U
Cyclohexane	110-82-7	---	< 1.34 U	< 33.54 U	< 1.34 U	< 50.31 U	< 2.01 U	< 40.25 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 42.54 U	< 1.7 U	< 63.8 U	< 2.55 U	< 51.04 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 30.06 U	1.32	< 45.09 U	< 1.8 U	< 36.07 U

Table 1: New Cassel Analyte Summary

Sample ID			SV18-35FEET	SV18-35FEET	SV18-8FEET	SV18-8FEET	SV18 FIELD DUP3 - 35 Ft	SV18 FIELD DUP3 - 35 Ft
Sample Date			9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006	9/12/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			2	50	2	75	3	60
Lab Sample ID			X4477-10	X4477-10DL	X4477-09	X4477-09DL	X4477-11	X4477-11DL
Chemical Name	CAS	OSWER GUIDANCE						
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 30.06 U	< 1.2 U	< 45.09 U	< 1.8 U	< 36.07 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	1.8	< 30.06 U	3.37	< 45.09 U	< 1.8 U	< 36.07 U
Dichlorodifluoromethane	75-71-8	2000.00	< 1.98 U	< 49.49 U	< 1.98 U	< 74.23 U	< 2.97 U	< 59.39 U
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 34.97 U	< 1.4 U	< 52.45 U	< 2.1 U	< 41.96 U
Ethyl acetate	141-78-6	32000.00	990 E	1684 D	1142 E	2216 D	810 E	2311 D
Ethylbenzene	100-41-4	220.00	2.77	< 21.68 U	5.46	< 32.52 U	< 1.3 U	< 26.01 U
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 38.45 U	< 1.54 U	< 57.67 U	< 2.31 U	< 46.13 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 53.37 U	< 2.13 U	< 80.06 U	< 3.2 U	< 64.05 U
Isopropyl alcohol	67-63-0	---	< 0.98 U	< 24.54 U	4.56	< 36.81 U	< 1.47 U	< 29.45 U
m/p-Xylene	126777-61-2	7000.00	3.73	< 43.35 U	16.6	< 65.03 U	< 2.6 U	< 52.02 U
Methyl chloride	74-87-3	240.00	< 0.82 U	< 20.45 U	< 0.82 U	< 30.67 U	< 1.23 U	< 24.54 U
Methyl ethyl ketone	78-93-3	10000.00	< 1.18 U	< 29.45 U	< 1.18 U	< 44.17 U	< 1.77 U	< 35.34 U
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	< 18 U	< 0.72 U	< 26.99 U	< 1.08 U	< 21.6 U
Methylene chloride	75-09-2	520.00	< 1.39 U	< 34.76 U	5.84	< 52.15 U	< 2.09 U	< 41.72 U
Heptane	142-82-5	—	1.72	< 20.45 U	2.37	< 30.67 U	< 1.23 U	< 24.54 U
Hexane	110-54-3	2000.00	< 1.41 U	< 35.17 U	< 1.41 U	< 52.76 U	< 2.11 U	< 42.21 U
Styrene	100-42-5	10000.00	< 0.85 U	< 21.27 U	4.17	< 31.9 U	< 1.28 U	< 25.52 U
Tetrachloroethene	127-18-4	8.10	4.35	< 33.95 U	17.1 B	< 50.92 U	< 2.04 U	< 40.74 U
Tetrahydrofuran	109-99-9	—	< 1.18 U	< 29.45 U	< 1.18 U	< 44.17 U	< 1.77 U	< 35.34 U
Toluene	108-88-3	4000.00	153 E	69.6 D	126	67.7 D	43.6	29.3 D
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 39.67 U	< 1.59 U	< 59.51 U	< 2.38 U	< 47.61 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 45.4 U	< 1.82 U	< 68.1 U	< 2.72 U	< 54.48 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 1.48 U	< 37.01 U	3.11	< 55.52 U	< 2.22 U	< 44.42 U
Trichloroethene	79-01-6	0.22	< 1.07 U	< 26.79 U	1.82	< 40.18 U	< 1.61 U	< 32.15 U
Trichlorofluoromethane	75-69-4	7000.00	< 2.24 U	< 56.03 U	3.25	< 84.05 U	< 3.36 U	< 67.24 U
Vinyl acetate	108-05-4	2000.00	49.5	< 17.59 U	64.4	< 26.38 U	14.6	33.8 D
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 25.56 U	< 1.02 U	< 38.34 U	< 1.53 U	< 30.67 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV-19-30FEET	SV-19-30FEET	SV-19-8FEET	SV-20-30FEET	SV-20-30FEET	SV-20-8FEET	SV-20-8FEET
Sample Date			9/7/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Initial	Dilution	Initial	Dilution
Dilution Factor			2	5	10	2	20	2	25
Lab Sample ID			X4317-13	X4317-13DL	X4317-12	X4317-15	X4317-15DL	X4317-14	X4317-14DL
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	10.6	11.4 D	16.9	31.2	33.7 D	41.1	46.2 D
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 3.44 U	< 6.87 U	< 1.37 U	< 13.74 U	< 1.37 U	< 17.18 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 1.53 U	< 3.82 U	< 7.65 U	< 1.53 U	< 15.3 U	< 1.53 U	< 19.12 U
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 2.72 U	< 5.44 U	< 1.09 U	< 10.88 U	< 1.09 U	< 13.6 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 4.05 U	< 8.1 U	< 1.62 U	< 16.2 U	< 1.62 U	< 20.25 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 3.97 U	< 7.93 U	< 1.59 U	< 15.87 U	< 1.59 U	< 19.84 U
1,2,4-Trimethylbenzene	95-63-6	60.00	7.46	6.13 D	20.6	25.3	12.8 D	57.3	36.8 D
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 2.02 U	< 4.05 U	< 0.81 U	< 8.1 U	< 0.81 U	< 10.12 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 2.31 U	< 4.62 U	< 0.92 U	< 9.24 U	< 0.92 U	< 11.55 U
1,2-Xylene	95-47-6	70000.00	1.99	< 2.17 U	14.3	9.1	< 8.67 U	12.6	< 10.84 U
1,3,5-Trimethylbenzene	108-67-8	60.00	1.77	< 2.45 U	7.85	6.38	< 9.82 U	13.8	< 12.27 U
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 2.21 U	< 4.42 U	< 0.88 U	< 8.83 U	< 0.88 U	< 11.04 U
1,4-Dioxane	123-91-1	---	< 1.44 U	< 3.6 U	< 7.2 U	< 1.44 U	< 14.4 U	< 1.44 U	< 18 U
1-Propene	115-07-1	---	< 1.72 U	< 4.29 U	89	< 1.72 U	< 17.18 U	< 1.72 U	76.4 D
2,2,4-Trimethylpentane	540-84-1	---	< 0.93 U	< 2.33 U	7.46	1.59	< 9.33 U	3.45	< 11.66 U
2-Hexanone	591-78-6	---	< 1.64 U	< 4.09 U	13.9	< 1.64 U	< 16.36 U	< 1.64 U	< 20.45 U
4-Ethyltoluene	622-96-8	---	2.94	6.38 D	13.7	6.18	40.2 D	11	28.2 D
4-Methyl-2-pentanone	108-10-1	800.00	< 1.64 U	< 4.09 U	< 8.18 U	< 1.64 U	< 16.36 U	10.6	< 20.45 U
Acetone	67-64-1	3500.00	132 EB	139 DB	455 B	80.9 B	77.8 DB	110 EB	133 DB
Allyl chloride	107-05-1	---	< 1.26 U	< 3.15 U	< 6.3 U	< 1.26 U	< 12.6 U	< 1.26 U	< 15.75 U
Benzene	71-43-2	3.10	3.57	3.83 D	20.4	7.08	9.57 D	7.85	< 7.98 U
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 2.88 U	< 5.77 U	< 1.15 U	< 11.53 U	< 1.15 U	< 14.42 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 3.35 U	< 6.71 U	< 1.34 U	< 13.42 U	< 1.34 U	< 16.77 U
Bromoethene	593-60-2	---	< 1.75 U	< 4.38 U	< 8.75 U	< 1.75 U	< 17.51 U	< 1.75 U	< 21.88 U
Bromoform	75-25-2	22.00	< 2.07 U	< 5.17 U	< 10.35 U	< 2.07 U	< 20.7 U	< 2.07 U	< 25.87 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 3.89 U	< 7.77 U	< 1.55 U	< 15.54 U	< 1.55 U	< 19.43 U
Carbon disulfide	75-15-0	7000.00	1.8	< 3.11 U	17.1	< 1.24 U	< 12.43 U	4.29	< 15.54 U
Carbon tetrachloride	56-23-5	1.60	< 1.26 U	< 3.15 U	< 6.3 U	< 1.26 U	< 12.6 U	< 1.26 U	< 15.75 U
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 2.31 U	< 4.62 U	< 0.92 U	< 9.24 U	< 0.92 U	< 11.55 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 2.66 U	< 5.32 U	< 1.06 U	< 10.63 U	< 1.06 U	< 13.29 U
Chloroform	67-66-3	1.10	< 1.95 U	< 4.87 U	< 9.73 U	3.02	< 19.47 U	< 1.95 U	< 24.34 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 1.98 U	< 3.97 U	< 0.79 U	< 7.93 U	< 0.79 U	< 9.92 U
cis-1,3-Dichloropropene	10061-01-5	---	< 0.91 U	< 2.27 U	< 4.54 U	< 0.91 U	< 9.08 U	< 0.91 U	< 11.35 U
Cyclohexane	110-82-7	---	< 1.34 U	< 3.35 U	< 6.71 U	< 1.34 U	< 13.42 U	< 1.34 U	< 16.77 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 4.25 U	< 8.51 U	< 1.7 U	< 17.01 U	< 1.7 U	< 21.27 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 3.01 U	< 6.01 U	< 1.2 U	< 12.02 U	< 1.2 U	< 15.03 U

Table 1: New Cassel Analyte Summary

Sample ID			SV-19-30FEET	SV-19-30FEET	SV-19-8FEET	SV-20-30FEET	SV-20-30FEET	SV-20-8FEET	SV-20-8FEET
Sample Date			9/7/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006	9/7/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Initial	Dilution	Initial	Dilution
Dilution Factor			2	5	10	2	20	2	25
Lab Sample ID			X4317-13	X4317-13DL	X4317-12	X4317-15	X4317-15DL	X4317-14	X4317-14DL
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 3.01 U	< 6.01 U	< 1.2 U	< 12.02 U	< 1.2 U	< 15.03 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	2.04	< 3.01 U	< 6.01 U	3.85	< 12.02 U	2.77	< 15.03 U
Dichlorodifluoromethane	75-71-8	2000.00	< 1.98 U	< 4.95 U	< 9.9 U	< 1.98 U	< 19.8 U	< 1.98 U	< 24.74 U
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 3.5 U	< 6.99 U	< 1.4 U	< 13.99 U	< 1.4 U	< 17.48 U
Ethyl acetate	141-78-6	32000.00	233 E	233 D	339	481 E	345 D	602 E	657 D
Ethylbenzene	100-41-4	220.00	2.08	< 2.17 U	12.6	7.28	< 8.67 U	9.1	< 10.84 U
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 3.84 U	< 7.69 U	< 1.54 U	< 15.38 U	< 1.54 U	< 19.22 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 5.34 U	< 10.67 U	< 2.13 U	< 21.35 U	< 2.13 U	< 26.69 U
Isopropyl alcohol	67-63-0	—	12.5	14 D	< 4.91 U	6.58	13.3 D	< 0.98 U	< 12.27 U
m/p-Xylene	126777-61-2	7000.00	3.47	< 4.34 U	33.8	21.5	18.2 D	29.2	< 21.68 U
Methyl chloride	74-87-3	240.00	< 0.82 U	< 2.04 U	< 4.09 U	< 0.82 U	< 8.18 U	< 0.82 U	< 10.22 U
Methyl ethyl ketone	78-93-3	10000.00	23.7	22.8 D	36.2	< 1.18 U	19.4 D	< 1.18 U	< 14.72 U
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	< 1.8 U	< 3.6 U	< 0.72 U	< 7.2 U	< 0.72 U	< 9 U
Methylene chloride	75-09-2	520.00	< 1.39 U	< 3.48 U	16.7	< 1.39 U	< 13.91 U	< 1.39 U	< 17.38 U
Heptane	142-82-5	—	2.54	2.86 D	19.2	4.99	< 8.18 U	6.87	< 10.22 U
Hexane	110-54-3	2000.00	< 1.41 U	< 3.52 U	< 7.03 U	< 1.41 U	< 14.07 U	< 1.41 U	< 17.59 U
Styrene	100-42-5	10000.00	< 0.85 U	< 2.13 U	4.25 J	0.85 J	< 8.51 U	1.28	< 10.63 U
Tetrachloroethene	127-18-4	8.10	5.16	4.41 D	8.83	56.5	58.4 DB	8.01	< 16.97 U
Tetrahydrofuran	109-99-9	—	< 1.18 U	< 2.94 U	< 5.89 U	< 1.18 U	< 11.78 U	< 1.18 U	< 14.72 U
Toluene	108-88-3	4000.00	29.7	29 D	82.8	61	38.4 D	62.3	53.6 D
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 3.97 U	< 7.93 U	< 1.59 U	< 15.87 U	< 1.59 U	< 19.84 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 4.54 U	< 9.08 U	< 1.82 U	< 18.16 U	< 1.82 U	< 22.7 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	1.63	< 3.7 U	11.8	1.78	< 14.81 U	4.29	< 18.51 U
Trichloroethene	79-01-6	0.22	< 1.07 U	< 2.68 U	< 5.36 U	1.18	< 10.72 U	1.5	< 13.39 U
Trichlorofluoromethane	75-69-4	7000.00	< 2.24 U	< 5.6 U	< 11.21 U	< 2.24 U	< 22.41 U	2.35	< 28.02 U
Vinyl acetate	108-05-4	2000.00	< 0.7 U	< 1.76 U	< 3.52 U	< 0.7 U	< 7.03 U	< 0.7 U	< 8.79 U
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 2.56 U	< 5.11 U	< 1.02 U	< 10.22 U	< 1.02 U	< 12.78 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV21-23FEET	SV21-8FEET	SV21-8FEET	SV22-23FEET	SV22-8FEET	SV22 FIELD DUP1 - 8 Ft
Sample Date			8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/30/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Initial	Dilution	Initial	Initial	Initial
Dilution Factor			4	4	10	4	5	10
Lab Sample ID			X4234-10	X4234-09	X4234-09DL	X4234-08	X4234-07	X4234-15
Chemical Name	CAS	OSWER GUIDANCE						
1,1,1-Trichloroethane	71-55-6	22000.00	< 2.18 U	< 4.35 U	< 5.44 U	< 2.18 U	< 5.44 U	< 10.88 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 2.75 U	< 2.75 U	< 6.87 U	< 2.75 U	< 3.44 U	< 6.87 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 3.06 U	< 3.06 U	< 7.65 U	< 3.06 U	< 3.82 U	< 7.65 U
1,1,2-Trichloroethane	79-00-5	1.50	< 2.18 U	< 2.18 U	< 5.44 U	< 2.18 U	< 2.72 U	< 5.44 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 3.24 U	< 4.05 U	< 1.62 U	< 4.05 U	< 8.1 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 3.17 U	< 3.97 U	< 1.59 U	< 3.97 U	< 7.93 U
1,2,4-Trimethylbenzene	95-63-6	60.00	55.6	85.6	73.1 D	12.6	24.8	23.6
1,2-Dichloroethane	107-06-2	0.94	< 1.62 U	< 1.62 U	< 4.05 U	< 1.62 U	< 2.02 U	< 4.05 U
1,2-Dichloropropane	78-87-5	40.00	< 1.85 U	< 1.85 U	< 4.62 U	< 1.85 U	< 2.31 U	< 4.62 U
1,2-Xylene	95-47-6	70000.00	10.2	15.1	18.6 D	7.28	7.59	8.24
1,3,5-Trimethylbenzene	108-67-8	60.00	17.5	23.8	24.5 D	5.3	6.13	7.85
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 1.77 U	< 2.21 U	< 0.88 U	< 2.21 U	< 4.42 U
1,4-Dioxane	123-91-1	—	< 2.88 U	< 2.88 U	< 7.2 U	< 2.88 U	< 3.6 U	< 7.2 U
1-Propene	115-07-1	---	34.6	57.6	73.3 D	28.6	8.76	25.3
2,2,4-Trimethylpentane	540-84-1	—	< 1.87 U	< 1.87 U	< 4.66 U	< 1.87 U	< 2.33 U	< 4.66 U
2-Hexanone	591-78-6	---	8.67	< 3.27 U	< 8.18 U	5.73	< 4.09 U	< 8.18 U
4-Ethyltoluene	622-96-8	—	17.7	17.5	33.4 D	10.4	8.34	13.3
4-Methyl-2-pentanone	108-10-1	800.00	3.76	< 3.27 U	< 8.18 U	< 3.27 U	< 4.09 U	< 8.18 U
Acetone	67-64-1	3500.00	78.3 B	98.3	124 DB	141 B	52.8	87.5
Allyl chloride	107-05-1	---	< 1.26 U	< 2.52 U	< 3.15 U	< 1.26 U	< 3.15 U	< 6.3 U
Benzene	71-43-2	3.10	7.91	8.55	12.1 D	14.2	3.67	5.1
Benzyl chloride	100-44-7	0.50	< 2.31 U	< 2.31 U	< 5.77 U	< 2.31 U	< 2.88 U	< 5.77 U
Bromodichloromethane	75-27-4	1.40	< 2.68 U	< 2.68 U	< 6.71 U	< 2.68 U	< 3.35 U	< 6.71 U
Bromoethene	593-60-2	---	< 1.75 U	< 3.5 U	< 4.38 U	< 1.75 U	< 4.38 U	< 8.75 U
Bromoform	75-25-2	22.00	< 4.14 U	< 4.14 U	< 10.35 U	< 4.14 U	< 5.17 U	< 10.35 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 3.11 U	< 3.89 U	< 1.55 U	< 3.89 U	< 7.77 U
Carbon disulfide	75-15-0	7000.00	< 1.24 U	16.5	25.8 D	10.6	4.2	< 6.22 U
Carbon tetrachloride	56-23-5	1.60	3.02	< 2.52 U	< 6.3 U	< 2.52 U	< 3.15 U	< 6.3 U
Chlorobenzene	108-90-7	600.00	< 1.85 U	< 1.85 U	< 4.62 U	3.33	< 2.31 U	< 4.62 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 2.13 U	< 2.66 U	< 1.06 U	< 2.66 U	< 5.32 U
Chloroform	67-66-3	1.10	3.89	< 3.89 U	< 4.87 U	2.92	4.87 J	< 9.73 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 1.59 U	< 1.59 U	< 3.97 U	< 1.59 U	< 1.98 U	< 3.97 U
cis-1,3-Dichloropropene	10061-01-5	---	< 1.82 U	< 1.82 U	< 4.54 U	< 1.82 U	< 2.27 U	< 4.54 U
Cyclohexane	110-82-7	---	4.96	< 2.68 U	< 3.35 U	10.9	< 3.35 U	< 6.71 U
Dibromochloromethane	124-48-1	1.00	< 3.4 U	< 3.4 U	< 8.51 U	< 3.4 U	< 4.25 U	< 8.51 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 2.4 U	< 2.4 U	< 6.01 U	< 2.4 U	< 3.01 U	< 6.01 U

Table 1: New Cassel Analyte Summary

Sample ID			SV21-23FEET	SV21-8FEET	SV21-8FEET	SV22-23FEET	SV22-8FEET	SV22 FIELD DUP1 - 8 Ft
Sample Date			8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/30/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Initial	Dilution	Initial	Initial	Initial
Dilution Factor			4	4	10	4	5	10
Lab Sample ID			X4234-10	X4234-09	X4234-09DL	X4234-08	X4234-07	X4234-15
Chemical Name	CAS	OSWER GUIDANCE						
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 2.4 U	< 2.4 U	< 6.01 U	< 2.4 U	< 3.01 U	< 6.01 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 2.4 U	< 2.4 U	< 6.01 U	< 2.4 U	< 3.01 U	< 6.01 U
Dichlorodifluoromethane	75-71-8	2000.00	4.36	< 3.96 U	< 4.95 U	5.34	< 4.95 U	< 9.9 U
Dichlorotetrafluoroethane	76-14-2	---	< 2.8 U	< 2.8 U	< 6.99 U	< 2.8 U	< 3.5 U	< 6.99 U
Ethyl acetate	141-78-6	32000.00	191	< 1.44 U	104 D	130	< 1.8 U	87.8
Ethylbenzene	100-41-4	220.00	8.84	10.9	19.9 D	9.54	7.15	9.54
Ethylene dibromide	106-93-4	0.11	< 3.08 U	< 3.08 U	< 7.69 U	< 3.08 U	< 3.84 U	< 7.69 U
Hexachlorobutadiene	87-68-3	1.10	< 4.27 U	< 4.27 U	< 10.67 U	< 4.27 U	< 5.34 U	< 10.67 U
Isopropyl alcohol	67-63-0	—	30.2	24.6	35.6 D	26	25.4	735 E
m/p-Xylene	126777-61-2	7000.00	25.7	33.3	43.4 D	22.5	18.9	26.9
Methyl chloride	74-87-3	240.00	< 0.82 U	< 1.64 U	< 2.04 U	< 0.82 U	< 2.04 U	< 4.09 U
Methyl ethyl ketone	78-93-3	10000.00	175	125	122 D	113	87.2	35.3
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 1.44 U	< 1.44 U	< 3.6 U	< 1.44 U	< 1.8 U	< 3.6 U
Methylene chloride	75-09-2	520.00	3.34	< 2.78 U	< 6.95 U	29.1	< 3.48 U	< 6.95 U
Heptane	142-82-5	—	8.18	11.3	18.8 D	19.3	< 2.04 U	< 4.09 U
Hexane	110-54-3	2000.00	96.1	95	117 D	126	105	< 7.03 U
Styrene	100-42-5	10000.00	8.17	2.38	20 D	8.17	< 2.13 U	< 4.25 U
Tetrachloroethene	127-18-4	8.10	19.8 B	23.4	34.6 DB	5.7 B	7.13	12.9
Tetrahydrofuran	109-99-9	—	< 2.36 U	2.36 J	< 5.89 U	< 2.36 U	< 2.94 U	< 5.89 U
Toluene	108-88-3	4000.00	223	312 E	229 D	121	370	104
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 3.17 U	< 3.97 U	< 1.59 U	< 3.97 U	< 7.93 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 3.63 U	< 4.54 U	< 1.82 U	< 4.54 U	< 9.08 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 2.96 U	< 2.96 U	< 7.4 U	< 2.96 U	< 3.7 U	9.62
Trichloroethene	79-01-6	0.22	4.07	< 2.14 U	< 5.36 U	5.14	< 2.68 U	< 5.36 U
Trichlorofluoromethane	75-69-4	7000.00	4.48	< 4.48 U	< 5.6 U	4.93	< 5.6 U	< 11.21 U
Vinyl acetate	108-05-4	2000.00	< 1.41 U	< 1.41 U	< 3.52 U	< 1.41 U	< 1.76 U	< 3.52 U
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 2.04 U	< 2.56 U	< 1.02 U	< 2.56 U	< 5.11 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV22 FIELD DUP1 - 8 Ft	SV23-24FEET	SV23-24FEET	SV23-8FEET	SV23-8FEET	SV24-25FEET
Sample Date			8/30/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/28/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			20	10	80	10	25	10
Lab Sample ID			X4234-15DL	X4234-06	X4234-06DL	X4234-05	X4234-05DL	X4234-02
Chemical Name	CAS	OSWER GUIDANCE						
1,1,1-Trichloroethane	71-55-6	22000.00	< 21.76 U	< 5.44 U	< 87.03 U	< 5.44 U	< 27.2 U	< 5.44 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 13.74 U	< 6.87 U	< 54.97 U	< 6.87 U	< 17.18 U	< 6.87 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 15.3 U	< 7.65 U	< 61.19 U	13	< 19.12 U	< 7.65 U
1,1,2-Trichloroethane	79-00-5	1.50	< 10.88 U	< 5.44 U	< 43.52 U	< 5.44 U	< 13.6 U	< 5.44 U
1,1-Dichloroethane	75-34-3	5000.00	< 16.2 U	< 4.05 U	< 64.79 U	5.67	< 20.25 U	< 4.05 U
1,1-Dichloroethene	75-35-4	2000.00	< 15.87 U	< 3.97 U	< 63.48 U	< 3.97 U	< 19.84 U	< 3.97 U
1,2,4-Trimethylbenzene	95-63-6	60.00	15.7 D	53	43.2 D	97.2	107 D	118
1,2-Dichloroethane	107-06-2	0.94	< 8.1 U	< 4.05 U	< 32.39 U	< 4.05 U	< 10.12 U	< 4.05 U
1,2-Dichloropropane	78-87-5	40.00	< 9.24 U	< 4.62 U	< 36.97 U	< 4.62 U	< 11.55 U	< 4.62 U
1,2-Xylene	95-47-6	70000.00	< 8.67 U	36.4	34.7 JD	109	132 D	98
1,3,5-Trimethylbenzene	108-67-8	60.00	< 9.82 U	31.9	< 39.26 U	43.7	44.2 D	67.2
1,3-Butadiene	106-99-0	870.00	< 8.83 U	< 2.21 U	< 35.34 U	< 2.21 U	< 11.04 U	< 2.21 U
1,4-Dioxane	123-91-1	---	< 14.4 U	< 7.2 U	< 57.59 U	< 7.2 U	< 18 U	< 7.2 U
1-Propene	115-07-1	---	31.6 D	2474 E	3702 ED	19.9	24.9 D	40.2
2,2,4-Trimethylpentane	540-84-1	---	< 9.33 U	53.6	74.6 D	9.79	< 11.66 U	9.33
2-Hexanone	591-78-6	---	< 16.36 U	< 8.18 U	< 65.44 U	< 8.18 U	< 20.45 U	15.1
4-Ethyltoluene	622-96-8	---	20.6 D	33.4	90.3 D	52.5	57.7 D	56
4-Methyl-2-pentanone	108-10-1	800.00	< 16.36 U	< 8.18 U	< 65.44 U	< 8.18 U	< 20.45 U	< 8.18 U
Acetone	67-64-1	3500.00	82.1 D	< 4.74 U	< 37.96 U	107 B	104 D	186 B
Allyl chloride	107-05-1	---	< 12.6 U	< 3.15 U	< 50.39 U	< 3.15 U	< 15.75 U	< 3.15 U
Benzene	71-43-2	3.10	< 6.38 U	65.4	91.9 D	38.9	42.3 D	24.2
Benzyl chloride	100-44-7	0.50	< 11.53 U	< 5.77 U	< 46.13 U	< 5.77 U	< 14.42 U	< 5.77 U
Bromodichloromethane	75-27-4	1.40	< 13.42 U	< 6.71 U	< 53.66 U	< 6.71 U	< 16.77 U	< 6.71 U
Bromoethene	593-60-2	---	< 17.51 U	< 4.38 U	< 70.02 U	< 4.38 U	< 21.88 U	< 4.38 U
Bromoform	75-25-2	22.00	< 20.7 U	< 10.35 U	< 82.78 U	< 10.35 U	< 25.87 U	< 10.35 U
Bromomethane	74-83-9	50.00	< 15.54 U	< 3.89 U	< 62.17 U	< 3.89 U	< 19.43 U	< 3.89 U
Carbon disulfide	75-15-0	7000.00	< 12.43 U	22.7	< 49.73 U	9.33	< 15.54 U	< 3.11 U
Carbon tetrachloride	56-23-5	1.60	< 12.6 U	< 6.3 U	< 50.39 U	7.56	< 15.75 U	< 6.3 U
Chlorobenzene	108-90-7	600.00	< 9.24 U	< 4.62 U	< 36.97 U	6.01	< 11.55 U	< 4.62 U
Chloroethane	75-00-3	100000.00	< 10.63 U	< 2.66 U	< 42.54 U	4.52	< 13.29 U	< 2.66 U
Chloroform	67-66-3	1.10	< 19.47 U	< 4.87 U	< 77.87 U	13.1	< 24.34 U	4.87 J
cis-1,2-Dichloroethene	156-59-2	350.00	< 7.93 U	< 3.97 U	< 31.74 U	< 3.97 U	< 9.92 U	< 3.97 U
cis-1,3-Dichloropropene	10061-01-5	---	< 9.08 U	< 4.54 U	< 36.32 U	< 4.54 U	< 11.35 U	< 4.54 U
Cyclohexane	110-82-7	---	< 13.42 U	57.3	< 53.66 U	11.4	< 16.77 U	22.8
Dibromochloromethane	124-48-1	1.00	< 17.01 U	< 8.51 U	< 68.06 U	< 8.51 U	< 21.27 U	< 8.51 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 12.02 U	32.5	< 48.1 U	7.82	< 15.03 U	< 6.01 U

Table 1: New Cassel Analyte Summary

Sample ID			SV22 FIELD DUP1 - 8 Ft	SV23-24FEET	SV23-24FEET	SV23-8FEET	SV23-8FEET	SV24-25FEET
Sample Date			8/30/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/28/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			20	10	80	10	25	10
Lab Sample ID			X4234-15DL	X4234-06	X4234-06DL	X4234-05	X4234-05DL	X4234-02
Chemical Name	CAS	OSWER GUIDANCE						
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 12.02 U	< 6.01 U	< 48.1 U	6.01 J	< 15.03 U	< 6.01 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 12.02 U	35.5	< 48.1 U	7.21	< 15.03 U	< 6.01 U
Dichlorodifluoromethane	75-71-8	2000.00	< 19.8 U	7.42	< 79.18 U	12.9	< 24.74 U	4.95 J
Dichlorotetrafluoroethane	76-14-2	---	< 13.99 U	< 6.99 U	< 55.95 U	< 6.99 U	< 17.48 U	< 6.99 U
Ethyl acetate	141-78-6	32000.00	73.4 D	< 3.6 U	< 28.79 U	61.9	< 9 U	385
Ethylbenzene	100-41-4	220.00	< 8.67 U	47.3	45.1 D	105	117 D	92.3
Ethylene dibromide	106-93-4	0.11	< 15.38 U	< 7.69 U	< 61.51 U	< 7.69 U	< 19.22 U	< 7.69 U
Hexachlorobutadiene	87-68-3	1.10	< 21.35 U	34.2 B	< 85.4 U	13.9	< 26.69 U	36.3 B
Isopropyl alcohol	67-63-0	—	693 D	556 E	593 D	897 E	792 D	64.8
m/p-Xylene	126777-61-2	7000.00	< 17.34 U	104	62.4 JD	315	377 D	301
Methyl chloride	74-87-3	240.00	< 8.18 U	< 2.04 U	< 32.72 U	< 2.04 U	< 10.22 U	< 2.04 U
Methyl ethyl ketone	78-93-3	10000.00	27.7 D	24.7	< 47.12 U	25.9	< 14.72 U	286
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 7.2 U	< 3.6 U	< 28.79 U	38.9	< 9 U	36
Methylene chloride	75-09-2	520.00	< 13.91 U	< 6.95 U	< 55.62 U	< 6.95 U	< 17.38 U	< 6.95 U
Heptane	142-82-5	---	< 8.18 U	213	157 D	21.3	12.3 D	44.2
Hexane	110-54-3	2000.00	< 14.07 U	291	225 D	< 7.03 U	< 17.59 U	440
Styrene	100-42-5	10000.00	< 8.51 U	27.2	< 34.03 U	20	< 10.63 U	26.8
Tetrachloroethene	127-18-4	8.10	< 13.58 U	20.4	< 54.31 U	35.3 B	32.2 D	17.7
Tetrahydrofuran	109-99-9	---	< 11.78 U	< 5.89 U	< 47.12 U	16.5	< 14.72 U	19.7
Toluene	108-88-3	4000.00	61.7 D	569	566 D	648	948 D	1075 E
trans-1,2-Dichloroethene	156-60-5	700.00	< 15.87 U	< 3.97 U	< 63.48 U	< 3.97 U	< 19.84 U	< 3.97 U
trans-1,3-Dichloropropene	10061-02-6	---	< 18.16 U	< 4.54 U	< 72.64 U	< 4.54 U	< 22.7 U	< 4.54 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 14.81 U	59.2	< 59.22 U	14.1	< 18.51 U	60
Trichloroethene	79-01-6	0.22	< 10.72 U	5.36 J	< 42.86 U	8.04	< 13.39 U	6.97
Trichlorofluoromethane	75-69-4	7000.00	< 22.41 U	5.6 J	< 89.65 U	12.3	< 28.02 U	< 5.6 U
Vinyl acetate	108-05-4	2000.00	< 7.03 U	< 3.52 U	< 28.14 U	< 3.52 U	< 8.79 U	< 3.52 U
Vinyl chloride	75-01-4	2.80	< 10.22 U	< 2.56 U	< 40.9 U	4.6	< 12.78 U	< 2.56 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV24-25FEET	SV24-8FEET	SV24-8FEET	SV25-27FEET	SV25-27FEET	SV25-8FEET	SV25-8FEET
Sample Date			8/28/2006	8/28/2006	8/28/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			20	10	20	10	20	10	56
Lab Sample ID			X4234-02DL	X4234-01	X4234-01DL	X4234-04	X4234-04DL	X4234-03	X4234-03DL
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	< 10.88 U	< 5.44 U	< 21.76 U	< 5.44 U	< 10.88 U	7.62	< 59.84 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 13.74 U	< 6.87 U	< 13.74 U	< 6.87 U	< 13.74 U	< 6.87 U	< 38.48 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 15.3 U	10.7	< 15.3 U	< 7.65 U	< 15.3 U	12.2	< 42.83 U
1,1,2-Trichloroethane	79-00-5	1.50	< 10.88 U	< 5.44 U	< 10.88 U	< 5.44 U	< 10.88 U	< 5.44 U	< 30.46 U
1,1-Dichloroethane	75-34-3	5000.00	< 8.1 U	< 4.05 U	< 16.2 U	< 4.05 U	< 8.1 U	< 4.05 U	< 44.54 U
1,1-Dichloroethene	75-35-4	2000.00	< 7.93 U	< 3.97 U	< 15.87 U	< 3.97 U	< 7.93 U	< 3.97 U	< 43.64 U
1,2,4-Trimethylbenzene	95-63-6	60.00	195 D	27	16.7 D	41.2	38.3 D	118	124 D
1,2-Dichloroethane	107-06-2	0.94	< 8.1 U	< 4.05 U	< 8.1 U	< 4.05 U	< 8.1 U	< 4.05 U	< 22.67 U
1,2-Dichloropropane	78-87-5	40.00	< 9.24 U	< 4.62 U	< 9.24 U	< 4.62 U	< 9.24 U	< 4.62 U	< 25.88 U
1,2-Xylene	95-47-6	70000.00	96.2 D	16.5	11.3 D	19.5	19.1 D	42.9	41.3 D
1,3,5-Trimethylbenzene	108-67-8	60.00	93.3 D	12.3	< 9.82 U	27	18.7 D	42.2	49.5 D
1,3-Butadiene	106-99-0	870.00	< 4.42 U	< 2.21 U	< 8.83 U	< 2.21 U	< 4.42 U	< 2.21 U	< 24.29 U
1,4-Dioxane	123-91-1	—	< 14.4 U	< 7.2 U	< 14.4 U	< 7.2 U	< 14.4 U	< 7.2 U	< 39.59 U
1-Propene	115-07-1	---	48.1 D	< 1.72 U	< 17.18 U	19.4	27.5 D	1126 E	948 D
2,2,4-Trimethylpentane	540-84-1	—	14.9 D	9.33	< 9.33 U	< 4.66 U	< 9.33 U	33.1	31.3 D
2-Hexanone	591-78-6	---	< 16.36 U	13.5	< 16.36 U	13.9	< 16.36 U	< 8.18 U	< 44.99 U
4-Ethyltoluene	622-96-8	---	96.2 D	25.5	< 9.82 U	28	46.1 D	50.6	85.2 D
4-Methyl-2-pentanone	108-10-1	800.00	< 16.36 U	9	< 16.36 U	< 8.18 U	< 16.36 U	8.18 J	< 44.99 U
Acetone	67-64-1	3500.00	287 DB	566 EB	492 D	47 B	97.7 DB	149 B	< 26.09 U
Allyl chloride	107-05-1	---	< 6.3 U	< 3.15 U	< 12.6 U	< 3.15 U	< 6.3 U	< 3.15 U	< 34.64 U
Benzene	71-43-2	3.10	31.9 D	34.1	31.3 D	7.34	12.8 D	22.3	25 D
Benzyl chloride	100-44-7	0.50	< 11.53 U	< 5.77 U	< 11.53 U	< 5.77 U	< 11.53 U	< 5.77 U	< 32.29 U
Bromodichloromethane	75-27-4	1.40	< 13.42 U	< 6.71 U	< 13.42 U	< 6.71 U	< 13.42 U	< 6.71 U	< 37.56 U
Bromoethene	593-60-2	---	< 8.75 U	< 4.38 U	< 17.51 U	< 4.38 U	< 8.75 U	< 4.38 U	< 48.14 U
Bromoform	75-25-2	22.00	< 20.7 U	< 10.35 U	< 20.7 U	< 10.35 U	< 20.7 U	< 10.35 U	< 57.95 U
Bromomethane	74-83-9	50.00	< 7.77 U	6.22	< 15.54 U	< 3.89 U	< 7.77 U	< 3.89 U	< 42.74 U
Carbon disulfide	75-15-0	7000.00	< 6.22 U	17.7	13.1 D	7.77	14.3 D	171	141 D
Carbon tetrachloride	56-23-5	1.60	< 12.6 U	< 6.3 U	< 12.6 U	< 6.3 U	< 12.6 U	6.93	< 35.27 U
Chlorobenzene	108-90-7	600.00	< 9.24 U	8.78	< 9.24 U	< 4.62 U	< 9.24 U	< 4.62 U	< 25.88 U
Chloroethane	75-00-3	100000.00	< 5.32 U	< 2.66 U	< 10.63 U	< 2.66 U	< 5.32 U	3.46	< 29.24 U
Chloroform	67-66-3	1.10	10.7 D	7.79	< 19.47 U	< 4.87 U	11.7 D	17.5	< 53.54 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 7.93 U	< 3.97 U	< 7.93 U	< 3.97 U	< 7.93 U	< 3.97 U	< 22.22 U
cis-1,3-Dichloropropene	10061-01-5	—	< 9.08 U	< 4.54 U	< 9.08 U	< 4.54 U	< 9.08 U	< 4.54 U	< 25.42 U
Cyclohexane	110-82-7	---	22.8 D	37.9	35.6 D	< 3.35 U	< 6.71 U	38.2	< 36.89 U
Dibromochloromethane	124-48-1	1.00	< 17.01 U	< 8.51 U	< 17.01 U	< 8.51 U	< 17.01 U	< 8.51 U	< 47.64 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 12.02 U	< 6.01 U	< 12.02 U	33.1	< 12.02 U	< 6.01 U	< 33.67 U

Table 1: New Cassel Analyte Summary

Sample ID			SV24-25FEET	SV24-8FEET	SV24-8FEET	SV25-27FEET	SV25-27FEET	SV25-8FEET	SV25-8FEET
Sample Date			8/28/2006	8/28/2006	8/28/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			20	10	20	10	20	10	56
Lab Sample ID			X4234-02DL	X4234-01	X4234-01DL	X4234-04	X4234-04DL	X4234-03	X4234-03DL
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 12.02 U	< 6.01 U	< 12.02 U	< 6.01 U	< 12.02 U	< 6.01 U	< 33.67 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 12.02 U	6.61	< 12.02 U	36.1	< 12.02 U	6.01 J	< 33.67 U
Dichlorodifluoromethane	75-71-8	2000.00	12.9 D	8.41	< 19.8 U	5.94	15.8 D	10.9	< 54.44 U
Dichlorotetrafluoroethane	76-14-2	---	< 13.99 U	< 6.99 U	< 13.99 U	< 6.99 U	< 13.99 U	< 6.99 U	< 39.17 U
Ethyl acetate	141-78-6	32000.00	379 D	492	< 7.2 U	72.3	79.2 D	148	< 20.16 U
Ethylbenzene	100-41-4	220.00	121 D	22.5	12.1 D	22.1	29.5 D	46	41.3 D
Ethylene dibromide	106-93-4	0.11	< 15.38 U	< 7.69 U	< 15.38 U	< 7.69 U	< 15.38 U	< 7.69 U	< 43.06 U
Hexachlorobutadiene	87-68-3	1.10	< 21.35 U	< 10.67 U	< 21.35 U	36.3 B	< 21.35 U	11.7	< 59.78 U
Isopropyl alcohol	67-63-0	---	75.6 D	91	79 D	599 E	801 D	861 E	668 D
m/p-Xylene	126777-61-2	7000.00	530 D	46.8	19.1 D	44.7	44.2 D	134	94.7 D
Methyl chloride	74-87-3	240.00	< 4.09 U	3.89	< 8.18 U	< 2.04 U	< 4.09 U	< 2.04 U	< 22.49 U
Methyl ethyl ketone	78-93-3	10000.00	469 D	672 E	669 D	14.4	27.1 D	26.5	< 32.39 U
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	31.7 D	< 3.6 U	< 7.2 U	6.12	10.8 D	< 3.6 U	< 20.16 U
Methylene chloride	75-09-2	520.00	< 13.91 U	29.6	25 D	< 6.95 U	< 13.91 U	< 6.95 U	< 38.24 U
Heptane	142-82-5	---	36.8 D	56.4	42.5 D	8.59	11.5 D	121	87 D
Hexane	110-54-3	2000.00	383 D	580	535 D	< 7.03 U	< 14.07 U	132	112 D
Styrene	100-42-5	10000.00	37.4 D	20	< 8.51 U	25.9	36.6 D	21.3	< 23.82 U
Tetrachloroethene	127-18-4	8.10	27.2 DB	14.9 B	< 13.58 U	15.6	23.1 DB	55 B	60.8 D
Tetrahydrofuran	109-99-9	---	23 D	< 5.89 U	< 11.78 U	6.18	< 11.78 U	< 5.89 U	< 32.39 U
Toluene	108-88-3	4000.00	852 D	535	640 D	115	96.3 D	223	234 D
trans-1,2-Dichloroethene	156-60-5	700.00	< 7.93 U	< 3.97 U	< 15.87 U	< 3.97 U	< 7.93 U	< 3.97 U	< 43.64 U
trans-1,3-Dichloropropene	10061-02-6	---	< 9.08 U	< 4.54 U	< 18.16 U	< 4.54 U	< 9.08 U	< 4.54 U	< 49.94 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 14.81 U	< 7.4 U	< 14.81 U	58.5	< 14.81 U	14.1	< 41.46 U
Trichloroethene	79-01-6	0.22	15 D	14.5	10.7 JD	< 5.36 U	< 10.72 U	8.57	< 30 U
Trichlorofluoromethane	75-69-4	7000.00	< 11.21 U	9.53	< 22.41 U	< 5.6 U	< 11.21 U	14	< 61.64 U
Vinyl acetate	108-05-4	2000.00	< 7.03 U	< 3.52 U	< 7.03 U	< 3.52 U	< 7.03 U	< 3.52 U	< 19.7 U
Vinyl chloride	75-01-4	2.80	< 5.11 U	< 2.56 U	< 10.22 U	< 2.56 U	< 5.11 U	4.09	< 28.12 U

Units = ug/ m3
J = Estimated Value
E = Value exceeds calibration range
D = Sample diluted prior to analysis
U = Undetected
B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1
2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV-26-30FEET	SV-26-30FEET	SV-26-8FEET	SV-26-8FEET	SV26 FIELD DUP2 - 8 Ft	SV26 FIELD DUP2 - 8 Ft
Sample Date			9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			2	10	2	10	2	20
Lab Sample ID			X4317-10	X4317-10DL	X4317-09	X4317-09DL	X4317-11	X4317-11DL
Chemical Name	CAS	OSWER GUIDANCE						
1,1,1-Trichloroethane	71-55-6	22000.00	< 2.18 U	36.4 D	88	74.5 D	79.5	66.4 D
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 6.87 U	< 1.37 U	< 6.87 U	< 1.37 U	< 13.74 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 1.53 U	< 7.65 U	< 1.53 U	< 7.65 U	< 1.53 U	< 15.3 U
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 5.44 U	< 1.09 U	< 5.44 U	< 1.09 U	< 10.88 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	8.91 D	< 1.62 U	< 8.1 U	< 1.62 U	< 16.2 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 7.93 U	< 1.59 U	< 7.93 U	< 1.59 U	< 15.87 U
1,2,4-Trimethylbenzene	95-63-6	60.00	3.93	17.7 D	51.7	36.8 D	41.4	26.5 D
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 4.05 U	< 0.81 U	< 4.05 U	< 0.81 U	< 8.1 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 4.62 U	< 0.92 U	< 4.62 U	< 0.92 U	< 9.24 U
1,2-Xylene	95-47-6	70000.00	1.39	7.37 D	14.5	9.54 D	12.1	< 8.67 U
1,3,5-Trimethylbenzene	108-67-8	60.00	1.28	6.38 D	14.5	9.33 D	11.4	< 9.82 U
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 4.42 U	< 0.88 U	< 4.42 U	< 0.88 U	< 8.83 U
1,4-Dioxane	123-91-1	—	< 1.44 U	< 7.2 U	< 1.44 U	< 7.2 U	< 1.44 U	< 14.4 U
1-Propene	115-07-1	---	9.55	< 8.59 U	183 E	237 D	198 E	214 D
2,2,4-Trimethylpentane	540-84-1	—	< 0.93 U	< 4.66 U	2.7	< 4.66 U	2.05	< 9.33 U
2-Hexanone	591-78-6	---	3.68	< 8.18 U	7.12	< 8.18 U	6.13	< 16.36 U
4-Ethyltoluene	622-96-8	—	2.65	12.3 D	9.42	13.7 D	7.85	21.6 D
4-Methyl-2-pentanone	108-10-1	800.00	14.2	< 8.18 U	4.09	< 8.18 U	10.8	< 16.36 U
Acetone	67-64-1	3500.00	122 EB	123 DB	149 EB	140 DB	184 EB	165 DB
Allyl chloride	107-05-1	---	< 1.26 U	< 6.3 U	< 1.26 U	< 6.3 U	< 1.26 U	< 12.6 U
Benzene	71-43-2	3.10	1.72	8.29 D	8.93	6.38 D	7.78	6.38 JD
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 5.77 U	< 1.15 U	< 5.77 U	< 1.15 U	< 11.53 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 6.71 U	< 1.34 U	< 6.71 U	< 1.34 U	< 13.42 U
Bromoethene	593-60-2	---	< 1.75 U	< 8.75 U	< 1.75 U	< 8.75 U	< 1.75 U	< 17.51 U
Bromoform	75-25-2	22.00	< 2.07 U	< 10.35 U	< 2.07 U	< 10.35 U	< 2.07 U	< 20.7 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 7.77 U	< 1.55 U	< 7.77 U	< 1.55 U	< 15.54 U
Carbon disulfide	75-15-0	7000.00	< 1.24 U	< 6.22 U	7.96	7.46 D	7.65	< 12.43 U
Carbon tetrachloride	56-23-5	1.60	< 1.26 U	10.7 D	7.43	< 6.3 U	6.3	< 12.6 U
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 4.62 U	< 0.92 U	< 4.62 U	< 0.92 U	< 9.24 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 5.32 U	< 1.06 U	< 5.32 U	< 1.06 U	< 10.63 U
Chloroform	67-66-3	1.10	12.9	44.8 D	20.8	16.1 D	17.6	< 19.47 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 3.97 U	< 0.79 U	< 3.97 U	< 0.79 U	< 7.93 U
cis-1,3-Dichloropropene	10061-01-5	—	< 0.91 U	< 4.54 U	< 0.91 U	< 4.54 U	< 0.91 U	< 9.08 U
Cyclohexane	110-82-7	---	< 1.34 U	< 6.71 U	< 1.34 U	< 6.71 U	< 1.34 U	< 13.42 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 8.51 U	< 1.7 U	< 8.51 U	< 1.7 U	< 17.01 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 6.01 U	< 1.2 U	< 6.01 U	< 1.2 U	< 12.02 U

Table 1: New Cassel Analyte Summary

Sample ID			SV-26-30FEET	SV-26-30FEET	SV-26-8FEET	SV-26-8FEET	SV26 FIELD DUP2 - 8 Ft	SV26 FIELD DUP2 - 8 Ft
Sample Date			9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006	9/6/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			2	10	2	10	2	20
Lab Sample ID			X4317-10	X4317-10DL	X4317-09	X4317-09DL	X4317-11	X4317-11DL
Chemical Name	CAS	OSWER GUIDANCE						
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 6.01 U	< 1.2 U	< 6.01 U	< 1.2 U	< 12.02 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	1.32	< 6.01 U	1.8	< 6.01 U	< 1.2 U	< 12.02 U
Dichlorodifluoromethane	75-71-8	2000.00	< 1.98 U	< 9.9 U	< 1.98 U	17.8 D	15.4	< 19.8 U
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 6.99 U	< 1.4 U	< 6.99 U	< 1.4 U	< 13.99 U
Ethyl acetate	141-78-6	32000.00	114	165 D	81.1	56.9 D	71.1	< 7.2 U
Ethylbenzene	100-41-4	220.00	1.47	6.94 D	12.5	7.37 D	11.7	< 8.67 U
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 7.69 U	< 1.54 U	< 7.69 U	< 1.54 U	< 15.38 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 10.67 U	< 2.13 U	< 10.67 U	< 2.13 U	< 21.35 U
Isopropyl alcohol	67-63-0	—	8.64	< 4.91 U	6.04	5.64 D	8.34	< 9.82 U
m/p-Xylene	126777-61-2	7000.00	2.95	12.1 D	33.7	18.6 D	29.5	10.4 JD
Methyl chloride	74-87-3	240.00	< 0.82 U	< 4.09 U	< 0.82 U	< 4.09 U	< 0.82 U	< 8.18 U
Methyl ethyl ketone	78-93-3	10000.00	10.1	31.2 D	43	30.3 D	40.5	33 D
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	< 3.6 U	< 0.72 U	< 3.6 U	< 0.72 U	< 7.2 U
Methylene chloride	75-09-2	520.00	1.46	< 6.95 U	< 1.39 U	< 6.95 U	< 1.39 U	< 13.91 U
Heptane	142-82-5	—	1.23	10.2 D	19.4	< 4.09 U	17.1	11.5 D
Hexane	110-54-3	2000.00	< 1.41 U	< 7.03 U	30.5	< 7.03 U	30.4	< 14.07 U
Styrene	100-42-5	10000.00	< 0.85 U	< 4.25 U	4.17	< 4.25 U	2.81	< 8.51 U
Tetrachloroethene	127-18-4	8.10	2.72	7.47 D	12.9	12.9 DB	11.8	21.7 DB
Tetrahydrofuran	109-99-9	—	< 1.18 U	< 5.89 U	< 1.18 U	< 5.89 U	< 1.18 U	< 11.78 U
Toluene	108-88-3	4000.00	9.41	76 D	115	79.8 D	138	82.8 D
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 7.93 U	< 1.59 U	< 7.93 U	< 1.59 U	< 15.87 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 9.08 U	< 1.82 U	< 9.08 U	< 1.82 U	< 18.16 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	2.52	< 7.4 U	3.55	< 7.4 U	< 1.48 U	< 14.81 U
Trichloroethene	79-01-6	0.22	2.14	9.64 D	6.43	< 5.36 U	5.57	< 10.72 U
Trichlorofluoromethane	75-69-4	7000.00	< 2.24 U	< 11.21 U	4.26	< 11.21 U	4.37	< 22.41 U
Vinyl acetate	108-05-4	2000.00	< 0.7 U	< 3.52 U	< 0.7 U	< 3.52 U	< 0.7 U	< 7.03 U
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 5.11 U	< 1.02 U	< 5.11 U	< 1.02 U	< 10.22 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV27-40FEET	SV27-40FEET	SV27-8FEET	SV27 FIELD DUP - 8 Ft	SV28-40FEET	SV28-40FEET
Sample Date			9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Initial	Initial	Dilution
Dilution Factor			10	60	2	2	2	20
Lab Sample ID			X4547-16	X4547-16DL	X4547-15	X4547-17	X4547-08	X4547-08DL
Chemical Name	CAS	OSWER GUIDANCE						
1,1,1-Trichloroethane	71-55-6	22000.00	< 10.88 U	< 65.28 U	< 2.18 U	2.61	2.18 J	< 21.76 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 6.87 U	< 41.23 U	< 1.37 U	< 1.37 U	< 1.37 U	< 13.74 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 7.65 U	< 45.89 U	< 1.53 U	< 1.53 U	< 1.53 U	< 15.3 U
1,1,2-Trichloroethane	79-00-5	1.50	< 5.44 U	< 32.64 U	< 1.09 U	< 1.09 U	< 1.09 U	< 10.88 U
1,1-Dichloroethane	75-34-3	5000.00	< 8.1 U	< 48.59 U	< 1.62 U	< 1.62 U	< 1.62 U	< 16.2 U
1,1-Dichloroethene	75-35-4	2000.00	< 7.93 U	< 47.61 U	< 1.59 U	< 1.59 U	< 1.59 U	< 15.87 U
1,2,4-Trimethylbenzene	95-63-6	60.00	16.2	50.1 D	4.91	6.77	1.28	< 9.82 U
1,2-Dichloroethane	107-06-2	0.94	< 4.05 U	< 24.29 U	< 0.81 U	< 0.81 U	< 0.81 U	< 8.1 U
1,2-Dichloropropane	78-87-5	40.00	< 4.62 U	< 27.73 U	< 0.92 U	< 0.92 U	< 0.92 U	185 D
1,2-Xylene	95-47-6	70000.00	38.2	72.8 D	3.99	5.03	1.82	< 8.67 U
1,3,5-Trimethylbenzene	108-67-8	60.00	8.34	35.3 D	1.96	2.94	< 0.98 U	< 9.82 U
1,3-Butadiene	106-99-0	870.00	< 4.42 U	< 26.5 U	< 0.88 U	< 0.88 U	< 0.88 U	< 8.83 U
1,4-Dioxane	123-91-1	---	< 7.2 U	< 43.19 U	< 1.44 U	< 1.44 U	< 1.44 U	< 14.4 U
1-Propene	115-07-1	---	1620 E	3808 ED	8.21	< 1.72 U	< 1.72 U	10.7 JD
2,2,4-Trimethylpentane	540-84-1	---	89.1	145 D	1.96	3.73	< 0.93 U	< 9.33 U
2-Hexanone	591-78-6	---	< 8.18 U	< 49.08 U	2.21	2.62	< 1.64 U	< 16.36 U
4-Ethyltoluene	622-96-8	---	7.36	< 29.45 U	1.77	2.45	< 0.98 U	< 9.82 U
4-Methyl-2-pentanone	108-10-1	800.00	< 8.18 U	< 49.08 U	1.96	3.19	2.37	< 16.36 U
Acetone	67-64-1	3500.00	< 4.74 U	< 28.47 U	30.7	33	76.5	80.2 D
Allyl chloride	107-05-1	---	< 6.3 U	< 37.79 U	< 1.26 U	< 1.26 U	< 1.26 U	< 12.6 U
Benzene	71-43-2	3.10	94.4	149 D	2.68	5.74	4.59	< 6.38 U
Benzyl chloride	100-44-7	0.50	< 5.77 U	< 34.6 U	< 1.15 U	< 1.15 U	< 1.15 U	41.5 D
Bromodichloromethane	75-27-4	1.40	< 6.71 U	< 40.25 U	< 1.34 U	< 1.34 U	< 1.34 U	< 13.42 U
Bromoethene	593-60-2	---	< 8.75 U	< 52.52 U	< 1.75 U	< 1.75 U	< 1.75 U	< 17.51 U
Bromoform	75-25-2	22.00	< 10.35 U	< 62.09 U	< 2.07 U	< 2.07 U	< 2.07 U	< 20.7 U
Bromomethane	74-83-9	50.00	< 7.77 U	< 46.63 U	< 1.55 U	< 1.55 U	< 1.55 U	12.4 JD
Carbon disulfide	75-15-0	7000.00	75.2	121 D	2.86	3.29	2.55	< 12.43 U
Carbon tetrachloride	56-23-5	1.60	< 6.3 U	< 37.79 U	< 1.26 U	< 1.26 U	< 1.26 U	< 12.6 U
Chlorobenzene	108-90-7	600.00	< 4.62 U	< 27.73 U	< 0.92 U	< 0.92 U	< 0.92 U	< 9.24 U
Chloroethane	75-00-3	100000.00	< 5.32 U	< 31.9 U	< 1.06 U	< 1.06 U	< 1.06 U	14.4 D
Chloroform	67-66-3	1.10	< 9.73 U	< 58.4 U	< 1.95 U	2.04	< 1.95 U	< 19.47 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 3.97 U	< 23.8 U	< 0.79 U	< 0.79 U	< 0.79 U	31.7 D
cis-1,3-Dichloropropene	10061-01-5	---	< 4.54 U	< 27.24 U	< 0.91 U	< 0.91 U	< 0.91 U	< 9.08 U
Cyclohexane	110-82-7	---	59	103 D	3.42	< 1.34 U	< 1.34 U	8.05 JD
Dibromochloromethane	124-48-1	1.00	< 8.51 U	< 51.04 U	< 1.7 U	< 1.7 U	< 1.7 U	< 17.01 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 6.01 U	< 36.07 U	1.32	1.92	< 1.2 U	< 12.02 U

Table 1: New Cassel Analyte Summary

Sample ID			SV27-40FEET	SV27-40FEET	SV27-8FEET	SV27 FIELD DUP - 8 Ft	SV28-40FEET	SV28-40FEET
Sample Date			9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Initial	Initial	Dilution
Dilution Factor			10	60	2	2	2	20
Lab Sample ID			X4547-16	X4547-16DL	X4547-15	X4547-17	X4547-08	X4547-08DL
Chemical Name	CAS	OSWER GUIDANCE						
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 6.01 U	< 36.07 U	< 1.2 U	1.68	< 1.2 U	< 12.02 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 6.01 U	< 36.07 U	1.44	2.16	< 1.2 U	< 12.02 U
Dichlorodifluoromethane	75-71-8	2000.00	< 9.9 U	< 59.39 U	2.87	3.46	< 1.98 U	< 19.8 U
Dichlorotetrafluoroethane	76-14-2	---	< 6.99 U	< 41.96 U	< 1.4 U	< 1.4 U	< 1.4 U	83.9 D
Ethyl acetate	141-78-6	32000.00	< 3.6 U	< 21.6 U	59.6	22.9	128	128 D
Ethylbenzene	100-41-4	220.00	49.4	83.2 D	5.64	6.33	2.95	< 8.67 U
Ethylene dibromide	106-93-4	0.11	< 7.69 U	< 46.13 U	< 1.54 U	< 1.54 U	< 1.54 U	< 15.38 U
Hexachlorobutadiene	87-68-3	1.10	< 10.67 U	< 64.05 U	< 2.13 U	< 2.13 U	< 2.13 U	< 21.35 U
Isopropyl alcohol	67-63-0	---	< 4.91 U	< 29.45 U	13.8	3.88	25.3	26 D
m/p-Xylene	126777-61-2	7000.00	102	179 D	12.4	14.2	5.72	< 17.34 U
Methyl chloride	74-87-3	240.00	< 4.09 U	< 24.54 U	< 0.82 U	< 0.82 U	< 0.82 U	52.8 D
Methyl ethyl ketone	78-93-3	10000.00	10.9	< 35.34 U	14	7.19	7.36	9.42 JD
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 3.6 U	< 21.6 U	< 0.72 U	< 0.72 U	< 0.72 U	< 7.2 U
Methylene chloride	75-09-2	520.00	< 6.95 U	< 41.72 U	1.74	3.27	< 1.39 U	15.3 D
Heptane	142-82-5	---	117	147 D	3.93	5.64	4.83	< 8.18 U
Hexane	110-54-3	2000.00	393	568 D	17.4	10.6	< 1.41 U	13.4 JD
Styrene	100-42-5	10000.00	5.96	< 25.52 U	1.45	1.28	< 0.85 U	< 8.51 U
Tetrachloroethene	127-18-4	8.10	24.4	65.2 D	47.9	31.2	54.2	62.5 D
Tetrahydrofuran	109-99-9	---	< 5.89 U	< 35.34 U	1.71	< 1.18 U	1.53	< 11.78 U
Toluene	108-88-3	4000.00	461	619 D	126	47.4	83.5	89.6 D
trans-1,2-Dichloroethene	156-60-5	700.00	< 7.93 U	< 47.61 U	< 1.59 U	< 1.59 U	< 1.59 U	< 15.87 U
trans-1,3-Dichloropropene	10061-02-6	---	< 9.08 U	< 54.48 U	< 1.82 U	< 1.82 U	< 1.82 U	< 18.16 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	12.6	< 44.42 U	3.55	4.59	< 1.48 U	< 14.81 U
Trichloroethene	79-01-6	0.22	< 5.36 U	< 32.15 U	1.39	1.93	2.25	< 10.72 U
Trichlorofluoromethane	75-69-4	7000.00	< 11.21 U	< 67.24 U	< 2.24 U	2.8	3.14	< 22.41 U
Vinyl acetate	108-05-4	2000.00	< 3.52 U	< 21.1 U	< 0.7 U	< 0.7 U	< 0.7 U	< 7.03 U
Vinyl chloride	75-01-4	2.80	< 5.11 U	< 30.67 U	< 1.02 U	< 1.02 U	< 1.02 U	< 10.22 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV28-8FEET	SV28-8FEET	SV29-35FEET	SV29-35FEET	SV29-8FEET	SV29-8FEET	SV30-30FEET
Sample Date			9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/22/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	20	2	20	2	20	1
Lab Sample ID			X4547-07	X4547-07DL	X4547-10	X4547-10DL	X4547-09	X4547-09DL	X4683-02
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	< 2.18 U	< 21.76 U	< 2.18 U	< 21.76 U	< 2.18 U	< 21.76 U	3.48
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 13.74 U	< 1.37 U	< 13.74 U	< 1.37 U	< 13.74 U	< 0.69 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 1.53 U	< 15.3 U	10.9	< 15.3 U	< 1.53 U	< 15.3 U	2.52
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 10.88 U	< 1.09 U	< 10.88 U	< 1.09 U	< 10.88 U	< 0.54 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 16.2 U	< 1.62 U	< 16.2 U	< 1.62 U	< 16.2 U	< 0.81 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 0.79 U
1,2,4-Trimethylbenzene	95-63-6	60.00	22.9	23.6 D	5.69	< 9.82 U	3.04	< 9.82 U	1.62
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 8.1 U	< 0.81 U	< 8.1 U	< 0.81 U	< 8.1 U	< 0.4 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.46 U
1,2-Xylene	95-47-6	70000.00	22.5	23.4 D	7.02	< 8.67 U	3.73	< 8.67 U	1.43
1,3,5-Trimethylbenzene	108-67-8	60.00	7.17	< 9.82 U	1.57	< 9.82 U	1.18	< 9.82 U	1.13
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 8.83 U	< 0.88 U	< 8.83 U	< 0.88 U	< 8.83 U	< 0.44 U
1,4-Dioxane	123-91-1	—	< 1.44 U	< 14.4 U	< 1.44 U	< 14.4 U	< 1.44 U	< 14.4 U	< 0.72 U
1-Propene	115-07-1	---	< 1.72 U	< 17.18 U	< 1.72 U	< 17.18 U	< 1.72 U	< 17.18 U	4.11
2,2,4-Trimethylpentane	540-84-1	—	< 0.93 U	< 9.33 U	2.98	< 9.33 U	2.8	< 9.33 U	1.4
2-Hexanone	591-78-6	---	2.37	< 16.36 U	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U	1.15
4-Ethyltoluene	622-96-8	—	8.15	11.8 D	2.65	< 9.82 U	2.16	< 9.82 U	1.18
4-Methyl-2-pentanone	108-10-1	800.00	11.7	< 16.36 U	< 1.64 U	< 16.36 U	4.99	< 16.36 U	1.31
Acetone	67-64-1	3500.00	198 E	227 D	135 E	146 D	77	87.3 D	60.1 E
Allyl chloride	107-05-1	---	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 0.63 U
Benzene	71-43-2	3.10	14.6	18.5 D	8.49	10.8 D	3.76	< 6.38 U	2.17
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 11.53 U	< 1.15 U	< 11.53 U	< 1.15 U	< 11.53 U	< 0.58 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	< 0.67 U
Bromoethene	593-60-2	---	< 1.75 U	< 17.51 U	< 1.75 U	< 17.51 U	< 1.75 U	< 17.51 U	< 0.88 U
Bromoform	75-25-2	22.00	< 2.07 U	< 20.7 U	< 2.07 U	< 20.7 U	< 2.07 U	< 20.7 U	< 1.03 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 15.54 U	< 1.55 U	< 15.54 U	< 1.55 U	< 15.54 U	< 0.78 U
Carbon disulfide	75-15-0	7000.00	9.82	16.2 D	< 1.24 U	< 12.43 U	5.6	< 12.43 U	2.3
Carbon tetrachloride	56-23-5	1.60	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 0.63 U
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.46 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 10.63 U	< 1.06 U	< 10.63 U	< 1.06 U	< 10.63 U	< 0.53 U
Chloroform	67-66-3	1.10	< 1.95 U	< 19.47 U	2.53	< 19.47 U	< 1.95 U	< 19.47 U	5.65
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 7.93 U	< 0.79 U	< 7.93 U	< 0.79 U	< 7.93 U	< 0.4 U
cis-1,3-Dichloropropene	10061-01-5	—	< 0.91 U	< 9.08 U	< 0.91 U	< 9.08 U	< 0.91 U	< 9.08 U	< 0.45 U
Cyclohexane	110-82-7	---	3.56	< 13.42 U	5.37	< 13.42 U	4.76	< 13.42 U	< 0.67 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 17.01 U	< 1.7 U	< 17.01 U	< 1.7 U	< 17.01 U	< 0.85 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	1.2

Table 1: New Cassel Analyte Summary

Sample ID			SV28-8FEET	SV28-8FEET	SV29-35FEET	SV29-35FEET	SV29-8FEET	SV29-8FEET	SV30-30FEET
Sample Date			9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/20/2006	9/22/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	20	2	20	2	20	1
Lab Sample ID			X4547-07	X4547-07DL	X4547-10	X4547-10DL	X4547-09	X4547-09DL	X4683-02
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	1.08
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	1.68
Dichlorodifluoromethane	75-71-8	2000.00	< 1.98 U	< 19.8 U	< 1.98 U	< 19.8 U	< 1.98 U	< 19.8 U	4.06
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 13.99 U	< 1.4 U	< 13.99 U	< 1.4 U	< 13.99 U	1.54
Ethyl acetate	141-78-6	32000.00	114	123 D	107	107 D	120	127 D	16.8
Ethylbenzene	100-41-4	220.00	19.4	20.8 D	7.8	< 8.67 U	5.46	< 8.67 U	1.95
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 15.38 U	< 1.54 U	< 15.38 U	< 1.54 U	< 15.38 U	< 0.77 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 21.35 U	< 2.13 U	< 21.35 U	< 2.13 U	< 21.35 U	< 1.07 U
Isopropyl alcohol	67-63-0	—	31.6	< 9.82 U	< 0.98 U	< 9.82 U	18.7	26 D	3.56
m/p-Xylene	126777-61-2	7000.00	63.6	68.5 D	21.4	20.8 D	12.1	13 JD	3.6
Methyl chloride	74-87-3	240.00	< 0.82 U	< 8.18 U	< 0.82 U	< 8.18 U	< 0.82 U	< 8.18 U	< 0.41 U
Methyl ethyl ketone	78-93-3	10000.00	24.7	25.9 D	23.8	< 11.78 U	23.1	25.9 D	3.74
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	< 7.2 U	< 0.72 U	< 7.2 U	< 0.72 U	< 7.2 U	1.04
Methylene chloride	75-09-2	520.00	9.32	< 13.91 U	< 1.39 U	< 13.91 U	12	16 D	5.21
Heptane	142-82-5	—	12	14.7 D	5.32	< 8.18 U	3.44	< 8.18 U	2.17
Hexane	110-54-3	2000.00	< 1.41 U	< 14.07 U	< 1.41 U	< 14.07 U	< 1.41 U	< 14.07 U	< 0.7 U
Styrene	100-42-5	10000.00	3.83	< 8.51 U	1.62	< 8.51 U	1.45	< 8.51 U	< 0.43 U
Tetrachloroethene	127-18-4	8.10	49	59.7 D	91.9	106 D	136	168 D	4.55
Tetrahydrofuran	109-99-9	—	< 1.18 U	< 11.78 U	3.36	< 11.78 U	2.59	< 11.78 U	< 0.59 U
Toluene	108-88-3	4000.00	153 E	182 D	105	112 D	179 E	211 D	29.8
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 0.79 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 18.16 U	< 1.82 U	< 18.16 U	< 1.82 U	< 18.16 U	< 0.91 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	1.63	< 14.81 U	1.63	< 14.81 U	1.63	< 14.81 U	1.85
Trichloroethene	79-01-6	0.22	1.82	< 10.72 U	2.14	< 10.72 U	2.46	< 10.72 U	1.71
Trichlorofluoromethane	75-69-4	7000.00	< 2.24 U	< 22.41 U	< 2.24 U	< 22.41 U	2.35	< 22.41 U	2.86
Vinyl acetate	108-05-4	2000.00	7.53	< 7.03 U	< 0.7 U	< 7.03 U	< 0.7 U	< 7.03 U	< 0.35 U
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 10.22 U	< 1.02 U	< 10.22 U	< 1.02 U	< 10.22 U	< 0.51 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV30-30FEET	SV30-8FEET	SV30-8FEET	SV31-40FEET	SV31-40FEET	SV31-8FEET	SV31-8FEET
Sample Date			9/22/2006	9/22/2006	9/22/2006	9/19/2006	9/19/2006	9/19/2006	9/19/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			2	2	20	2	20	2	20
Lab Sample ID			X4683-02DL	X4683-01	X4683-01DL	X4547-02	X4547-02DL	X4547-01	X4547-01DL
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	2.61 D	4.03	< 21.76 U	< 2.18 U	< 21.76 U	< 2.18 U	< 21.76 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 1.37 U	< 13.74 U	< 1.37 U	< 13.74 U	< 1.37 U	< 13.74 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 1.53 U	< 1.53 U	< 15.3 U	< 1.53 U	< 15.3 U	< 1.53 U	< 15.3 U
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 1.09 U	< 10.88 U	< 1.09 U	< 10.88 U	< 1.09 U	< 10.88 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 1.62 U	< 16.2 U	< 1.62 U	< 16.2 U	< 1.62 U	< 16.2 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U
1,2,4-Trimethylbenzene	95-63-6	60.00	1.37 D	133	157 D	5.2	< 9.82 U	2.75	< 9.82 U
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 0.81 U	< 8.1 U	< 0.81 U	< 8.1 U	< 0.81 U	< 8.1 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U
1,2-Xylene	95-47-6	70000.00	0.95 D	71.2	89.3 D	7.28	< 8.67 U	4.16	< 8.67 U
1,3,5-Trimethylbenzene	108-67-8	60.00	< 0.98 U	29.9	37.3 D	2.06	< 9.82 U	1.47	< 9.82 U
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 0.88 U	< 8.83 U	< 0.88 U	< 8.83 U	< 0.88 U	< 8.83 U
1,4-Dioxane	123-91-1	—	< 1.44 U	< 1.44 U	< 14.4 U	< 1.44 U	< 14.4 U	< 1.44 U	< 14.4 U
1-Propene	115-07-1	---	6.91 D	6.18	< 17.18 U	< 1.72 U	< 17.18 U	< 1.72 U	< 17.18 U
2,2,4-Trimethylpentane	540-84-1	—	< 0.93 U	28.9	35.4 D	2.61	< 9.33 U	2.24	< 9.33 U
2-Hexanone	591-78-6	---	< 1.64 U	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U	< 1.64 U	< 16.36 U
4-Ethyltoluene	622-96-8	—	< 0.98 U	46.6	53 D	3.44	< 9.82 U	2.26	< 9.82 U
4-Methyl-2-pentanone	108-10-1	800.00	< 1.64 U	< 1.64 U	< 16.36 U	6.13	< 16.36 U	11.4	< 16.36 U
Acetone	67-64-1	3500.00	53.6 D	32.9	39.9 D	74.9	90.1 D	109 E	133 D
Allyl chloride	107-05-1	---	< 1.26 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U
Benzene	71-43-2	3.10	1.4 D	17.3	22.3 D	6	8.29 D	4.27	< 6.38 U
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 1.15 U	< 11.53 U	< 1.15 U	< 11.53 U	< 1.15 U	< 11.53 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U
Bromoethene	593-60-2	---	< 1.75 U	< 1.75 U	< 17.51 U	< 1.75 U	< 17.51 U	< 1.75 U	< 17.51 U
Bromoform	75-25-2	22.00	< 2.07 U	< 2.07 U	< 20.7 U	< 2.07 U	< 20.7 U	< 2.07 U	< 20.7 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 1.55 U	< 15.54 U	< 1.55 U	< 15.54 U	< 1.55 U	< 15.54 U
Carbon disulfide	75-15-0	7000.00	1.74 D	11.2	14.3 D	< 1.24 U	< 12.43 U	14.9	16.8 D
Carbon tetrachloride	56-23-5	1.60	< 1.26 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 1.06 U	< 10.63 U	< 1.06 U	< 10.63 U	< 1.06 U	< 10.63 U
Chloroform	67-66-3	1.10	4.19 D	4.77	< 19.47 U	3.11	< 19.47 U	< 1.95 U	< 19.47 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 0.79 U	< 7.93 U	< 0.79 U	< 7.93 U	< 0.79 U	< 7.93 U
cis-1,3-Dichloropropene	10061-01-5	—	< 0.91 U	< 0.91 U	< 9.08 U	< 0.91 U	< 9.08 U	< 0.91 U	< 9.08 U
Cyclohexane	110-82-7	---	< 1.34 U	2.35	< 13.42 U	< 1.34 U	< 13.42 U	2.41	< 13.42 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 1.7 U	< 17.01 U	< 1.7 U	< 17.01 U	< 1.7 U	< 17.01 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U

Table 1: New Cassel Analyte Summary

Sample ID			SV30-30FEET	SV30-8FEET	SV30-8FEET	SV31-40FEET	SV31-40FEET	SV31-8FEET	SV31-8FEET
Sample Date			9/22/2006	9/22/2006	9/22/2006	9/19/2006	9/19/2006	9/19/2006	9/19/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			2	2	20	2	20	2	20
Lab Sample ID			X4683-02DL	X4683-01	X4683-01DL	X4547-02	X4547-02DL	X4547-01	X4547-01DL
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	1.32 D	1.44	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U
Dichlorodifluoromethane	75-71-8	2000.00	3.76 D	2.77	< 19.8 U	< 1.98 U	< 19.8 U	< 1.98 U	< 19.8 U
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 1.4 U	< 13.99 U	< 1.4 U	< 13.99 U	< 1.4 U	< 13.99 U
Ethyl acetate	141-78-6	32000.00	13.9 D	< 0.72 U	< 7.2 U	181 E	209 D	110	120 D
Ethylbenzene	100-41-4	220.00	1.21 D	49.3	59.8 D	9.19	< 8.67 U	5.12	< 8.67 U
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 1.54 U	< 15.38 U	< 1.54 U	< 15.38 U	< 1.54 U	< 15.38 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 2.13 U	< 21.35 U	< 2.13 U	< 21.35 U	< 2.13 U	< 21.35 U
Isopropyl alcohol	67-63-0	---	4.56 D	6.38	< 9.82 U	32.1	37.3 D	38.2	54 D
m/p-Xylene	126777-61-2	7000.00	2.25 D	214	271 D	21.5	19.1 D	10.5	< 17.34 U
Methyl chloride	74-87-3	240.00	< 0.82 U	< 0.82 U	< 8.18 U	< 0.82 U	< 8.18 U	< 0.82 U	< 8.18 U
Methyl ethyl ketone	78-93-3	10000.00	2.71 D	3.3	< 11.78 U	10.3	< 11.78 U	11	15.9 D
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	4.82	< 7.2 U	< 0.72 U	< 7.2 U	< 0.72 U	< 7.2 U
Methylene chloride	75-09-2	520.00	2.02 D	3.2	< 13.91 U	< 1.39 U	< 13.91 U	< 1.39 U	< 13.91 U
Heptane	142-82-5	---	1.39 D	20.3	24.5 D	7.53	9 D	4.5	< 8.18 U
Hexane	110-54-3	2000.00	< 1.41 U	23.5	30.2 D	< 1.41 U	< 14.07 U	< 1.41 U	< 14.07 U
Styrene	100-42-5	10000.00	< 0.85 U	11.7	11.9 D	1.79	< 8.51 U	1.36	< 8.51 U
Tetrachloroethene	127-18-4	8.10	2.99 D	6.25	< 13.58 U	7.06	< 13.58 U	8.69	< 13.58 U
Tetrahydrofuran	109-99-9	---	< 1.18 U	< 1.18 U	< 11.78 U	1.94	< 11.78 U	2	< 11.78 U
Toluene	108-88-3	4000.00	22.8 D	185 E	225 D	104	115 D	85	109 D
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 1.82 U	< 18.16 U	< 1.82 U	< 18.16 U	< 1.82 U	< 18.16 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	2.22 D	3.26	19.2 D	2.07	< 14.81 U	2.22	< 14.81 U
Trichloroethene	79-01-6	0.22	< 1.07 U	1.07 J	< 10.72 U	2.89	< 10.72 U	< 1.07 U	< 10.72 U
Trichlorofluoromethane	75-69-4	7000.00	< 2.24 U	< 2.24 U	< 22.41 U	2.58	< 22.41 U	< 2.24 U	< 22.41 U
Vinyl acetate	108-05-4	2000.00	0.98 D	< 0.7 U	< 7.03 U	< 0.7 U	< 7.03 U	< 0.7 U	< 7.03 U
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 1.02 U	< 10.22 U	< 1.02 U	< 10.22 U	< 1.02 U	< 10.22 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV32-40FEET	SV32-40FEET	SV32-8FEET	SV32-8FEET	SV33-40FEET	SV33-40FEET	SV33-8FEET
Sample Date			9/19/2006	9/19/2006	9/19/2006	9/19/2006	9/19/2006	9/19/2006	9/19/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	20	2	20	2	20	2
Lab Sample ID			X4547-04	X4547-04DL	X4547-03	X4547-03DL	X4547-06	X4547-06DL	X4547-05
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	2.18 J	< 21.76 U	< 2.18 U	< 21.76 U	2.28	< 21.76 U	5
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 13.74 U	< 1.37 U	< 13.74 U	< 1.37 U	< 13.74 U	< 1.37 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 1.53 U	< 15.3 U	< 1.53 U	< 15.3 U	< 1.53 U	< 15.3 U	< 1.53 U
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 10.88 U	< 1.09 U	< 10.88 U	< 1.09 U	< 10.88 U	< 1.09 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 16.2 U	< 1.62 U	< 16.2 U	< 1.62 U	< 16.2 U	< 1.62 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U
1,2,4-Trimethylbenzene	95-63-6	60.00	1.28	< 9.82 U	29.3	28.5 D	24.2	30.4 D	1.18
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 8.1 U	< 0.81 U	< 8.1 U	< 0.81 U	< 8.1 U	< 0.81 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	187 D	< 0.92 U
1,2-Xylene	95-47-6	70000.00	1.3	< 8.67 U	28.4	27.7 D	12.6	13.9 D	0.95
1,3,5-Trimethylbenzene	108-67-8	60.00	< 0.98 U	< 9.82 U	8.93	< 9.82 U	9.03	12.8 D	< 0.98 U
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 8.83 U	< 0.88 U	< 8.83 U	< 0.88 U	38 D	< 0.88 U
1,4-Dioxane	123-91-1	---	< 1.44 U	< 14.4 U	< 1.44 U	< 14.4 U	< 1.44 U	< 14.4 U	< 1.44 U
1-Propene	115-07-1	---	< 1.72 U	< 17.18 U	< 1.72 U	< 17.18 U	< 1.72 U	< 17.18 U	< 1.72 U
2,2,4-Trimethylpentane	540-84-1	---	< 0.93 U	< 9.33 U	< 0.93 U	< 9.33 U	4.01	< 9.33 U	< 0.93 U
2-Hexanone	591-78-6	---	< 1.64 U	< 16.36 U	3.19	< 16.36 U	1.64 J	< 16.36 U	< 1.64 U
4-Ethyltoluene	622-96-8	---	1.08	< 9.82 U	11	13.7 D	8.74	12.8 D	< 0.98 U
4-Methyl-2-pentanone	108-10-1	800.00	12.2	< 16.36 U	8.92	< 16.36 U	2.29	< 16.36 U	11.2
Acetone	67-64-1	3500.00	144 E	162 D	138 E	151 D	66.8	82.1 D	115 E
Allyl chloride	107-05-1	---	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U
Benzene	71-43-2	3.10	5.1	7.02 D	12.9	15.3 D	4.27	< 6.38 U	3.76
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 11.53 U	< 1.15 U	< 11.53 U	< 1.15 U	43.8 D	< 1.15 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	< 1.34 U	< 13.42 U	< 1.34 U
Bromoethene	593-60-2	---	< 1.75 U	< 17.51 U	< 1.75 U	< 17.51 U	< 1.75 U	< 17.51 U	< 1.75 U
Bromoform	75-25-2	22.00	< 2.07 U	< 20.7 U	< 2.07 U	< 20.7 U	< 2.07 U	< 20.7 U	< 2.07 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 15.54 U	< 1.55 U	< 15.54 U	< 1.55 U	< 15.54 U	< 1.55 U
Carbon disulfide	75-15-0	7000.00	4.04	< 12.43 U	21.3	23 D	40.6	54.1 D	7.15
Carbon tetrachloride	56-23-5	1.60	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U	< 12.6 U	< 1.26 U
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U	< 9.24 U	< 0.92 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 10.63 U	< 1.06 U	< 10.63 U	< 1.06 U	< 10.63 U	< 1.06 U
Chloroform	67-66-3	1.10	2.34	< 19.47 U	4.67	< 19.47 U	< 1.95 U	< 19.47 U	< 1.95 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 7.93 U	< 0.79 U	< 7.93 U	< 0.79 U	31.7 D	< 0.79 U
cis-1,3-Dichloropropene	10061-01-5	---	< 0.91 U	< 9.08 U	< 0.91 U	< 9.08 U	< 0.91 U	< 9.08 U	< 0.91 U
Cyclohexane	110-82-7	---	2.48	< 13.42 U	4.43	< 13.42 U	3.62	10.7 JD	< 1.34 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 17.01 U	< 1.7 U	< 17.01 U	< 1.7 U	< 17.01 U	< 1.7 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U

Table 1: New Cassel Analyte Summary

Sample ID			SV32-40FEET	SV32-40FEET	SV32-8FEET	SV32-8FEET	SV33-40FEET	SV33-40FEET	SV33-8FEET
Sample Date			9/19/2006	9/19/2006	9/19/2006	9/19/2006	9/19/2006	9/19/2006	9/19/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	20	2	20	2	20	2
Lab Sample ID			X4547-04	X4547-04DL	X4547-03	X4547-03DL	X4547-06	X4547-06DL	X4547-05
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	< 1.2 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 1.2 U	< 12.02 U	< 1.2 U	< 12.02 U	2.16	< 12.02 U	< 1.2 U
Dichlorodifluoromethane	75-71-8	2000.00	< 1.98 U	< 19.8 U	3.56	< 19.8 U	2.97	< 19.8 U	3.46
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 13.99 U	< 1.4 U	< 13.99 U	< 1.4 U	< 13.99 U	< 1.4 U
Ethyl acetate	141-78-6	32000.00	223 E	256 D	141	145 D	113	131 D	114
Ethylbenzene	100-41-4	220.00	2.69	< 8.67 U	23.1	22.5 D	11.3	12.1 D	2.08
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 15.38 U	< 1.54 U	< 15.38 U	< 1.54 U	< 15.38 U	< 1.54 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 21.35 U	< 2.13 U	< 21.35 U	< 2.13 U	< 21.35 U	< 2.13 U
Isopropyl alcohol	67-63-0	—	37.8	44.7 D	27.9	35.8 D	16.2	18.7 D	26.7
m/p-Xylene	126777-61-2	7000.00	4.08	< 17.34 U	80.1	78.9 D	37.5	40.8 D	3.21
Methyl chloride	74-87-3	240.00	< 0.82 U	< 8.18 U	< 0.82 U	< 8.18 U	< 0.82 U	< 8.18 U	< 0.82 U
Methyl ethyl ketone	78-93-3	10000.00	13	< 11.78 U	21.9	22.4 D	8.72	11.2 JD	11.5
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	< 7.2 U	< 0.72 U	< 7.2 U	< 0.72 U	< 7.2 U	< 0.72 U
Methylene chloride	75-09-2	520.00	< 1.39 U	< 13.91 U	9.39	41.7 D	< 1.39 U	< 13.91 U	2.29
Heptane	142-82-5	—	5.32	< 8.18 U	11.1	13.1 D	11.5	15.5 D	6.46
Hexane	110-54-3	2000.00	< 1.41 U	< 14.07 U	< 1.41 U	< 14.07 U	< 1.41 U	19.7 D	< 1.41 U
Styrene	100-42-5	10000.00	< 0.85 U	< 8.51 U	4.25	< 8.51 U	1.28	< 8.51 U	< 0.85 U
Tetrachloroethene	127-18-4	8.10	46.2	66.5 D	25.4	27.2 D	25.7	33.9 D	29.1
Tetrahydrofuran	109-99-9	—	3.12	< 11.78 U	2.53	< 11.78 U	< 1.18 U	< 11.78 U	1.71
Toluene	108-88-3	4000.00	96.3	120 D	170 E	178 D	135	164 D	94.1
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U	< 15.87 U	< 1.59 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 18.16 U	< 1.82 U	< 18.16 U	< 1.82 U	< 18.16 U	< 1.82 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	1.63	< 14.81 U	2.22	< 14.81 U	1.48 J	< 14.81 U	1.48 J
Trichloroethene	79-01-6	0.22	1.5	< 10.72 U	3.11	< 10.72 U	2.36	< 10.72 U	2.14
Trichlorofluoromethane	75-69-4	7000.00	5.6	< 22.41 U	3.25	< 22.41 U	8.63	11.2 JD	8.29
Vinyl acetate	108-05-4	2000.00	< 0.7 U	< 7.03 U	< 0.7 U	< 7.03 U	5.7	< 7.03 U	4.64
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 10.22 U	< 1.02 U	< 10.22 U	< 1.02 U	< 10.22 U	< 1.02 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV33-8FEET	SV34-40FEET	SV34-40FEET	SV34-8FEET	SV34-8FEET	SV35-40FEET	SV35-40FEET
Sample Date			9/19/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/20/2006	9/20/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			20	5	10	2	10	2	20
Lab Sample ID			X4547-05DL	X4558-08	X4558-08DL	X4558-07	X4558-07DL	X4547-12	X4547-12DL
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	< 21.76 U	< 5.44 U	< 10.88 U	17.2	19.6 D	< 2.18 U	< 21.76 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 13.74 U	< 3.44 U	< 6.87 U	< 1.37 U	< 6.87 U	< 1.37 U	< 13.74 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 15.3 U	< 3.82 U	< 7.65 U	< 1.53 U	< 7.65 U	< 1.53 U	< 15.3 U
1,1,2-Trichloroethane	79-00-5	1.50	< 10.88 U	< 2.72 U	< 5.44 U	< 1.09 U	< 5.44 U	< 1.09 U	< 10.88 U
1,1-Dichloroethane	75-34-3	5000.00	< 16.2 U	< 4.05 U	< 8.1 U	3.89	4.86 JD	< 1.62 U	< 16.2 U
1,1-Dichloroethene	75-35-4	2000.00	< 15.87 U	< 3.97 U	< 7.93 U	9.52	9.92 D	< 1.59 U	< 15.87 U
1,2,4-Trimethylbenzene	95-63-6	60.00	< 9.82 U	48.8	41.2 D	6.38	4.91 JD	1.77	< 9.82 U
1,2-Dichloroethane	107-06-2	0.94	< 8.1 U	< 2.02 U	< 4.05 U	< 0.81 U	< 4.05 U	< 0.81 U	< 8.1 U
1,2-Dichloropropane	78-87-5	40.00	< 9.24 U	< 2.31 U	< 4.62 U	< 0.92 U	< 4.62 U	< 0.92 U	< 9.24 U
1,2-Xylene	95-47-6	70000.00	< 8.67 U	46.4	48.1 D	8.24	7.37 D	2.77	< 8.67 U
1,3,5-Trimethylbenzene	108-67-8	60.00	< 9.82 U	16.9	14.7 D	1.47	< 4.91 U	< 0.98 U	< 9.82 U
1,3-Butadiene	106-99-0	870.00	< 8.83 U	< 2.21 U	< 4.42 U	< 0.88 U	< 4.42 U	< 0.88 U	< 8.83 U
1,4-Dioxane	123-91-1	—	< 14.4 U	< 3.6 U	< 7.2 U	< 1.44 U	< 7.2 U	< 1.44 U	< 14.4 U
1-Propene	115-07-1	---	< 17.18 U	287 E	343 D	< 1.72 U	< 8.59 U	< 1.72 U	< 17.18 U
2,2,4-Trimethylpentane	540-84-1	—	< 9.33 U	6.29	9.79 D	1.31	< 4.66 U	2.24	< 9.33 U
2-Hexanone	591-78-6	---	< 16.36 U	< 4.09 U	< 8.18 U	< 1.64 U	< 8.18 U	< 1.64 U	< 16.36 U
4-Ethyltoluene	622-96-8	—	< 9.82 U	16	14.2 D	2.16	< 4.91 U	1.57	< 9.82 U
4-Methyl-2-pentanone	108-10-1	800.00	< 16.36 U	< 4.09 U	< 8.18 U	< 1.64 U	< 8.18 U	2.94	< 16.36 U
Acetone	67-64-1	3500.00	137 D	94.8	109 D	33.2	40.8 D	84.7	84.4 D
Allyl chloride	107-05-1	---	< 12.6 U	< 3.15 U	< 6.3 U	< 1.26 U	< 6.3 U	< 1.26 U	< 12.6 U
Benzene	71-43-2	3.10	< 6.38 U	16.1	18.2 D	6.06	7.34 D	5.3	< 6.38 U
Benzyl chloride	100-44-7	0.50	< 11.53 U	< 2.88 U	< 5.77 U	< 1.15 U	< 5.77 U	< 1.15 U	< 11.53 U
Bromodichloromethane	75-27-4	1.40	< 13.42 U	< 3.35 U	< 6.71 U	< 1.34 U	< 6.71 U	< 1.34 U	< 13.42 U
Bromoethene	593-60-2	---	< 17.51 U	< 4.38 U	< 8.75 U	< 1.75 U	< 8.75 U	< 1.75 U	< 17.51 U
Bromoform	75-25-2	22.00	< 20.7 U	< 5.17 U	< 10.35 U	< 2.07 U	< 10.35 U	< 2.07 U	< 20.7 U
Bromomethane	74-83-9	50.00	< 15.54 U	< 3.89 U	< 7.77 U	< 1.55 U	< 7.77 U	< 1.55 U	< 15.54 U
Carbon disulfide	75-15-0	7000.00	< 12.43 U	35.3	34.2 D	1.55	< 6.22 U	6.47	< 12.43 U
Carbon tetrachloride	56-23-5	1.60	< 12.6 U	< 3.15 U	< 6.3 U	< 1.26 U	< 6.3 U	< 1.26 U	< 12.6 U
Chlorobenzene	108-90-7	600.00	< 9.24 U	< 2.31 U	< 4.62 U	< 0.92 U	< 4.62 U	< 0.92 U	< 9.24 U
Chloroethane	75-00-3	100000.00	< 10.63 U	< 2.66 U	< 5.32 U	3.56	< 5.32 U	< 1.06 U	< 10.63 U
Chloroform	67-66-3	1.10	< 19.47 U	< 4.87 U	< 9.73 U	30.6	34.1 D	< 1.95 U	< 19.47 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 7.93 U	< 1.98 U	< 3.97 U	< 0.79 U	< 3.97 U	< 0.79 U	< 7.93 U
cis-1,3-Dichloropropene	10061-01-5	—	< 9.08 U	< 2.27 U	< 4.54 U	< 0.91 U	< 4.54 U	< 0.91 U	< 9.08 U
Cyclohexane	110-82-7	---	< 13.42 U	< 3.35 U	< 6.71 U	2.08	< 6.71 U	8.85	< 13.42 U
Dibromochloromethane	124-48-1	1.00	< 17.01 U	< 4.25 U	< 8.51 U	< 1.7 U	< 8.51 U	< 1.7 U	< 17.01 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 12.02 U	< 3.01 U	< 6.01 U	< 1.2 U	< 6.01 U	< 1.2 U	< 12.02 U

Table 1: New Cassel Analyte Summary

Sample ID			SV33-8FEET	SV34-40FEET	SV34-40FEET	SV34-8FEET	SV34-8FEET	SV35-40FEET	SV35-40FEET
Sample Date			9/19/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/20/2006	9/20/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial	Dilution
Dilution Factor			20	5	10	2	10	2	20
Lab Sample ID			X4547-05DL	X4558-08	X4558-08DL	X4558-07	X4558-07DL	X4547-12	X4547-12DL
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 12.02 U	< 3.01 U	< 6.01 U	< 1.2 U	< 6.01 U	< 1.2 U	< 12.02 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 12.02 U	< 3.01 U	< 6.01 U	< 1.2 U	< 6.01 U	< 1.2 U	< 12.02 U
Dichlorodifluoromethane	75-71-8	2000.00	< 19.8 U	< 4.95 U	< 9.9 U	2.67	< 9.9 U	< 1.98 U	< 19.8 U
Dichlorotetrafluoroethane	76-14-2	---	< 13.99 U	< 3.5 U	< 6.99 U	< 1.4 U	< 6.99 U	< 1.4 U	< 13.99 U
Ethyl acetate	141-78-6	32000.00	126 D	185	203 D	410 E	502 D	175 E	171 D
Ethylbenzene	100-41-4	220.00	< 8.67 U	45.5	46.8 D	6.33	6.5 D	4.86	< 8.67 U
Ethylene dibromide	106-93-4	0.11	< 15.38 U	< 3.84 U	< 7.69 U	< 1.54 U	< 7.69 U	< 1.54 U	< 15.38 U
Hexachlorobutadiene	87-68-3	1.10	< 21.35 U	< 5.34 U	< 10.67 U	< 2.13 U	< 10.67 U	< 2.13 U	< 21.35 U
Isopropyl alcohol	67-63-0	---	35.3 D	< 2.45 U	< 4.91 U	< 0.98 U	< 4.91 U	42	41.2 D
m/p-Xylene	126777-61-2	7000.00	< 17.34 U	142	154 D	23.6	23.4 D	8.5	< 17.34 U
Methyl chloride	74-87-3	240.00	< 8.18 U	< 2.04 U	< 4.09 U	< 0.82 U	< 4.09 U	< 0.82 U	< 8.18 U
Methyl ethyl ketone	78-93-3	10000.00	12.4 D	11.3	15 D	< 1.18 U	< 5.89 U	33.6	34.7 D
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 7.2 U	< 1.8 U	< 3.6 U	< 0.72 U	< 3.6 U	< 0.72 U	< 7.2 U
Methylene chloride	75-09-2	520.00	< 13.91 U	< 3.48 U	< 6.95 U	< 1.39 U	< 6.95 U	< 1.39 U	< 13.91 U
Heptane	142-82-5	---	< 8.18 U	32.3	30.3 D	2.45	< 4.09 U	3.68	< 8.18 U
Hexane	110-54-3	2000.00	< 14.07 U	< 3.52 U	< 7.03 U	< 1.41 U	< 7.03 U	< 1.41 U	< 14.07 U
Styrene	100-42-5	10000.00	< 8.51 U	6.59	5.96 D	< 0.85 U	< 4.25 U	1.11	< 8.51 U
Tetrachloroethene	127-18-4	8.10	38 D	57.4	59.7 D	604 E	661 D	36.7	42.1 D
Tetrahydrofuran	109-99-9	---	< 11.78 U	< 2.94 U	< 5.89 U	< 1.18 U	< 5.89 U	5.01	< 11.78 U
Toluene	108-88-3	4000.00	112 D	162	164 D	48.4	48.9 D	171 E	182 D
trans-1,2-Dichloroethene	156-60-5	700.00	< 15.87 U	< 3.97 U	< 7.93 U	< 1.59 U	< 7.93 U	< 1.59 U	< 15.87 U
trans-1,3-Dichloropropene	10061-02-6	---	< 18.16 U	< 4.54 U	< 9.08 U	< 1.82 U	< 9.08 U	< 1.82 U	< 18.16 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 14.81 U	3.7 J	< 7.4 U	1.78	< 7.4 U	< 1.48 U	< 14.81 U
Trichloroethene	79-01-6	0.22	< 10.72 U	< 2.68 U	< 5.36 U	23.8	27.9 D	2.57	< 10.72 U
Trichlorofluoromethane	75-69-4	7000.00	< 22.41 U	< 5.6 U	< 11.21 U	< 2.24 U	< 11.21 U	2.69	< 22.41 U
Vinyl acetate	108-05-4	2000.00	< 7.03 U	< 1.76 U	< 3.52 U	< 0.7 U	9.5 D	< 0.7 U	< 7.03 U
Vinyl chloride	75-01-4	2.80	< 10.22 U	< 2.56 U	< 5.11 U	< 1.02 U	< 5.11 U	< 1.02 U	< 10.22 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV35-8FEET	SV35-8FEET	SV36-32FEET	SV36-32FEET	SV36-8FEET	SV36-8FEET	SV37-35FEET
Sample Date			9/20/2006	9/20/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	20	2	10	2	10	2
Lab Sample ID			X4547-11	X4547-11DL	X4558-06	X4558-06DL	X4558-05	X4558-05DL	X4558-04
Chemical Name	CAS	OSWER GUIDANCE							
1,1,1-Trichloroethane	71-55-6	22000.00	< 2.18 U	< 21.76 U	3.59	< 10.88 U	< 2.18 U	< 10.88 U	< 2.18 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 1.37 U	< 13.74 U	< 1.37 U	< 6.87 U	< 1.37 U	< 6.87 U	< 1.37 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	1.84	< 15.3 U	< 1.53 U	< 7.65 U	< 1.53 U	< 7.65 U	< 1.53 U
1,1,2-Trichloroethane	79-00-5	1.50	< 1.09 U	< 10.88 U	< 1.09 U	< 5.44 U	< 1.09 U	< 5.44 U	< 1.09 U
1,1-Dichloroethane	75-34-3	5000.00	< 1.62 U	< 16.2 U	< 1.62 U	< 8.1 U	< 1.62 U	< 8.1 U	< 1.62 U
1,1-Dichloroethene	75-35-4	2000.00	< 1.59 U	< 15.87 U	< 1.59 U	< 7.93 U	< 1.59 U	< 7.93 U	< 1.59 U
1,2,4-Trimethylbenzene	95-63-6	60.00	1.67	< 9.82 U	26	22.6 D	17.9	13.7 D	1.67
1,2-Dichloroethane	107-06-2	0.94	< 0.81 U	< 8.1 U	< 0.81 U	< 4.05 U	< 0.81 U	< 4.05 U	< 0.81 U
1,2-Dichloropropane	78-87-5	40.00	< 0.92 U	< 9.24 U	< 0.92 U	< 4.62 U	< 0.92 U	< 4.62 U	< 0.92 U
1,2-Xylene	95-47-6	70000.00	3.03	< 8.67 U	6.07	4.77 D	12	11.3 D	1.21
1,3,5-Trimethylbenzene	108-67-8	60.00	< 0.98 U	< 9.82 U	11	< 4.91 U	4.02	< 4.91 U	< 0.98 U
1,3-Butadiene	106-99-0	870.00	< 0.88 U	< 8.83 U	< 0.88 U	< 4.42 U	< 0.88 U	< 4.42 U	< 0.88 U
1,4-Dioxane	123-91-1	—	< 1.44 U	< 14.4 U	< 1.44 U	< 7.2 U	< 1.44 U	< 7.2 U	< 1.44 U
1-Propene	115-07-1	---							
2,2,4-Trimethylpentane	540-84-1	—	2.52	< 9.33 U	< 0.93 U	< 4.66 U	< 0.93 U	5.6 D	1.59
2-Hexanone	591-78-6	---	< 1.64 U	< 16.36 U	< 1.64 U	< 8.18 U	< 1.64 U	< 8.18 U	< 1.64 U
4-Ethyltoluene	622-96-8	—	1.47	< 9.82 U	9.91	7.85 D	6.77	6.38 D	1.18
4-Methyl-2-pentanone	108-10-1	800.00	2.21	< 16.36 U	< 1.64 U	< 8.18 U	1.88	< 8.18 U	< 1.64 U
Acetone	67-64-1	3500.00	65.6	75.9 D	51.5	55.5 D	87.1	103 D	34
Allyl chloride	107-05-1	---	< 1.26 U	< 12.6 U	< 1.26 U	< 6.3 U	< 1.26 U	< 6.3 U	< 1.26 U
Benzene	71-43-2	3.10	3.38	< 6.38 U	5.42	6.7 D	7.91	9.57 D	3.83
Benzyl chloride	100-44-7	0.50	< 1.15 U	< 11.53 U	< 1.15 U	< 5.77 U	< 1.15 U	< 5.77 U	< 1.15 U
Bromodichloromethane	75-27-4	1.40	< 1.34 U	< 13.42 U	< 1.34 U	< 6.71 U	< 1.34 U	< 6.71 U	< 1.34 U
Bromoethene	593-60-2	---	< 1.75 U	< 17.51 U	< 1.75 U	< 8.75 U	< 1.75 U	< 8.75 U	< 1.75 U
Bromoform	75-25-2	22.00	< 2.07 U	< 20.7 U	< 2.07 U	< 10.35 U	< 2.07 U	< 10.35 U	< 2.07 U
Bromomethane	74-83-9	50.00	< 1.55 U	< 15.54 U	< 1.55 U	< 7.77 U	< 1.55 U	< 7.77 U	< 1.55 U
Carbon disulfide	75-15-0	7000.00	3.54	< 12.43 U	13.8	14.6 D	14.6	19 D	2.67
Carbon tetrachloride	56-23-5	1.60	< 1.26 U	< 12.6 U	< 1.26 U	< 6.3 U	< 1.26 U	< 6.3 U	< 1.26 U
Chlorobenzene	108-90-7	600.00	< 0.92 U	< 9.24 U	< 0.92 U	< 4.62 U	< 0.92 U	< 4.62 U	< 0.92 U
Chloroethane	75-00-3	100000.00	< 1.06 U	< 10.63 U	< 1.06 U	< 5.32 U	< 1.06 U	< 5.32 U	< 1.06 U
Chloroform	67-66-3	1.10	< 1.95 U	< 19.47 U	< 1.95 U	< 9.73 U	< 1.95 U	< 9.73 U	3.21
cis-1,2-Dichloroethene	156-59-2	350.00	< 0.79 U	< 7.93 U	< 0.79 U	< 3.97 U	< 0.79 U	< 3.97 U	< 0.79 U
cis-1,3-Dichloropropene	10061-01-5	—	< 0.91 U	< 9.08 U	< 0.91 U	< 4.54 U	< 0.91 U	< 4.54 U	< 0.91 U
Cyclohexane	110-82-7	---	3.76	< 13.42 U	< 1.34 U	< 6.71 U	< 1.34 U	< 6.71 U	< 1.34 U
Dibromochloromethane	124-48-1	1.00	< 1.7 U	< 17.01 U	< 1.7 U	< 8.51 U	< 1.7 U	< 8.51 U	< 1.7 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 1.2 U	< 12.02 U	< 1.2 U	< 6.01 U	< 1.2 U	< 6.01 U	< 1.2 U

Table 1: New Cassel Analyte Summary

Sample ID			SV35-8FEET	SV35-8FEET	SV36-32FEET	SV36-32FEET	SV36-8FEET	SV36-8FEET	SV37-35FEET
Sample Date			9/20/2006	9/20/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006
Matrix			SO	SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Initial	Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			2	20	2	10	2	10	2
Lab Sample ID			X4547-11	X4547-11DL	X4558-06	X4558-06DL	X4558-05	X4558-05DL	X4558-04
Chemical Name	CAS	OSWER GUIDANCE							
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 1.2 U	< 12.02 U	< 1.2 U	< 6.01 U	< 1.2 U	< 6.01 U	< 1.2 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 1.2 U	< 12.02 U	1.8	< 6.01 U	< 1.2 U	< 6.01 U	< 1.2 U
Dichlorodifluoromethane	75-71-8	2000.00	3.27	< 19.8 U	5.94	< 9.9 U	2.97	< 9.9 U	2.57
Dichlorotetrafluoroethane	76-14-2	---	< 1.4 U	< 13.99 U	< 1.4 U	< 6.99 U	< 1.4 U	< 6.99 U	< 1.4 U
Ethyl acetate	141-78-6	32000.00	109	125 D	407 E	474 D	308 E	355 D	320 E
Ethylbenzene	100-41-4	220.00	5.55	< 8.67 U	17.4	9.54 D	11.5	10.4 D	1.3
Ethylene dibromide	106-93-4	0.11	< 1.54 U	< 15.38 U	< 1.54 U	< 7.69 U	< 1.54 U	< 7.69 U	< 1.54 U
Hexachlorobutadiene	87-68-3	1.10	< 2.13 U	< 21.35 U	< 2.13 U	< 10.67 U	< 2.13 U	< 10.67 U	< 2.13 U
Isopropyl alcohol	67-63-0	—	17.5	23.6 D	< 0.98 U	< 4.91 U	< 0.98 U	< 4.91 U	< 0.98 U
m/p-Xylene	126777-61-2	7000.00	9.45	< 17.34 U	110	67.6 D	39.3	38.2 D	3.47
Methyl chloride	74-87-3	240.00	< 0.82 U	< 8.18 U	< 0.82 U	< 4.09 U	< 0.82 U	< 4.09 U	< 0.82 U
Methyl ethyl ketone	78-93-3	10000.00	17.6	20 D	< 1.18 U	< 5.89 U	< 1.18 U	< 5.89 U	< 1.18 U
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 0.72 U	< 7.2 U	< 0.72 U	< 3.6 U	< 0.72 U	< 3.6 U	< 0.72 U
Methylene chloride	75-09-2	520.00	4.59	< 13.91 U	< 1.39 U	< 6.95 U	< 1.39 U	< 6.95 U	< 1.39 U
Heptane	142-82-5	—	3.27	< 8.18 U	2.29	< 4.09 U	8.67	9.41 D	4.74
Hexane	110-54-3	2000.00	< 1.41 U	< 14.07 U	< 1.41 U	< 7.03 U	< 1.41 U	< 7.03 U	< 1.41 U
Styrene	100-42-5	10000.00	1.62	< 8.51 U	< 0.85 U	< 4.25 U	1.45	< 4.25 U	< 0.85 U
Tetrachloroethene	127-18-4	8.10	39.4	48.9 D	23.1	27.8 D	42	45.5 D	4.89
Tetrahydrofuran	109-99-9	—	2.41	< 11.78 U	< 1.18 U	< 5.89 U	< 1.18 U	< 5.89 U	< 1.18 U
Toluene	108-88-3	4000.00	195 E	228 D	16.8	17.7 D	46.7	45.2 D	16.8
trans-1,2-Dichloroethene	156-60-5	700.00	< 1.59 U	< 15.87 U	< 1.59 U	< 7.93 U	< 1.59 U	< 7.93 U	< 1.59 U
trans-1,3-Dichloropropene	10061-02-6	---	< 1.82 U	< 18.16 U	< 1.82 U	< 9.08 U	< 1.82 U	< 9.08 U	< 1.82 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	1.63	< 14.81 U	2.07	< 7.4 U	2.07	< 7.4 U	1.63
Trichloroethene	79-01-6	0.22	2.46	< 10.72 U	< 1.07 U	< 5.36 U	< 1.07 U	< 5.36 U	< 1.07 U
Trichlorofluoromethane	75-69-4	7000.00	2.58	< 22.41 U	3.36	< 11.21 U	2.47	< 11.21 U	2.91
Vinyl acetate	108-05-4	2000.00	< 0.7 U	< 7.03 U	9.85	9.85 D	< 0.7 U	< 3.52 U	6.12
Vinyl chloride	75-01-4	2.80	< 1.02 U	< 10.22 U	< 1.02 U	< 5.11 U	< 1.02 U	< 5.11 U	< 1.02 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV37-35FEET	SV37-8FEET	SV37-8FEET	SV38-35FEET	SV38-35FEET	SV38-8FEET
Sample Date			9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			10	2	10	10	58	2
Lab Sample ID			X4558-04DL	X4558-03	X4558-03DL	X4558-02	X4558-02DL	X4558-01
Chemical Name	CAS	OSWER GUIDANCE						
1,1,1-Trichloroethane	71-55-6	22000.00	< 10.88 U	< 2.18 U	< 10.88 U	< 10.88 U	< 65.28 U	7.4
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 6.87 U	< 1.37 U	< 6.87 U	< 6.87 U	< 39.85 U	< 1.37 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	< 7.65 U	< 1.53 U	< 7.65 U	49.7	53.2 D	21.1
1,1,2-Trichloroethane	79-00-5	1.50	< 5.44 U	< 1.09 U	< 5.44 U	< 5.44 U	< 31.55 U	< 1.09 U
1,1-Dichloroethane	75-34-3	5000.00	< 8.1 U	< 1.62 U	< 8.1 U	< 8.1 U	< 48.59 U	< 1.62 U
1,1-Dichloroethene	75-35-4	2000.00	< 7.93 U	< 1.59 U	< 7.93 U	< 7.93 U	< 47.61 U	< 1.59 U
1,2,4-Trimethylbenzene	95-63-6	60.00	< 4.91 U	1.18	< 4.91 U	21.1	< 28.47 U	17.4
1,2-Dichloroethane	107-06-2	0.94	< 4.05 U	< 0.81 U	< 4.05 U	< 4.05 U	< 23.48 U	< 0.81 U
1,2-Dichloropropane	78-87-5	40.00	< 4.62 U	< 0.92 U	< 4.62 U	< 4.62 U	< 26.81 U	< 0.92 U
1,2-Xylene	95-47-6	70000.00	< 4.34 U	0.95	< 4.34 U	32.1	< 25.15 U	11.5
1,3,5-Trimethylbenzene	108-67-8	60.00	< 4.91 U	< 0.98 U	< 4.91 U	6.87	< 28.47 U	5.01
1,3-Butadiene	106-99-0	870.00	< 4.42 U	< 0.88 U	< 4.42 U	< 4.42 U	< 26.5 U	< 0.88 U
1,4-Dioxane	123-91-1	—	< 7.2 U	< 1.44 U	< 7.2 U	< 7.2 U	< 43.19 U	< 1.44 U
1-Propene	115-07-1	---						
2,2,4-Trimethylpentane	540-84-1	—	< 4.66 U	2.52	< 4.66 U	< 4.66 U	29.7 D	3.17
2-Hexanone	591-78-6	---	< 8.18 U	< 1.64 U	< 8.18 U	< 8.18 U	< 49.08 U	< 1.64 U
4-Ethyltoluene	622-96-8	—	< 4.91 U	< 0.98 U	< 4.91 U	9.82	< 28.47 U	7.95
4-Methyl-2-pentanone	108-10-1	800.00	< 8.18 U	< 1.64 U	< 8.18 U	< 8.18 U	< 49.08 U	< 1.64 U
Acetone	67-64-1	3500.00	41 D	< 0.95 U	< 4.74 U	< 4.74 U	< 28.47 U	< 0.95 U
Allyl chloride	107-05-1	---	< 6.3 U	< 1.26 U	< 6.3 U	< 6.3 U	< 37.79 U	< 1.26 U
Benzene	71-43-2	3.10	4.79 D	2.68	3.19 JD	26.2	27.8 D	3.89
Benzyl chloride	100-44-7	0.50	< 5.77 U	< 1.15 U	< 5.77 U	< 5.77 U	< 33.45 U	< 1.15 U
Bromodichloromethane	75-27-4	1.40	< 6.71 U	< 1.34 U	< 6.71 U	< 6.71 U	< 38.9 U	< 1.34 U
Bromoethene	593-60-2	---	< 8.75 U	< 1.75 U	< 8.75 U	< 8.75 U	< 52.52 U	< 1.75 U
Bromoform	75-25-2	22.00	< 10.35 U	< 2.07 U	< 10.35 U	< 10.35 U	< 60.02 U	< 2.07 U
Bromomethane	74-83-9	50.00	< 7.77 U	< 1.55 U	< 7.77 U	< 7.77 U	< 46.63 U	< 1.55 U
Carbon disulfide	75-15-0	7000.00	< 6.22 U	5.41	6.53 D	22.1	< 37.3 U	5.84
Carbon tetrachloride	56-23-5	1.60	< 6.3 U	< 1.26 U	< 6.3 U	< 6.3 U	< 36.53 U	< 1.26 U
Chlorobenzene	108-90-7	600.00	< 4.62 U	< 0.92 U	< 4.62 U	< 4.62 U	< 26.81 U	< 0.92 U
Chloroethane	75-00-3	100000.00	< 5.32 U	< 1.06 U	< 5.32 U	< 5.32 U	< 31.9 U	< 1.06 U
Chloroform	67-66-3	1.10	< 9.73 U	4.28	< 9.73 U	< 9.73 U	< 58.4 U	< 1.95 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 3.97 U	< 0.79 U	< 3.97 U	< 3.97 U	< 23.01 U	< 0.79 U
cis-1,3-Dichloropropene	10061-01-5	—	< 4.54 U	< 0.91 U	< 4.54 U	< 4.54 U	< 26.33 U	< 0.91 U
Cyclohexane	110-82-7	---	< 6.71 U	< 1.34 U	< 6.71 U	< 6.71 U	< 40.25 U	< 1.34 U
Dibromochloromethane	124-48-1	1.00	< 8.51 U	< 1.7 U	< 8.51 U	< 8.51 U	< 49.34 U	< 1.7 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 6.01 U	< 1.2 U	< 6.01 U	< 6.01 U	< 34.87 U	< 1.2 U

Table 1: New Cassel Analyte Summary

Sample ID			SV37-35FEET	SV37-8FEET	SV37-8FEET	SV38-35FEET	SV38-35FEET	SV38-8FEET
Sample Date			9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006	9/14/2006
Matrix			SO	SO	SO	SO	SO	SO
Method			TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Test Type			Dilution	Initial	Dilution	Initial	Dilution	Initial
Dilution Factor			10	2	10	10	58	2
Lab Sample ID			X4558-04DL	X4558-03	X4558-03DL	X4558-02	X4558-02DL	X4558-01
Chemical Name	CAS	OSWER GUIDANCE						
Dichlorobenzenes (1,3-)	541-73-1	1100.00	< 6.01 U	< 1.2 U	< 6.01 U	< 6.01 U	< 34.87 U	< 1.2 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 6.01 U	< 1.2 U	< 6.01 U	< 6.01 U	< 34.87 U	< 1.2 U
Dichlorodifluoromethane	75-71-8	2000.00	< 9.9 U	2.77	< 9.9 U	23.3	< 59.39 U	8.02
Dichlorotetrafluoroethane	76-14-2	---	< 6.99 U	< 1.4 U	< 6.99 U	< 6.99 U	< 40.56 U	< 1.4 U
Ethyl acetate	141-78-6	32000.00	378 D	237 E	232 D	301	< 20.88 U	343 E
Ethylbenzene	100-41-4	220.00	< 4.34 U	2.43	< 4.34 U	35.6	27.7 D	12.7
Ethylene dibromide	106-93-4	0.11	< 7.69 U	< 1.54 U	< 7.69 U	< 7.69 U	< 44.6 U	< 1.54 U
Hexachlorobutadiene	87-68-3	1.10	< 10.67 U	< 2.13 U	< 10.67 U	< 10.67 U	< 61.91 U	< 2.13 U
Isopropyl alcohol	67-63-0	---	< 4.91 U	< 0.98 U	< 4.91 U	< 4.91 U	< 29.45 U	< 0.98 U
m/p-Xylene	126777-61-2	7000.00	< 8.67 U	2.77	< 8.67 U	105	83 D	41.4
Methyl chloride	74-87-3	240.00	< 4.09 U	< 0.82 U	< 4.09 U	< 4.09 U	< 24.54 U	< 0.82 U
Methyl ethyl ketone	78-93-3	10000.00	< 5.89 U	< 1.18 U	< 5.89 U	23.6	< 35.34 U	< 1.18 U
Methyl tert-butyl ether (MTBE)	1634-04-4	30000.00	< 3.6 U	< 0.72 U	< 3.6 U	< 3.6 U	< 20.88 U	< 0.72 U
Methylene chloride	75-09-2	520.00	< 6.95 U	< 1.39 U	< 6.95 U	< 6.95 U	< 41.72 U	< 1.39 U
Heptane	142-82-5	---	6.13 D	< 0.82 U	< 4.09 U	51.9	45.1 D	10.6
Hexane	110-54-3	2000.00	< 7.03 U	< 1.41 U	< 7.03 U	< 7.03 U	< 42.21 U	< 1.41 U
Styrene	100-42-5	10000.00	< 4.25 U	< 0.85 U	< 4.25 U	< 4.25 U	< 24.67 U	1.02
Tetrachloroethene	127-18-4	8.10	7.47 D	6.38	< 6.79 U	21	< 39.38 U	21.2
Tetrahydrofuran	109-99-9	---	< 5.89 U	3.42	< 5.89 U	< 5.89 U	< 35.34 U	< 1.18 U
Toluene	108-88-3	4000.00	17.3 D	24.4	22.2 D	156	129 D	24.2
trans-1,2-Dichloroethene	156-60-5	700.00	< 7.93 U	< 1.59 U	< 7.93 U	< 7.93 U	< 47.61 U	< 1.59 U
trans-1,3-Dichloropropene	10061-02-6	---	< 9.08 U	< 1.82 U	< 9.08 U	< 9.08 U	< 54.48 U	< 1.82 U
Trichlorobenzenes (1,2,4-)	120-82-1	2000.00	< 7.4 U	1.78	< 7.4 U	< 7.4 U	< 42.94 U	2.52
Trichloroethene	79-01-6	0.22	< 5.36 U	< 1.07 U	< 5.36 U	< 5.36 U	< 31.08 U	< 1.07 U
Trichlorofluoromethane	75-69-4	7000.00	< 11.21 U	6.5	< 11.21 U	21.9	< 67.24 U	7.84
Vinyl acetate	108-05-4	2000.00	9.15 D	5.07	5.28 D	< 3.52 U	< 20.4 U	< 0.7 U
Vinyl chloride	75-01-4	2.80	< 5.11 U	< 1.02 U	< 5.11 U	< 5.11 U	< 30.67 U	< 1.02 U

Units = ug/ m3

J = Estimated Value

E = Value exceeds calibration range

D = Sample diluted prior to analysis

U = Undetected

B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1

2. Undetected analytes are not shown

Table 1: New Cassel Analyte Summary

Sample ID			SV38-8FEET
Sample Date			9/14/2006
Matrix			SO
Method			TO-15
Test Type			Dilution
Dilution Factor			10
Lab Sample ID			X4558-01DL
Chemical Name	CAS	OSWER GUIDANCE	
1,1,1-Trichloroethane	71-55-6	22000.00	< 10.88 U
1,1,2,2-Tetrachloroethane	79-34-5	0.42	< 6.87 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	300000.00	28.3 D
1,1,2-Trichloroethane	79-00-5	1.50	< 5.44 U
1,1-Dichloroethane	75-34-3	5000.00	< 8.1 U
1,1-Dichloroethene	75-35-4	2000.00	< 7.93 U
1,2,4-Trimethylbenzene	95-63-6	60.00	15.7 D
1,2-Dichloroethane	107-06-2	0.94	< 4.05 U
1,2-Dichloropropane	78-87-5	40.00	< 4.62 U
1,2-Xylene	95-47-6	70000.00	12.6 D
1,3,5-Trimethylbenzene	108-67-8	60.00	< 4.91 U
1,3-Butadiene	106-99-0	870.00	< 4.42 U
1,4-Dioxane	123-91-1	---	< 7.2 U
1-Propene	115-07-1	---	
2,2,4-Trimethylpentane	540-84-1	---	6.53 D
2-Hexanone	591-78-6	---	< 8.18 U
4-Ethyltoluene	622-96-8	---	7.85 D
4-Methyl-2-pentanone	108-10-1	800.00	< 8.18 U
Acetone	67-64-1	3500.00	39.9 D
Allyl chloride	107-05-1	---	< 6.3 U
Benzene	71-43-2	3.10	5.1 D
Benzyl chloride	100-44-7	0.50	< 5.77 U
Bromodichloromethane	75-27-4	1.40	< 6.71 U
Bromoethene	593-60-2	---	< 8.75 U
Bromoform	75-25-2	22.00	< 10.35 U
Bromomethane	74-83-9	50.00	< 7.77 U
Carbon disulfide	75-15-0	7000.00	8.08 D
Carbon tetrachloride	56-23-5	1.60	< 6.3 U
Chlorobenzene	108-90-7	600.00	< 4.62 U
Chloroethane	75-00-3	100000.00	< 5.32 U
Chloroform	67-66-3	1.10	< 9.73 U
cis-1,2-Dichloroethene	156-59-2	350.00	< 3.97 U
cis-1,3-Dichloropropene	10061-01-5	---	< 4.54 U
Cyclohexane	110-82-7	---	< 6.71 U
Dibromochloromethane	124-48-1	1.00	< 8.51 U
Dichlorobenzenes (1,2-)	95-50-1	2000.00	< 6.01 U

Table 1: New Cassel Analyte Summary

Sample ID			**SV38-8FEET**
Sample Date			**9/14/2006**
Matrix			**SO**
Method			**TO-15**
Test Type			**Dilution**
Dilution Factor			**10**
Lab Sample ID			**X4558-01DL**
Chemical Name	**CAS**	**OSWER GUIDANCE**	
Dichlorobenzenes (1,3-)	**541-73-1**	1100.00	< 6.01 U
Dichlorobenzenes (1,4-)	106-46-7	8000.00	< 6.01 U
Dichlorodifluoromethane	**75-71-8**	2000.00	11.9 D
Dichlorotetrafluoroethane	76-14-2	---	< 6.99 U
Ethyl acetate	**141-78-6**	32000.00	411 D
Ethylbenzene	100-41-4	220.00	13 D
Ethylene dibromide	**106-93-4**	0.11	< 7.69 U
Hexachlorobutadiene	87-68-3	1.10	< 10.67 U
Isopropyl alcohol	**67-63-0**	—	< 4.91 U
m/p-Xylene	126777-61-2	7000.00	43.8 D
Methyl chloride	**74-87-3**	240.00	< 4.09 U
Methyl ethyl ketone	78-93-3	10000.00	< 5.89 U
Methyl tert-butyl ether (MTBE)	**1634-04-4**	30000.00	< 3.6 U
Methylene chloride	75-09-2	520.00	< 6.95 U
Heptane	**142-82-5**	—	< 4.09 U
Hexane	110-54-3	2000.00	< 7.03 U
Styrene	**100-42-5**	10000.00	< 4.25 U
Tetrachloroethene	127-18-4	8.10	26.5 D
Tetrahydrofuran	**109-99-9**	—	< 5.89 U
Toluene	108-88-3	4000.00	26 D
trans-1,2-Dichloroethene	**156-60-5**	700.00	< 7.93 U
trans-1,3-Dichloropropene	10061-02-6	---	< 9.08 U
Trichlorobenzenes (1,2,4-)	**120-82-1**	2000.00	< 7.4 U
Trichloroethene	79-01-6	0.22	< 5.36 U
Trichlorofluoromethane	**75-69-4**	7000.00	11.8 D
Vinyl acetate	108-05-4	2000.00	< 3.52 U
Vinyl chloride	**75-01-4**	2.80	< 5.11 U

Units = ug/ m3
J = Estimated Value
E = Value exceeds calibration range
D = Sample diluted prior to analysis
U = Undetected
B = Analyte found in associated method blank

Notes: 1. OSWER values provide target shallow gas conc. corresponding to target indoor air conc. where the soil gas to indoor air Attention Factor = 0.1; R = 1x10*6 & H I = 1
2. Undetected analytes are not shown

TABLE 2

Phase 2
Analyte Summary

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Table 2
Air Sampling: Comparative Results
WT Clark High School
New Cassel, Virginia

VOCs by Method TO-15	Air Sample ID: Sample Date: CAS No.	001A 9/17/2007	002A 9/17/2007	003A 9/17/2007	004A 9/17/2007	005A 9/17/2007	006A 9/17/2007	007A 9/17/2007	TO-15 Limit
1,1,1-Trichloroethane	71-55-6	ND	ND	ND	ND	ND	ND	ND	0.83
1,1,2,2-Tetrachloroethane	79-34-5	ND	ND	ND	ND	ND	ND	ND	1
1,1,2-Trichloroethane	79-00-5	ND	ND	ND	ND	ND	ND	ND	0.83
1,1-Dichloroethane	75-34-3	ND	ND	ND	ND	ND	ND	ND	0.62
1,1-Dichloroethene	75-35-4	ND	ND	ND	ND	ND	ND	ND	0.6
1,2,4-Trichlorobenzene	120-82-1	ND	ND	ND	ND	ND	ND	ND	1.1
1,2,4-Trimethylbenzene	95-63-6	4.55	4.15	3.95	5.35	2.30	3.75	7.24	7.5
1,2-Dibromoethane	106-93-4	ND	ND	ND	ND	ND	ND	ND	1.2
1,2-Dichlorobenzene	95-50-1	19.6	ND	ND	ND	ND	ND	ND	0.92
1,2-Dichloroethane	107-06-2	ND	ND	ND	0.617	ND	ND	ND	0.62
1,2-Dichloropropane	78-87-5	ND	ND	ND	ND	ND	ND	ND	0.7
1,3,5-Trimethylbenzene	108-67-8	**3.35**	**2.90**	**3.15**	**4.25**	ND	**2.25**	**3.40**	0.75
1,3-Butadiene	106-99-0	ND	ND	ND	ND	ND	ND	ND	0.34
1,3-Dichlorobenzene	541-73-1	ND	ND	ND	ND	ND	ND	ND	0.92
1,4-Dichlorobenzene	106-46-7	**2.87**	**1.71**	**1.96**	**1.35**	**1.04**	**1.77**	**2.75**	0.92
1,4-Dioxane	123-91-1	ND	ND	ND	ND	ND	ND	ND	1.1
2,2,4-Trimethylpentane	540-84-1	**2.09**	**1.33**	**1.71**	**0.712**	ND	**0.997**	0.475 J	0.71
4-Ethyltoluene	622-96-8	0.949	0.700 J	0.750	0.650 J	ND	0.600 J	0.849	0.75
Acetone	67-64-1	**17.0**	**21.2**	**16.1**	**18.8**	**17.3**	**30.7**	**18.7**	0.72
Allyl chloride	107-05-1	ND	ND	ND	ND	ND	ND	ND	0.48
Benzene	71-43-2	1.88	1.33	1.46	0.584	0.390 J	1.95	0.714	4.9
Benzyl chloride	100-44-7	ND	ND	ND	ND	ND	ND	ND	0.88
Bromodichloromethane	75-27-4	ND	ND	ND	ND	ND	ND	ND	1
Bromoform	75-25-2	ND	ND	ND	ND	ND	ND	ND	1.5
Bromomethane	74-83-9	ND	ND	ND	ND	ND	ND	ND	0.59
Carbon disulfide	75-15-0	0.633	0.348 J	0.317 J	0.380 J	0.411 J	0.443 J	2.82	4.7
Carbon tetrachloride	56-23-5	0.831	ND	0.767	0.640	0.703	0.640	ND	0.96
Chlorobenzene	108-90-7	ND	ND	ND	ND	ND	ND	ND	0.7
Chloroethane	75-00-3	ND	ND	ND	ND	ND	ND	ND	0.4

NOTES:

J = Estimated value; analyte detected at or below quantitation limits
JN = Estimated value and tentatively identified compound
E = Value exceeds quantitation range
Values in **bold font** exceed the TO-5 Limit for that parameter.

Units = $\mu g/m^3$
ND = Value not detected; reporting limit used as value
B = Analyte found in associated method blank

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Table 2
Air Sampling: Comparative Results
WT Clark High School
New Cassel, Virginia

VOCs by Method TO-15	Air Sample ID: Sample Date: CAS No.	001A 9/17/2007	002A 9/17/2007	003A 9/17/2007	004A 9/17/2007	005A 9/17/2007	006A 9/17/2007	007A 9/17/2007	TO-15 Limit
Chloroform	67-66-3	**1.44**	ND	ND	ND	ND	ND	ND	0.74
Chloromethane	74-87-3	**1.20**	ND	ND	ND	ND	ND	ND	0.31
cis-1,2-Dichloroethene	156-59-2	0.524 J	**0.806**	0.564 J	**0.604**	0.564 J	**0.806**	**1.01**	0.6
cis-1,3-Dichloropropene	10061-01-5	ND	ND	ND	ND	ND	ND	ND	0.69
Cyclohexane	110-82-7	**0.910**	ND	ND	ND	ND	ND	ND	0.52
Dibromochloromethane	75-27-4	ND	ND	ND	ND	ND	ND	ND	1.3
Ethyl acetate	141-78-6	ND	ND	ND	ND	ND	ND	ND	0.92
Ethylbenzene	100-41-4	**1.50**	**2.12**	**1.90**	**1.15**	**0.927**	**4.02**	**1.19**	0.66
Freon 11	75-69-4	**2.06**	**1.88**	**2.00**	**1.77**	**2.00**	**2.17**	**1.77**	0.86
Freon 113	76-13-1	0.935 J	0.779 J	ND	0.857 J	0.857 J	0.857 J	0.779 J	12
Freon 114	76-14-2	ND	ND	ND	ND	ND	ND	ND	1.1
Freon 12	75-71-8	**3.52**	**3.47**	**3.67**	**3.57**	**3.72**	**3.82**	**3.62**	0.75
Heptane	142-82-5	1.08	0.791	0.875	ND	ND	1.46	0.500 J	6.2
Hexachloro-1,3-butadiene	87-68-3	ND	ND	ND	ND	ND	ND	ND	1.6
Hexane	110-54-3	**2.87**	**2.22**	**2.40**	**1.58**	ND	**2.97**	ND	0.54
Isopropyl alcohol	67-63-0	ND	ND	ND	ND	ND	ND	ND	0.37
m&p-Xylene	126777-61-2	**3.88**	**3.22**	**4.55**	**2.25**	**1.68**	**3.13**	**2.65**	1.3
Methyl butyl ketone	591-78-6	ND	ND	ND	ND	ND	ND	ND	1.2
Methyl ethyl ketone	78-93-3	ND	**2.16**	**2.25**	ND	ND	**4.62**	**2.58**	0.9
Methyl isobutyl ketone	108-10-1	ND	ND	ND	ND	ND	ND	ND	1.2
Methyl tert-butyl ether	1634-04-4	ND	ND	ND	ND	ND	ND	ND	0.55
Methylene chloride	75-09-2	**1.34**	**0.847**	**0.847**	**1.91**	**0.671**	**1.66**	**1.27**	0.53
o-Xylene	95-47-6	**1.41**	**1.19**	**1.41**	**0.971**	**0.662**	**1.19**	**1.02**	0.66
Propylene	115-07-1	ND	ND	ND	ND	ND	ND	ND	0.26
Styrene	100-42-5	0.520 J	0.520 J	0.520 J	**0.909**	**0.736**	**0.909**	**0.866**	0.65
Tetrachloroethylene	127-18-4	**2.21**	**1.52**	**1.45**	ND	ND	**2.28**	ND	1
Tetrahydrofuran	109-99-9	ND	ND	ND	ND	ND	ND	ND	0.45
Toluene	108-88-3	**6.59**	5.36	**6.78**	3.79	2.95	**8.24**	2.76	5.7
trans-1,2-Dichloroethene	156-60-5	ND	ND	ND	ND	ND	ND	ND	0.6

NOTES:
J = Estimated value; analyte detected at or below quantitation limits
JN = Estimated value and tentatively identified compound
E = Value exceeds quantitation range
Values in **bold font** exceed the TO-5 Limit for that parameter.

Units = $\mu g/m^3$
ND = Value not detected; reporting limit used as value
B = Analyte found in associated method blank

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Table 2
Air Sampling: Comparative Results
WT Clark High School
New Cassel, Virginia

VOCs by Method TO-15	Air Sample ID: Sample Date: CAS No.	001A 9/17/2007	002A 9/17/2007	003A 9/17/2007	004A 9/17/2007	005A 9/17/2007	006A 9/17/2007	007A 9/17/2007	TO-15 Limit
trans-1,3-Dichloropropene	10061-02-6	ND	ND	ND	ND	ND	ND	ND	0.69
Trichloroethene	79-01-6	**2.79**	**2.40**	**2.18**	**1.58**	**3.71**	**2.73**	**3.17**	0.82
Vinyl acetate	108-05-4	ND	ND	ND	ND	ND	ND	ND	0.54
Vinyl bromide	593-60-2	ND	ND	ND	ND	ND	ND	ND	0.67
Vinyl chloride	75-01-4	ND	ND	ND	ND	ND	ND	ND	0.36

NOTES:

J = Estimated value; analyte detected at or below quantitation limits
JN = Estimated value and tentatively identified compound
E = Value exceeds quantitation range
Values in **bold font** exceed the TO-5 Limit for that parameter.

Units = $\mu g/m^3$
ND = Value not detected; reporting limit used as value
B = Analyte found in associated method blank

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-1-091407
Lab Order:	C0709023	**Tag Number:**	101,42
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Vacuum Reading "Hg	-12			"Hg		9/14/2007
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trimethylbenzene	0.910	0.150		ppbV	1	9/17/2007
1,2-Dibromoethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichlorobenzene	3.20	0.750		ppbV	5	9/17/2007
1,2-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloropropane	ND	0.150		ppbV	1	9/17/2007
1,3,5-Trimethylbenzene	0.670	0.150		ppbV	1	9/17/2007
1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,4-Dichlorobenzene	0.470	0.150		ppbV	1	9/17/2007
1,4-Dioxane	ND	0.300		ppbV	1	9/17/2007
2,2,4-trimethylpentane	0.440	0.150		ppbV	1	9/17/2007
4-ethyltoluene	0.190	0.150		ppbV	1	9/17/2007
Acetone	7.05	1.50		ppbV	5	9/17/2007
Allyl chloride	ND	0.150		ppbV	1	9/17/2007
Benzene	0.580	0.150		ppbV	1	9/17/2007
Benzyl chloride	ND	0.150		ppbV	1	9/17/2007
Bromodichloromethane	ND	0.150		ppbV	1	9/17/2007
Bromoform	ND	0.150		ppbV	1	9/17/2007
Bromomethane	ND	0.150		ppbV	1	9/17/2007
Carbon disulfide	0.200	0.150		ppbV	1	9/17/2007
Carbon tetrachloride	0.130	0.0400		ppbV	1	9/17/2007
Chlorobenzene	ND	0.150		ppbV	1	9/17/2007
Chloroethane	ND	0.150		ppbV	1	9/17/2007
Chloroform	0.290	0.150		ppbV	1	9/17/2007
Chloromethane	0.570	0.150		ppbV	1	9/17/2007
cis-1,2-Dichloroethene	0.130	0.150	J	ppbV	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Cyclohexane	0.260	0.150		ppbV	1	9/17/2007
Dibromochloromethane	ND	0.150		ppbV	1	9/17/2007
Ethyl acetate	ND	0.250		ppbV	1	9/17/2007
Ethylbenzene	0.340	0.150		ppbV	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-1-091407
Lab Order:	C0709023	**Tag Number:**	101,42
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 11	0.360	0.150		ppbV	1	9/17/2007
Freon 113	0.120	0.150	J	ppbV	1	9/17/2007
Freon 114	ND	0.150		ppbV	1	9/17/2007
Freon 12	0.700	0.150		ppbV	1	9/17/2007
Heptane	0.260	0.150		ppbV	1	9/17/2007
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
Hexane	0.800	0.150		ppbV	1	9/17/2007
Isopropyl alcohol	ND	0.150		ppbV	1	9/17/2007
m&p-Xylene	0.880	0.300		ppbV	1	9/17/2007
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl Ethyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/17/2007
Methylene chloride	0.380	0.150		ppbV	1	9/17/2007
o-Xylene	0.320	0.150		ppbV	1	9/17/2007
Propylene	ND	0.150		ppbV	1	9/17/2007
Styrene	0.120	0.150	J	ppbV	1	9/17/2007
Tetrachloroethylene	0.320	0.150		ppbV	1	9/17/2007
Tetrahydrofuran	ND	0.150		ppbV	1	9/17/2007
Toluene	1.72	0.150		ppbV	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Trichloroethene	0.510	0.0400		ppbV	1	9/17/2007
Vinyl acetate	ND	0.150		ppbV	1	9/17/2007
Vinyl Bromide	ND	0.150		ppbV	1	9/17/2007
Vinyl chloride	ND	0.0400		ppbV	1	9/17/2007
Surr: Bromofluorobenzene	102	70-130		%REC	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-2-091407
Lab Order:	C0709023	**Tag Number:**	413,156
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Vacuum Reading "Hg	-15			"Hg		9/14/2007
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trimethylbenzene	0.830	0.150		ppbV	1	9/17/2007
1,2-Dibromoethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloropropane	ND	0.150		ppbV	1	9/17/2007
1,3,5-Trimethylbenzene	0.580	0.150		ppbV	1	9/17/2007
1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,4-Dichlorobenzene	0.280	0.150		ppbV	1	9/17/2007
1,4-Dioxane	ND	0.300		ppbV	1	9/17/2007
2,2,4-trimethylpentane	0.280	0.150		ppbV	1	9/17/2007
4-ethyltoluene	0.140	0.150	J	ppbV	1	9/17/2007
Acetone	8.80	1.50		ppbV	5	9/17/2007
Allyl chloride	ND	0.150		ppbV	1	9/17/2007
Benzene	0.410	0.150		ppbV	1	9/17/2007
Benzyl chloride	ND	0.150		ppbV	1	9/17/2007
Bromodichloromethane	ND	0.150		ppbV	1	9/17/2007
Bromoform	ND	0.150		ppbV	1	9/17/2007
Bromomethane	ND	0.150		ppbV	1	9/17/2007
Carbon disulfide	0.110	0.150	J	ppbV	1	9/17/2007
Carbon tetrachloride	ND	0.0400		ppbV	1	9/17/2007
Chlorobenzene	ND	0.150		ppbV	1	9/17/2007
Chloroethane	ND	0.150		ppbV	1	9/17/2007
Chloroform	ND	0.150		ppbV	1	9/17/2007
Chloromethane	ND	0.150		ppbV	1	9/17/2007
cis-1,2-Dichloroethene	0.200	0.150		ppbV	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Cyclohexane	ND	0.150		ppbV	1	9/17/2007
Dibromochloromethane	ND	0.150		ppbV	1	9/17/2007
Ethyl acetate	ND	0.250		ppbV	1	9/17/2007
Ethylbenzene	0.480	0.150		ppbV	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-2-091407
Lab Order:	C0709023	**Tag Number:**	413,156
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 11	0.330	0.150		ppbV	1	9/17/2007
Freon 113	0.100	0.150	J	ppbV	1	9/17/2007
Freon 114	ND	0.150		ppbV	1	9/17/2007
Freon 12	0.690	0.150		ppbV	1	9/17/2007
Heptane	0.190	0.150		ppbV	1	9/17/2007
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
Hexane	0.620	0.150		ppbV	1	9/17/2007
Isopropyl alcohol	ND	0.150		ppbV	1	9/17/2007
m&p-Xylene	0.730	0.300		ppbV	1	9/17/2007
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl Ethyl Ketone	0.720	0.300		ppbV	1	9/17/2007
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/17/2007
Methylene chloride	0.240	0.150		ppbV	1	9/17/2007
o-Xylene	0.270	0.150		ppbV	1	9/17/2007
Propylene	ND	0.150		ppbV	1	9/17/2007
Styrene	0.120	0.150	J	ppbV	1	9/17/2007
Tetrachloroethylene	0.220	0.150		ppbV	1	9/17/2007
Tetrahydrofuran	ND	0.150		ppbV	1	9/17/2007
Toluene	1.40	0.150		ppbV	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Trichloroethene	0.440	0.0400		ppbV	1	9/17/2007
Vinyl acetate	ND	0.150		ppbV	1	9/17/2007
Vinyl Bromide	ND	0.150		ppbV	1	9/17/2007
Vinyl chloride	ND	0.0400		ppbV	1	9/17/2007
Surr: Bromofluorobenzene	109	70-130		%REC	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-3-091407
Lab Order:	C0709023	**Tag Number:**	158,152
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Vacuum Reading "Hg	-12			"Hg		9/14/2007
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trimethylbenzene	0.790	0.150		ppbV	1	9/17/2007
1,2-Dibromoethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloropropane	ND	0.150		ppbV	1	9/17/2007
1,3,5-Trimethylbenzene	0.630	0.150		ppbV	1	9/17/2007
1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,4-Dichlorobenzene	0.320	0.150		ppbV	1	9/17/2007
1,4-Dioxane	ND	0.300		ppbV	1	9/17/2007
2,2,4-trimethylpentane	0.360	0.150		ppbV	1	9/17/2007
4-ethyltoluene	0.150	0.150		ppbV	1	9/17/2007
Acetone	6.65	1.50		ppbV	5	9/17/2007
Allyl chloride	ND	0.150		ppbV	1	9/17/2007
Benzene	0.450	0.150		ppbV	1	9/17/2007
Benzyl chloride	ND	0.150		ppbV	1	9/17/2007
Bromodichloromethane	ND	0.150		ppbV	1	9/17/2007
Bromoform	ND	0.150		ppbV	1	9/17/2007
Bromomethane	ND	0.150		ppbV	1	9/17/2007
Carbon disulfide	0.100	0.150	J	ppbV	1	9/17/2007
Carbon tetrachloride	0.120	0.0400		ppbV	1	9/17/2007
Chlorobenzene	ND	0.150		ppbV	1	9/17/2007
Chloroethane	ND	0.150		ppbV	1	9/17/2007
Chloroform	ND	0.150		ppbV	1	9/17/2007
Chloromethane	ND	0.150		ppbV	1	9/17/2007
cis-1,2-Dichloroethene	0.140	0.150	J	ppbV	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Cyclohexane	ND	0.150		ppbV	1	9/17/2007
Dibromochloromethane	ND	0.150		ppbV	1	9/17/2007
Ethyl acetate	ND	0.250		ppbV	1	9/17/2007
Ethylbenzene	0.430	0.150		ppbV	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-3-091407
Lab Order:	C0709023	**Tag Number:**	158,152
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 11	0.350	0.150		ppbV	1	9/17/2007
Freon 113	ND	0.150		ppbV	1	9/17/2007
Freon 114	ND	0.150		ppbV	1	9/17/2007
Freon 12	0.730	0.150		ppbV	1	9/17/2007
Heptane	0.210	0.150		ppbV	1	9/17/2007
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
Hexane	0.670	0.150		ppbV	1	9/17/2007
Isopropyl alcohol	ND	0.150		ppbV	1	9/17/2007
m&p-Xylene	1.03	0.300		ppbV	1	9/17/2007
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl Ethyl Ketone	0.750	0.300		ppbV	1	9/17/2007
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/17/2007
Methylene chloride	0.240	0.150		ppbV	1	9/17/2007
o-Xylene	0.320	0.150		ppbV	1	9/17/2007
Propylene	ND	0.150		ppbV	1	9/17/2007
Styrene	0.120	0.150	J	ppbV	1	9/17/2007
Tetrachloroethylene	0.210	0.150		ppbV	1	9/17/2007
Tetrahydrofuran	ND	0.150		ppbV	1	9/17/2007
Toluene	1.77	0.150		ppbV	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Trichloroethene	0.400	0.0400		ppbV	1	9/17/2007
Vinyl acetate	ND	0.150		ppbV	1	9/17/2007
Vinyl Bromide	ND	0.150		ppbV	1	9/17/2007
Vinyl chloride	ND	0.0400		ppbV	1	9/17/2007
Surr: Bromofluorobenzene	102	70-130		%REC	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-1-091407
Lab Order:	C0709023	**Tag Number:**	427,297
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Vacuum Reading "Hg	-13			"Hg		9/14/2007
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trimethylbenzene	1.07	0.150		ppbV	1	9/17/2007
1,2-Dibromoethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloroethane	0.150	0.150		ppbV	1	9/17/2007
1,2-Dichloropropane	ND	0.150		ppbV	1	9/17/2007
1,3,5-Trimethylbenzene	0.850	0.150		ppbV	1	9/17/2007
1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,4-Dichlorobenzene	0.220	0.150		ppbV	1	9/17/2007
1,4-Dioxane	ND	0.300		ppbV	1	9/17/2007
2,2,4-trimethylpentane	0.150	0.150		ppbV	1	9/17/2007
4-ethyltoluene	0.130	0.150	J	ppbV	1	9/17/2007
Acetone	7.80	1.50		ppbV	5	9/17/2007
Allyl chloride	ND	0.150		ppbV	1	9/17/2007
Benzene	0.180	0.150		ppbV	1	9/17/2007
Benzyl chloride	ND	0.150		ppbV	1	9/17/2007
Bromodichloromethane	ND	0.150		ppbV	1	9/17/2007
Bromoform	ND	0.150		ppbV	1	9/17/2007
Bromomethane	ND	0.150		ppbV	1	9/17/2007
Carbon disulfide	0.120	0.150	J	ppbV	1	9/17/2007
Carbon tetrachloride	0.100	0.0400		ppbV	1	9/17/2007
Chlorobenzene	ND	0.150		ppbV	1	9/17/2007
Chloroethane	ND	0.150		ppbV	1	9/17/2007
Chloroform	ND	0.150		ppbV	1	9/17/2007
Chloromethane	ND	0.150		ppbV	1	9/17/2007
cis-1,2-Dichloroethene	0.150	0.150		ppbV	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Cyclohexane	ND	0.150		ppbV	1	9/17/2007
Dibromochloromethane	ND	0.150		ppbV	1	9/17/2007
Ethyl acetate	ND	0.250		ppbV	1	9/17/2007
Ethylbenzene	0.260	0.150		ppbV	1	9/17/2007

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-1-091407
Lab Order:	C0709023	**Tag Number:**	427,297
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 11	0.310	0.150		ppbV	1	9/17/2007
Freon 113	0.110	0.150	J	ppbV	1	9/17/2007
Freon 114	ND	0.150		ppbV	1	9/17/2007
Freon 12	0.710	0.150		ppbV	1	9/17/2007
Heptane	ND	0.150		ppbV	1	9/17/2007
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
Hexane	0.440	0.150		ppbV	1	9/17/2007
Isopropyl alcohol	ND	0.150		ppbV	1	9/17/2007
m&p-Xylene	0.510	0.300		ppbV	1	9/17/2007
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl Ethyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/17/2007
Methylene chloride	0.540	0.150		ppbV	1	9/17/2007
o-Xylene	0.220	0.150		ppbV	1	9/17/2007
Propylene	ND	0.150		ppbV	1	9/17/2007
Styrene	0.210	0.150		ppbV	1	9/17/2007
Tetrachloroethylene	ND	0.150		ppbV	1	9/17/2007
Tetrahydrofuran	ND	0.150		ppbV	1	9/17/2007
Toluene	0.990	0.150		ppbV	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Trichloroethene	0.290	0.0400		ppbV	1	9/17/2007
Vinyl acetate	ND	0.150		ppbV	1	9/17/2007
Vinyl Bromide	ND	0.150		ppbV	1	9/17/2007
Vinyl chloride	ND	0.0400		ppbV	1	9/17/2007
Surr: Bromofluorobenzene	100	70-130		%REC	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-2-091407
Lab Order:	C0709023	**Tag Number:**	336,121
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-005A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Vacuum Reading "Hg	-10			"Hg		9/14/2007
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trimethylbenzene	0.460	0.150		ppbV	1	9/17/2007
1,2-Dibromoethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloropropane	ND	0.150		ppbV	1	9/17/2007
1,3,5-Trimethylbenzene	ND	0.150		ppbV	1	9/17/2007
1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,4-Dichlorobenzene	0.170	0.150		ppbV	1	9/17/2007
1,4-Dioxane	ND	0.300		ppbV	1	9/17/2007
2,2,4-trimethylpentane	ND	0.150		ppbV	1	9/17/2007
4-ethyltoluene	ND	0.150		ppbV	1	9/17/2007
Acetone	7.15	1.50		ppbV	5	9/17/2007
Allyl chloride	ND	0.150		ppbV	1	9/17/2007
Benzene	0.120	0.150	J	ppbV	1	9/17/2007
Benzyl chloride	ND	0.150		ppbV	1	9/17/2007
Bromodichloromethane	ND	0.150		ppbV	1	9/17/2007
Bromoform	ND	0.150		ppbV	1	9/17/2007
Bromomethane	ND	0.150		ppbV	1	9/17/2007
Carbon disulfide	0.130	0.150	J	ppbV	1	9/17/2007
Carbon tetrachloride	0.110	0.0400		ppbV	1	9/17/2007
Chlorobenzene	ND	0.150		ppbV	1	9/17/2007
Chloroethane	ND	0.150		ppbV	1	9/17/2007
Chloroform	ND	0.150		ppbV	1	9/17/2007
Chloromethane	ND	0.150		ppbV	1	9/17/2007
cis-1,2-Dichloroethene	0.140	0.150	J	ppbV	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Cyclohexane	ND	0.150		ppbV	1	9/17/2007
Dibromochloromethane	ND	0.150		ppbV	1	9/17/2007
Ethyl acetate	ND	0.250		ppbV	1	9/17/2007
Ethylbenzene	0.210	0.150		ppbV	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-2-091407
Lab Order:	C0709023	**Tag Number:**	336,121
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-005A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 11	0.350	0.150		ppbV	1	9/17/2007
Freon 113	0.110	0.150	J	ppbV	1	9/17/2007
Freon 114	ND	0.150		ppbV	1	9/17/2007
Freon 12	0.740	0.150		ppbV	1	9/17/2007
Heptane	ND	0.150		ppbV	1	9/17/2007
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
Hexane	ND	0.150		ppbV	1	9/17/2007
Isopropyl alcohol	ND	0.150		ppbV	1	9/17/2007
m&p-Xylene	0.380	0.300		ppbV	1	9/17/2007
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl Ethyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/17/2007
Methylene chloride	0.190	0.150		ppbV	1	9/17/2007
o-Xylene	0.150	0.150		ppbV	1	9/17/2007
Propylene	ND	0.150		ppbV	1	9/17/2007
Styrene	0.170	0.150		ppbV	1	9/17/2007
Tetrachloroethylene	ND	0.150		ppbV	1	9/17/2007
Tetrahydrofuran	ND	0.150		ppbV	1	9/17/2007
Toluene	0.770	0.150		ppbV	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Trichloroethene	0.680	0.0400		ppbV	1	9/17/2007
Vinyl acetate	ND	0.150		ppbV	1	9/17/2007
Vinyl Bromide	ND	0.150		ppbV	1	9/17/2007
Vinyl chloride	ND	0.0400		ppbV	1	9/17/2007
Surr: Bromofluorobenzene	102	70-130		%REC	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-3-091407
Lab Order:	C0709023	**Tag Number:**	87,449
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-006A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Vacuum Reading "Hg	-14			"Hg		9/14/2007
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trimethylbenzene	0.750	0.150		ppbV	1	9/17/2007
1,2-Dibromoethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloropropane	ND	0.150		ppbV	1	9/17/2007
1,3,5-Trimethylbenzene	0.450	0.150		ppbV	1	9/17/2007
1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,4-Dichlorobenzene	0.290	0.150		ppbV	1	9/17/2007
1,4-Dioxane	ND	0.300		ppbV	1	9/17/2007
2,2,4-trimethylpentane	0.210	0.150		ppbV	1	9/17/2007
4-ethyltoluene	0.120	0.150	J	ppbV	1	9/17/2007
Acetone	12.7	3.00		ppbV	10	9/17/2007
Allyl chloride	ND	0.150		ppbV	1	9/17/2007
Benzene	0.600	0.150		ppbV	1	9/17/2007
Benzyl chloride	ND	0.150		ppbV	1	9/17/2007
Bromodichloromethane	ND	0.150		ppbV	1	9/17/2007
Bromoform	ND	0.150		ppbV	1	9/17/2007
Bromomethane	ND	0.150		ppbV	1	9/17/2007
Carbon disulfide	0.140	0.150	J	ppbV	1	9/17/2007
Carbon tetrachloride	0.100	0.0400		ppbV	1	9/17/2007
Chlorobenzene	ND	0.150		ppbV	1	9/17/2007
Chloroethane	ND	0.150		ppbV	1	9/17/2007
Chloroform	ND	0.150		ppbV	1	9/17/2007
Chloromethane	ND	0.150		ppbV	1	9/17/2007
cis-1,2-Dichloroethene	0.200	0.150		ppbV	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Cyclohexane	ND	0.150		ppbV	1	9/17/2007
Dibromochloromethane	ND	0.150		ppbV	1	9/17/2007
Ethyl acetate	ND	0.250		ppbV	1	9/17/2007
Ethylbenzene	0.910	0.150		ppbV	1	9/17/2007

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-3-091407
Lab Order:	C0709023	**Tag Number:**	87,449
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-006A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 11	0.380	0.150		ppbV	1	9/17/2007
Freon 113	0.110	0.150	J	ppbV	1	9/17/2007
Freon 114	ND	0.150		ppbV	1	9/17/2007
Freon 12	0.760	0.150		ppbV	1	9/17/2007
Heptane	0.350	0.150		ppbV	1	9/17/2007
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
Hexane	0.830	0.150		ppbV	1	9/17/2007
Isopropyl alcohol	ND	0.150		ppbV	1	9/17/2007
m&p-Xylene	0.710	0.300		ppbV	1	9/17/2007
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl Ethyl Ketone	1.54	0.300		ppbV	1	9/17/2007
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/17/2007
Methylene chloride	0.470	0.150		ppbV	1	9/17/2007
o-Xylene	0.270	0.150		ppbV	1	9/17/2007
Propylene	ND	0.150		ppbV	1	9/17/2007
Styrene	0.210	0.150		ppbV	1	9/17/2007
Tetrachloroethylene	0.330	0.150		ppbV	1	9/17/2007
Tetrahydrofuran	ND	0.150		ppbV	1	9/17/2007
Toluene	2.15	0.150		ppbV	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Trichloroethene	0.500	0.0400		ppbV	1	9/17/2007
Vinyl acetate	ND	0.150		ppbV	1	9/17/2007
Vinyl Bromide	ND	0.150		ppbV	1	9/17/2007
Vinyl chloride	ND	0.0400		ppbV	1	9/17/2007
Surr: Bromofluorobenzene	105	70-130		%REC	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	AMB-1-091407
Lab Order:	C0709023	**Tag Number:**	474,302
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-007A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Vacuum Reading "Hg	-5			"Hg		9/14/2007
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	0.150		ppbV	1	9/17/2007
1,1,2-Trichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,1-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2,4-Trimethylbenzene	1.45	0.150		ppbV	1	9/17/2007
1,2-Dibromoethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloroethane	ND	0.150		ppbV	1	9/17/2007
1,2-Dichloropropane	ND	0.150		ppbV	1	9/17/2007
1,3,5-Trimethylbenzene	0.680	0.150		ppbV	1	9/17/2007
1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
1,3-Dichlorobenzene	ND	0.150		ppbV	1	9/17/2007
1,4-Dichlorobenzene	0.450	0.150		ppbV	1	9/17/2007
1,4-Dioxane	ND	0.300		ppbV	1	9/17/2007
2,2,4-trimethylpentane	0.100	0.150	J	ppbV	1	9/17/2007
4-ethyltoluene	0.170	0.150		ppbV	1	9/17/2007
Acetone	7.75	1.50		ppbV	5	9/17/2007
Allyl chloride	ND	0.150		ppbV	1	9/17/2007
Benzene	0.220	0.150		ppbV	1	9/17/2007
Benzyl chloride	ND	0.150		ppbV	1	9/17/2007
Bromodichloromethane	ND	0.150		ppbV	1	9/17/2007
Bromoform	ND	0.150		ppbV	1	9/17/2007
Bromomethane	ND	0.150		ppbV	1	9/17/2007
Carbon disulfide	0.890	0.150		ppbV	1	9/17/2007
Carbon tetrachloride	ND	0.0400		ppbV	1	9/17/2007
Chlorobenzene	ND	0.150		ppbV	1	9/17/2007
Chloroethane	ND	0.150		ppbV	1	9/17/2007
Chloroform	ND	0.150		ppbV	1	9/17/2007
Chloromethane	ND	0.150		ppbV	1	9/17/2007
cis-1,2-Dichloroethene	0.250	0.150		ppbV	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Cyclohexane	ND	0.150		ppbV	1	9/17/2007
Dibromochloromethane	ND	0.150		ppbV	1	9/17/2007
Ethyl acetate	ND	0.250		ppbV	1	9/17/2007
Ethylbenzene	0.270	0.150		ppbV	1	9/17/2007

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	AMB-1-091407
Lab Order:	C0709023	**Tag Number:**	474,302
Project:	WT Clark HS New Cassel V1	**Collection Date:**	9/14/2007
Lab ID:	C0709023-007A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 11	0.310	0.150		ppbV	1	9/17/2007
Freon 113	0.100	0.150	J	ppbV	1	9/17/2007
Freon 114	ND	0.150		ppbV	1	9/17/2007
Freon 12	0.720	0.150		ppbV	1	9/17/2007
Heptane	0.120	0.150	J	ppbV	1	9/17/2007
Hexachloro-1,3-butadiene	ND	0.150		ppbV	1	9/17/2007
Hexane	ND	0.150		ppbV	1	9/17/2007
Isopropyl alcohol	ND	0.150		ppbV	1	9/17/2007
m&p-Xylene	0.600	0.300		ppbV	1	9/17/2007
Methyl Butyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl Ethyl Ketone	0.860	0.300		ppbV	1	9/17/2007
Methyl Isobutyl Ketone	ND	0.300		ppbV	1	9/17/2007
Methyl tert-butyl ether	ND	0.150		ppbV	1	9/17/2007
Methylene chloride	0.360	0.150		ppbV	1	9/17/2007
o-Xylene	0.230	0.150		ppbV	1	9/17/2007
Propylene	ND	0.150		ppbV	1	9/17/2007
Styrene	0.200	0.150		ppbV	1	9/17/2007
Tetrachloroethylene	ND	0.150		ppbV	1	9/17/2007
Tetrahydrofuran	ND	0.150		ppbV	1	9/17/2007
Toluene	0.720	0.150		ppbV	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.150		ppbV	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.150		ppbV	1	9/17/2007
Trichloroethene	0.580	0.0400		ppbV	1	9/17/2007
Vinyl acetate	ND	0.150		ppbV	1	9/17/2007
Vinyl Bromide	ND	0.150		ppbV	1	9/17/2007
Vinyl chloride	ND	0.0400		ppbV	1	9/17/2007
Surr: Bromofluorobenzene	104	70-130		%REC	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-1-091407
Lab Order:	C0709023	**Tag Number:**	101,42
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/17/2007
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/17/2007
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/17/2007
1,2,4-Trimethylbenzene	4.55	0.749		ug/m3	1	9/17/2007
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/17/2007
1,2-Dichlorobenzene	19.6	4.58		ug/m3	5	9/17/2007
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/17/2007
1,3,5-Trimethylbenzene	3.35	0.750		ug/m3	1	9/17/2007
1,3-butadiene	ND	0.337		ug/m3	1	9/17/2007
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,4-Dichlorobenzene	2.87	0.917		ug/m3	1	9/17/2007
1,4-Dioxane	ND	1.10		ug/m3	1	9/17/2007
2,2,4-trimethylpentane	2.09	0.712		ug/m3	1	9/17/2007
4-ethyltoluene	0.949	0.750		ug/m3	1	9/17/2007
Acetone	17.0	3.62		ug/m3	5	9/17/2007
Allyl chloride	ND	0.477		ug/m3	1	9/17/2007
Benzene	1.88	0.487		ug/m3	1	9/17/2007
Benzyl chloride	ND	0.877		ug/m3	1	9/17/2007
Bromodichloromethane	ND	1.02		ug/m3	1	9/17/2007
Bromoform	ND	1.58		ug/m3	1	9/17/2007
Bromomethane	ND	0.592		ug/m3	1	9/17/2007
Carbon disulfide	0.633	0.475		ug/m3	1	9/17/2007
Carbon tetrachloride	0.831	0.256		ug/m3	1	9/17/2007
Chlorobenzene	ND	0.702		ug/m3	1	9/17/2007
Chloroethane	ND	0.402		ug/m3	1	9/17/2007
Chloroform	1.44	0.744		ug/m3	1	9/17/2007
Chloromethane	1.20	0.315		ug/m3	1	9/17/2007
cis-1,2-Dichloroethene	0.524	0.604	J	ug/m3	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Cyclohexane	0.910	0.525		ug/m3	1	9/17/2007
Dibromochloromethane	ND	1.30		ug/m3	1	9/17/2007
Ethyl acetate	ND	0.916		ug/m3	1	9/17/2007
Ethylbenzene	1.50	0.662		ug/m3	1	9/17/2007
Freon 11	2.06	0.857		ug/m3	1	9/17/2007
Freon 113	0.935	1.17	J	ug/m3	1	9/17/2007
Freon 114	ND	1.07		ug/m3	1	9/17/2007

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-1-091407
Lab Order:	C0709023	**Tag Number:**	101,42
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-001A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	3.52	0.754		ug/m3	1	9/17/2007
Heptane	1.08	0.625		ug/m3	1	9/17/2007
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/17/2007
Hexane	2.87	0.537		ug/m3	1	9/17/2007
Isopropyl alcohol	ND	0.375		ug/m3	1	9/17/2007
m&p-Xylene	3.88	1.32		ug/m3	1	9/17/2007
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl Ethyl Ketone	ND	0.899		ug/m3	1	9/17/2007
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/17/2007
Methylene chloride	1.34	0.530		ug/m3	1	9/17/2007
o-Xylene	1.41	0.662		ug/m3	1	9/17/2007
Propylene	ND	0.262		ug/m3	1	9/17/2007
Styrene	0.520	0.649	J	ug/m3	1	9/17/2007
Tetrachloroethylene	2.21	1.03		ug/m3	1	9/17/2007
Tetrahydrofuran	ND	0.450		ug/m3	1	9/17/2007
Toluene	6.59	0.575		ug/m3	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Trichloroethene	2.79	0.218		ug/m3	1	9/17/2007
Vinyl acetate	ND	0.537		ug/m3	1	9/17/2007
Vinyl Bromide	ND	0.667		ug/m3	1	9/17/2007
Vinyl chloride	ND	0.104		ug/m3	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-2-091407
Lab Order:	C0709023	**Tag Number:**	413,156
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/17/2007
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/17/2007
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/17/2007
1,2,4-Trimethylbenzene	4.15	0.749		ug/m3	1	9/17/2007
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/17/2007
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/17/2007
1,3,5-Trimethylbenzene	2.90	0.750		ug/m3	1	9/17/2007
1,3-butadiene	ND	0.337		ug/m3	1	9/17/2007
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,4-Dichlorobenzene	1.71	0.917		ug/m3	1	9/17/2007
1,4-Dioxane	ND	1.10		ug/m3	1	9/17/2007
2,2,4-trimethylpentane	1.33	0.712		ug/m3	1	9/17/2007
4-ethyltoluene	0.700	0.750	J	ug/m3	1	9/17/2007
Acetone	21.2	3.62		ug/m3	5	9/17/2007
Allyl chloride	ND	0.477		ug/m3	1	9/17/2007
Benzene	1.33	0.487		ug/m3	1	9/17/2007
Benzyl chloride	ND	0.877		ug/m3	1	9/17/2007
Bromodichloromethane	ND	1.02		ug/m3	1	9/17/2007
Bromoform	ND	1.58		ug/m3	1	9/17/2007
Bromomethane	ND	0.592		ug/m3	1	9/17/2007
Carbon disulfide	0.348	0.475	J	ug/m3	1	9/17/2007
Carbon tetrachloride	ND	0.256		ug/m3	1	9/17/2007
Chlorobenzene	ND	0.702		ug/m3	1	9/17/2007
Chloroethane	ND	0.402		ug/m3	1	9/17/2007
Chloroform	ND	0.744		ug/m3	1	9/17/2007
Chloromethane	ND	0.315		ug/m3	1	9/17/2007
cis-1,2-Dichloroethene	0.806	0.604		ug/m3	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Cyclohexane	ND	0.525		ug/m3	1	9/17/2007
Dibromochloromethane	ND	1.30		ug/m3	1	9/17/2007
Ethyl acetate	ND	0.916		ug/m3	1	9/17/2007
Ethylbenzene	2.12	0.662		ug/m3	1	9/17/2007
Freon 11	1.88	0.857		ug/m3	1	9/17/2007
Freon 113	0.779	1.17	J	ug/m3	1	9/17/2007
Freon 114	ND	1.07		ug/m3	1	9/17/2007

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-2-091407
Lab Order:	C0709023	**Tag Number:**	413,156
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-002A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	3.47	0.754		ug/m3	1	9/17/2007
Heptane	0.791	0.625		ug/m3	1	9/17/2007
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/17/2007
Hexane	2.22	0.537		ug/m3	1	9/17/2007
Isopropyl alcohol	ND	0.375		ug/m3	1	9/17/2007
m&p-Xylene	3.22	1.32		ug/m3	1	9/17/2007
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl Ethyl Ketone	2.16	0.899		ug/m3	1	9/17/2007
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/17/2007
Methylene chloride	0.847	0.530		ug/m3	1	9/17/2007
o-Xylene	1.19	0.662		ug/m3	1	9/17/2007
Propylene	ND	0.262		ug/m3	1	9/17/2007
Styrene	0.520	0.649	J	ug/m3	1	9/17/2007
Tetrachloroethylene	1.52	1.03		ug/m3	1	9/17/2007
Tetrahydrofuran	ND	0.450		ug/m3	1	9/17/2007
Toluene	5.36	0.575		ug/m3	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Trichloroethene	2.40	0.218		ug/m3	1	9/17/2007
Vinyl acetate	ND	0.537		ug/m3	1	9/17/2007
Vinyl Bromide	ND	0.667		ug/m3	1	9/17/2007
Vinyl chloride	ND	0.104		ug/m3	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-3-091407
Lab Order:	C0709023	**Tag Number:**	158,152
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/17/2007
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/17/2007
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/17/2007
1,2,4-Trimethylbenzene	3.95	0.749		ug/m3	1	9/17/2007
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/17/2007
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/17/2007
1,3,5-Trimethylbenzene	3.15	0.750		ug/m3	1	9/17/2007
1,3-butadiene	ND	0.337		ug/m3	1	9/17/2007
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,4-Dichlorobenzene	1.96	0.917		ug/m3	1	9/17/2007
1,4-Dioxane	ND	1.10		ug/m3	1	9/17/2007
2,2,4-trimethylpentane	1.71	0.712		ug/m3	1	9/17/2007
4-ethyltoluene	0.750	0.750		ug/m3	1	9/17/2007
Acetone	16.1	3.62		ug/m3	5	9/17/2007
Allyl chloride	ND	0.477		ug/m3	1	9/17/2007
Benzene	1.46	0.487		ug/m3	1	9/17/2007
Benzyl chloride	ND	0.877		ug/m3	1	9/17/2007
Bromodichloromethane	ND	1.02		ug/m3	1	9/17/2007
Bromoform	ND	1.58		ug/m3	1	9/17/2007
Bromomethane	ND	0.592		ug/m3	1	9/17/2007
Carbon disulfide	0.317	0.475	J	ug/m3	1	9/17/2007
Carbon tetrachloride	0.767	0.256		ug/m3	1	9/17/2007
Chlorobenzene	ND	0.702		ug/m3	1	9/17/2007
Chloroethane	ND	0.402		ug/m3	1	9/17/2007
Chloroform	ND	0.744		ug/m3	1	9/17/2007
Chloromethane	ND	0.315		ug/m3	1	9/17/2007
cis-1,2-Dichloroethene	0.564	0.604	J	ug/m3	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Cyclohexane	ND	0.525		ug/m3	1	9/17/2007
Dibromochloromethane	ND	1.30		ug/m3	1	9/17/2007
Ethyl acetate	ND	0.916		ug/m3	1	9/17/2007
Ethylbenzene	1.90	0.662		ug/m3	1	9/17/2007
Freon 11	2.00	0.857		ug/m3	1	9/17/2007
Freon 113	ND	1.17		ug/m3	1	9/17/2007
Freon 114	ND	1.07		ug/m3	1	9/17/2007

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-B-3-091407
Lab Order:	C0709023	**Tag Number:**	158,152
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-003A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	3.67	0.754		ug/m3	1	9/17/2007
Heptane	0.875	0.625		ug/m3	1	9/17/2007
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/17/2007
Hexane	2.40	0.537		ug/m3	1	9/17/2007
Isopropyl alcohol	ND	0.375		ug/m3	1	9/17/2007
m&p-Xylene	4.55	1.32		ug/m3	1	9/17/2007
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl Ethyl Ketone	2.25	0.899		ug/m3	1	9/17/2007
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/17/2007
Methylene chloride	0.847	0.530		ug/m3	1	9/17/2007
o-Xylene	1.41	0.662		ug/m3	1	9/17/2007
Propylene	ND	0.262		ug/m3	1	9/17/2007
Styrene	0.520	0.649	J	ug/m3	1	9/17/2007
Tetrachloroethylene	1.45	1.03		ug/m3	1	9/17/2007
Tetrahydrofuran	ND	0.450		ug/m3	1	9/17/2007
Toluene	6.78	0.575		ug/m3	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Trichloroethene	2.18	0.218		ug/m3	1	9/17/2007
Vinyl acetate	ND	0.537		ug/m3	1	9/17/2007
Vinyl Bromide	ND	0.667		ug/m3	1	9/17/2007
Vinyl chloride	ND	0.104		ug/m3	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-1-091407
Lab Order:	C0709023	**Tag Number:**	427,297
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/17/2007
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/17/2007
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/17/2007
1,2,4-Trimethylbenzene	5.35	0.749		ug/m3	1	9/17/2007
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/17/2007
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,2-Dichloroethane	0.617	0.617		ug/m3	1	9/17/2007
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/17/2007
1,3,5-Trimethylbenzene	4.25	0.750		ug/m3	1	9/17/2007
1,3-butadiene	ND	0.337		ug/m3	1	9/17/2007
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,4-Dichlorobenzene	1.35	0.917		ug/m3	1	9/17/2007
1,4-Dioxane	ND	1.10		ug/m3	1	9/17/2007
2,2,4-trimethylpentane	0.712	0.712		ug/m3	1	9/17/2007
4-ethyltoluene	0.650	0.750	J	ug/m3	1	9/17/2007
Acetone	18.8	3.62		ug/m3	5	9/17/2007
Allyl chloride	ND	0.477		ug/m3	1	9/17/2007
Benzene	0.584	0.487		ug/m3	1	9/17/2007
Benzyl chloride	ND	0.877		ug/m3	1	9/17/2007
Bromodichloromethane	ND	1.02		ug/m3	1	9/17/2007
Bromoform	ND	1.58		ug/m3	1	9/17/2007
Bromomethane	ND	0.592		ug/m3	1	9/17/2007
Carbon disulfide	0.380	0.475	J	ug/m3	1	9/17/2007
Carbon tetrachloride	0.640	0.256		ug/m3	1	9/17/2007
Chlorobenzene	ND	0.702		ug/m3	1	9/17/2007
Chloroethane	ND	0.402		ug/m3	1	9/17/2007
Chloroform	ND	0.744		ug/m3	1	9/17/2007
Chloromethane	ND	0.315		ug/m3	1	9/17/2007
cis-1,2-Dichloroethene	0.604	0.604		ug/m3	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Cyclohexane	ND	0.525		ug/m3	1	9/17/2007
Dibromochloromethane	ND	1.30		ug/m3	1	9/17/2007
Ethyl acetate	ND	0.916		ug/m3	1	9/17/2007
Ethylbenzene	1.15	0.662		ug/m3	1	9/17/2007
Freon 11	1.77	0.857		ug/m3	1	9/17/2007
Freon 113	0.857	1.17	J	ug/m3	1	9/17/2007
Freon 114	ND	1.07		ug/m3	1	9/17/2007

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-1-091407
Lab Order:	C0709023	**Tag Number:**	427,297
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-004A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	3.57	0.754		ug/m3	1	9/17/2007
Heptane	ND	0.625		ug/m3	1	9/17/2007
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/17/2007
Hexane	1.58	0.537		ug/m3	1	9/17/2007
Isopropyl alcohol	ND	0.375		ug/m3	1	9/17/2007
m&p-Xylene	2.25	1.32		ug/m3	1	9/17/2007
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl Ethyl Ketone	ND	0.899		ug/m3	1	9/17/2007
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/17/2007
Methylene chloride	1.91	0.530		ug/m3	1	9/17/2007
o-Xylene	0.971	0.662		ug/m3	1	9/17/2007
Propylene	ND	0.262		ug/m3	1	9/17/2007
Styrene	0.909	0.649		ug/m3	1	9/17/2007
Tetrachloroethylene	ND	1.03		ug/m3	1	9/17/2007
Tetrahydrofuran	ND	0.450		ug/m3	1	9/17/2007
Toluene	3.79	0.575		ug/m3	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Trichloroethene	1.58	0.218		ug/m3	1	9/17/2007
Vinyl acetate	ND	0.537		ug/m3	1	9/17/2007
Vinyl Bromide	ND	0.667		ug/m3	1	9/17/2007
Vinyl chloride	ND	0.104		ug/m3	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-2-091407
Lab Order:	C0709023	**Tag Number:**	336,121
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-005A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/17/2007
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/17/2007
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/17/2007
1,2,4-Trimethylbenzene	2.30	0.749		ug/m3	1	9/17/2007
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/17/2007
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/17/2007
1,3,5-Trimethylbenzene	ND	0.750		ug/m3	1	9/17/2007
1,3-butadiene	ND	0.337		ug/m3	1	9/17/2007
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,4-Dichlorobenzene	1.04	0.917		ug/m3	1	9/17/2007
1,4-Dioxane	ND	1.10		ug/m3	1	9/17/2007
2,2,4-trimethylpentane	ND	0.712		ug/m3	1	9/17/2007
4-ethyltoluene	ND	0.750		ug/m3	1	9/17/2007
Acetone	17.3	3.62		ug/m3	5	9/17/2007
Allyl chloride	ND	0.477		ug/m3	1	9/17/2007
Benzene	0.390	0.487	J	ug/m3	1	9/17/2007
Benzyl chloride	ND	0.877		ug/m3	1	9/17/2007
Bromodichloromethane	ND	1.02		ug/m3	1	9/17/2007
Bromoform	ND	1.58		ug/m3	1	9/17/2007
Bromomethane	ND	0.592		ug/m3	1	9/17/2007
Carbon disulfide	0.411	0.475	J	ug/m3	1	9/17/2007
Carbon tetrachloride	0.703	0.256		ug/m3	1	9/17/2007
Chlorobenzene	ND	0.702		ug/m3	1	9/17/2007
Chloroethane	ND	0.402		ug/m3	1	9/17/2007
Chloroform	ND	0.744		ug/m3	1	9/17/2007
Chloromethane	ND	0.315		ug/m3	1	9/17/2007
cis-1,2-Dichloroethene	0.564	0.604	J	ug/m3	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Cyclohexane	ND	0.525		ug/m3	1	9/17/2007
Dibromochloromethane	ND	1.30		ug/m3	1	9/17/2007
Ethyl acetate	ND	0.916		ug/m3	1	9/17/2007
Ethylbenzene	0.927	0.662		ug/m3	1	9/17/2007
Freon 11	2.00	0.857		ug/m3	1	9/17/2007
Freon 113	0.857	1.17	J	ug/m3	1	9/17/2007
Freon 114	ND	1.07		ug/m3	1	9/17/2007

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-2-091407
Lab Order:	C0709023	**Tag Number:**	336,121
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-005A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	3.72	0.754		ug/m3	1	9/17/2007
Heptane	ND	0.625		ug/m3	1	9/17/2007
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/17/2007
Hexane	ND	0.537		ug/m3	1	9/17/2007
Isopropyl alcohol	ND	0.375		ug/m3	1	9/17/2007
m&p-Xylene	1.68	1.32		ug/m3	1	9/17/2007
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl Ethyl Ketone	ND	0.899		ug/m3	1	9/17/2007
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/17/2007
Methylene chloride	0.671	0.530		ug/m3	1	9/17/2007
o-Xylene	0.662	0.662		ug/m3	1	9/17/2007
Propylene	ND	0.262		ug/m3	1	9/17/2007
Styrene	0.736	0.649		ug/m3	1	9/17/2007
Tetrachloroethylene	ND	1.03		ug/m3	1	9/17/2007
Tetrahydrofuran	ND	0.450		ug/m3	1	9/17/2007
Toluene	2.95	0.575		ug/m3	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Trichloroethene	3.71	0.218		ug/m3	1	9/17/2007
Vinyl acetate	ND	0.537		ug/m3	1	9/17/2007
Vinyl Bromide	ND	0.667		ug/m3	1	9/17/2007
Vinyl chloride	ND	0.104		ug/m3	1	9/17/2007

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-3-091407
Lab Order:	C0709023	**Tag Number:**	87,449
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-006A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/17/2007
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/17/2007
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/17/2007
1,2,4-Trimethylbenzene	3.75	0.749		ug/m3	1	9/17/2007
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/17/2007
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/17/2007
1,3,5-Trimethylbenzene	2.25	0.750		ug/m3	1	9/17/2007
1,3-butadiene	ND	0.337		ug/m3	1	9/17/2007
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,4-Dichlorobenzene	1.77	0.917		ug/m3	1	9/17/2007
1,4-Dioxane	ND	1.10		ug/m3	1	9/17/2007
2,2,4-trimethylpentane	0.997	0.712		ug/m3	1	9/17/2007
4-ethyltoluene	0.600	0.750	J	ug/m3	1	9/17/2007
Acetone	30.7	7.24		ug/m3	10	9/17/2007
Allyl chloride	ND	0.477		ug/m3	1	9/17/2007
Benzene	1.95	0.487		ug/m3	1	9/17/2007
Benzyl chloride	ND	0.877		ug/m3	1	9/17/2007
Bromodichloromethane	ND	1.02		ug/m3	1	9/17/2007
Bromoform	ND	1.58		ug/m3	1	9/17/2007
Bromomethane	ND	0.592		ug/m3	1	9/17/2007
Carbon disulfide	0.443	0.475	J	ug/m3	1	9/17/2007
Carbon tetrachloride	0.640	0.256		ug/m3	1	9/17/2007
Chlorobenzene	ND	0.702		ug/m3	1	9/17/2007
Chloroethane	ND	0.402		ug/m3	1	9/17/2007
Chloroform	ND	0.744		ug/m3	1	9/17/2007
Chloromethane	ND	0.315		ug/m3	1	9/17/2007
cis-1,2-Dichloroethene	0.806	0.604		ug/m3	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Cyclohexane	ND	0.525		ug/m3	1	9/17/2007
Dibromochloromethane	ND	1.30		ug/m3	1	9/17/2007
Ethyl acetate	ND	0.916		ug/m3	1	9/17/2007
Ethylbenzene	4.02	0.662		ug/m3	1	9/17/2007
Freon 11	2.17	0.857		ug/m3	1	9/17/2007
Freon 113	0.857	1.17	J	ug/m3	1	9/17/2007
Freon 114	ND	1.07		ug/m3	1	9/17/2007

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- JN Non-routine analyte. Quantitation estimated.
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	IA-FF-3-091407
Lab Order:	C0709023	**Tag Number:**	87,449
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-006A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	3.82	0.754		ug/m3	1	9/17/2007
Heptane	1.46	0.625		ug/m3	1	9/17/2007
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/17/2007
Hexane	2.97	0.537		ug/m3	1	9/17/2007
Isopropyl alcohol	ND	0.375		ug/m3	1	9/17/2007
m&p-Xylene	3.13	1.32		ug/m3	1	9/17/2007
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl Ethyl Ketone	4.62	0.899		ug/m3	1	9/17/2007
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/17/2007
Methylene chloride	1.66	0.530		ug/m3	1	9/17/2007
o-Xylene	1.19	0.662		ug/m3	1	9/17/2007
Propylene	ND	0.262		ug/m3	1	9/17/2007
Styrene	0.909	0.649		ug/m3	1	9/17/2007
Tetrachloroethylene	2.28	1.03		ug/m3	1	9/17/2007
Tetrahydrofuran	ND	0.450		ug/m3	1	9/17/2007
Toluene	8.24	0.575		ug/m3	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Trichloroethene	2.73	0.218		ug/m3	1	9/17/2007
Vinyl acetate	ND	0.537		ug/m3	1	9/17/2007
Vinyl Bromide	ND	0.667		ug/m3	1	9/17/2007
Vinyl chloride	ND	0.104		ug/m3	1	9/17/2007

Qualifiers:

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JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	AMB-1-091407
Lab Order:	C0709023	**Tag Number:**	474,302
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-007A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1,2,2-Tetrachloroethane	ND	1.05		ug/m3	1	9/17/2007
1,1,2-Trichloroethane	ND	0.832		ug/m3	1	9/17/2007
1,1-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,1-Dichloroethene	ND	0.605		ug/m3	1	9/17/2007
1,2,4-Trichlorobenzene	ND	1.13		ug/m3	1	9/17/2007
1,2,4-Trimethylbenzene	7.24	0.749		ug/m3	1	9/17/2007
1,2-Dibromoethane	ND	1.17		ug/m3	1	9/17/2007
1,2-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,2-Dichloroethane	ND	0.617		ug/m3	1	9/17/2007
1,2-Dichloropropane	ND	0.705		ug/m3	1	9/17/2007
1,3,5-Trimethylbenzene	3.40	0.750		ug/m3	1	9/17/2007
1,3-butadiene	ND	0.337		ug/m3	1	9/17/2007
1,3-Dichlorobenzene	ND	0.917		ug/m3	1	9/17/2007
1,4-Dichlorobenzene	2.75	0.917		ug/m3	1	9/17/2007
1,4-Dioxane	ND	1.10		ug/m3	1	9/17/2007
2,2,4-trimethylpentane	0.475	0.712	J	ug/m3	1	9/17/2007
4-ethyltoluene	0.849	0.750		ug/m3	1	9/17/2007
Acetone	18.7	3.62		ug/m3	5	9/17/2007
Allyl chloride	ND	0.477		ug/m3	1	9/17/2007
Benzene	0.714	0.487		ug/m3	1	9/17/2007
Benzyl chloride	ND	0.877		ug/m3	1	9/17/2007
Bromodichloromethane	ND	1.02		ug/m3	1	9/17/2007
Bromoform	ND	1.58		ug/m3	1	9/17/2007
Bromomethane	ND	0.592		ug/m3	1	9/17/2007
Carbon disulfide	2.82	0.475		ug/m3	1	9/17/2007
Carbon tetrachloride	ND	0.256		ug/m3	1	9/17/2007
Chlorobenzene	ND	0.702		ug/m3	1	9/17/2007
Chloroethane	ND	0.402		ug/m3	1	9/17/2007
Chloroform	ND	0.744		ug/m3	1	9/17/2007
Chloromethane	ND	0.315		ug/m3	1	9/17/2007
cis-1,2-Dichloroethene	1.01	0.604		ug/m3	1	9/17/2007
cis-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Cyclohexane	ND	0.525		ug/m3	1	9/17/2007
Dibromochloromethane	ND	1.30		ug/m3	1	9/17/2007
Ethyl acetate	ND	0.916		ug/m3	1	9/17/2007
Ethylbenzene	1.19	0.662		ug/m3	1	9/17/2007
Freon 11	1.77	0.857		ug/m3	1	9/17/2007
Freon 113	0.779	1.17	J	ug/m3	1	9/17/2007
Freon 114	ND	1.07		ug/m3	1	9/17/2007

Qualifiers:

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- ND Not Detected at the Reporting Limit
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Centek Laboratories, LLC

Date: *19-Sep-07*

CLIENT:	O'Brien and Gere	**Client Sample ID:**	AMB-1-091407
Lab Order:	C0709023	**Tag Number:**	474,302
Project:	WT Clark HS New Cassel VI	**Collection Date:**	9/14/2007
Lab ID:	C0709023-007A	**Matrix:**	AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	3.62	0.754		ug/m3	1	9/17/2007
Heptane	0.500	0.625	J	ug/m3	1	9/17/2007
Hexachloro-1,3-butadiene	ND	1.63		ug/m3	1	9/17/2007
Hexane	ND	0.537		ug/m3	1	9/17/2007
Isopropyl alcohol	ND	0.375		ug/m3	1	9/17/2007
m&p-Xylene	2.65	1.32		ug/m3	1	9/17/2007
Methyl Butyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl Ethyl Ketone	2.58	0.899		ug/m3	1	9/17/2007
Methyl Isobutyl Ketone	ND	1.25		ug/m3	1	9/17/2007
Methyl tert-butyl ether	ND	0.550		ug/m3	1	9/17/2007
Methylene chloride	1.27	0.530		ug/m3	1	9/17/2007
o-Xylene	1.02	0.662		ug/m3	1	9/17/2007
Propylene	ND	0.262		ug/m3	1	9/17/2007
Styrene	0.866	0.649		ug/m3	1	9/17/2007
Tetrachloroethylene	ND	1.03		ug/m3	1	9/17/2007
Tetrahydrofuran	ND	0.450		ug/m3	1	9/17/2007
Toluene	2.76	0.575		ug/m3	1	9/17/2007
trans-1,2-Dichloroethene	ND	0.604		ug/m3	1	9/17/2007
trans-1,3-Dichloropropene	ND	0.692		ug/m3	1	9/17/2007
Trichloroethene	3.17	0.218		ug/m3	1	9/17/2007
Vinyl acetate	ND	0.537		ug/m3	1	9/17/2007
Vinyl Bromide	ND	0.667		ug/m3	1	9/17/2007
Vinyl chloride	ND	0.104		ug/m3	1	9/17/2007

Qualifiers:

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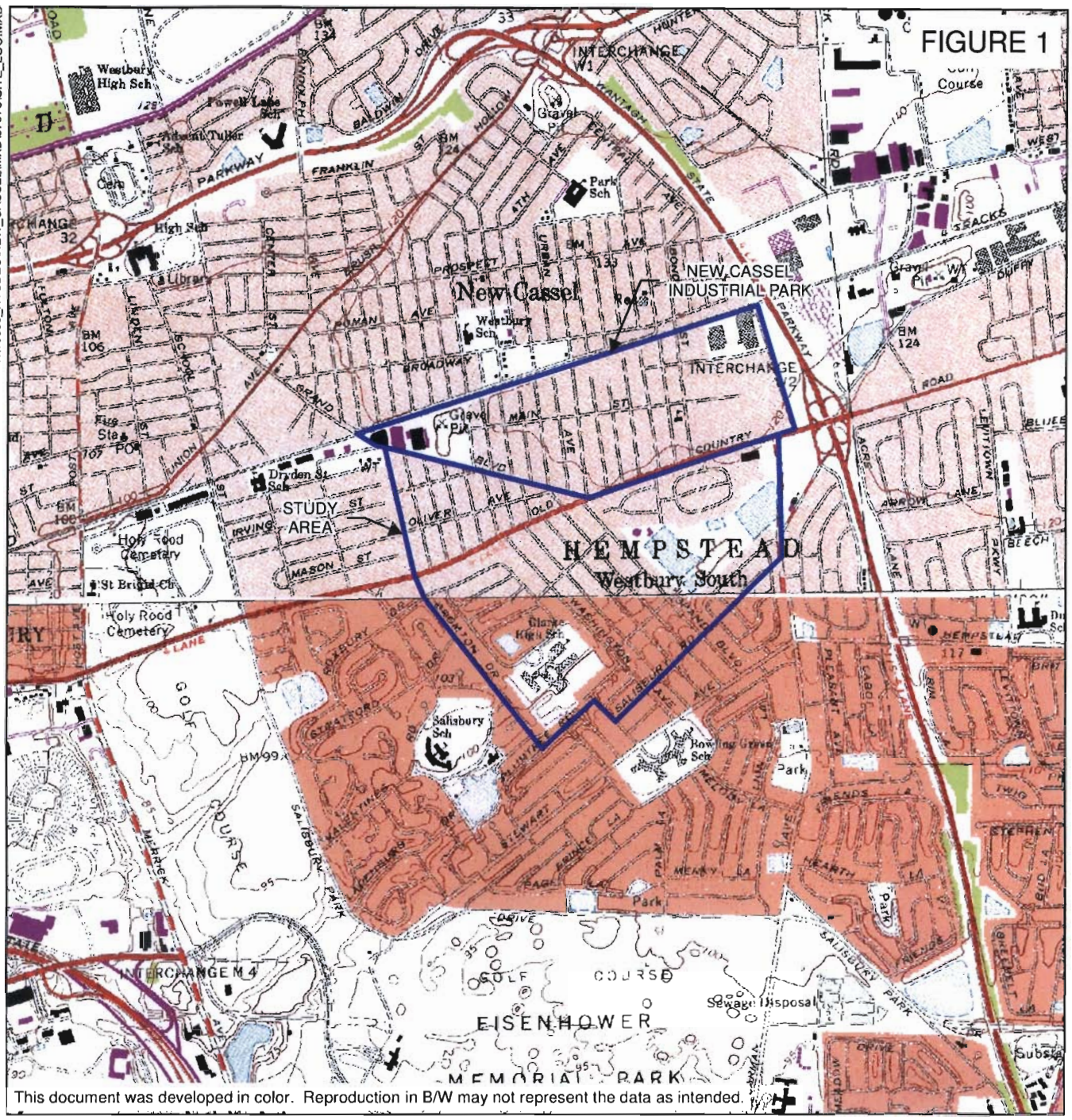
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Sample Location Figures

T:\10653_NYSDEC\NEW_CASSEL\MXD\37976\SITE_LOC.MXD



PLOT DATE: 01/11/06 DIV. 732 JPS

ADAPTED FROM: FREEPORT AND HICKSVILLE, NY USGS QUADRANGLES.

QUADRANGLE LOCATION

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW CASSEL STUDY AREA
TOWNS OF HEMPSTEAD AND NORTH
HEMPSTEAD, NEW YORK
NASSAU COUNTY

SITE LOCATION

0 1,000 2,000 4,000 6,000 8,000

Feet

10653.37976
JANUARY 2006

1:24,000

O'BRIEN & GERE

PLOT DATE: 11/8/07 DIV 71 LSR

I:\DIV71\Projects\10653\37976\dwg\nc_ sample locations.mxd

FIGURE 2

LEGEND

- SOIL VAPOR POINT
- MONITORING WELL
- BASEMENT AND FIRST FLOOR AIR SAMPLING W.T. CLARKE HS
- STUDY AREA

(D) - Indicates diluted sample
(ND) - Not detected

NEW CASSEL OU-4
VAPOR INTRUSION STUDY
NEW CASSEL, NEW YORK

SAMPLE LOCATION PLAN AND SOIL VAPOR RESULTS Benzene, Tetrachloroethene, and Tichloroethene

0 125 250 500
Feet

NOVEMBER 2007
10653.37976

O'BRIEN & GERE

T:\10653_NYSDEC\NEW_CASSEL\MXD\37976\VOC_ISOPLETHS.MXD

FIGURE 3

LEGEND

VOC ISOPLETHS

NOTES:
Final soil vapor locations will be selected after access agreements are obtained and an on-site visit is conducted

NEW CASSEL
STUDY AREA OU-4
TOWNS OF HEMPSTEAD
AND NORTH HEMPSTEAD,
NEW YORK

(after Figure 3, Record of Decision
New Cassel Industrial Area Sites
October 2000)

VOC ISOPLETHS (ug/L)
65 TO 200 ft bgs

0 500 1,000 2,000
Feet

DECEMBER 2005
10653.37976

O'BRIEN & GERE

PLOT DATE: 12/14/05 DIV. 84 JPS

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T:\10653_NYSDEC\NEW_CASSEL\MXD\37976VOC_ISOPLETHS_2.MXD

FIGURE 4

LEGEND

VOC ISOPLETHS

NOTES:
Final soil vapor locations will be selected after access agreements are obtained and an on-site visit is conducted

NEW CASSEL
STUDY AREA OU-4
TOWNS OF HEMPSTEAD
AND NORTH HEMPSTEAD,
NEW YORK

(after Figure 3, Record of Decision
New Cassel Industrial Area Sites
October 2000)

VOC ISOPLETHS (ug/L)
0 TO 64 ft bgs

0 500 1,000 2,000
Feet

DECEMBER 2005
10653.37976

O'BRIEN & GERE

PLOT DATE: 12/14/05 DIV. 71 JSB

This document was developed in color. Reproduction in B/W may not represent the data as intended.

ATTACHMENT A

Phase 1
Daily Field Reports/Sample Locations

YEC, Inc.

DAILY FIELD REPORT

DATE: 9/15/06 WEATHER: Raining 66°

PROJECT NAME: New Cassel Operable Unit 4 Vapor Intrusion Investigation

CLIENT: O'Brien & Gere

PROJECT MANAGER: Jeff Banikowski

PERSONNEL: Dan Simpson (YEC), Ed Rahn (OBG), Ernesto/Tony (LAWES)

Time	Field Activities
0800	Dan/Ernesto/Tony on site. Set up on VP-1 (25) to the south of redone VP-1 (8), Location redrilled due to miscommunication about when it was sampled, and the tubing had been pulled.
0845	Set the screen at 25' and backfilled with 2' of sand and 10' of bentonite.
0920	Set up and began drilling at VP-27 (40). Location moved off the corner due to sewer and gas lines.
1000	Installed the screen at 40' and backfilled with sand and bentonite. Set up and drilled VP-27 (8) to the south of VP-27 (40).
1012	Set the screen at 8' and backfilled with 2' of sand and bentonite to grade.
1015	Hydrated the bentonite and installed temporary caps.
1030	Set up on VP-17 (40). Had to get the water lines remarked out due to the rain.
1040	Westbury water rep. on site to mark water main location.
1145	Hand cleared the first 6' with a hand auger and began drilling
1208	At 40' the screen was set and the hole was backfilled with 3' of sand and 10' of bentonite.
1210	Set up on VP-17 (8) to the north of VP-17 (40) and began advancement.
1215	At 8' the screen was set and the hole was backfilled with 2' of sand and bentonite to grade.
1240	All personnel offsite.

YEC, Inc.

DAILY FIELD REPORT

DATE: 8/28/06 WEATHER: Raining 66°

PROJECT NAME: New Cassel Operable Unit 4 Vapor Intrusion Investigation

CLIENT: O'Brien & Gere

PROJECT MANAGER: Jeff Banikowski

PERSONNEL: Dan Simpson (YEC), Ernesto/Rupert (LAWES), Ed Rahn (OBG

Time	Field Activities
0800	Dan on site, checked to see what utility mark outs had been done.
0840	LAWES drillers arrive on site
0900	Set up to drill at VP-24 (8)at Clark H.S.
0910	Drilled to 8', extracted rods 6"installed the vapor screen attached to Teflon tubing. Added 2' of sand pack and extracted the rest of the rods. Added bentonite to grade.
0933	Set up on VP-24 (25) to the South of the 8' well, drilled to 25'.
943	Backfilled with 2' of sand after the screen was inserted down hole and set at 25'. Added 6' of bentonite.
0950	Set up and stared to drill VP-24 (50) as the south most boring at this location.
1015	Rods disconnected down hole, had to be retrieved.
1030	Well screen was damaged, boring will be redrilled 2' away.
1105	Saturation found @35-40'. Called Jeff to see if the 3rd well could be cut out of scope (approved, but will make the intermediate depth 6-10' away from saturation).
1200	Lunch. Only 2 depths were set for VP-24 (8, 25), all other holes were backfilled with bentonite and sand.
1300	Set up on VP-25 (in front of Clark H. S.)and drilled to 40' to double check groundwater depth (being sure this time that hydrate water was not influencing judgment).
1324	Confirmed saturation/ hole collapse at @ 37'. Set screen at 27' after verifying with a weighted tape. Backfilled the open hole with 2' of sand and 10' of bentonite. Drilled to 8 feet and set VP-25 (8) to the South of VP-25 (27).
1400	Ed Rahn on site to begin sampling completed vapor points.
1425	Set up on the football field for VP-23 (24). Drilled to 30',due to large topography change to check the groundwater depth.
1438	Saturated @29'. Set the screen at 24', and added 2' of sand overlane by 10' of bentonite.
1450	Drilled to 8' and set the screen of VP-23 (8) 2 ft to the South of VP-23 (24). Backfilled boring with 2' of sand around the screen and bentonite to grade.
1505	Set up on VP-22 (23) and drilled to 23'.
1520	While backfilling VP-22 (23) with sand and bentonite, drilled to 8' and set the screen for VP-22 (8) 3' to the South.
1530	Site clean up
1600	Dan, Ernesto/Rupert offsite.

YEC, Inc.

DAILY FIELD REPORT

DATE: 8/29/06 WEATHER: Raining 64°

PROJECT NAME: New Cassel Operable Unit 4 Vapor Intrusion Investigation

CLIENT: O'Brien & Gere

PROJECT MANAGER: Jeff Banikowski

PERSONNEL: Dan Simpson (YEC), Ed Rahn (OBG), Ernesto/ Rupert (LAWES)

Time	Field Activities
0745	Dan/Ernesto/Rupert on site
0810	Set up on VP-21(23), and began drilling
0815	Installed screen at 23' and backfilled with 2' of sand, then bentonite to grade.
0827	Set up on VP-21(8), and began drilling to the south of VP-21(23).
0835	Backfilled VP-21(8) with 3' sand and bentonite to grade
0909	Moved to the B.G. well field and set up on VP-8. Drilled to 50' to check depth to water table.
0945	Wet at 38', set the screen for VP-8 at (25')
0959	Verified a depth of 25' using a weighted tape. Then backfilled around the screen with 3' of sand, then 10' of bentonite .
1015	Set up and began drilling VP-8(8) to the south of VP-8(25). Called Jeff to update him on work completed. Remaining drilling locations will include 2 depths instead of 3 due to shallow groundwater depths.
1030	Backfilled VP-8(8) with 3' of sand and bentonite to grade.
1040	Set up and began drilling VP-10(30), set the screen at 30' after extention rods came up wet at 33'.
1120	Backfilled VP-10(30) with 3' sand and 7' of bentonite.
1129	Began drilling VP-10(8) to the south of (30), set the screen at 8' and backfilled with 3' of sand and bentonite to grade
1200	Lunch
1245	Back from lunch, due to a driller back injury no more drilling will take place today.
1300	Pulled the tubing from VP-24(8), and VP-24(24) and backfilled with bentonite to grade.
1319	Pulled the tubing from VP-25(8), and VP-25(27) and backfilled with bentonite to grade.
1329	Pulled the tubing from VP-23(8), and VP-23(23), then backfilled with bentonite to grade.
1335	Pulled the tubing and cut below grade on VP-22(8) and VP-22(23).
1400	Drillers offsite.
1430	Dan offsite.

YEC, Inc.

DAILY FIELD REPORT

DATE: 8/30/06 WEATHER: Raining 65°

PROJECT NAME: New Cassel Operable Unit 4 Vapor Intrusion Investigation

CLIENT: O'Brien & Gere

PROJECT MANAGER: Jeff Banikowski

PERSONNEL: Dan Simpson (YEC), Ernesto/Eric (LAWES), Ed Rahn (OBG)

Time	Field Activities
0740	Dan/Rupert/Eric on site.
0810	Set up on VP-7(23) in the well field and began drilling to 23'.
0846	After verifying depth with a weighted tape, the screen was set at 23' and the hole backfilled with 2' of sand and 10' of bentonite. Began drilling VP-7 (8) to the north of (23). Backfilled with 2' of sand and then bentonite to grade.
0905	Hydrated both holes at VP-7. Began drilling at location VP-1 (25).
0930	After verifying the depth of 25' with a weighted tape, the screen was inserted downhole and backfilled with 2' of sand and 10' of bentonite.
940	Began the advancement of VP-1(8) to the south of VP-1(25).
1000	Set up and began the advancement of VP-3(25). Then verified depth with tape, and backfilled the hole with 2' of sand and 10' of bentonite.
1020	Advanced VP-3 (8) to the south of VP-3 (25). Backfilled with 2' of sand and bentonite to grade.
1040	Began site clean up, and loaded the rig onto the truck.
1100	Moved back over to Clark H.S. to pull the tubing from VP-21, and backfill with sand and bentonite.
1145	LAWES drillers offsite
1230	Dan offsite

YEC, Inc.

DAILY FIELD REPORT

DATE: 9/5/06 WEATHER: Cloudy 70°

PROJECT NAME: New Cassel Operable Unit 4 Vapor Intrusion Investigation

CLIENT: O'Brien & Gere

PROJECT MANAGER: Jeff Banikowski

PERSONNEL: Dan Simpson (YEC), Kevin/Eric (LAWES), Ed Rahn (OBG)

Time	Field Activities
0820	Dan on site, began checking the utility markouts for the residential areas south of Old Country Rd.
0830	Kevin from LAWES called to inform me that the truck had broken down just off site and someone was coming out from the shop with a new truck. Found a monitoring well on Hyacinth: MW-14A DTW 45.28.
1100	Kevin/Eric on site. Set up on VP-5 (35)
1140	Hempstead water authority rep. on site to mark out water utility. Ed Rahn on site. Hand cleared this location to 7'.
1210	After verifying a depth of 35' the screen was inserted down hole and backfilled with 2' of sand and 10' of bentonite. On the extraction 20 ft of rod came apart, when rods were reinserted for retrieval the well tubing was damaged.
1227	VP-5(35) redrilled and the screen was installed. The hole was backfilled with 2' of sand and 10' of bentonite.
1240	Set up and began advancement of VP-5(8) to the west of VP-5(35).
1330	Bentonite was added and hydrated before sand pack was backfilled down hole. Location was redrilled 2' to the west and a new screen was installed at 8'. Hole was backfilled with 2' of sand and bentonite to grade.
1351	Set up and began advancement of VP-4(35).
1410	After verifying the depth of 35' the screen was installed and backfilled with 2' of sand and 10' of bentonite.
1418	Set up and began the advancement of VP-4(8) to the east of VP-4(35). Backfilled with 2' of sand and bentonite to grade.
1441	Set up and began the advancement of VP-6(35), location was moved from the corner due to utility clearances.
1445	After a depth of 35' was verified, the screen was inserted down hole and backfilled with 2' of sand and 10' of bentonite.
1515	Set up and began the advancement of VP-6 (8) to the west of VP-6(35). Backfilled with 2' of sand and bentonite to grade.
1535	Dan/Kevin/Eric offsite.

YEC, Inc.

DAILY FIELD REPORT

DATE: 9/6/06 WEATHER: Cloudy 62°

PROJECT NAME: New Cassel Operable Unit 4 Vapor Intrusion Investigation

CLIENT: O'Brien & Gere

PROJECT MANAGER: Jeff Banikowski

PERSONNEL: Dan Simpson (YEC), Kevin/Eric (LAWES), Ed Rahn (OBG)

Time	Field Activities
0730	Dan on site
0811	Kevin/Eric on site, set up on site.
0830	Set up on VP-26 (30) and began advancement to 30'
0840	Hempstead Water Authority Rep on site to mark out water utilities for the rest of the locations south of Old Country Rd.
0900	Ed Rahn informs me that VP-1 was under vacuum pressure and will have to be redrilled (Jeff B. made the decision).
915	Verified a depth of 30' and inserted the screen, backfilled with 2' of sand and 10' of bentonite.
0920	Set up on VP-26 (8) to the west of VP-26 (30) and began advancement. Backfilled with 2' of sand and bentonite to grade.
1000	Set up on VP-19 where water utility markouts were missed. Recalled Hempstead Water Authority to come out.
1100	Hempstead Water Authority Rep. on site. Began advancement of VP-19 (30).
1130	After verifying depth of 30' the screen was installed and backfilled with 2' of sand and 10' of bentonite. Started the advancement of VP-19 (8) to the south of VP-19 (30).
1139	VP-19 (8) backfilled with 2' of sand and bentonite to grade. Set up on VP-20 (30)
1205	After a depth of 30' was verified, the screen was installed and backfilled with 2' of sand and 10' of bentonite.
1212	Set up on VP-20 (8) to the south of VP-20 (30). Installed screen at 8' and backfilled with 2' of sand and bentonite to grade.
1300	Loaded the rig onto the truck and took lunch. Ed informs me that sample canister supply cannot keep up with this pace. Conference call with Jeff and Ed, it was determined that we should start using temporary caps to make the wells more secure until they can be sampled.
1400	Back from lunch, set up on VP-18 (35). Minor delay in the mobilization of the rig when the tracks wouldn't move (35mins.)
1440	Began advancement to 35'. After the depth was verified, the screen was installed and backfilled with 2' of sand and 10' of bentonite.
1500	Dan offsite. VP-18 (8) was advanced to the south of VP-18 (35). Then 2' of sand and bentonite was added to grade (Ed Rahn took over drilling oversight).
1545	Set up on VP-15 (35) and began advancement. Then advanced VP-15 (8) to the south of (35).
1700	All personnel offsite.

YEC, Inc.

DAILY FIELD REPORT

DATE: 9/7/06 WEATHER: Sunny 75°

PROJECT NAME: New Cassel Operable Unit 4 Vapor Intrusion Investigation

CLIENT: O'Brien & Gere

PROJECT MANAGER: Jeff Banikowski

PERSONNEL: Dan Simpson (YEC), Kevin/Rupert (LAWES), Ed Rahn (OBG

Time	Field Activities
0740	Dan on site.
0800	Kevin/Rupert on site, set up on VP-14 (25).
0900	Installed screen at 25' backfilled with sand and bentonite. Residence owner at 942 Mirrabelle had questions/concerns; She was given Joe Jones (NYSDEC) office number. Rods wet at 31'.
0923	Set up and began drilling on VP-14 (8) to the north of VP-14 (25). Inserted screen at 8', backfilled with sand and bentonite to grade.
0935	Installed a temporary PVC cap to protect well.
945	Set up on VP-13 (21) and began advancement. Verified depth with a weighted tape, installed the screen/tubing, then backfilled with sand and bentonite.
1006	Set up and began VP-13 (8) to the north of VP-13 (21).
1030	Set up and started advancing VP-12 (25).
1111	Set the screen at 25', and backfilled with 2' of sand and 10' of bentonite.
1115	Set up and began VP-12 (8) to the north of VP-12 (25).
1126	Mobilized to Rose St., set up on VP-16 (35).
1200	Lunch
1230	Began advancement to 35'
1257	Ed Rahn offsite to purchase additional well caps. Set the screen for VP-16 (35), then backfilled with sand and bentonite.
1304	Started VP-16 (8) to the east of VP-16 (35).
1321	Set up and began drilling at VP-11 (35).
1336	Ed returns with more temporary well caps. Screen is set at 25' and the hole is backfilled with sand and bentonite.
1348	Set up and began advancement on VP-11 (8) to the west of VP-11(35).
1422	Set up on VP-9(30) and began drilling. At 30' the screen was set and the hole was backfilled.
1450	Set up and began advancement at VP-9 (8) to the northeast of VP-9(30). At 8' the screen was set and the hole was backfilled.
1530	All personnel offsite.

YEC, Inc.

DAILY FIELD REPORT

DATE: 9/12/06 WEATHER: Sunny 68°

PROJECT NAME: New Cassel Operable Unit 4 Vapor Intrusion Investigation

CLIENT: O'Brien & Gere

PROJECT MANAGER: Jeff Banikowski

PERSONNEL: Dan Simpson (YEC), Ed Rahn (OBG), Ernesto/Rupert (LAWES)

Time	Field Activities
0800	Dan/Ed on site
0840	Set up on VP-2(35), and began drilling
0925	Installed screen at 35' and backfilled with 2' of sand, then bentonite.
0930	Set up on VP-2(8), and began drilling to the west of VP-2(35).
1030	Set up on VP-30 (30). Had to move away from the corner due to sewer main.
1055	Set the screen at 30' then backfilled VP-30(30) with 3' sand and bentonite. Set up on VP- 30 (8) to the east of VP-30 (30).
1135	Mobilized to Arlington, drillers offsite for lunch.
1245	Set up on VP-37 (35) on Anna Ave. and began advancement to 35'.
1310	Verified a depth of 35' using a weighted tape. On rod extraction the well was damaged and had to be redrilled and reset.
1420	Upon rod extraction the 2nd time, well tubing was cut too short and could not be recovered, location had to be redrilled and reset.
1500	Backfilled VP-37(35) with 3' of sand and 10' bentonite.
1505	Set up and began drilling VP-37(8) to the west of VP-37 (35), set the screen at 8'.
1535	Installed temporary well caps after hydrating the bentonite.
1600	Drillers offsite.
1605	Dan offsite.

YEC, Inc.

DAILY FIELD REPORT

DATE: 9/13/06 WEATHER: Cloudy 64°

PROJECT NAME: New Cassel Operable Unit 4 Vapor Intrusion Investigation

CLIENT: O'Brien & Gere

PROJECT MANAGER: Jeff Banikowski

PERSONNEL: Dan Simpson (YEC), Ed Rahn (OBG), Ernesto/Tony (LAWES)

Time	Field Activities
0730	Dan on site
0800	Ernesto/Tony on site
0830	Set up on VP-1(8), and began drilling
0840	Installed screen at 8' and backfilled with 2' of sand, then bentonite to grade.
0925	Set up on VP-38(40), and began drilling.
1000	Backfilled VP-38(40) with 3' sand and 10' bentonite after verifing depth with a weighted tape.
1010	Set up on VP-38(8) to the southeast of VP-38 (40) and began advancement.
1017	Mobilized to VP-33 (40) after adding 2' of sand and bentonite to grade at VP-38 (8).
1040	Began drilling at VP-33 (40) to 50' to check for groundwater. Location was moved across the street due to a gas line conflict.
1100	Rods wet at around 49', verified a depth of 40' and set the screen.
1125	Backfilled VP-33(40) with 3' of sand and 10' bentonite.
1133	Set up and began drilling VP-33(8) to the south of VP-33 (40), set the screen at 8'.
1155	Set up on VP-34 (40) and began advancement.
1200	Dan notified LAWES office personnel that the utility markouts are nearing there 15 day expiration, They will be redone.
1220	Rods got stuck in the ground at 40' (later found that the point had broken and the rods filled with sand).
1235	Rod extraction slow but moving.
1300	Began clearing sand from the rods.
1313	Redrilled to 40' at this location.
1340	After verifying a depth of 40' the screen for VP-34(40) was set, and the hole was backfilled with sand and bentonite.
1410	Set up on VP-34 (8) to the north of VP-34 (40) and began drilling to 8'.
1425	Packed up the truck in preparation for mobilization, drillers went on lunch.
1500	Dan offsite. Left Ed Rahn to over see drilling operations.
1530	Set up on VP-36 (32). Had refusal at 32'. Set the screen and backfilled with sand and bentonite. Then installed the temporary well caps.
1618	Began drilling at VP-36 (8) to the north of VP-36 (32). Backfilled with 2' of sand and bentonite to grade.
1630	All personnel offsite.

YEC, Inc.

DAILY FIELD REPORT

DATE: 9/14/06 WEATHER: Raining 60°

PROJECT NAME: New Cassel Operable Unit 4 Vapor Intrusion Investigation

CLIENT: O'Brien & Gere

PROJECT MANAGER: Jeff Banikowski

PERSONNEL: Dan Simpson (YEC), Ed Rahn (OBG), Ernesto/Tony (LAWES)

Time	Field Activities
0800	Dan/Ernesto/Tony on site. Set up on VP-35 (8), after getting refusal at 12' the screen was set at 8' and then the hole was backfilled with 2' of sand and bentonite to grade.
0900	Set up on VP-35(40), and began drilling to the north of VP-35 (8). At 40' the screen was set and the hole was backfilled with sand and bentonite.
0930	Set up and began drilling at VP-32 (40), moved location across the street due to overhead power lines.
0945	Installed the screen at 40' and backfilled with sand and bentonite.
0950	Set up and drilled VP-32 (8) to the south of VP-32 (40).
1030	Set up on VP-31(40) and began advancement. At 40' the screen was installed and the hole was backfilled with sand and bentonite. Then the bentonite was hydrated.
1100	Set up on VP-31 (8) to the south of VP-31 (40). At 8' the screen was set and then backfilled with 2' of sand and bentonite to grade.
1120	Began drilling at VP-29 (35). At 35' the screen was installed and the hole was backfilled with sand and bentonite. Then the bentonite was hydrated.
1150	Upon extraction the lead rod was not recovered.
1200	Set up and began drilling at VP-29 (8) to the south of VP-29 (35), drilled with a macro core set up since we were out of lead rods.
1205	VP-29 (8) was backfilled with sand and bentonite.
1230	Lunch
1400	LAWES van on site to drop off additional lead rods and supplies.
1410	Set up on VP-28 (40). Ed offsite.
1440	At 40' the screen was set and the hole was backfilled with 3' of sand and 10' of bentonite.
1445	Set up and drilled VP-28 (8) to the south of VP-28 (40). Then the hole was backfilled, and site clean up began.
1550	All personnel offsite.

Phase 2
Sampling Locations and GPS Coordinates

LIST OF NEW CASSEL SAMPLE LOCATIONS

Sample Locations	DEPTH - 8'	DEPTH </ = 23'
28-Aug		
SV 24	X	X
29-Aug		
SV 21	X	X
SV 22	X	X
SV 22 - FIELD DUP 1	X	
SV 23	X	X
SV 25	X	X
30-Aug		
SV 8	X	X
SV 10	X	X
5-Sep		
SV 3	X	X
6-Sep		
SV 4	X	X
SV 5	X	X
SV 6	X	X
SV 26	X	X
SV 26 - FIELD DUP 2	X	
7-Sep		
SV 19	X	X
SV 20	X	X
12-Sep		
SV 12	X	X
SV 13	X	X
SV 14	X	X
SV 15	X	X
SV 18	X	X
SV 18 - FIELD DUP 3		X
13-Sep		
SV 9	X	X
SV 11	X	X
SV 16	X	X
SV 2	X	X
14-Sep		
SV 34	X	X
SV 36	X	X
SV 37	X	X
SV 38	X	X
19-Sep		
SV 31	X	X
SV 32	X	X
SV 33	X	X
20-Sep		
SV 28	X	X
SV 29	X	X
SV 35	X	X
SV 17	X	X
SV 27	X	X
SV 27 - FIELD DUP (4)	X	
22-Sep		
SV 1	X	X
SV 7	X	X
SV 30	X	X

New Cassel OU-4
Sample Point Coordinates

Station	Depth Ft BGS	Type	North Coordinate	East Coordinate
VP-1	8	SOIL VAPOR POINT	214403	1107946
VP-1	25	SOIL VAPOR POINT-D	214399	1107948
VP-2	8	SOIL VAPOR POINT	213557	1107830
VP-2	35	SOIL VAPOR POINT-D	213560	1107831
VP-3	8	SOIL VAPOR POINT	214134	1107593
VP-3	25	SOIL VAPOR POINT-D	214137	1107594
VP-4	8	SOIL VAPOR POINT	214149	1107410
VP-4	35	SOIL VAPOR POINT-D	214147	1107407
VP-5	8	SOIL VAPOR POINT	214380	1107339
VP-5	35	SOIL VAPOR POINT-D	214383	1107341
VP-6	8	SOIL VAPOR POINT	214211	1106750
VP-6	35	SOIL VAPOR POINT-D	214210	1106751
VP-7	8	SOIL VAPOR POINT	213321	1107009
VP-7	23	SOIL VAPOR POINT-D	213316	1107010
VP-8	8	SOIL VAPOR POINT	213823	1106356
VP-8	25	SOIL VAPOR POINT-D	213826	1106357
VP-9	8	SOIL VAPOR POINT	214351	1106348
VP-9	30	SOIL VAPOR POINT-D	214350	1106346
VP-10	8	SOIL VAPOR POINT	213790	1105887
VP-10	30	SOIL VAPOR POINT-D	213794	1105884
VP-11	8	SOIL VAPOR POINT	214039	1105866
VP-11	35	SOIL VAPOR POINT-D	214039	1105868
VP-12	8	SOIL VAPOR POINT	212977	1105983
VP-12	25	SOIL VAPOR POINT-D	212976	1105984
VP-13	8	SOIL VAPOR POINT	212220	1106025
VP-13	21	SOIL VAPOR POINT-D	212218	1106026
VP-14	8	SOIL VAPOR POINT	212456	1105807
VP-14	25	SOIL VAPOR POINT-D	212454	1105809
VP-15	8	SOIL VAPOR POINT	213526	1105478
VP-15	35	SOIL VAPOR POINT-D	213525	1105480
VP-16	8	SOIL VAPOR POINT	213950	1105562
VP-16	35	SOIL VAPOR POINT-D	213949	1105559
VP-17	8	SOIL VAPOR POINT	215218	1105014
VP-17	40	SOIL VAPOR POINT-D	215215	1105015
VP-18	8	SOIL VAPOR POINT	213392	1105300
VP-18	35	SOIL VAPOR POINT-D	213392	1105301
VP-19	8	SOIL VAPOR POINT	213372	1104959
VP-19	30	SOIL VAPOR POINT-D	213374	1104959
VP-20	8	SOIL VAPOR POINT	213101	1105206
VP-20	30	SOIL VAPOR POINT-D	213102	1105204
VP-21	8	SOIL VAPOR POINT	211947	1105620
VP-21	23	SOIL VAPOR POINT-D	211949	1105618
VP-22	8	SOIL VAPOR POINT	211653	1105259
VP-22	23	SOIL VAPOR POINT-D	211655	1105255
VP-23	8	SOIL VAPOR POINT	211476	1104857
VP-23	24	SOIL VAPOR POINT-D	211478	1104856
VP-24	8	SOIL VAPOR POINT	211911	1104478
VP-24	25	SOIL VAPOR POINT-D	211907	1104479
VP-25	8	SOIL VAPOR POINT	212274	1104915
VP-25	27	SOIL VAPOR POINT-D	212277	1104912
VP-26	8	SOIL VAPOR POINT	213037	1104849

Station	Depth Ft BGS	Type	North Coordinate	East Coordinate
VP-26	30	SOIL VAPOR POINT-D	213039	1104850
VP-27	8	SOIL VAPOR POINT	214103	1104570
VP-27	40	SOIL VAPOR POINT-D	214107	1104571
VP-28	8	SOIL VAPOR POINT	214063	1104062
VP-28	40	SOIL VAPOR POINT-D	214067	1104062
VP-29	8	SOIL VAPOR POINT	213607	1103923
VP-29	35	SOIL VAPOR POINT-D	213608	1103924
VP-30	8	SOIL VAPOR POINT	212564	1104255
VP-30	30	SOIL VAPOR POINT-D	212564	1104253
VP-31	8	SOIL VAPOR POINT	214313	1103751
VP-31	40	SOIL VAPOR POINT-D	214313	1103752
VP-32	8	SOIL VAPOR POINT	214501	1103445
VP-32	40	SOIL VAPOR POINT-D	214503	1103445
VP-33	8	SOIL VAPOR POINT	214587	1103169
VP-33	40	SOIL VAPOR POINT-D	214587	1103168
VP-34	8	SOIL VAPOR POINT	214240	1103253
VP-34	40	SOIL VAPOR POINT-D	214235	1103253
VP-35	8	SOIL VAPOR POINT	213623	1103661
VP-35	40	SOIL VAPOR POINT-D	213622	1103661
VP-36	8	SOIL VAPOR POINT	213348	1103216
VP-36	32	SOIL VAPOR POINT-D	213346	1103215
VP-37	8	SOIL VAPOR POINT	214312	1102776
VP-37	35	SOIL VAPOR POINT-D	214314	1102775
VP-38	8	SOIL VAPOR POINT	214811	1102183
VP-38	40	SOIL VAPOR POINT-D	214811	1102181
11E13N	0	CONTROL	211345	1104112
CHSNE	0	BLDG COR	212283	1105007
CHSSWW	0	BLDG COR	211569	1104687
MW	0	MONITORING WELL	212953	1106013
MW-14a	0	MONITORING WELL	214583	1107258

Datum: New York State Plane NAD83 Long Island, Feet

Note: Suvey was conducted 8/22-8/23/06 with a rented Trimble Pro XRS which has submeter accuracy under ideal conditions

Phase 1
Chain-of-Custodies

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

COC Number 060544

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: O'BRIEN & GERE ENGINEERS
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI
PHONE: (315) 437-6100 FAX: (315) 463-7554

CLIENT PROJECT INFORMATION

PROJECT NAME: NEW CASSEL
PROJECT NO.: 37976 LOCATION:
PROJECT MANAGER: JEFF BANIKOWSKI
e-mail:
PHONE: (315) 437-6100 FAX: (315) 463-7554

CLIENT BILLING INFORMATION

BILL TO: O'BRIEN & GERE PO#: 37976
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI PHONE: (315) 437-6100

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: _____ DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1	2	3	4	5	6	7	8	9
TO-15		START TIME		START PRESSURE		END TIME		END PRESSURE

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1. 10677	SV24-8'	AIR		X	8/28/06	1808	1	X		1451		-29.5		1808		-6	
2. 10788	SV24-25'	AIR		X	8/28/06	1806	1	X		1502		-30		1806		-8.5	
3. 10789	SV25-8'	AIR		X	8/29/06	1105	1	X		0803		-30		1105		-2.5	
4. 10791	SV25-27'	AIR		X	8/29/06	1105	1	X		0804		-28.8		1105		-3	
5. 10127	SV23-8'	AIR		X	8/29/06	1120	1	X		0830		-30		1120		-4	
6. 10137	SV23-24'	AIR		X	8/29/06	1046	1	X		0831		-24.5		1046		-2	
7. 10790	SV22-8'	AIR		X	8/29/06	1246	1	X		0929		-27		1246		-3.5	
8. 10717	SV22-23'	AIR		X	8/29/06	1255	1	X		0939		-30		1255		-3.5	
9. 10116	SV21-8'	AIR		X	8/29/06	1414	1	X		1144		-27		1414		-2.5	
10. 10150	SV21-23'	AIR		X	8/29/06	1445	1	X		1145		-29.5		1445		-4	

PRESERVATIVES — ← Specify Preservatives
A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Edwin B Rabon	8/30/06 UPS	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. _____
Ice in Cooler?: _____

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

COC Number 060545

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: O'BRIEN & GERE ENGINEERS
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI
PHONE (315)437-6100 FAX (315)463-7554

CLIENT PROJECT INFORMATION

PROJECT NAME: NEW CASSEL
PROJECT NO.: 37976 LOCATION:
PROJECT MANAGER: JEFF BANIKOWSKI
e-mail:
PHONE (315)437-6100 FAX (315)463-7554

CLIENT BILLING INFORMATION

BILL TO: O'BRIEN & GERE PO#: 37976
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI PHONE: (315)437-6100

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: _____ DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1	2	3	4	5	6	7	8	9
	TO-15	START TIME		START PRESSURE		END TIME		END PRESSURE

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1. 10132	SV10-8'	AIR		X	8/30/06	1126	1	X		0926		-30		1126		-3	
2. 10676	SV10-30'	AIR		X	8/30/06	1247	1	X		1037		-28.5		1247		-3.5	
3. 10138	SV8-8'	AIR		X	8/30/06	1359	1	X		1051		-28.2		1359		-3	
4. 10141	SV8-25'	AIR		X	8/30/06	1358	1	X		1032		-26		1358		-3.5	
5. 10786	FIELD DUPLICATE 1	AIR		X			1	X				-30				-3.5	
6.																	
7.																	
8. 10126	Reg.# ~~IEE-10224~~							---		0908		-26.5		0825		-6	Bad Regulator ?
9.																	
10.																	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1 Edward B Rabon	8/30/06 UPS	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp. _____
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
Ice in Cooler?: _____

Page 2 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

COC Number 060604

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: O'BRIEN & GERE ENGINEERS
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI
PHONE (315) 437-6100 FAX: (315) 463-7554

CLIENT PROJECT INFORMATION

PROJECT NAME: NEW CASSEL
PROJECT NO.: 37976 LOCATION:
PROJECT MANAGER: JEFF BANIKOWSKI
e-mail:
PHONE: (315) 437-6100 FAX (315) 463-7554

CLIENT BILLING INFORMATION

BILL TO: O'BRIEN & GERE PO#: 37976
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI PHONE (315) 437-6100

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: _____ DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1	2	3	4	5	6	7	8	9
TO-15		START TIME		START PRESSURE		END TIME		END PRESSURE

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1. 10650	SV-3-8 FEET	AIR		X	9/5/06	1701	1	X		1342		-30		1701		-4	
2. 10684	SV3-25 FEET	AIR		X	9/5/06	1713	1	X		1343		-29		1713		-4.5	
3. 10045	SV4-8 FEET	AIR		X	9/6/06	1132	1	X		0832		-30		1132		-5	
4. 10683	SV4-35 FEET	AIR		X	9/6/06	1129	1	X		0833		-28		1129		-2.5	
5. 10147	SV5-8 FEET	AIR		X	9/6/06	1146	1	X		0846		-28		1146		-3	
6. 10679	SV5-35 FEET	AIR		X	9/6/06	1147	1	X		0847		-28.5		1147		-4	
7. 10745	SV6-8 FEET	AIR		X	9/6/06	1217	1	X		0904		-29		1217		-4.5	
8. 10795	SV6-35 FEET	AIR		X	9/6/06	1205	1	X		0905		-29		1205		-3	
9. 10715	SV26-8 FEET	AIR		X	9/6/06	1627	1	X		1247		-30		1627		-4	
10. 10113	SV26-30 FEET	AIR		X	9/6/06	1638	1	X		1250		-30		1638		-4	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Edwin B Rahn	9/7/06 UPS	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. _____
Ice in Cooler?: _____

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

COC Number 060603

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: O'BRIEN & GERE ENGINEERS
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI
PHONE (315) 437-6100 FAX (315) 463-7554

CLIENT PROJECT INFORMATION

PROJECT NAME: NEW CASSEL
PROJECT NO.: 37976 LOCATION:
PROJECT MANAGER: JEFF BANIKOWSKI
e-mail:
PHONE: (315) 437-6100 FAX: (315) 463-7554

CLIENT BILLING INFORMATION

BILL TO: O'BRIEN & GERE PO#: 37976
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI PHONE (315) 437-6100

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: _____ DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1	2	3	4	5	6	7	8	9
TO-15		START TIME		START PRESSURE		END TIME		END PRESSURE

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1. 10673	FIELD DUPLICATE 2	AIR		X	9/6/06	-	1	X		-		-28.5		-		-5	
2. 10435	SV19-8 FEET	AIR		X	9/7/06	1225	1	X		0855		-30		1225		-3.5	
3. 10666	SV19-30 FEET	AIR		X	9/7/06	1225	1	X		0855		-30		1225		-5.5	
4. 10422	SV20-8 FEET	AIR		X	9/7/06	1217	1	X		0917		-28.5		1217		-4.5	
5. 10426	SV20-30 FEET	AIR		X	9/7/06	1217	1	X		0917		-27		1217		-2	
6.																	
7.																	
8.																	
9. 10125	(NO NEG. PRESS.)																DO NOT ANALYZE
10.																	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Edwin B Parkin	9/7/06 UPS	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. _____
Ice in Cooler?: _____

Page 2 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

COC Number 060770

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: O'BRIEN & GERE ENGINEERS
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI
PHONE: (315) 437-6100 FAX: (315) 463-7554

CLIENT PROJECT INFORMATION

PROJECT NAME: NEW CASSEL
PROJECT NO.: 37976 LOCATION:
PROJECT MANAGER: JEFF BANIKOWSKI
e-mail:
PHONE: (315) 437-6100 FAX (315) 463-7554

CLIENT BILLING INFORMATION

BILL TO: O'BRIEN & GERE PO#: 37976
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI PHONE: (315) 437-6100

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: _____ DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1	2	3	4	5	6	7	8	9
TO-15		START TIME		START PRESSURE		END TIME		END PRESSURE

PRESERVATIVES

COMMENTS

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9
1. 10429	SV13-8 FEET	AIR		X	9/12/06	1127	1	X		0827		-30		1127		-3.5
2. 10792	SV13-21 FEET	AIR		X	9/12/06	1128	1	X		0828		-30		1128		-3.5
3. 10797	SV14-8 FEET	AIR		X	9/12/06	1135	1	X		0853		-28		1135		-1
4. 10796	SV14-25 FEET	AIR		X	9/12/06	1227	1	X		0847		-30		1227		-5
5. 10130	SV12-8 FEET	AIR		X	9/12/06	1232	1	X		0930		-30		1232		-4
6. 10682	SV12-25 FEET	AIR		X	9/12/06	1233	1	X		0931		-30		1233		-4.5
7. 10044	SV15-8 FEET	AIR		X	9/12/06	1702	1	X		1302		-30		1702		-5
8. 10124	SV15-35 FEET	AIR		X	9/12/06	1703	1	X		1303		-29.5		1703		-3.5
9. 10799	SV18-8 FEET	AIR		X	9/12/06	1731	1	X		1431		-28		1731		-5.5
10. 10432	SV18-35 FEET	AIR		X	9/12/06	1710	1	X		1327		-30		1710		-7.5

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Edwin B Rahn	9/13/06 UPS	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. _____
Ice in Cooler?: _____

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

COC Number 060771

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: O'BRIEN & GERE ENGINEERS
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI
PHONE: (315) 437-6100 FAX: (315) 463-7554

CLIENT PROJECT INFORMATION

PROJECT NAME: NEW CASSEL
PROJECT NO.: 37976 LOCATION:
PROJECT MANAGER: JEFF BANIKOWSKI
e-mail:
PHONE: (315) 437-6100 FAX: (315) 463-7554

CLIENT BILLING INFORMATION

BILL TO: O'BRIEN & GERE PO#: 37976
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI PHONE: (315) 437-6100

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: _____ DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1	2	3	4	5	6	7	8	9
TO-15		START TIME		START PRESSURE		END TIME		END PRESSURE

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1. 10763	FIELD DUPLICATE No. 3	AIR		X	9/12/06		1	X				-25			-8	-3	
2. 10430	SV9 - 8 FEET	AIR		X	9/13/06	1132	1	X		0829		-29.5		1132		-2.5	
3. 10662	SV9 - 30 FEET	AIR		X	9/13/06	1133	1	X		0830		-30		1133		-3.5	
4. 10112	SV11 - 8 FEET	AIR		X	9/13/06	1200	1	X		0848		-27.5		1200		-4.5	
5. 10759	SV11 - 35 FEET	AIR		X	9/13/06	1149	1	X		0849		-26		1149		-2.5	
6. 10793	SV16 - 8 FEET	AIR		X	9/13/06	1240	1	X		0910		-28.5		1240		-4.5	
7. 10800	SV16 - 35 FEET	AIR		X	9/13/06	1211	1	X		0911		-29		1211		-4	
8. 10427	SV2 - 8 FEET	AIR		X	9/13/06	1303	1	X		1003		-26.5		1303		-3	
9. 10438	SV2 - 35 FEET	AIR		X	9/13/06	1334	1	X		1004		-27.5		1334		-4	
10. 10719	STARTING PRESSURE WAS -20.5 DID NOT USE															DO NOT ANALYZE	*

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Edwin B Rivera	9/13/06 UPS	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp. _____
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments: Ice in Cooler?: _____

Page 2 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

Revision 4/2005

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

COC Number 059016

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: O'BRIEN & GERE ENGINEERS
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI
PHONE: (315) 437-6100 FAX: (315) 463-7554

CLIENT PROJECT INFORMATION

PROJECT NAME: NEW CASSEL
PROJECT NO.: 37976 LOCATION:
PROJECT MANAGER: JEFF BANIKOWSKI
e-mail:
PHONE: (315) 437-6100 FAX (315) 463-7554

CLIENT BILLING INFORMATION

BILL TO: O'BRIEN & GERE PO#: 37976
ADDRESS: 5000 BRITTONFIELD PARKWAY
CITY: SYRACUSE STATE: NY ZIP: 13221
ATTENTION: JEFF BANIKOWSKI PHONE: (315) 437-6100

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: _____ DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1	2	3	4	5	6	7	8	9
TO-15		START TIME		START PRESSURE		END TIME		END PRESSURE

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1. 10159	SV38-8 FEET	AIR		X	9/14/06	1100	1	X		0825		-30		1120		-35	
2. 10669	SV38-35 FEET	AIR		X	9/14/06	1101	1	X		0826		-27.5		1101		-2	
3. 10133	SV37-8 FEET	AIR		X	9/14/06	1152	1	X		0902		-28.5		1152		-3	
4. 10798	SV37-35 FEET	AIR		X	9/14/06	1153	1	X		0903		-29		1153		-4	
5. 10760	SV36-8 FEET	AIR		X	9/14/06	1245	1	X		0935		-28.5		1246		-4.5	
6. 10767	SV36-32 FEET	AIR		X	9/14/06	1246	1	X		0936		-27.5		1246		-5	
7. 10131	SV34-8 FEET	AIR		X	9/14/06	1257	1	X		0954		-28.5		1257		-4	
8. 10794	SV34-40 FEET	AIR		X	9/14/06	1258	1	X		0955		-25		1258		0	
9.																	
10.																	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Edwin B Rabon	9/14/06 UPS	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. _____
Ice in Cooler?: _____

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

ATTACHMENT A4

Phase 1
DUSRs

SUMMARY OF THE ANALYTICAL DATA USABILITY
New Cassel

Air Volatile Organic Analyses – Method TO-15
Samples Collected August 28th through 30th, 2006
Samples Received August 31, 2006
Sample Delivery Group: X4234
Laboratory Reference Numbers:

Collected 8/28	
SV24-8FEET	X4234-01
SV24-8FEET DL	X4234-01 DL
Collected 8/29	
SV24-25FEET	X4234-02
SV24-25FEET DL	X4234-02 DL
SV25-8FEET	X4234-03
SV25-8FEET DL	X4234-03 DL
SV25-27FEET	X4234-04
SV25-27FEET DL	X4234-04 DL
SV23-8FEET	X4234-05
SV23-8FEET DL	X4234-05 DL
SV23-24FEET	X4234-06
SV23-24FEET DL	X4234-06 DL
SV22-8FEET	X4234-07
SV22-23FEET	X4234-08
SV21-8FEET	X4234-09
SV21-8FEET DL	X4234-09 DL
SV21-23FEET	X4234-10
Collected 8/30	
SV10-8FEET	X4234-11
SV10-30FEET	X4234-12
SV10-30FEET DL	X4234-12 DL
SV8-8FEET	X4234-13
SV8-8FEET DL	X4234-13 DL
SV8-8FEET MS	X4234-13 MS
SV8-8FEET MSD	X4234-13 MSD
SV8-25FEET	X4234-14
Field Duplicate SV22	X4234-15
Field Duplicate SV22 DL	X4234-15 DL

Air samples were validated for analyses of volatile organics by the US EPA Region II checklist. Data were reviewed for usability according to the following criteria:

- Data Completeness
* - GC/MS Tuning
- Holding Times
- Calibrations
- Laboratory Blanks
- Trip Blanks
- Storage Blank
- Equipment Blank
* - Surrogate Compound Recoveries
- Internal Standard Recoveries
- Matrix Spike / Matrix Spike Duplicate
- Instrument Detection Limits
- Laboratory Control Sample
* - Compound Identification
- Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Instrument detection limits were not found in this sample delivery group.

The problems with the holding times, matrix spikes, calibrations, laboratory control samples and internal standards should be noted should be noted. These are discussed in detail below.

Samples SV23-24FEET (X4234-06 DL) and SV10-30FEET DL (X4234-12 DL) were reanalyzed at a dilution due to high concentrations of isopropyl alcohol and /or propene. The concentration of propene in the diluted analyses were still above the linear range of the analysis. They were flagged with a "J" qualifier and should be considered highly estimated.

No other significant problems were found with this sample delivery group, which would affect the usability of the data.

Holding Times

All samples were analyzed within 14 days of collection with the following exceptions:

Sample		Days Analyzed Beyond Holding Time
SV24-8FEET DL	X4234-01 DL	3
SV25-8FEET DL	X4234-03 DL	2
SV23-8FEET DL	X4234-05 DL	2
SV23-24FEET DL	X4234-06 DL	3
SV22-8FEET	X4234-07	2
SV21-8FEET	X4234-09	2
SV10-8FEET	X4234-11	1
SV8-8FEET	X4234-13	1
Field Duplicate1	X4234-15	1
Field Duplicate1 DL	X4234-15 DL	1

The data for these samples were flagged with the "J" qualifier and should be considered estimated values.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

All surrogate compound recoveries were within the 65% - 135% quality assurance limits.

1-Bromo-4-fluorobenzene was the only surrogate.

Calibrations

The laboratory used a linear regression for the initial calibration for compounds where the %RSD was greater than 15%.

The laboratory used a percent difference calculation when the RSD was used for the initial calibration. They used a percent difference based upon the amount added and calculated amount for all compounds using a linear regression when the %RSD value for a compound was greater than 15%.

All of the linear regression r^2s were greater than 0.994 with the following exceptions:

Benzyl chloride was determined by a quadratic curve fit in the 9/12 as opposed to a linear regression. The data for this compound was flagged with the "J" qualifier since the %RSD was 76%. The data for this compound is estimated. This continuing calibration was associated with the analyses of samples -10, -14, -08, -02DL, -04DL, -13DL, -01, -03, -05, -09DL and -12DL.

This was not detected in any of the samples. The data were flagged with the "J" qualifier. It is possible that low concentrations were overlooked.

The percent difference of dichlorotetrafluoroethane (29%), ethyl benzene (34%), o-xylene (35%), styrene (41%), 1,3,5-trimethylbenzene (32%), 1,2,4-trimethylbenzene (34%), hexachloro1,3-butadiene (36%) were above the 25% quality assurance limit in the 9/14 continuing calibration associated with the analyses of samples -15, -15DL, -13, -01DL, -05DL, -07, -09, -11 and -03DL.

The percent difference of heptane (32%) and hexachloro-1,3-butadiene (41%) were above the 25% quality assurance limit in the 9/15 continuing calibration associated with the analysis of sample -06DL.

Whenever on of these compounds was detected in a sample and the percent difference was less than 50%. it was flagged with the "J" qualifier and should be considered an estimated value.

The RRT for each target compound at each calibration level was within 0.06 RRT units of the mean RRT for the compound.

The retention time shift for each of the internal standards at each calibration level must be within 20 seconds of the mean retention time over the initial calibration range for each internal standard.

All RRF's were greater than 0.05.

Matrix Spike and Matrix Spike Duplicate

Sample SV8-8FEET (X4234-13) was used as the matrix spike and matrix spike duplicate. All recoveries and RPDs that could be accurately calculated were within the required quality assurance limits with the following exceptions:

Compound	MS %Rec	MSD %Rec	QC Limits	RPD	Limits
Propene		136%	65 – 135%		35%
Heptane		143%	65 – 135%		35%
Acetone	28%	52%	65 – 135%	60%	35%
1,3-Butadiene	208%	232%	65 – 135%		35%
Isopropyl Alcohol		152%	65 – 135%		35%
Vinyl Acetate		156%	65 – 135%		35%
Ethyl Acetate	164%	180%	65 – 135%		35%
Cis-1,3-Dichloropropene		136%	65 – 135%		35%
Toluene	0%	140%	65 – 135%	200%	35%
Stryene		140%	65 – 135%		35%
Hexachloro-1,3-butadiene	40%	52%	65 – 135		35%

The matrix spike and matrix spike duplicate were spiked with 25 ppbv of each of the target compounds.

The concentration toluene in the sample (130 ppbv) was greater than 4X the concentration added in the spike and the recoveries could not be accurately calculated. The data were not required to be qualified for the spike recoveries.

The compounds with low recoveries were flagged with the "J" qualifier and should be considered estimated values.

Compounds with high matrix spike or matrix spike duplicate recoveries were only flagged with the "J" qualifier when they were detected in a sample. They should be considered estimated values.

Laboratory Control Sample

All BSL0907A1 LCS recoveries were within the required quality assurance limits with the following exception:

Compound	MS %Rec	QC Limits
Acetone	48%	65 – 135

This laboratory control sample was associated with the analyses of samples -02, -04, -06, -12.

Acetone was flagged with the "J" qualifier and should be considered an estimated value.

All BSL0912A1 LCS recoveries were within the required quality assurance limits with the following exceptions:

Compound	MS %Rec	QC Limits
Heptane	140%	65 – 135%
Tetrahydrofuran	138%	65 – 135%
4-Methyl-2-Pentanone	142%	65 – 135%
Hexachloro-1,3-butadiene	48%	65 – 135%

This laboratory control sample was associated with the analyses of samples -10, -14, -08, -02DL, -04DL, -13DL, -01, -03, -05, -09DL and -12DL.

Heptane, tetrahydrofuran and 4-methyl-2-pentanone were only qualified if they were detected in an associated sample. The positive data should be considered estimated values.

Hexachloro-1,3-butadiene was flagged with the "J" qualifier and should be considered an estimated value.

All BSL0914A1 LCS recoveries were within the required quality assurance limits with the following exceptions:

Compound	MS %Rec	QC Limits
1,3,5-Trimethylbenzene	136%	65 – 135
1,2,4-Trimethylbenzene	136%	65 - 135

This laboratory control sample was associated with the analyses of samples -15, -15DL, -13, -01DL, -05DL, -07, -09, -11 and -03DL.

These two compounds were only qualified if they were detected in an associated sample.

All BSL0915A1 LCS recoveries were within the required quality assurance limits with the following exceptions:

Compound	MS %Rec	QC Limits
Hexachloro-1,3-butadiene	44%	65 – 135

This laboratory control sample was associated with the analyses of sample-06DL. This compound was quantitated from the original analysis and the low recovery did not affect the end use of the data.

Hexachloro-1,3-butadiene was flagged with the "J" qualifier and should be considered an estimated value.

Method Blanks

Low concentration of acetone (0.62 ug/M3 / 0.3 ppbv) and hexachlorobutadiene (4.16 ug/M3 / 0.4 ppbv) were detected in method blank VBL0907. This blank was associated with the undiluted analyses of samples -02, -04, -06 and -12.

Low concentrations of acetone, less than 10X the concentration in ppbv prior to any dilution (6.2 ug/M3 / 30 ppbv), were reported as "ND" in the data validation summary table.

Low concentrations of hexachlorobutadiene, less than 5X the concentration in ppbv prior to any dilution (31 ug/M3 / 2 ppbv), were reported as "ND" in the data validation summary table.

Low concentration of acetone (1.59 ug/M3 / 0.7 ppbv) and tetrachloroethene (0.75 ug/M3 & 0.1 ppbv) were detected in method blank VBL1212. This blank was associated with the analyses of samples -10, -14, -08, -02DL, -04DL, -13DL, -01, -03, -05, -09DL, -12DL

Low concentrations of acetone, less than 10X the concentration in ppbv prior to any dilution (1.59 ug/M3 / 7 ppbv), were reported as "ND" in the data validation summary table.

Low concentrations of tetrachloroethene, less than 5X the concentration in ppbv prior to any dilution (3.8 ug/M3 / 0.5 ppbv), were reported as "ND" in the data validation summary table.

A low concentration of acetone (1.73 ug/M3 / 0.7 ppbv) was detected in method blank VBL0914. This blank was associated with the undiluted analyses of samples -15, -15DL, -13, -01DL, -05DL, -07, -09, -11, -03DL,.

Low concentrations of acetone, less than 10X the concentration in ppbv prior to any dilution (17.3 ug/M3 / 7 ppbv), were reported as "ND" in the data validation summary table.

The "B" qualifier was not added to the acetone in sample SV22-8FEET (X4234-07). This was added during the data validation.

A low concentration of acetone (0.71 ug/M3 / 0.3 ppbv) was detected in method blank VBL0915. This blank was associated with the undiluted analyses of sample - 06DL.

Acetone was quantitated from the undiluted analysis of this sample and the blank contamination did not affect the end use of the data.

Equipment Blanks

An equipment blank was not analyzed with this sample delivery group.

Internal Standard Areas and Retention Times

The recoveries and retention times of all internal standards were within the required quality control limits with the following exceptions:

Samples SV24-25FEET (X4234-02), SV25-27FEET (X4234-04) and SV23-24FEET (X4234-06)

The recoveries of the second and third the internal standards were above the 140% quality assurance limit in the initial analyses of these samples. All of the detected data quantitated against these internal standards were flagged with the "J" qualifier and should be considered estimated values. Non detects were not qualified since they were not affected by the high recoveries.

All of the recoveries were within the required limits in the reanalyses of these samples.

Sample SV10-30FEET (X4234-12)

The recoveries of the second and third internal standards were above the 140% quality assurance limit in the initial analysis of this sample. All of the detected data quantitated from these internal standards were flagged with the "J" qualifier and should be considered estimated values. Non detects were not qualified since they were not affected by the high recoveries.

When the sample was reanalyzed at a dilution, the recoveries of the first and second internal standards were less than the 60% quality assurance limit. All of the compounds that were quantitated against these internal standards in the dilution were flagged with the "J" qualifier and should be considered estimated values.

The recovery of the third internal standard in method blank VBL0914A1 was less than the 60% quality assurance limit (55%). There should not be a problem with the recovery of an internal standard in a method blank.

Instrument Detection limits

Instrument detection limits were not found in this sample delivery group.

Sample Results

Samples SV23-24FEET (X4234-06 DL) and SV10-30FEET DL (X4234-12 DL)

These samples were reanalyzed at a dilution due to high concentrations of isopropyl alcohol and /or propene.

The concentration of propene in the diluted analyses were still above the linear range of the analysis. They were flagged with a "J" qualifier and should be considered highly estimated.

No other problems were found with the reported results of any of the samples of this delivery group.

ATTACHMENT A5

Validated Data

SUMMARY OF THE ANALYTICAL DATA USABILITY
New Cassel

Air Volatile Organic Analyses – Method TO-15
Samples Collected September 5th through 7th, 2004
Samples Received September 8, 2006
Sample Delivery Group: X4317
Laboratory Reference Numbers:

Collected 9/5	
SV-3-8FEET	X4317-01
SV-3-8FEET DL	X4317-01 DL
SV-3-25FEET	X4317-02
SV-3-25FEET MS	X4317-02 MS
SV-3-25FEET MSD	X4317-02 MSD
SV-3-25FEET DL	X4317-02 DL
Collected 9/6	
SV-4-8FEET	X4317-03
SV-4-8FEET RE	X4317-03 RE
SV-4-35FEET	X4317-04
SV-4-35FEET RE	X4317-04 RE
SV-5-8FEET	X4317-05
SV-5-8FEET DL	X4317-05 DL
SV-5-35FEET	X4317-06
SV-5-35FEET RE	X4317-06 RE
SV-6-8FEET	X4317-07
SV-6-8FEET DL	X4317-07 DL
SV-6-35FEET	X4317-08
SV-6-35FEET DL	X4317-08 DL
SV-26-8FEET	X4317-09
SV-26-8FEET DL	X4317-09 DL
SV-26-30FEET	X4317-10
SV-26-30FEET DL	X4317-10 DL
FIELD DUPLICATE 2	X4317-11
FIELD DUPLICATE 2 DL	X4317-11 DL
Collected 9/7	
SV-19-8FEET	X4317-12
SV-19-30FEET	X4317-13
SV-19-30FEET DL	X4317-13 DL
SV-20-8FEET	X4317-14
SV-20-8FEET DL	X4317-14 DL
SV-20-30FEET	X4317-15
SV-20-30FEET DL	X4317-15 DL

Air samples were validated for analyses of volatile organics by the US EPA Region II checklist. Data were reviewed for usability according to the following criteria:

- Data Completeness
* - GC/MS Tuning
* - Holding Times
- Calibrations
- Laboratory Blanks
- Trip Blanks
- Storage Blank
- Equipment Blank
* - Surrogate Compound Recoveries
- Internal Standard Recoveries
- Matrix Spike / Matrix Spike Duplicate
- Instrument Detection Limits
- Laboratory Control Sample
* - Compound Identification
- Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Instrument detection limits were not found in this sample delivery group.

The problems with the matrix spikes, calibrations, laboratory control samples and internal standards should be noted ~~should be noted~~. These are discussed in detail below.

The designation on sample SV-4-8FEET (X4317-03) notes that it was reanalyzed. The data for the original analysis were not found in the data package. It is not known why a reanalysis was necessary.

No other significant problems were found with this sample delivery group, which would affect the usability of the data.

Holding Times

All samples were analyzed within 14 days of collection.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

All surrogate compound recoveries were within the 65% - 135% quality assurance limits.

1-Bromo-4-fluorobenzene was the only surrogate.

Calibrations

The laboratory used a linear regression for the initial calibration for compounds where the %RSD was greater than 15%.

The laboratory used a percent difference calculation when the RSD was used for the initial calibration. They used a percent difference based upon the amount added and calculated amount for all compounds using a linear regression when the %RSD value for a compound was greater than 15%.

All of the linear regression r^2s were greater than 0.994 with the following exceptions:

The relative response factors reported on the initial calibration summary form for the 10ppbv and 20ppbv standards (page 559) did not agree with the ones reported for the same concentrations on the first summary page of the report (page 557). The mean RRF and %RSD calculated during the validation agreed with those reported on the first page of the summary.

The percent difference of dichlorotetrafluoroethane (29%), ethyl benzene (34%), o-xylene (35%), styrene (41%), 1,3,5-trimethylbenzene (32%), 1,2,4-trimethylbenzene (34%), hexachloro1,3-butadiene (36%) were above the 25% quality assurance limit in the 9/14 continuing calibration associated with the analyses of samples -02DL, -10DL and -12.

The percent difference of heptane (32%), methyl tert butyl ether (28%), tetrahydrofuran (27%), 4-methyl-2-pentanone (28%) and hexachloro-1,3-butadiene (41%) were above the 25% quality assurance limit in the 9/15 continuing calibration associated with the analysis of samples -14, -01, -05, -02, -04, -06, -08, -10, -09, -02MS and -02MSD.

The percent difference of cis-1,3-dichloropropene (27%), 4-methyl-2-pentanone (28%) and hexachloro-1,3-butadiene (57%) were above the 25% quality control limit in the 9/16 continuing calibration associated with the analyses of samples -07, -04RE, -06RE, -13, -13DL, -15 and -11.

The percent difference of acetone (31%), 1,1,2,2-tetrachloroethane (28%) and hexachloro-1,3-butadiene (63%) were above the 25% quality control limit in the 9/18 continuing calibration associated with the analyses of samples -07DL, -08DL, -09DL, -11DL, -01DL, -03RE, -05DL and -14DL.

Whenever on of these compounds was detected in a sample and the percent difference was less than 50%. it was flagged with the "J" qualifier and should be considered an estimated value.

All compounds with percent difference greater than 50% were flagged with the "J" qualifier.

The RRT for each target compound at each calibration level was within 0.06 RRT units of the mean RRT for the compound.

The retention time shift for each of the internal standards at each calibration level must be within 20 seconds of the mean retention time over the initial calibration range for each internal standard.

All RRF's were greater than 0.05.

Matrix Spike and Matrix Spike Duplicate

Sample SV8-8FEET (X4234-13) was used as the matrix spike and matrix spike duplicate. All recoveries and RPDs that could be accurately calculated were within the required quality assurance limits with the following exceptions:

Compound	MS %Rec	MSD %Rec	QC Limits	RPD	Limits
Heptane		146%	65 – 135%		35%
Acetone	210%	0%	65 – 135%	200%	35%
1,3-Butadiene	160%	140%	65 – 135%		35%
Vinyl Acetate	160%	160%	65 – 135%		35%
Ethyl Acetate	140%	30%	65 – 135%	129	35%
Hexane	150%	150%	65 – 135%		35%
Methyl tert-butyl ether		140%	65 – 135%		35%
cis-1,2-Dichloroethene		140%	65 – 135%		35%
1,4-Dioxane		140%	65 – 135%		35%
Tetrahydrofuran	140%		65 – 135%		35%
cis-1,3-Dichloropropene	150%	150%	65 – 135%		35%
4-Methyl-2-Pentanone	149%	149%	65 – 135%		35%
2-Hexanone		140%	65 – 135%		35%
Tetrachloroethene	147%	137%	65 – 135%		35%
Toluene	156%	146%	65 – 135%		35%
1,2-Dibromoethane		140%	65 – 135%		35%
Ethyl Benzene	146%	136%	65 – 135%		35%
o-Xylene	137%		65 – 135%		35%
Stryene	150%	150%	65 – 135%		35%
1,3,5-Trimethylbenzene	137%		65 – 135%		35%
1,2,4-Trimethylbenzene	139%		65 – 135%		35%
Hexachloro-1,3-butadiene	51%	51%	65 – 135		35%

The matrix spike and matrix spike duplicate were spiked with 25 ppbv of each of the target compounds.

The concentration of acetone in the sample (50 ppbv) was greater than 4X the concentration added in the spike and the recoveries could not be accurately calculated. The data were not required to be qualified for the spike recoveries.

Hexachloro-1,3-butadiene the only compound with a low recovery was flagged with the "J" qualifier and should be considered estimated values.

Compounds with high matrix spike or matrix spike duplicate recoveries were only flagged with the "J" qualifier when they were detected in a sample. They should be considered estimated values.

The data for ethyl acetate were always flagged with the "J" qualifier since one recovery was above the quality control limit and the other was less than the limit.

Laboratory Control Sample

All BSL0914A1 LCS recoveries were within the required quality assurance limits with the following exceptions:

Compound	MS %Rec	QC Limits
1,3,5-Trimethylbenzene	136%	65 – 135
1,2,4-Trimethylbenzene	136%	65 - 135

This laboratory control sample was associated with the analyses of samples -02DL, -10DL and -12.

These two compounds were only qualified if they were detected in an associated sample.

All BSL0915A1 LCS recoveries were within the required quality assurance limits with the following exception:

Compound	MS %Rec	QC Limits
Hexachloro-1,3-butadiene	44%	65 – 135

This laboratory control sample was associated with the analyses of samples -14, -01, -05, -02, -04, -06, -08, -10 and -09

Hexachloro-1,3-butadiene was flagged with the "J" qualifier and should be considered an estimated value.

All BSL0916A1 LCS recoveries were within the required quality assurance limits with the following exceptions:

Compound	MS %Rec	QC Limits
Acetone	64%	65 - 135
Hexachloro-1,3-butadiene	38%	65 – 135
1,2,4-Trichlorobenzene	64%	65 - 135

This laboratory control sample was associated with the analyses of samples -07, -04RE, -06RE, -13, -13DL, -15 and -11.

The data for these compounds were flagged with the "J" qualifier and should be considered estimated values.

All BSL0918A1 LCS recoveries were within the required quality assurance limits with the following exceptions:

Compound	MS %Rec	QC Limits
Hexachloro-1,3-butadiene	38%	65 – 135

This laboratory control sample was associated with the analyses of samples -07DL, -08DL, -09DL, -11DL, -01DL, -03RE, -05DL and -14DL.

Hexachloro-1,3-butadiene was not quantitated from any of the diluted or reanalyses and the low recoveries do not affect the end use of the data.

All of the laboratory control samples were within the required limits in laboratory control sample BSL0920A1.

Method Blanks

A low concentration of acetone (1.73 ug/M3 / 0.7 ppbv) was detected in method blank VBL0914. This blank was associated with the undiluted analyses of samples -02DL, -10DL, -12

A low concentration of acetone (0.71 ug/M3 / 0.3 ppbv) was detected in method blank VBL0915. This blank was associated with the undiluted analyses of samples -14, -01, -05, -02, -04, -06, -08, -10, -09 and -02MS, -02MSD.

A low concentration of acetone (1.43 ug/M3 / 0.6 ppbv) was detected in method blank VBL0916. This blank was associated with the undiluted analyses of samples -07, -04RE, -06RE, -13, -13DL, -15, -11.

Low concentrations of acetone (1.23 ug/M3 / 0.5 ppbv) and tetrachloroethene (0.68 ug/M3 / 0.1J ppbv) were detected in method blank VBL0918. This blank was associated with the undiluted analyses of samples -07DL, -08DL, -09DL, -11DL, -01DL, -03RE, -05DL and -14DL.

Low concentrations of acetone (0.66 ug/M3 / 0.3 ppbv) and tetrachloroethene (1.09 ug/M3 / 0.2J ppbv) were detected in method blank VBL0920. This blank was associated with the undiluted analyses of sample -15DL

All of the detected concentrations of the blank contaminants were too high to be affected by the method blank contamination.

Internal Standard Areas and Retention Times

The recoveries and retention times of all internal standards were within the required quality control limits with the following exceptions:

Sample SV-3-25FEET (X4317-02)

The recoveries of all of the internal standards were greater than the 140% quality control limit in the initial analysis of this sample. The sample was reanalyzed at a 10X dilution due to a high concentration of acetone.

It is recommend that the data for all compounds, with the exception of acetone be reported from the initial analysis. The positive results were flagged with the "J" qualifier and should be considered estimated values.

The recovery of the third internal standard was above the quality assurance limit in the dilution. This did not affect the quantitation of acetone.

Sample SV-4-35FEET (X4317-04)

The recoveries of all of the internal standards were greater than the 140% quality control limit in the initial analysis of this sample.

This sample was reanalyzed and only the recovery of the third internal standard was above the quality control limit in the reanalysis.

It is recommended that the data from the reanalysis be used for the final reporting. The detected compounds that were quantitated against the third internal standard were flagged with the "J" qualifier and should be considered estimated values.

Sample SV-5-35FEET (X4317-06)

The recoveries of all internal standards were above the 140% quality assurance limit in the initial and reanalysis of this sample. It is recommended that the data from the initial analysis be used for the final reporting.

Note: Several compounds had what may be significant differences between the original and reanalysis. Both sets of data should be examined if the magnitude of this difference effects the end use of the data.

Sample SV-6-35FEET (X4317-08)

The recoveries of all of the internal standards were above the 140% quality assurance limit in the original analysis of this sample.

The sample was reanalyzed at a 10X dilution, even though none of the compounds were above the linear range of the analysis. All of the internal standard recoveries were within the required limits in the dilution.

Many of the compounds with lower concentrations were diluted out in the 10X analysis. It is recommended that the data from the original analysis be used for the final reporting. All of the detected compounds were flagged with the "J" qualifier and are estimated values.

Samples SV-5-8FEET (X4317-05), SV-6-35FEET (X4317-08), SV-26-8FEET (X4317-09) and SV-26-30FEET (X4317-10)

The recoveries of the all of the internal standards were above the 140% quality assurance limit in the initial analyses of these samples. All of the detected data quantitated against these internal standards were flagged with the "J" qualifier and should be considered estimated values. Non detects were not qualified since they were not affected by the high recoveries.

These samples were reanalyzed at higher dilutions due to concentrations of target compounds above the linear range. All of the internal stand recoveries were within the required limits in the reanalysis.

The recovery of the third internal standard in method blank VBL0914A1 was less than the 60% quality assurance limit (55%). There should not be a problem with the recovery of an internal standard in a method blank.

Instrument Detection limits

Instrument detection limits were not found in this sample delivery group.

Sample Results

Sample SV-4-8FEET (X4317-03)

The designation on this sample notes that it was reanalyzed. The data for the original analysis were not found in the data package. It is not know why a reanalysis was necessary.

No other problems were found with the reported results of any of the samples of this delivery group.

SUMMARY OF THE ANALYTICAL DATA USABILITY
New Cassel

Air Volatile Organic Analyses – Method TO-15
Samples Collected September 12th & 13th, 2004
Samples Received September 14, 2006
Sample Delivery Group: X4477
Laboratory Reference Numbers:

Collected 9/12	
SV13-8FEEET	X4477-01
SV13-8FEEET DL	X4477-01 DL
SV13-21FEET	X4477-02
SV13-21FEET DL	X4477-02 DL
SV14-8FEET	X4477-03
SV14-8FEET DL	X4477-03 DL
SV14-25FEET	X4477-04
SV14-25FEET DL	X4477-04 DL
SV12-8FEET	X4477-05
SV12-8FEET DL	X4477-05 DL
SV12-25FEET	X4477-06
SV12-25FEET DL	X4477-06 DL
SV15-8FEET	X4477-07
SV15-8FEET DL	X4477-07 DL
SV15-35FEET	X4477-08
SV15-35FEET DL	X4477-08 DL
SV18-8FEET	X4477-09
SV18-8FEET DL	X4477-09 DL
SV18-35FEET	X4477-10
SV18-35FEET MS	X4477-10 MS
SV18-35FEET MSD	X4477-10 MSD
SV15-35FEET DL	X4477-10 DL
FIELD DUPLICATE No. 3	X4477-11
FIELD DUPLICATE No. 3 DL	X4477-11 DL
Collected 9/13	
SV9-8FEET	X4477-12
SV9-8FEET DL	X4477-12 DL
SV9-30FEET	X4477-13
SV9-30FEET DL	X4477-13 DL
SV11-8FEET	X4477-14
SV11-8FEET DL	X4477-14 DL
SV11-35FEET	X4477-15
SV11-35FEET DL	X4477-15 DL
SV16-8FEET	X4477-16
SV16-8FEET DL	X4477-16 DL
SV16-35FEET	X4477-17
SV16-35FEET DL	X4477-17 DL
SV2-8FEET	X4477-18
SV2-8FEET DL	X4477-18 DL
SV2-35FEET	X4477-19
SV2-35FEET DL	X4477-19 DL

Air samples were validated for analyses of volatile organics by the US EPA Region II checklist. Data were reviewed for usability according to the following criteria:

- Data Completeness
* - GC/MS Tuning
* - Holding Times
- Calibrations
- Laboratory Blanks
- Trip Blanks
- Storage Blank
- Equipment Blank
* - Surrogate Compound Recoveries
- Internal Standard Recoveries
- Matrix Spike / Matrix Spike Duplicate
- Instrument Detection Limits
- Laboratory Control Sample
- Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Instrument detection limits were not found in this sample delivery group.

The problems with the matrix spikes, calibrations, laboratory control samples and internal standards should be noted. These are discussed in detail below.

Spectra for carbon disulfide and all later eluting compounds in sample SV12-25FEET (X4477-06) were not found in the copy of the report submitted for validation.

No other significant problems were found with this sample delivery group, which would affect the usability of the data.

Holding Times

All samples were analyzed within 14 days of collection.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

All surrogate compound recoveries were within the 65% - 135% quality assurance limits.

1-Bromo-4-fluorobenzene was the only surrogate.

Calibrations

The laboratory used a linear regression for the initial calibration for compounds where the %RSD was greater than 15%.

The laboratory used a percent difference calculation when the RSD was used for the initial calibration. They used a percent difference based upon the amount added and calculated amount for all compounds using a linear regression when the %RSD value for a compound was greater than 15%.

The relative response factors reported on the initial calibration summary form for the 10ppbv and 20ppbv standards (page 559) did not agree with the ones reported for the same concentrations on the first summary page of the report (page 557). The mean RRF and %RSD calculated during the validation agreed with those reported on the first page of the summary. The problems with the summary form do not affect the end use of the data.

The percent difference of acetone (38%), 1,1,2,2-tetrachloroethane (35%) and hexachloro1,3-butadiene (35%) were above the 30% quality assurance limit in the 9/21 continuing calibration associated with the analyses of samples 01DL, -02DL, -03DL, -04DL, -10, -12, -12DL, -13, -13DL, -14, -14DL, -15, -15DL, -16, -16DL, -17, -17DL, -18, -18DL, -19 and -19DL.

The percent difference of acetone (40%), methylene chloride (33%) and 1,1,2,2-tetrachloroethane (35%) are above the 30% quality assurance limit in the 9/22 continuing calibration associated with the analysis of samples -05DL, -06DL, -07DL, -08DL, -09DL, -10DL and -11.

The percent difference of cis-1,3-dichloropropene (31%) and 2-hexanone (44%) were above the 30% quality control limit in the 9/16 continuing calibration associated with the analyses of sample -11DL.

Whenever one of these compounds was detected in a sample and the percent difference was less than 50%. it was flagged with the "J" qualifier and should be considered an estimated value.

The RRT for each target compound at each calibration level was within 0.06 RRT units of the mean RRT for the compound.

All RRF's were greater than 0.05.

Matrix Spike and Matrix Spike Duplicate

Sample SV18-35FEET (X4477-10) was used as the matrix spike and matrix spike duplicate. All recoveries and RPDs that could be accurately calculated were within the required quality assurance limits with the following exceptions:

Compound	MS %Rec	MSD %Rec	QC Limits	RPD	Limits
Dichlorotetrafluoroethane		64%	65 – 135%		35%
Acetone	30%	30%	65 – 135%		35%
Ethyl Acetate	-100%	-200%	65 – 135%	67%	35%
Hexane	310%	290%	65 – 135%		35%
Toluene		60%	65 – 135%		35%
m/p-Xylene	46%		65 – 135%	61%	35%
Hexachloro-1,3-butadiene	45%	39%	65 – 135		35%

The matrix spike and matrix spike duplicate were spiked with 10 ppbv of each of the target compounds.

The concentration of ethyl acetate in the sample (270 ppbv) was greater than 4X the concentration added in the spike and the recoveries could not be accurately calculated. The data were not required to be qualified for the spike recoveries.

The compounds with low recoveries, Dichlorotetrafluoroethane, acetone, toluene, m/p xylene and hexachloro-1,3-butadiene were flagged with the "J" qualifier and should be considered estimated values. Low concentrations of these compound may have been overlooked and reported concentrations underestimated.

Hexane was not detected in any of the samples and the high recoveries do not affect the end use of the data.

Laboratory Control Samples

All of the BSL0920 LCS recoveries were within the required limits.

All BSL0921A1 LCS recoveries were within the required quality assurance limits with the following exception:

Compound	MS %Rec	QC Limits
Hexachloro-1,3-butadiene	40%	65 – 135

This laboratory control sample was associated with the analyses of samples -01DL, -02DL, -03DL, -04DL, -10, -12, -12DL, -13, -13DL, -14, -14DL, -15, -15DL, -16, -16DL, -17, -17DL, -18, -18DL, -19 and -19DL.

Hexachloro-1,3-butadiene was flagged with the "J" qualifier and should be considered an estimated value.

All BSL0922A1 LCS recoveries were within the required quality assurance limits with the following exception:

Compound	MS %Rec	QC Limits
Acetone	62%	65 – 135

This laboratory control sample was associated with the analyses of samples -05DL, -06DL, -07DL, -08DL, -09DL, -10DL and -11.

All BSL0925A1 LCS recoveries were within the required quality assurance limits with the following exception:

Compound	MS %Rec	QC Limits
2-Hexanone	148%	65 – 135

This laboratory control sample was associated with the analyses of sample -11DL

This compound was not quantitated from the diluted analysis and the high recovery does not affect the end use of the data..

Method Blanks

Low concentrations of acetone (0.66 ug/M3 / 0.3 ppbv) and tetrachloroethene (1.09 ug/M3 / 0.2J ppbv) were detected in method blank VBL0920. This blank was associated with the undiluted analyses of samples -02, -03, -04, -05, -06, -07, -08 and -09.

Low concentrations of acetone (0.52 ug/M3 / 0.2 ppbv) and 1,2,4-trichlorobenzene (1.04 ug/M3 / 0.1 ppbv) were detected in method blank VBL0922. This blank was associated with the analyses of samples -05DL, -06DL, -07DL, -08DL, -09DL, -10DL and -11.

A low concentration of acetone (0.88 ug/M3 / 0.4 ppbv) was detected in method blank VBL0925 associated with the analyses of sample -11 DL.

No compounds were detected in the VBL0921 method blank.

All of the detected concentrations of these compounds in the associated samples were too high to be affected by the method blank contamination.

Internal Standard Areas and Retention Times

The recoveries and retention times of all internal standards were within the required quality control limits with the following exceptions:

SV14-8FEET	X4477-03
SV14-8FEET DL	X4477-03 DL
SV15-8FEET	X4477-07
SV15-8FEET DL	X4477-07 DL
SV18-8FEET	X4477-09
SV18-8FEET DL	X4477-09 DL
SV14-25FEET DL	X4477-04 DL
SV18-35FEET DL	X4477-10 DL

Samples SV14-8FEET (X4477-03), SV15-8FEET (X4477-07) and SV18-8FEET (X4477-09)

These samples had low recoveries of one or more internal standards (see attached internal standard summary form).

The compounds with the low recoveries were flagged with the "J" qualifier and should be considered estimated values.

Several internal standards were also below the 160% quality assurance limit in the diluted analyses. None of the compounds quantitated in dilutions were quantitated against the affected internal standards.

Samples SV14-25FEET DL (X4477-04 DL) and SV18-35FEET DL (X4477-10 DL)

These samples had low internal standard recoveries in the diluted analyses, but not in the original analyses. None of the compounds quantitated in dilutions were quantitated against the affected internal standards. These low recoveries are most likely a problem with the analytical technique since the more concentrated analyses were not affected.

Instrument Detection limits

Instrument detection limits were not found in this sample delivery group.

Sample Results

Sample SV12-25FEET (X4477-060

Spectra for carbon disulfide and later eluting compounds were not found in the copy of the report submitted for validation.

Sample SV18-35FEET (X4477-10)

Toluene in this sample was at the upper limit of the linear range in the 2X initial analysis (153 ug/M3 / 41 ppbv). It was reanalyzed at a 50X dilution due to a very high concentration of ethyl acetate and the concentration of toluene in the diluted sample was (70 ug/M3 / 18 ppbv).

It is recommended that the higher concentration of toluene be reported from the original analysis since it was right at the upper limit of the linear range and would be more accurate than a 50X dilution.

No other problems were found with the reported results of any of the samples of this delivery group.

SUMMARY OF THE ANALYTICAL DATA USABILITY
New Cassel

Air Volatile Organic Analyses – Method TO-15
Samples Collected September 19th & 20th, 2004
Samples Received September 22, 2006
Sample Delivery Group: X4547
Laboratory Reference Numbers:

Collected 9/19	
SV31-8FEET	X4547-01
SV31-8FEET DL	X4547-01 DL
SV31-40FEET	X4547-02
SV31-40FEET DL	X4547-02 DL
SV32-8FEET	X4547-03
SV32-8FEET DL	X4547-03 DL
SV32-40FEET	X4547-04
SV32-40FEET DL	X4547-04 DL
SV33-8FEET	X4547-05
SV33-8FEET DL	X4547-05 DL
SV33-40FEET	X4547-06
SV33-40FEET DL	X4547-06 DL
Collected 9/20	
SV28-8FEET	X4547-07
SV28-8FEET DL	X4547-07 DL
SV28-40FEET	X4547-08
SV28-40FEET DL	X4547-08 DL
SV29-8FEET	X4547-09
SV29-8FEET DL	X4547-09 DL
SV29-35FEET	X4547-10
SV29-35FEET DL	X4547-10 DL
SV35-8FEET	X4547-11
SV35-8FEET DL	X4547-11 DL
SV35-40FEET	X4547-12
SV35-40FEET DL	X4547-12 DL
SV17-8FEET	X4547-13
SV17-8FEET DL	X4547-13 DL
SV17-8FEET MS	X4547-13 MS
SV17-8FEET MSD	X4547-13 MSD
SV14-40FEET	X4547-14
SV14-40FEET DL	X4547-14 DL
SV27-8FEET	X4547-15
SV27-40FEET	X4547-16
SV27-40FEET DL	X4547-16 DL
FIELD DUPLICATE	X4547-17

Air samples were validated for analyses of volatile organics by the US EPA Region II checklist. Data were reviewed for usability according to the following criteria:

- Data Completeness
* - GC/MS Tuning
- Holding Times
- Calibrations
- Laboratory Blanks
- Trip Blanks
- Storage Blank
- Equipment Blank
* - Surrogate Compound Recoveries
- Internal Standard Recoveries
- Matrix Spike / Matrix Spike Duplicate
- Instrument Detection Limits
- Laboratory Control Sample
- Compound Identification
- Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Toluene was reported as undetected in the original analysis of sample SV14-40FEET (X4547-14), but 900 ug/M3 / 240 ppbv was detected in the 20X dilution. A peak for this compound was present in both the original and diluted spectra. The laboratory should address the reason for this discrepancy.

Sample SV27-40FEET (X4547-16) was reanalyzed at a 60X dilution due to a high concentration of propene. Propene was also above the linear range in the 60X dilution, 3,808 ug/M3 / 2,200 ug/M3. The data for this compound should be considered highly estimated.

Samples SV33-40FEET (X4547-06) and SV28-40FEET (X4547-08) were reanalyzed at a 20x dilution even though all of the compounds were within the linear range in the original analyses. It is not known why the samples werereanlyzed. All of the quality control parameters for these samples were within the required ranges. The data from the initial analyses should be used for the final reporting.

Instrument detection limits were not found in this sample delivery group.

The problems with the matrix spikes, calibrations, laboratory control samples, method blanks and internal standards should be noted. These are discussed in detail below.

No other significant problems were found with this sample delivery group, which would affect the usability of the data.

Phase 2
Chain-of-Custody

NEW CHAIN
W/ CLARKE
DATA

Centek Laboratories, LLC — **Chain of Custody**

143 Midler Park Drive
Syracuse, NY 13206
Phone: 315-431-9730 Fax: 315-431-9731 Emergency: 315-416-2751 / 416-2752

Site Name: W.T Clark H.S.
Project: New Cassel LI
PO#:
Other:

Detection Limit: ☐ 5ppbv ☑ 1ug/M3 ☐ 1ug/M3 +TCE .25
Report Level: ☐ Level I ☐ Level II ☐ Cat "B" Like

Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☑	0%	
4 Business Days	☐	35%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
Next Day by 5pm	☐	100%	
Next Day by Noon	☐	150%	
Same Day	☐	200%	

Company: O'Brien & Gere
Report: Jeff Banikowski
5000 Brittonfield Pkwy
E. Syracuse, NY 13057
Phone: 315-437-6100
Fax: 315-463-7554
Email: BanikoJE@obg.com

Company: SAME
Invoice:
Phone:
Fax:
Email:

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Comments	Vacuum " Hg Start/Stop
IA-B-1-091407	9/14/07	101	42	TO-15		29 / 10
IA-B-2-091407		413	156			30 / 17
IA-B-3-091407		158	152			30 / 13
IA-FF-1-091407		427 ~~300~~	297			30 / 13
IA-FF-2-091407		336	121			30 / 11
IA-FF-3-091407		87	449			30 / 14
Amb-1-091407		471	302			30 / 2

Chain of Custody	Print Name	Signature	Date/Time	Courier:
Sampled by:	Christopher Finke	Christopher Finke		
Relinquished by:	Christopher Finke	Christopher Finke	9/14/07	1307
Received at Lab by:	M. Palmer	M. Palmer	9/14/07	13:07

www.CentekLabs.com

ATTACHMENT B2

Phase 2
DUSR

SUMMARY OF THE ANALYTICAL DATA USABILITY
For WT Clark HS, New Cassel VI

Air Volatile Organic Analyses
Samples Collected September 14, 2007
Samples Received September 17, 2007
Sample Delivery Group: C0709023
Laboratory Reference Numbers:

IA-B-1-091407	C0709023-001
IA-B-1-091407 DL	C0709023-001 DL
IA-B-2-091407	C0709023-002
IA-B-2-091407 DL	C0709023-002 DL
IA-B-3-091407	C0709023-003
IA-B-3-091407 DL	C0709023-003 DL
IA-FF-1-091407	C0709023-004
IA-FF-1-091407 DL	C0709023-004 DL
IA-FF-2-091407	C0709023-005
IA-FF-2-091407 DL	C0709023-005 DL
IA-FF-3-091407	C0709023-006
IA-FF-3-091407 DL	C0709023-006 DL
AMB-1-091407	C0709023-007
AMB-1-091407 DL	C0709023-007 DL

Air samples were validated for analyses of volatile organics by the US EPA Region II checklist. Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - GC/MS Tuning
* - Holding Times
* - Calibrations
* - Laboratory Blanks
- Field Blank
- Trip Blanks
- Storage Blank
* - Surrogate Compound Recoveries
* - Internal Standard Recoveries
- Matrix Spike / Matrix Spike Duplicate
- Laboratory Control Sample
- Instrument Detection Limits
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA USABILITY SUMMARY

The low recovery of benzyl chloride (66%) in the laboratory control sample should be noted.

No other significant problems were found with this sample delivery group, which would affect the usability of the data.

Holding Times

All samples were analyzed within 30 days of the date of collection.

Surrogate Recoveries

All recoveries were reported as within the 70% - 130% quality assurance limits Bromofluorobenzene was used as the only surrogate.

Tunes

The tune summaries (FORM V) were not found in the copy of the reposts submitted for validation. The information from these forms was reviewed from the raw data and instrument run logs.

No other problems were detected with the tunes associated with the samples of this delivery group.

Calibrations

No problems were found with the initial or continuing calibrations. All RSDs and percent differences were less than 30%.

All RRFs of the target compounds were greater than 0.05.

Matrix Spike / Matrix Spike Duplicate

A matrix spike and matrix spike duplicate were not analyzed with this sample delivery group.

Laboratory Control Sample

All recoveries were within the reported quality control limits (70% -130%) with the exception of benzyl chloride (66%) associated with the analyses of all of the samples.

This compound was not detected in any of the samples and the data were flagged with the "J" qualifier. IT is possible that low concentrations of these compound were overlooked.

The laboratory control sample was not analyzed in duplicate.

Field Duplicate

A field blank was not analyzed with this sample delivery group.

Method Blanks

None of the target compounds were detected in any of the method blanks at concentrations above the PQLs.

Holding Blank

A holding blank was not analyzed with this sample delivery group.

Internal Standard Areas and Retention Times

All of the internal standard recoveries were within the 60% - 140% quality control limits.

Instrument Detection Limits

The instrument detected limits were determined 9 months prior to the analysis of the samples. The NYS DEC ASP program requires that these be determined every 6 months.

No other problems were found with the instrument detection limits.

Sample Results

No problems were found with the reported results of any of the samples of this delivery group.

ATTACHMENT B

Daily Field Reports

ATTACHMENT C

Air Monitoring Logs

ATTACHMENT D

Sample Point Coordinates

New Cassel OU-4
Sample Point Coordinates

Station	Depth Ft BGS	Type	North Coordinate	East Coordinate
VP-1	8	SOIL VAPOR POINT	214403	1107946
VP-1	25	SOIL VAPOR POINT-D	214399	1107948
VP-2	8	SOIL VAPOR POINT	213557	1107830
VP-2	35	SOIL VAPOR POINT-D	213560	1107831
VP-3	8	SOIL VAPOR POINT	214134	1107593
VP-3	25	SOIL VAPOR POINT-D	214137	1107594
VP-4	8	SOIL VAPOR POINT	214149	1107410
VP-4	35	SOIL VAPOR POINT-D	214147	1107407
VP-5	8	SOIL VAPOR POINT	214380	1107339
VP-5	35	SOIL VAPOR POINT-D	214383	1107341
VP-6	8	SOIL VAPOR POINT	214211	1106750
VP-6	35	SOIL VAPOR POINT-D	214210	1106751
VP-7	8	SOIL VAPOR POINT	213321	1107009
VP-7	23	SOIL VAPOR POINT-D	213316	1107010
VP-8	8	SOIL VAPOR POINT	213823	1106356
VP-8	25	SOIL VAPOR POINT-D	213826	1106357
VP-9	8	SOIL VAPOR POINT	214351	1106348
VP-9	30	SOIL VAPOR POINT-D	214350	1106346
VP-10	8	SOIL VAPOR POINT	213790	1105887
VP-10	30	SOIL VAPOR POINT-D	213794	1105884
VP-11	8	SOIL VAPOR POINT	214039	1105866
VP-11	35	SOIL VAPOR POINT-D	214039	1105868
VP-12	8	SOIL VAPOR POINT	212977	1105983
VP-12	25	SOIL VAPOR POINT-D	212976	1105984
VP-13	8	SOIL VAPOR POINT	212220	1106025
VP-13	21	SOIL VAPOR POINT-D	212218	1106026
VP-14	8	SOIL VAPOR POINT	212456	1105807
VP-14	25	SOIL VAPOR POINT-D	212454	1105809
VP-15	8	SOIL VAPOR POINT	213526	1105478
VP-15	35	SOIL VAPOR POINT-D	213525	1105480
VP-16	8	SOIL VAPOR POINT	213950	1105562
VP-16	35	SOIL VAPOR POINT-D	213949	1105559
VP-17	8	SOIL VAPOR POINT	215218	1105014
VP-17	40	SOIL VAPOR POINT-D	215215	1105015
VP-18	8	SOIL VAPOR POINT	213392	1105300
VP-18	35	SOIL VAPOR POINT-D	213392	1105301
VP-19	8	SOIL VAPOR POINT	213372	1104959
VP-19	30	SOIL VAPOR POINT-D	213374	1104959
VP-20	8	SOIL VAPOR POINT	213101	1105206
VP-20	30	SOIL VAPOR POINT-D	213102	1105204
VP-21	8	SOIL VAPOR POINT	211947	1105620
VP-21	23	SOIL VAPOR POINT-D	211949	1105618
VP-22	8	SOIL VAPOR POINT	211653	1105259
VP-22	23	SOIL VAPOR POINT-D	211655	1105255
VP-23	8	SOIL VAPOR POINT	211476	1104857
VP-23	24	SOIL VAPOR POINT-D	211478	1104856
VP-24	8	SOIL VAPOR POINT	211911	1104478
VP-24	25	SOIL VAPOR POINT-D	211907	1104479
VP-25	8	SOIL VAPOR POINT	212274	1104915
VP-25	27	SOIL VAPOR POINT-D	212277	1104912
VP-26	8	SOIL VAPOR POINT	213037	1104849

Station	Depth Ft BGS	Type	North Coordinate	East Coordinate
VP-26	30	SOIL VAPOR POINT-D	213039	1104850
VP-27	8	SOIL VAPOR POINT	214103	1104570
VP-27	40	SOIL VAPOR POINT-D	214107	1104571
VP-28	8	SOIL VAPOR POINT	214063	1104062
VP-28	40	SOIL VAPOR POINT-D	214067	1104062
VP-29	8	SOIL VAPOR POINT	213607	1103923
VP-29	35	SOIL VAPOR POINT-D	213608	1103924
VP-30	8	SOIL VAPOR POINT	212564	1104255
VP-30	30	SOIL VAPOR POINT-D	212564	1104253
VP-31	8	SOIL VAPOR POINT	214313	1103751
VP-31	40	SOIL VAPOR POINT-D	214313	1103752
VP-32	8	SOIL VAPOR POINT	214501	1103445
VP-32	40	SOIL VAPOR POINT-D	214503	1103445
VP-33	8	SOIL VAPOR POINT	214587	1103169
VP-33	40	SOIL VAPOR POINT-D	214587	1103168
VP-34	8	SOIL VAPOR POINT	214240	1103253
VP-34	40	SOIL VAPOR POINT-D	214235	1103253
VP-35	8	SOIL VAPOR POINT	213623	1103661
VP-35	40	SOIL VAPOR POINT-D	213622	1103661
VP-36	8	SOIL VAPOR POINT	213348	1103216
VP-36	32	SOIL VAPOR POINT-D	213346	1103215
VP-37	8	SOIL VAPOR POINT	214312	1102776
VP-37	35	SOIL VAPOR POINT-D	214314	1102775
VP-38	8	SOIL VAPOR POINT	214811	1102183
VP-38	40	SOIL VAPOR POINT-D	214811	1102181
11E13N	0	CONTROL	211345	1104112
CHSNE	0	BLDG COR	212283	1105007
CHSSWW	0	BLDG COR	211569	1104687
MW	0	MONITORING WELL	212953	1106013
MW-14a	0	MONITORING WELL	214583	1107258

Datum: New York State Plane NAD83 Long Island, Feet

Note: Suvey was conducted 8/22-8/23/06 with a rented Trimble Pro XRS which has submeter accuracy under ideal conditions

ATTACHMENT E

Chain of Custody

ATTACHMENT F

Data Validation

INSERT NANCY POTAK – VALIDATION DATA