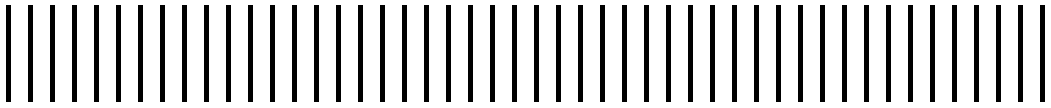
New York State Department of Environmental Conservation

Site Characterization Report

APPENDIX

D

IDW Manifests



0266374 / ALB

MALCOLM PIRNIE

20587

NON-HAZARDOUS WASTE MANIFEST

B1019582

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
	N/A	091395	1

3. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany, NY 12205

4. Generator's Phone (518-402-9022

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
Maumee Express Inc.	NJD986607380	B. Transporter 1 Phone 267-590-0042
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
TIER De, Inc.	PAR000043752	D. Transporter 2 Phone (717) 442-4400

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
VEXOR Technology, Inc. 955 West Smith Road Medina, OH 44256	OHD077772895	F. Facility's Phone 330-721-9773

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Regulated Material (Soil) Non RCRA/ Non DOT	XX2	DM	1000	P
b. Non Regulated Material (Water) Non RCRA/ Non DOT	XX1	DM	400	P
c. Non Regulated Material (PPE and Debris) Non RCRA/ Non DOT	XX1	DM	300	P
d.				

G. Additional Descriptions for Materials Listed Above
1.)
2.)
3.)

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Christine Thomas / FOR NYSDEC	Christine Thomas / FOR NYSDEC	10	28	09

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials		Date Month	Day	Year
Printed/Typed Name: JOE SWISTKOWSKI	Signature	10	28	09
18. Transporter 2 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name: Mark S. Kowalsky	Signature	10	30	09

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

NON-HAZARDOUS WASTE MANIFEST B2119661

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CESQG

Manifest Document No.: 091595

2. Page 1 of 1

3. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany NY 12205

4. Generator's Phone ( ) 845-859-1630

5. Transporter 1 Company Name: Maumee Express Inc

6. US EPA ID Number: NJD986607380

7. Transporter 2 Company Name: TIER 52, INC

8. US EPA ID Number: [illegible]

9. Designated Facility Name and Site Address
VEXOR Technology, Inc
955 West Smith Road
Medina, OH 44256

10. US EPA ID Number: OHD077772895

A. State Transporter's ID

B. Transporter 1 Phone: 267-590-0042

C. State Transporter's ID

D. Transporter 2 Phone

E. State Facility's ID

F. Facility's Phone: 330-721-9773

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Regulated Material (Soil cuttings), Non RCRA / Non DOT	XVI	DM	[illegible]	P
b. Non Regulated Material (Decon water) Non RCRA / Non DOT	XV2	DM	[illegible]	P
c.				
d.				

900 300

G. Additional Descriptions for Materials Listed Above
1.) VEX1063
2.) VEX16808

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name | Signature | Date: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month 12 Day 16 Year 09

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name | Signature | Date: Month Day Year

GENERATOR — TRANSPORTER — FACILITY — NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Document No. 10269	2. Page 1 of 1

3. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany, NY 12205

4. Generator's Phone (518) 402 9622

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
Maumee Express Inc.	NJD086607380	B. Transporter 1 Phone 267-580-0042
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	E. State Facility's ID
VEXOR Technology, Inc. 955 West Smith Road Medina, OH 44256	OHD077772885	F. Facility's Phone 330 721 0773

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Regulated Material (Soil) Non RCRA/ Non DOT	36	DM	10,000	P
b. Non Regulated Material (Water) Non RCRA/ Non DOT	1	DM	200	P
c.				
d.				

G. Additional Descriptions for Materials Listed Above
1.) VEX1083
2.) VEX16808

H Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Kristine Thoma. FOR NYSDEC	[signature] FOR NYSDEC	03	04	10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Nick TOEBBE	[signature]	03	09	10

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

NON-HAZARDOUS WASTE MANIFEST

BR011920

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Document No.: 11269
2. Page 1 of 1

3. Generator's Name and Mailing Address: NYSDEC, 625 Broadway, Albany, NY 12206
4. Generator's Phone (518) 402 9622

5. Transporter 1 Company Name: Maumee Express Inc
6. US EPA ID Number: NJD986607380
A. State Transporter's ID
B. Transporter 1 Phone: 267 590 0042

7. Transporter 2 Company Name: TIER DE INC
8. US EPA ID Number: PAR000457752
C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address: VEXOR Technology, Inc, 955 West Smith Road, Medina, OH 44256
10. US EPA ID Number: OHD077772895
E. State Facility's ID
F. Facility's Phone: 330 721 9773

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Regulated Material (Soil) Non RCRA/ Non DOT	36	DM	10,000	P
b. Non Regulated Material (Water) Non RCRA/ Non DOT	1	DM	200	P
c.				
d.				

GENERATOR

G. Additional Descriptions for Materials Listed Above
1.) VEX1083
2.) VEX16808

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

3rd Transporter: Eldredge Inc. 610 436 4749
Steve Curley 11MAR10

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: [illegible] AS AGENT FOR NYSDEC | Signature: [illegible] | Date: Month [illegible] Day 09 Year 10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Rick Treible | Signature: [signature] | Date: Month 03 Day 09 Year 10

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19

Printed/Typed Name | Signature | Date: Month Day Year

NON-HAZARDOUS WASTE

13248

NON-HAZARDOUS WASTE MANIFEST

BR019945

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Document No.: 10306

2. Page 1 of 1

3. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany, NY 12205

4. Generator's Phone (518-402-9622

5. Transporter 1 Company Name: Maumee Express Inc.

6. US EPA ID Number: NJD986607380

A. State Transporter's ID

B. Transporter 1 Phone: 267-580-0042

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
VEXOR Technology, Inc.
955 West Smith Road
Medina, OH 44256

10. US EPA ID Number: OHD077772885

E. State Facility's ID

F. Facility's Phone: 330-721-9773

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Regulated Material (Soil) Non RCRA/ Non DOT	22	DM	11,000	P
b. ~~Non Regulated Material (Water) Non RCRA/ Non DOT~~	X	DM	X	P X
c.				
d.				

G. Additional Descriptions for Materials Listed Above
1.) VEX1063
2.) VEX16808

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Jerrid Shoemaker for NYSDEC	Jerrid Shoemaker for NYSDEC	3 / 16 / 10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
Henry Trumble	[signature]	3 / 16 / 10

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Date (Month / Day / Year)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Document No.: 18637

2. Page 1 of 1

3. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany, NY 12205

4. Generator's Phone ( ) 518 402 8622

5. Transporter 1 Company Name

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
VEXOR Technology, Inc.
955 West Smith Road
Medina, OH 44256

10. US EPA ID Number
OHD077772885

E. State Facility's ID

F. Facility's Phone 330 721 9773

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Regulated Material (Water) Non RCRA/ Non DOT	1	DM	400	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
1.) VEX1680B

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: [illegible] FOR NYSDEC

Signature: [illegible] FOR NYSDEC

Date: Month 05 Day 20 Year 10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible]

Signature: [illegible]

Date: Month [illegible] Day [illegible] Year [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name

Signature

Date: Month Day Year

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. _____

Carrier No. _____

Page _____ **of** _____

TIER DE
(Name of carrier) (SCAC)

Date 5/20/10

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO:
Consignee TIER DE

Street

City CRAO State PA Zip Code

FROM:
Shipper Muldon Trade, Inc

Street S

City White Plains NY State Zip Code

24 hr. Emergency Contact Tel. No. _____

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTON Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
12		55 STEEL OPEN TOP DRUMS				

PLACARDS TENDERED: YES ☐ NO ☐

Note – (1) Where the rate is dependent on value, shippeers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3)Commodities requiring special or additional care or attention in handling or stowing must be so marked a nd packaged as to ensure safe transportation. See section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Chris Dunn FOR NYSDEC

PER 5-20-10

CARRIER TIER

PER [signature]

DATE 5-20-10

3

Permanent post-office address of shipper

New York State Department of Environmental Conservation

Site Characterization Report

APPENDIX

E

Analytical Laboratory Forms – Chemtech

0266374 / ALB

MALCOLM PIRNIE

New York State Department of Environmental Conservation

Site Characterization Report

APPENDIX

F

DUSR – Data Validation Services

0266374 / ALB

MALCOLM PIRNIE

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
Facsimile 518-251-4428

February 13, 2010

Christine Thomas
Malcolm Pirnie, Inc.
855 Rt. 146 Suite 210
Clifton Park, NY 12065

RE: Hauppauge Area Wide site
Data Usability Summary Report (DUSR)
Chemtech SDGs A4864, A4933, A5027, A5059, A5110, A5192, A5342, and A5391

Dear Ms. Thomas:

Review has been completed for the data packages generated by Chemtech that pertain to samples collected 10/26/09 through 12/02/09 at the Hauppauge Area Wide site. Forty-four aqueous samples processed for TCL volatiles, TAL metals, and filtered TAL metals. Three of the samples were processed were analyzed for chloride, ammonia, and nitrate. Five soil samples were processed for TCL volatiles, TCL semivolatiles, TCL PCBs, TCL pesticides, and TAL metals. Field duplicates were also analyzed. Mcthodologies utilized are those of the USEPA SW846 6000/7000/8000.

The data packages submitted contained full deliverables for validation, but this usability report is primarily generated from review of the summary form information, with full review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, with consideration of the requirements of the project QAPP and the specific methodologies. The following items were reviewed:

* Laboratory Narrative Discussion
* Case Narratives
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration Blanks
* Matrix Spiked Blanks/Laboratory Control Samples
* Instrumental Tunes
* Calibration/CRI/CRA Standards
* ICP Interference Check Standards
* ICP Serial Dilution Correlations

* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for this level of review.

In summary, most results for the samples are usable as reported, or usable with minor qualification due to sample matrix or to processing outliers. However, mercury results in both fractions of six aqueous samples and a field duplicate are not usable due to instrument sensitivity.

Copies of the laboratory sample identification and analytical requirement summaries are attached. Also included with this report are validation qualifier definitions and red-ink qualified hardcopy client results tables.

Sample identifications within this report are preceded by the suffix "HPG-".

The following text discusses quality issues of concern.

Chain-of-custody/Sample Receipt

The second page of the custodies for samples reported in A5059 does not show the time of receipt. This entry is present on the first page of the custodies.

Some of the samples were received by the laboratory three days after collection, beyond the limit of two days. Sample condition at receipt was acceptable, and technical holding times were met. There is no apparent impact on the integrity of the sample results.

Field Duplicates

Blind field duplicate evaluations were performed for volatile and total metals on CB-23(126-130), for volatile and filtered metals on CB-12(101-105), and for full TCL/full TAL on CB-27(46.5-49.5). All correlations are within guidelines.

The frequency of aqueous field duplicates do not meet the 5% requirements. However, those that were processed show very good correlations, indicating a general homogenous nature to the project samples.

TCL Volatiles by EPA 8260B

All non-detected results for the trip blank reported in A4933 are rejected due to outlying analysis holding time. The trip blank was filled more than a month before the associated samples were collected.

Because the vials were received with small air bubbles, all results for CB-05(126-130) are qualified as estimated, with a possible low bias.

Detections of methylene chloride in the samples reported in A5110 are considered external contamination, due to presence in the associated trip blank. Those detections have been edited to reflect non-detection.

CB-12(116-120), CB-12(101-105), and CB-GW-X2 produced low responses for surrogate d8-toluene; matrix effect was confirmed by reanalysis. The initial results for these samples are to be used, with all results qualified as estimated in value, with a possible low bias.

The results for 2-hexanone in CB-23(100-104), and for 1,1-dichloroethene in CB-30(111-115) and CB-30(96-100) are qualified as tentative in identification and estimated in value due to poor spectral quality.

The matrix spikes of CB-23(111-113), CB-18(101-105), CB-28(26.5-20.5), and CB-32-44.5-46.5 show acceptable recoveries and duplicate correlations (or elevated correlations for analytes not detected in the samples). An additional set of aqueous matrix spikes should have been processed to meet the required QC frequency. Batch QC was reported for some of the SDGs.

The results for 1,2-dibromoethane and o-xylene in CB-33(111-115) are to be qualified as estimated due to outlying recoveries in the associated LCS (both 75%, below 80%).

The calibration standard responses were acceptable, with the following exceptions, results for which are qualified, in the indicated associated samples:

- acetone (low RRF) in samples reported in A4864
- tetrachloroethene (22%D and 30%D) in CB-GW-X3, CB-6(115-119), CB-21(126-130), CB-20(126-130), and CB-20(111-115)
- the detection of MTBE (24%D) in CB-30(111-115)

Tentatively Identified Compound (TIC)s that are identified and reported with a CAS number should have been flagged by the laboratory as "N" to indicate a tentative identification.

Semivolatile Analyses by EPA8270C

The detections of dimethylphthalate in project samples are considered external contamination due to the presence in the associated method blank. Those results have been edited to reflect non-detection.

The matrix spikes of CB-30(28-30) and CB-28(26.5-20.5) show recoveries and duplicate correlations within recommended limits.

Calibrations standard responses were within laboratory and validation guidelines.

Tentatively Identified Compounds (TICs) that are identified and reported with a CAS number should have been flagged by the laboratory as "N" to indicate a tentative identification. TICs flagged as "B" or "A" by the laboratory are considered external contamination (indicated by presence in associated blanks), and are rejected as sample components.

TCL Pesticides and PCBs Analyses by EPA8081A and EPA 8082

The reporting limit non-detected result of methoxychlor in CB-X3 is qualified. There are responses on both analytical columns that may be within the elution window for that analyte. The instrument output provided is not adequate for verification of that reprted non-detection.

Matrix spikes of pesticides in CB-32(44.5-46.5) and CB-28(26.5-20.5), and of Aroclors 1016 and 1260 in CB-28(26.5-20.5) show acceptable accuracy and precision. Elevated duplicate correlations were observed with the Aroclors, but the variance was also observed with the surrogate recoveries, indicating a possible extract anamoly. Recoveries of surrogates and Aroclors in those spikes are within the recommended ranges.

Calibration standards show acceptable correlations, and blanks show no contamination.

TAL Metals by 6010B, 7470, and 7471

Calibration and low-level (CRI/CRA) standard responses are acceptable, with the exception of the lack of recovery for mercury in the CRA associated with SDG A4933. Results for the total and filtered fractions of six samples and field duplicate reporting non-detection in that SDG are therefore not usable (rejected).

Blanks show no contamination above the reporting limits.

The matrix spike/laboratory duplicate accuracy and precision determinations were performed on CB-23(111-115)-Total, CB-18(101-105)-Total, CB-27(32-36)-Total and Filtered, CB-24(126-130)-Total and Filtered ,CB-21(96-100)-Filtered, CB-32-44.5-46.5, CB-28-26.5-29.5, and mercury on CB-27(36-40) and CB-24(101-105). Although most recoveries are within recommended limits, the following outliers were observed, with qualifications as indicated:

- detections of aluminum (252%) and chromium (148%) qualified estimated in samples reported in A4864 and A4933.
- mercury (46% to 50%) qualified estimated in samples of A5027
- calcium (73%) qualified estimated in samples of A5059
- aluminum (62%) qualified estimated in samples of A5110
- detections of aluminum and chromium (246% to 166%) qualified estimated in samples reported in A5342

The ICP serial dilution determinations for the total fractions of CB-23(111-115), CB-24(126-130), and CB-18(101-105), the filtered fraction of CB-21(96-100), and the total and filtered fractions of CB-27(32-36) and CB-6(115-119) show acceptable correlations. The serial dilution evaluation for mercury on CB-27(36-40) was also acceptable.

The ICP serial dilution evaluation of CB-32-44.5-46.5 shows elevated correlations for aluminum, iron, and manganese (11%D to 16%D). Detections for those elements in the samples reported in SDG A5342 are qualified as estimated, with a possible low bias.

The ICP serial dilution evaluation of CB-28-26.5-29.5 shows an elevated correlation for aluminum (17%D). Detections for that element in the samples reported in SDG A5391 are qualified as estimated, with a possible low bias.

The laboratory should have flagged QC summary forms and sample results forms with the "E" flag indicating outlying serial dilution correlations.

Total and filtered fraction quantitative values correlate well.

The client IDs on the metals report forms in data package A5027 do not distinguish between the total and filtered fractions. They can be resolved with the laboratory ID numbers on those forms.

Data package Forms 1 show too many significant figures for results with quantitative values below 10 ug/L. They are shown with three figures to the right of the decimal point; actual results are not that accurate.

Wet Chemistry Analyses

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to the procedure. All were found to be acceptable unless noted below.

All nitrate results are qualified as estimated, with a low bias, due to outlying holding time for unpreserved samples.

The matrix spike/laboratory duplicate accuracy and precision determinations were performed on CB-30(96-100) and CB-05(118-122) (the latter for chloride only), and show acceptable accuracy and precision.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Judy Harry

Att.

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs and CASE NARRATIVES

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
HPG-CB-01 (111-115)	A4864-01	8260B				6010B, 7470A	
HPG-CB-01 (111-115)F	A4864-02					6010B, 7470A	
TRIPBLANK	A4864-03	8260B					
HPG-CB-01 (126-130)	A4864-04	8260B				6010B, 7470A	
HPG-CB-01 (126-130)F	A4864-05					6010B, 7470A	
HPG-CB-03 (126-130)	A4864-06	8260B				6010B, 7470A	
HPG-CB-03 (126-130)F	A4864-07					6010B, 7470A	
HPG-CB-33 (126-130)	A4864-08	8260B				6010B, 7470A	
HPG-CB-33 (126-130)F	A4864-09					6010B, 7470A	
HPG-CB-33 (111-115)	A4864-10	8260B				6010B, 7470A	
HPG-CB-33 (111-115)F	A4864-11					6010B, 7470A	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
TRIPBLANK	A4933-01	8260B					
HPG-CB-23 (126-130)	A4933-02	8260B				6010B, 7470A	
HPG-CB-23 (126-130)F	A4933-03					6010B, 7470A	
HPG-CB-GW-X1	A4933-04	8260B				6010B, 7470A	
HPG-CB-23 (111-115)	A4933-06	8260B				6010B, 7470A	
HPG-CB-23 (111-115)F	A4933-09					6010B, 7470A	
HPG-CB-23 (100-104)	A4933-10	8260B				6010B, 7470A	
HPG-CB-23 (100-104)F	A4933-11					6010B, 7470A	
HPG-CB-08 (126-130)	A4933-12	8260B				6010B, 7470A	
HPG-CB-08 (126-130)F	A4933-13					6010B, 7470A	
HPG-CB-28(46-50)	A4933-14	8260B				6010B, 7470A	
HPG-CB-28(46-50)F	A4933-15					6010B, 7470A	
HPG-CB-28(35-39)	A4933-16	8260B				6010B, 7470A	
HPG-CB-28(35-39)F	A4933-17					6010B, 7470A	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
HPG-CB-27 (36-40)	A5027-01	8260B				6010B, 7470A	
HPG-CB-27 (32-36)	A5027-02	8260B				6010B, 7470A	
HPG-CB-26 (66-70)	A5027-03	8260B				6010B, 7470A	
HPG-CB-26 (51-55)	A5027-04	8260B				6010B, 7470A	
HPG-CB-26 (36-40)	A5027-05	8260B				6010B, 7470A	
HPG-CB-11 (126-130)	A5027-06	8260B				6010B, 7470A	
HPG-CB-11 (118-122)	A5027-07	8260B				6010B, 7470A	
HPG-CB-10 (126-130)	A5027-08	8260B				6010B, 7470A	
HPG-CB-10 (116-120)	A5027-09	8260B				6010B, 7470A	
HPG-CB-6 (126-130)	A5027-10	8260B				6010B, 7470A	
HPG-CB-6 (115-119)	A5027-11	8260B				6010B, 7470A	
HPG-CB-21 (126-130)	A5027-12	8260B				6010B, 7470A	
HPG-CB-27 (36-40)	A5027-13					6010B, 7470A	
HPG-CB-27 (32-36)	A5027-14					6010B, 7470A	
HPG-CB-26 (66-70)	A5027-15					6010B, 7470A	
HPG-CB-26 (51-55)	A5027-16					6010B, 7470A	
HPG-CB-26 (36-40)	A5027-17					6010B, 7470A	
HPG-CB-11 (126-130)	A5027-18					6010B, 7470A	
HPG-CB-11 (118-122)	A5027-19					6010B, 7470A	

HPG-CB-10 (126-130)	A5027-20					6010B. 7470A	
HPG-CB-10 (116-120)	A5027-21					6010B, 7470A	
HPG-CB-6 (126-130)	A5027-22					6010B, 7470A	
HPG-CB-6 (115-119)	A5027-23					6010B, 7470A	
HPG-CB-21 (126-130)	A5027-24					6010B, 7470A	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
HPG-CB-21 (111-115)	A5059-01	8260B				6010B, 7470A	
HPG-CB-21 (111-115)F	A5059-02					6010B, 7470A	
HPG-CB-21 (96-100)	A5059-03	8260B				6010B, 7470A	
HPG-CB-21 (96-100)F	A5059-04					6010B, 7470A	
HPG-CB-12 (116-120)	A5059-05	8260B				6010B, 7470A	
HPG-CB-12 (116-120)F	A5059-06					6010B, 7470A	
HPG-CB-12 (101-105)	A5059-07	8260B				6010B, 7470A	
HPG-CB-12 (101-105)F	A5059-08					6010B, 7470A	
HPG-CB-GW-X2-F	A5059-09					6010B, 7470A	
TRIPBLANK	A5059-10	8260B					
HPG-CB-GW-X2	A5059-11	8260B					
HPG-CB-12 (86-90)	A5059-12	8260B				6010B, 7470A	
HPG-CB-12 (86-90)F	A5059-13					6010B, 7470A	
HPG-CB-18 (116-120)	A5059-14	8260B				6010B, 7470A	
HPG-CB-18 (116-120)F	A5059-15					6010B, 7470A	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
HPG-CB-18 (101-105)	A5110-01	8260B				6010B, 7470A	
HPG-CB-18 (101-105)F	A5110-04					6010B, 7470A	
HPG-CB-05 (126-130)	A5110-05	8260B				6010B, 7470A	300, SM4500-NH3
HPG-CB-05 (126-130)F	A5110-06					6010B, 7470A	
HPG-CB-05 (118-122)	A5110-07	8260B				6010B, 7470A	300, SM4500-NH3
HPG-CB-05 (118-122)F	A5110-08					6010B, 7470A	
HPG-CB-17 (101-105)	A5110-09	8260B				6010B, 7470A	
HPG-CB-17 (101-105)F	A5110-10					6010B, 7470A	
TRIPBLANK	A5110-11	8260B					
HPG-CB-20 (126-130)	A5110-12	8260B				6010B, 7470A	
HPG-CB-20 (126-130)F	A5110-13					6010B, 7470A	
HPG-CB-20 (111-115)	A5110-14	8260B				6010B, 7470A	
HPG-CB-20 (111-115)F	A5110-15					6010B, 7470A	
HPG-CB-20 (97-101)	A5110-16	8260B				6010B, 7470A	
HPG-CB-20 (97-101)F	A5110-17					6010B, 7470A	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
HPG-CB-24 (126-130)	A5192-01	8260B				6010B, 7470A	
HPG-CB-24 (126-130)F	A5192-02					6010B, 7470A	
HPG-CB-24 (111-115)	A5192-03	8260B				6010B, 7470A	
HPG-CB-24 (111-115)F	A5192-04					6010B, 7470A	
HPG-CB-24 (101-105)	A5192-05	8260B				6010B, 7470A	
HPG-CB-24 (101-105)F	A5192-06					6010B, 7470A	
HPG-CB-30 (126-130)	A5192-07	8260B				6010B, 7470A	
HPG-CB-30 (126-130)F	A5192-08					6010B, 7470A	
HPG-CB-30 (111-115)	A5192-09	8260B				6010B, 7470A	
TRIPBLANK	A5192-10	8260B					
HPG-CB-30 (111-115)F	A5192-11					6010B, 7470A	
HPG-CB-30 (96-100)	A5192-12	8260B				6010B, 7470A	300, SM4500-NH3
HPG-CB-30 (96-100)F	A5192-13					6010B, 7470A	
HPG-CB-30 (48-52)	A5192-14	8260B				6010B, 7470A	
HPG-CB-30 (48-52)F	A5192-15					6010B, 7470A	
HPG-CB-32 (48-52)	A5192-16	8260B				6010B, 7470A	
HPG-CB-32 (48-52)F	A5192-17					6010B, 7470A	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
HPG-CB-32-44.5-46.5	A5342-01	8260B	8270C		8081A, 8082	6010B, 7471A	Chemtech -SOP
HPG-CB-30-28-30	A5342-02	8260B	8270C		8081A, 8082	6010B, 7471A	Chemtech -SOP
HPG-CB-30-39-41	A5342-03	8260B	8270C		8081A, 8082	6010B, 7471A	Chemtech -SOP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
HPG-CB-28 (26.5-29.5)	A5391-01	8260B	8270C		8081A, 8082	6010B, 7471A	Chemtech - SOP
HPG-CB-X3	A5391-04	8260B	8270C		8081A, 8082	6010B, 7471A	Chemtech - SOP
HPG-CB-27 (26.5-29.5)	A5391-05	8260B	8270C		8081A, 8082	6010B, 7471A	Chemtech - SOP

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A4864

A. Number of Samples and Date of Receipt:
11 Water samples were received on 10/28/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA F were done using GC column RTX624, which is 75 meters, 0.53 ID, 3.0 df, Restek Cat. #10974. The Trap was supplied by Supelco, VOCARB 3000, Tekmar 2000 Concentrator.
The analysis of TCL Volatiles - 10 was based on method 8260B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD recoveries met criteria except for Chloromethane, Methyl Acetate and 2-Butanone.
The Blank Spike met requirements for all samples except for o-Xylene and 1,2-Dibromoethane.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration File ID VF020085.D met the requirements except for 4-Methyl-2-Pentanone, t-1,3-Dichloropropene, 2-Hexanone, Acetone and 2-Butanone but it is not present in the sample.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2009.11.17 16:42:19 -05'00'

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A4864

A. Number of Samples and Date of Receipt:
11 Water samples were received on 10/28/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL and Dissolved Mercury.

C. Analytical Techniques:
The analysis of DISSOLVED METALS-TAL was based on method 6010B, Mercury was based on method 7470A, Metals ICP-TAL was based on method 6010B and Dissolved Mercury was based on method 7470A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A4933

A. Number of Samples and Date of Receipt:
17 Water samples were received on 10/31/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.
The analysis of VOC-TCLVOA-10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis except for TRIPBLANK.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria except for t-1,3-Dichloropropene and cis-1,3-dichloropropene.
The Blank Spike met requirements for all samples except for Dichlorodifluoromethane, Acetone and Trichlorofluoromethane.
The Blank analysis did not indicate the presence of lab contamination.
The % RSD for Dibromochloromethane and Dichlorodifluoromethane in the initial calibration dated 11/04/09 with instrument G are above 15 %.These compounds are passing on linear regressions, however in this case they were left on average response factor because their plot were in the Y-axis.
The % RSD for 2-Hexanone, Bromomethane, Dibromofluoromethane, Ethylbenzene and Tetrachloroethene.in the initial calibration dated 11/09/09 with instrument G are above 15 %.These compounds are passing on linear regressions, however in this case they were left on average response factor because their plot were in the Y-axis.
The Calibration File ID VG022687.D met the requirements except for Acetone and Dichlorodifluoromethane. The Calibration File ID VG022739.D met the requirements

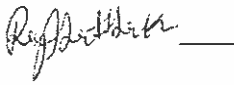
except for Chloromethane, Acetone , Dichlorodifluoromethane and

Trichlorofluoromethane.

The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature  Kalpana Raythattha
I have reviewed this document
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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A4933

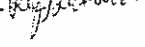
A. Number of Samples and Date of Receipt:
17 Water samples were received on 10/31/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Dissolved ICP-TAL Metals, Dissolved Mercury, Mercury and Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Dissolved ICP-TAL Metals was based on method 6010B, Dissolved Mercury was based on method 7470A, Mercury was based on method 7470A and Metals ICP-TAL was based on method 6010B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples except for Aluminum, Chromium and Iron.
The Matrix Spike analysis met criteria for all samples except for Aluminum and Chromium.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements except for Aluminum.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature  Kalpana Raythattha
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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5027

A. Number of Samples and Date of Receipt:
24 Water samples were received on 11/6/09.

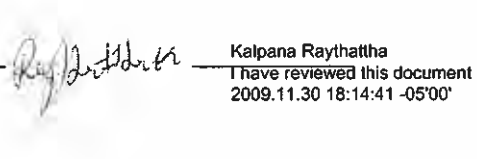
B. Parameters
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.
The analysis of TCL Volatiles - 10 was based on method 8260B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD recoveries met criteria except for Carbon Tetrachloride.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration File ID VG022803.D met the requirements except for Trichlorofluoromethane but it is not present in the sample..
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5027

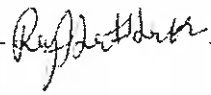
A. Number of Samples and Date of Receipt:
24 Water samples were received on 11/6/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Dissolved Mercury, DISSOLVED METALS-TAL, Mercury and Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Dissolved Mercury was based on method 7470A, DISSOLVED METALS-TAL was based on method 6010B, Mercury was based on method 7470A and Metals ICP-TAL was based on method 6010B

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples except for Mercury.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature  Kalpana Raythattha
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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5059

A. Number of Samples and Date of Receipt:
15 Water samples were received on 11/11/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID. 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.The analysis performed on instrument MSVOA F were done using GC column RTX624, which is 75 meters, 0.53 ID, 3.0 df, Restek Cat. #10974. The Trap was supplied by Supelco, VOCARB 3000, Tekmar 2000 Concentrator.
The analysis of VOC-TCLVOA-10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for HPG-CB-12(116-120), HPG-CB-12(101-105), HPG-CB-GW-X2, HPG-CB-GW-X2RE, HPG-CB-12(101-105)RE and HPG-CB-12(116-120)RE.
The Internal Standards Areas met the acceptable requirements except for HPG-CB-12(116-120)RE, HPG-CB-12(101-105)RE and HPG-CB-GW-X2RE.
The Retention Times were acceptable for all samples.
The RPD recoveries met criteria except for Chloroethane.
The Blank Spike met requirements for all samples except for Chloroethane, Acetone, 1,2-Dibromoethane and 1,1,2,2-Tetrachloroethane but they were not detected in Samples.
The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 15% in the Initial Calibration (Method 82F111409W.M) for Chloromethane and Chloroethane. These compounds are kept of Average response factor.
The Tuning criteria met requirements.
The %RSD is greater than 15% in the Initial Calibration (Method 82G111609W.M) for Dichlorodifluoromethane, 4-Methyl-2-Pentanone, 2-Hexanone, Ethylbenzene, 1,4-Dichlorobenzene, Dibromochloromethane and 1,2-Dibromo-3-chloropropane. These compounds are kept of Average response factor.

The Continuing Calibration met the requirements except for Chloromethane, Vinyl Chloride, Methyl Acetate, Acetone, Bromomethane, Chloroethane, Methylene Chloride, 4-Methyl-2-Pentanone and 1,1,2,2-Tetrachloroethane but they were not detected in Samples.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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Signature____ Mildred V Reyes

Mildred V. Reyes
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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5059

A. Number of Samples and Date of Receipt:
15 Water samples were received on 11/11/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury. DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Dissolved ICP-TAL Metals, Dissolved Mercury, Mercury and Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Dissolved ICP-TAL Metals was based on method 6010B, Dissolved Mercury was based on method 7470A. Mercury was based on method 7470A and Metals ICP-TAL was based on method 6010B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5110

A. Number of Samples and Date of Receipt:
17 Water samples were received on 11/13/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.
The analysis of VOC-TCLVOA-10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis indicated presence of Methylene Chloride (1.2ug/kg,File ID:VG022966.D) due to possible lab contamination.
The %RSD is greater than 15% in the Initial Calibration (Method 82G111809W.M) for Chloroethane, Benzene, 4-Methyl-2-Pentanone, 2-Hexanone, Tetrachloroethene , Ethyl benzene, m&p-Xylene , Bromoform , 1.4-Dichlorobenzene, 1,3-Dichlorobenzene and 1.2-Dichlorobenzene. These compounds are kept of Average response factor.
The %RSD is greater than 15% in the Initial Calibration (Method 82G111909W.M) for Bromomethane. These compounds are kept of Average response factor.
The ICV met the requirements except for Dichlorodifluoromethane.
The Continuing Calibration met the requirements except for Dibromochloromethane but it was not detected in samples.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5110

A. Number of Samples and Date of Receipt:
17 Water samples were received on 11/13/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Dissolved ICP-TAL Metals, Dissolved Mercury, Mercury and Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Dissolved ICP-TAL Metals was based on method 6010B, Dissolved Mercury was based on method 7470A, Mercury was based on method 7470A and Metals ICP-TAL was based on method 6010B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples except for Aluminum.
The Matrix Spike Duplicate analysis met criteria for all samples except for Aluminum.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5110

A. Number of Samples and Date of Receipt:
17 Water samples were received on 11/13/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Ammonia and Anions Group1.

C. Analytical Techniques:
The analysis of Ammonia was based on method SM4500-NH3 and Anions Group1 was based on method 300

D. QA/ QC Samples:
The Holding Times were met for all analysis except for HPG-CB-05(126-130) and HPG-CB-05(118-122) for Nitrate
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples except for Chloride.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5192

A. Number of Samples and Date of Receipt:
17 Water samples were received on 11/19/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria except for Acetone and Methyl Acetate.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 15% in the Initial Calibration (Method 82G111909W.M) for Bromomethane. These compounds are kept of Average response factor.
The ICV met the requirements except for Dichlorodifluoromethane.
The Continuing Calibration met the requirements except for Chloromethane, Dibromochloromethane, Bromomethane, Chloroethane, Trichlorofluoromethane, Methyl Tert-butyl Ether, Methylene Chloride, Chloroform, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dichloroethane, Bromodichloromethane, t-1,3-Dichloropropene and cis-1,3-dichloropropene.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5192

A. Number of Samples and Date of Receipt:
17 Water samples were received on 11/19/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Dissolved ICP-TAL Metals, Dissolved Mercury, Mercury and Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Dissolved ICP-TAL Metals was based on method 6010B, Dissolved Mercury was based on method 7470A, Mercury was based on method 7470A and Metals ICP-TAL was based on method 6010B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ Mildred V Reyes

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5192

A. Number of Samples and Date of Receipt:
17 Water samples were received on 11/19/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Anions Group1 and Ammonia.

C. Analytical Techniques:
The analysis of Anions Group1 was based on method 300 and Ammonia was based on method SM4500-NH3

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples except for Chloride.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
Sample HPG-CB-30(96-100) was diluted due to high concentration for Chloride.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5342

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 12/1/09.

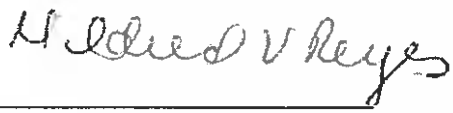
B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA K were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap . OI 4560 Concentrator.
The analysis of VOC-TCLVOA-10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria except for 2-Butanone and 2-Hexanone.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 15% in the Initial Calibration (Method 82K120109S.M.) for Acetone. This compound is kept of Average response factor.
The ICV (File ID:VK036380.D ,Method 82K120109S.M.) met the requirements except for Methyl Acetate and Acetone.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5342

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 12/1/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA F using GC Column RTX-5 SILMS which is 20 meters, 0.18 mm ID, 0.36 um df, Catalog # 42704.
The analysis of SVOC-TCL BNA -20 was based on method 8270 and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples except for 4-Chloroaniline but it was not detected in samples..
The Blank analysis indicated presence of Dimethylphthalate (180ug/kg,File ID:BF033298.D) due to possible lab contamination.
The Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5342

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 12/1/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, and VOC-TCLVOA-10. This data package contains results for Pesticide-TCL.

C. Analytical Techniques:
The analyses were performed on instrument GCECD 1. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5um df, serial no:174078.
The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, serial no:174700
The analysis of Pesticides was based on method 8081 and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The CCAL01 met the requirements except for Endosulfan I and Tetrachloro-m-xylene are failing in 1st Column but passing in 2nd Column. The CCAL02 met the requirements except for Endosulfan I and Decachlorobiphenyl are failing in 1st Column but passing in 2nd Column.

E. Additional Comments:
I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee. as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5342

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 12/1/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, and VOC-TCLVOA-10. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD 6. The front column is RTX-CLPest which is 30 meters, 0.32 mm ID, 0.5 um df,Catalog # 11139. The rear column is RTX-CLPestII which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog # 11324.
The analysis of PCBs was based on method 8082 and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The CCAL01 met the requirements except for Aroclor-1016 (Peak 1 & 5) are failing in 1st Column but passing in 2nd Column While Aroclor-1016 (Peak 2) is failing in 2nd Columnbut passing in 1st Column.
The CCAL06 met the requirements except for Aroclor-1016 (Peak 5) is failing in both Column, Tetrachloro-m-xylene is failing in 1st Column but passing in 2nd Column and Aroclor-1016 (Peak 1 & 4), Decachlorobiphenyl are failing in 2nd Column but passing in 1st Column.
The CCAL07 met the requirements except for Decachlorobiphenyl is failing in both Columns and Aroclor-1016 (Peaks 1,4 & 5) are failing in 2nd Column but passing in 1st Column.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5342

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 12/1/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL and Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010B and Mercury was based on method 7471A

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples except for Barium and Iron.
The Duplicate analysis met criteria for all samples except for Manganese.
The Matrix Spike analysis met criteria for all samples except for Aluminum and Manganese.
The Matrix Spike Duplicate analysis met criteria for all samples except for Aluminum and Manganese.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements except for Aluminum, Iron and Manganese.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness. for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.01.03 20:21:56 -05'00'

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5391

A. Number of Samples and Date of Receipt:
5 Solid samples were received on 12/3/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA K were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI 4560 Concentrator.
The analysis of VOC-TCLVOA-10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria except for Dichlorodifluoromethane, Vinyl Chloride, Bromomethane, Trichlorofluoromethane, Acetone, Methyl Tert-butyl Ether, Methyl Acetate, Methylene Chloride, t-1,2-Dichloroethene, 1,1-Dichloroethane, 4-Methyl-2-Pentanone and 2-Hexanone.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 15% in the Initial Calibration (Method 82K120109S.M) for Acetone. This compound is kept of Average response factor.
The ICV met the requirements except for Methyl Acetate and Acetone.
The Continuing Calibration met the requirements except for Methyl Acetate, 2-Butanone, 4-Methyl-2-Pentanone and 2-Hexanone but they were not detected in Samples.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5391

A. Number of Samples and Date of Receipt:
5 Solid samples were received on 12/3/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA F using GC Column RTX-5 SILMS which is 20 meters, 0.18 mm ID, 0.36 um df, Catalog # 42704.
The analysis of SVOC-TCL BNA -20 was based on method 8270 and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis indicated presence of Dimethylphthalate (160ug/kg,File ID:BF033337.D) due to possible lab contamination.
The Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5391

A. Number of Samples and Date of Receipt:
5 Solid samples were received on 12/3/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, TAL ICP Metals, TAL Metals, PCBs, TCL Pesticides, SVOC-TCL BNA -20, and TCL Volatiles+10. This data package contains results for TCL Pesticides.

C. Analytical Techniques:

The analyses were performed on instrument GCECD 1. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5um df, serial no:174078.
The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, serial no:174700

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria except for Endrin aldehyde.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
The Calibration CCAL01 met the requirements except for Decachlorobiphenyl and Tetrachloro-m-xylene in first column but they are passing in 2nd column. The Calibration CCAL2 met the requirements except for Decachlorobiphenyl in 1st column and Dieldrin, Endrin and 4,4-DDT in 2nd column.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.01.04 11:09:06 -05'00'

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
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2010.01.04 11:08:54 -05'00'

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5391

A. Number of Samples and Date of Receipt:
5 Solid samples were received on 12/3/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, TAL ICP Metals, TAL Metals, PCBs, TCL Pesticides, SVOC-TCL BNA -20, and TCL Volatiles+10. This data package contains results for PCBs.

C. Analytical Techniques:
The analyses were performed on instrument GCECD 6. The front column is RTX-CLPest which is 30 meters, 0.32 mm ID, 0.5 um df,Catalog # 11139. The rear column is RTX-CLPestII which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog # 11324.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria except for Aroclor-1016 and Aroclor-1260.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
The Calibration CCAL01 met the requirements except for Decachlorobiphenyl in 2nd column.The Calibration CCAL02met the requirements except for Decachlorobiphenyl.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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Mildred V. Reyes
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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # A5391

A. Number of Samples and Date of Receipt:
5 Solid samples were received on 12/3/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, and VOC-TCLVOA-10. This data package contains results for Mercury and Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Mercury was based on method 7471A and Metals ICP-TAL was based on method 6010B

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements except for Aluminum, Iron and Manganese.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
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QUALIFIED CLIENT RESULTS TABLES

Summary of Groundwater Data (VOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-01(111-115)	CB-01(126-130)	CB-03(126-130)	CB-08(126-130)	CB-23(100-104)	CB-23(111-115)
Sampling Date	Standard or	10/26/2009	10/26/2009	10/27/2009	10/29/2009	10/29/2009	10/29/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs							
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	0.7 J	3.7
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	50	5 U	5 U	5 U	5 U	7.6	5 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	2.5 J UJ	5 U
4-Methyl-2-Pentanone		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50*	5 U UJ	5 U UJ	5 U UJ	5 U	30	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Acetate		1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1 U	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane		1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
* - Guidance Value
** - Sum of these analytes cannot exceed 0.4 ug/l
U - Compound was not detected, Reporting Limit is provided.
J- Concentration is an approximate value.
UJ - Compound was not detected, Reporting Limit is estimated.
Highlighted cells exceed NYSDEC Class GA standard or guidance value.

Summary of Groundwater Data (VOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-23(126-130)	CB-GW-X1: CB-23(126-130)	CB-28(35-39)	CB-28(46-50)	CB-33(126-130)	CB-33(111-115)
Sampling Date	Standard or	10/29/2009	10/29/2009	10/30/2009	10/30/2009	10/27/2009	10/27/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs							
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	5.7	5.6	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	5	1 U	1 U	1 U	1 U	1 U	1 U UJ
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	50	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50*	5 U	5 U	4.8 J	5 U	5 U UJ	5 U UJ
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Acetate		1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1.4	1.2	1 U	1 U	1 U	1 U
Methylcyclohexane		1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U UJ
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1.1	1 U UJ	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	0.82 J	0.71 J	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
* - Guidance Value
** - Sum of these analytes cannot exceed 0.4 ug/l
U - Compound was not detected, Reporting Limit is provided.
J - Concentration is an approximate value.
UJ - Compound was not detected, Reporting Limit is estimated.
Highlighted cells exceed NYSDEC Class GA standard or guidance value.

Summary of Groundwater Data (VOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-27(36-40)	CB-27(32-36)	CB-26(66-70)	CB-26(51-55)	CB-26(36-40)	CB-11(126-130)
Sampling Date	Standard or	11/3/2009	11/3/2009	11/3/2009	11/3/2009	11/3/2009	11/4/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs							
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	50	5 U	5 U	5 U	5 J	4.7 J	4.9 J
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50*	5 U	6.7	5.9	6.4	5 U	7.1
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	15	9.6	1 U	1 U	0.59 J	1 U
Chloromethane		1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Acetate		1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1 U	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane		1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1.1	0.87 J	0.54 J
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
* - Guidance Value
** - Sum of these analytes cannot exceed 0.4 ug/l
U - Compound was not detected, Reporting Limit is provided.
J- Concentration is an approximate value.
UJ - Compound was not detected, Reporting Limit is estimated.
Highlighted cells exceed NYSDEC Class GA standard or guidance value.

Summary of Groundwater Data (VOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-11(118-122)	CB-10(126-130)	CB-10(116-120)	CB-6(126-130)	CB-6(115-119)	CB-21(126-130)
Sampling Date	Standard or	11/4/2009	11/5/2009	11/5/2009	11/5/2009	11/6/2009	11/6/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs							
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1 U	0.91 J
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	50	5 U	5 U	5 U	5 J	5.1	4.8 J
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50*	10	6.4	6.2	7.3	8.5	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	0.53 J	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Acetate		1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1 U	1 U	1 U	1 U	1 U	0.59 J
Methylcyclohexane		1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	0.81 J	0.86 J	1.1	1.1	1.2	0.86 J
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1.3	1 U	1 U	1 U	1 UUJ	1 UUJ
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1.7	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
* - Guidance Value
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Highlighted cells exceed NYSDEC Class GA standard or guidance value.

Summary of Groundwater Data (VOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-21(111-115)	CB-21(96-100)	CB-12(116-120)	CB-12(101-105)	CB-GW-X2; CB-12(101-105)	CB-12(86-90)
Sampling Date	Standard or	11/9/2009	11/9/2009	11/10/2009	11/10/2009	11/10/2009	11/10/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs							
1,1,1-Trichloroethane	5	1 U	1 U	1 UJ	1 UJ	1 UJ	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	50	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	2
cis-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Acetate		1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1 U	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane		1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
* - Guidance Value
** - Sum of these analytes cannot exceed 0.4 ug/l
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J- Concentration is an approximate value.
UJ - Compound was not detected, Reporting Limit is estimated.
Highlighted cells exceed NYSDEC Class GA standard or guidance value

Summary of Groundwater Data (VOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-18(116-120)	CB-18(101-105)	CB-05(126-130)	CB-05(118-122)	CB-17(101-105)	CB-20(126-130)	CB-20(111-115)
Sampling Date	Standard or	11/10/2009	11/11/2009	11/11/2009	11/11/2009	11/12/2009	11/12/2009	11/12/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs								
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50*	5 U	15	5 U	5 U	5 U	5 U	14
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	0.54 J	0.72 J
cis-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Acetate		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1 U	1 U	1 U	1 U	1 U	1 U	0.51 J
Methylcyclohexane		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 0.52 J U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	2.4	1 U	1 U	1 U	1 U	7.2 J	7.5 J
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	5.7	7.5
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
* - Guidance Value
** - Sum of these analytes cannot exceed 0.4 ug/l
U - Compound was not detected, Reporting Limit is provided
J - Concentration is an approximate value.
UJ - Compound was not detected, Reporting Limit is estimated.
Highlighted cells exceed NYSDEC Class GA standard or guidance value

Summary of Groundwater Data (VOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-20(97-101)	CB-24(101-105)	CB-24(111-115)	CB-24(126-130)	CB-30(48-52)	CB-30(96-100)	CB-30(111-115)
Sampling Date	Standard or	11/12/2009	11/16/2009	11/16/2009	11/16/2009	11/17/2009	11/17/2009	11/17/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs								
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1 U	3.5	3.4
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1.1	1.7
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	0.79 J	1.4
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50*	14	5 U	15	5 U	13	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	0.51 J
Chloromethane		1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1.7	1.8
cis-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Acetate		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1 U	1 U	1 U	1 U	1 U	0.85 J	0.94 J
Methylcyclohexane		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	6.4	1 U	1 U	1 U	9.9	13
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	0.74 J	1 U	1 U	17	19
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
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J - Concentration is an approximate value.
UJ - Compound was not detected, Reporting Limit is estimated.
Highlighted cells exceed NYSDEC Class GA standard or guidance value

Summary of Groundwater Data (VOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-30(126-130)	CB-32(48-52)	TRIP BLANK	TRIP BLANK	TRIPBLANK	TRIPBLANK	TRIPBLANK
Sampling Date	Standard or	11/17/2009	11/18/2009	9/18/2009	10/26/2009	11/10/2009	11/12/2009	11/17/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs								
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	2.2	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	0.75 J	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 J	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50*	6.9	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1.2	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Acetate		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	0.84 J	1 U	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1.2	1 U	1 U	1 U	1.4
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	3.9	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	12	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
* - Guidance Value
** - Sum of these analytes cannot exceed 0.4 ug/l
U - Compound was not detected. Reporting Limit is provided
J- Concentration is an approximate value.
UJ - Compound was not detected, Reporting Limit is estimated.
Highlighted cells exceed NYSDEC Class GA standard or guidance value.

Summary of Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-01(111-115)	CB-01(111-115)F	CB-01(126-130)	CB-01(126-130)F	CB-03(126-130)	CB-03(126-130)F	CB-08(126-130)	CB-08(126-130)F	CB-23(100-104)	CB-23(100-104)F
Sampling Date	Standard or	10/26/2009	10/26/2009	10/26/2009	10/26/2009	10/27/2009	10/27/2009	10/29/2009	10/29/2009	10/29/2009	10/29/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals											
Aluminum	NS	1,590	19.8 J	5,670	19.3 J	3,810	32.2 J	2,340	33.6 J	17,200	24.6 J
Antimony	3	25 U	25 U	25 U	25 U	31.3	25 U	25 U	25 U	16.6 J	25 U
Arsenic	25	10 U	10 U	10 U	10 U	68.4	10 U	10 U	10 U	48.3	10 U
Barium	1,000	31.5 J	17.7 J	82.5	36.6 J	58.8	50 U	36.2 J	17.6 J	256	30.3 J
Beryllium	3	3 U	3 U	3 U	3 U	0.76 J	3 U	3 U	3 U	1.63 J	3 U
Cadmium	5	3 U	3 U	3 U	3 U	3.12	3 U	3 U	3 U	4.63	3 U
Calcium	NS	7,170	7,280	11,600	12,200	11,100	11,300	7,850	7,530	19,200	16,600
Chromium	50	136 J	5 U	149 J	5 U	1,850 J	5 U	163 J	1.98 J	1,310 J	5 U
Cobalt	NS	15 U	15 U	8.19 J	15 U	38.3	15 U	5.86 J	15 U	47.4	13.5 J
Copper	200	43.9	10 U	51.2	10 U	1,270	10 U	31.2	10 U	1,110	10 U
Iron***	300	9,210	250	32,600	4,530	244,000	1,220	24,200	1,880	170,000	16,500
Lead	25	7.04	3.77 J	21	6 U	27	3.27 J	12.6	3.32 J	57.1	3.44 J
Magnesium*	35,000	1,980	1,720	4,680	3,790	3,970	3,120	3,720	3,250	8,940	4,880
Manganese***	300	283	92	768	409	1,850	545	418	217	4,140	2,190
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	~~0.2 U~~	~~0.2 U~~	~~0.2 U~~	~~0.2 U~~
Nickel	100	106	9.05 J	68.4	22	1,280	70.1	68.8	13.8 J	713	76.2
Potassium	NS	2,170	1,890	2,880	1,990	2,210	1,720	1,510	1,040	5,570	2,750
Selenium	10	10 U	10 U	10 U	10 U	7 J	10 U	10 U	10 U	8.67 J	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	20,000	20,500	14,000	14,500	17,400	16,600	10,700	10,900	10,400	9,150
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	8.12 J	20 U	21.8	20 U	20.2	20 U	9.55 J	20 U	65	20 U
Zinc*	2,000	972	232	613	354	27,100	1,340	259	87.1	18,300	1,930

* Guidance Value
***Sum of these compounds can not exceed 300 ug/L.
U - The compound was not detected at the indicated concentration.
J - The concentration given is an approximate value.
F - Filtered sample.
Highlighted cells exceed NYSDEC Class GA standard or guidance value.

Summary of Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-23(111-115)	CB-23(111-115)F	CB-23(126-130)	CB-23(126-130)F	CB-GW-X1	CB-28(35-39)	CB-28(35-39)F	CB-28(46-50)	CB-28(46-50)F	CB-33(126-130)
Sampling Date	Standard or	10/29/2009	10/29/2009	10/29/2009	10/29/2009	10/29/2009	10/30/2009	10/30/2009	10/30/2009	10/30/2009	10/27/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals											
Aluminum	NS	3,160 J	29 J	2320 J	121 J	2160 J	13000 J	22.3 J	17900 J	26.4 J	4,770 J
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	10 U	10 U	10 U	10 U	10 U	5.68 J	10 U	7.07 J	10 U	10 U
Barium	1,000	40.2 J	11.7 J	112	91.8	108	229	50.6	326	38.3 J	133
Beryllium	3	3 U	3 U	3 U	3 U	3 U	1.1 J	3 U	1.39 J	3 U	3 U
Cadmium	5	3 U	3 U	3 U	3 U	3 U	1.29 J	3 U	1.96 J	3 U	3 U
Calcium	NS	10,900	10,600	12,800	12,800	12,800	10,800	9,030	8,310	6,900	18,400
Chromium	50	233 J	5 U	250 J	5 U	222 J	677 J	5 U	459 J	5 U	261 J
Cobalt	NS	7.17 J	15 U	15 U	15 U	15 U	39.8	9.84 J	56.2	6.99 J	9.72 J
Copper	200	68.6	10 U	38.2	10 U	33.7	145	10 U	111	10 U	71.8
Iron***	300	26,000	2,080	14,700	1,940	13,700	69,000	5,810	71,600	2,460	38,800
Lead	25	15.4	6 U	10.3	6 U	9.08	41.2	4.23 J	57.6	6 U	23.9
Magnesium*	35,000	6,150	5,320	6,600	6,150	6,410	4,240	1,550	5,140	1,660	7,130
Manganese***	300	949	402	477	324	461	3,350	1,390	5,570	1,240	904
Mercury	0.7	~~0.2 U~~ R	~~0.2 U~~ R	~~0.2 U~~ R	~~0.2 U~~ R	~~0.2 U~~ R	~~0.2 U~~ R	~~0.2 U~~ R	~~0.2 U~~ R	~~0.2 U~~ R	0.2 U
Nickel	100	107	11.9 J	120	15.7 J	106	349	33.9	209	19.4 J	114
Potassium	NS	2,090	1,210	2,180	1,710	2,130	4,510	2,280	4,580	2,120	3,510
Selenium	10	10 U	10 U	5.58 J	10 U	10 U	7.02 J	10 U	8.03 J	10 U	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	10,700	10,200	19,900	19,800	19,600	13,300	12,200	24,700	25,800	30,800
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	12.5 J	20 U	7.5 J	20 U	8.11 J	34.5	20 U	45.5	20 U	15.8 J
Zinc*	2,000	912	83.1	470	139	423	1350	260	538	92	541

* Guidance Value
***Sum of these compounds can not exceed
U - The compound was not detected at the
J - The concentration given is an approxima
F - Filtered sample.
Highlighted cells exceed NYSDEC Class G/

Summary of Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-33(126-130)F	CB-33(111-115)	CB-33(111-115)F	CB-27(36-40)	CB-27(36-40)F	CB-27(32-36)	CB-27(32-36)F	CB-26(66-70)	CB-26(66-70)F
Sampling Date	Standard or	10/27/2009	10/27/2009	10/27/2009	11/3/2009	11/3/2009	11/3/2009	11/3/2009	11/3/2009	11/3/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals										
Aluminum	NS	15.5 J	13,200	22.8 J	4,750	43.9 J	8,670	37.9 J	13,700	21 J
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	10 U	11.1	10 U	10 U	10 U	10 U	10 U	6.23 J	10 U
Barium	1,000	77.3	176	47.7 J	98.6	76.9	79.6	36.7 J	189	13 J
Beryllium	3	3 U	1.23 J	3 U	3 U	3 U	0.71 J	3 U	1.06 J	3 U
Cadmium	5	3 U	0.5 J	3 U	3 U	3 U	3 U	3 U	0.85 J	3 U
Calcium	NS	18,900	15,400	15,000	16,800	14,800	11,400	8,300	4,930	4,150
Chromium	50	5 U	301	5 U	260	5 U	123	5 U	229	5 U
Cobalt	NS	15 U	19	15 U	15 U	15 U	6.46 J	15 U	21.6	15 U
Copper	200	10 U	107	10 U	54.1	10 U	39.7	10 U	76.6	10 U
Iron***	300	6,410	65,900	3,210	14,100	518	17,000	1,070	39,100	106
Lead	25	3.68 J	38.1	2.85 J	12.5	6.2	16.3	4.1 J	39.8	4.08 J
Magnesium*	35,000	6,600	6,780	4,070	3,860	2,820	3,430	1,760	4,820	1,520
Manganese***	300	633	1,550	533	700	389	1,010	316	6,130	705
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
Nickel	100	29.2	117	16.6 J	182	9.24 J	88	6.18 J	209	9.48 J
Potassium	NS	2,790	4,160	2,150	3,910	3,780	3,040	2,210	3,480	1,390
Selenium	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	7.32 J	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	31,700	25,400	24,900	15,900	17,200	9,480	9,450	12,700	12,300
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	20 U	49.7	20 U	9.69 J	20 U	15.5 J	20 U	36.9	20 U
Zinc*	2,000	133	661	106	485	60.2	128	30.1	172	14.5 J

* Guidance Value
***Sum of these compounds can not exceed
U - The compound was not detected at the
J - The concentration given is an approxima
F - Filtered sample.
Highlighted cells exceed NYSDEC Class G

Summary of Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-26(51-55)	CB-26(51-55)F	CB-26(36-40)	CB-26(36-40)F	CB-11(126-130)	CB-11(126-130)F	CB-11(118-122)	CB-11(118-122)F	CB-10(126-130)
Sampling Date	Standard or	11/3/2009	11/3/2009	11/3/2009	11/3/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/5/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals										
Aluminum	NS	13,800	21.4 J	9,530	30.4 J	4,570	30.8 J	4,690	19.3 J	2,360
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	10 U	10 U	4.64 J	10 U	6.2 J	10 U	5.4 J	10 U	10 U
Barium	1,000	181	38.5 J	141	80.4	49.3 J	7.91 J	57.5	16.1 J	41.8 J
Beryllium	3	1.32 J	3 U	0.77 J	3 U	0.92 J	3 U	3 U	3 U	3 U
Cadmium	5	1.15 J	3 U	0.67 J	3 U	3 U	3 U	3 U	3 U	3 U
Calcium	NS	10,600	9,990	19,600	19,700	4,350	3,900	8,560	8,590	15,100
Chromium	50	358	5 U	317	5 U	730	5 U	554	5 U	126
Cobalt	NS	18.1	15 U	13.2 J	15 U	10.6 J	15 U	14.8 J	15 U	15 U
Copper	200	143	10 U	108	14.2	167	10 U	114	13.5	50.8
Iron***	300	53,600	2,330	36,200	4,290	35,700	632	30,700	1,250	18,200
Lead	25	41.6	3.58 J	25.4	4.96 J	25	5.38 J	23.2	7.14	13.1
Magnesium*	35,000	4,690	2,260	5,160	3,940	3,330	2,050	4,970	3,580	7,810
Manganese***	300	3,110	1,420	1,740	773	675	188	682	189	466
Mercury	0.7	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
Nickel	100	184	18.9 J	178	18.5 J	488	8.77 J	359	9.97 J	80.9
Potassium	NS	4,090	1,930	4,380	3,310	1,700	797 J	1,900	928 J	1,270
Selenium	10	6.94 J	10 U	5.14 J	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	23,900	24,200	98,900	105,000	6,420	6,240	10,100	10,400	8,870
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	33.1	20 U	20.8	20 U	29	20 U	24.1	20 U	12.4 J
Zinc*	2,000	631	72.4	519	105	189	27.6	143	33.2	70.5

* Guidance Value
***Sum of these compounds can not exceed
U - The compound was not detected at the
J - The concentration given is an approxima
F - Filtered sample.
Highlighted cells exceed NYSDEC Class G

Summary of Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-10(126-130)F	CB-10(116-120)	CB-10(116-120)F	CB-6(126-130)	CB-6(126-130)F	CB-6(115-119)	CB-6(115-119)F	CB-21(126-130)	CB-21(126-130)F
Sampling Date	Standard or	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals										
Aluminum	NS	18.6 J	3,090	25 J	20,200	28.3 J	3,810	19 J	9,300	32.9 J
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	1,000	25 J	59.3	31.2 J	206	46 J	110	77	116	45 J
Beryllium	3	3 U	3 U	3 U	2.46 J	3 U	3 U	3 U	0.97 J	3 U
Cadmium	5	3 U	3 U	3 U	3.56	3 U	3 U	3 U	0.84 J	3 U
Calcium	NS	15,100	7,990	7,330	15,500	17,600	16,100	15,600	12,600	11,700
Chromium	50	5 U	414	5 U	937	5 U	166	5 U	410	5 U
Cobalt	NS	15 U	11 J	15 U	23.8	15 U	7.81 J	15 U	11.8 J	15 U
Copper	200	10.3	65	10 U	365	15.4	89	14.7	94.2	10 U
Iron***	300	482	22,800	1,320	155,000	9,890	31,200	4,980	45,000	4,640
Lead	25	6.31	16.3	4.79 J	66.1	5.27 J	15.2	5.35 J	30.5	3.9 J
Magnesium*	35,000	7,210	4,140	3,210	11,000	7,820	9,050	8,070	5,960	3,580
Manganese***	300	186	627	287	2,080	838	978	736	1,040	511
Mercury	0.7	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
Nickel	100	6.38 J	231	7.28 J	322	40.3	72.6	21.4	180	14.2 J
Potassium	NS	833 J	3,040	2,360	4,850	2,120	2,710	1,900	3,720	1,990
Selenium	10	10 U	10 U	10 U	8.98 J	10 U	10 U	10 U	5.41 J	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	9,020	81,100	78,300	34,200	33,300	62,000	60,500	38,500	36,500
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	20 U	16.1 J	20 U	74.9	20 U	14.4 J	20 U	29.3	20 U
Zinc*	2,000	16.5 J	78.3	12.1 J	1,040	81.9	397	99.1	123	28.3

* Guidance Value
***Sum of these compounds can not exceed
U - The compound was not detected at the
J - The concentration given is an approxima
F - Filtered sample.
Highlighted cells exceed NYSDEC Class G

Summary of Groundwater Data (metals)
Hauppauge Area Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-21(111-115)	CB-21(111-115)F	CB-21(96-100)	CB-21(96-100)F	CB-12(116-120)	CB-12(116-120)F	CB-12(101-105)	CB-12(101-105)F	CB-GW-X2-F: CB-12(101-105)F
Sampling Date	Standard or	11/9/2009	11/9/2009	11/9/2009	11/9/2009	11/10/2009	11/10/2009	11/10/2009	11/10/2009	11/10/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals										
Aluminum	NS	6,980	14.5 J	6,040	7.48 J	6,030	9.67 J	3,170	17 J	13 J
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	7.38 J	10 U	6.1 J	10 U	6.46 J	10 U	10 U	10 U	10 U
Barium	1,000	110	28.6 J	67.2	16.3 J	70.1	17 J	38 J	10.9 J	13.5 J
Beryllium	3	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Cadmium	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Calcium	NS	4,800 J	4,220 J	3,870 J	3,310 J	6,150 J	5,140 J	7,630 J	7,110 J	7,530 J
Chromium	50	184	5 U	325	5 U	286	5 U	217	5 U	5 U
Cobalt	NS	19.8	15 U	14.8 J	7.68 J	13.2 J	15 U	7.86 J	15 U	15 U
Copper	200	55.8	10 U	69.8	10 U	87.5	9.86 J	70.6	10 U	10 U
Iron***	300	34,800	2,920	46,900	7,010	52,300	3,190	39,200	866	1,270
Lead	25	21.7	6 U	20	6 U	25.2	6 U	12.1	3.36 J	3.32 J
Magnesium*	35,000	2,930	1,090	2,100	809 J	4,390	2,640	2,860	2,030	2,180
Manganese***	300	2,580	1,100	1,320	825	875	415	560	162	221
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	95	18.2 J	92.9	18.4 J	110	17.3 J	96.7	6.57 J	11.4 J
Potassium	NS	2,600	1,180	2,010	887 J	2,530	1,200	1,720	986 J	1,050
Selenium	10	10 U	10 U	10 U	10 U	10 U	6.53 J	10 U	10 U	5.63 J
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	19,400	20,200	7,870	7,470	10,900	10,500	8,710	8,290	8,690
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	20.8	20 U	23	20 U	22.8	20 U	13.6 J	20 U	20 U
Zinc*	2,000	120	36.2	161	40.4	415	105	613	62	87.3

* Guidance Value
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J - The concentration given is an approxima
F - Filtered sample.
Highlighted cells exceed NYSDEC Class G

Summary of Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-12(86-90)	CB-12(86-90)F	CB-18(116-120)	CB-18(116-120)F	CB-18(101-105)	CB-18(101-105)F	CB-05(126-130)	CB-05(126-130)F	CB-05(118-122)
Sampling Date	Standard or	11/10/2009	11/10/2009	11/10/2009	11/10/2009	11/11/2009	11/11/2009	11/11/2009	11/11/2009	11/11/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals										
Aluminum	NS	3,030	13.3 J	7,010	199	2,340 J	14.2 J	8,730 J	50 U	2,980 J
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	6.78 J	10 U	7.54 J	10 U	10 U	10 U	8.5 J	10 U	10 U
Barium	1,000	88.8	66.7	163	117	111	92.4	92	21.1 J	43.2 J
Beryllium	3	3 U	3 U	1.93 J	0.77 J	3 U	3 U	0.98 J	3 U	3 U
Cadmium	5	3 U	3 U	0.7 J	3 U	0.69 J	3 U	3 U	3 U	3 U
Calcium	NS	18,200 J	17,200 J	19,700 J	19,300 J	23,700	23,900	14,100	13,300	9,310
Chromium	50	393	5 U	336	5 U	113	5 U	323	5 U	193
Cobalt	NS	10.5 J	15 U	28.3	18.9	9.79 J	6.47 J	16	15 U	6.32 J
Copper	200	64	10 U	68.3	15.4	19.9	10 U	52.1	10 U	37.1
Iron***	300	40,200	1,220	38,600	4,890	14,200	4,730	52,200	2,340	27,400
Lead	25	14.6	6 U	30.8	4.51 J	18.1	9.21	34	5.23 J	13.8
Magnesium*	35,000	8,420	5,550	9,430	7,930	4,910	4,440	11,300	8,920	6,050
Manganese***	300	672	356	1,730	1,350	1,740	1,640	1,130	363	539
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	210	12.2 J	176	41.3	91.8	54.3	153	10.9 J	93.9
Potassium	NS	2,840	2,180	5,000	3,820	6,370	6,020	2,920	1,060	1,870
Selenium	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	175,000	176,000	54,300	55,300	47,100	47,700	8,850	8,520	10,900
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	12.2 J	20 U	25.9	20 U	9.01 J	20 U	36.1	20 U	12.6 J
Zinc*	2,000	540	17.8 J	474	233	214	148	178	27.3	267

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Summary of Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-05(118-122)F	CB-17(101-105)	CB-17(101-105)F	CB-20(126-130)	CB-20(126-130)F	CB-20(111-115)	CB-20(111-115)F	CB-20(97-101)	CB-20(97-101)F
Sampling Date	Standard or	11/11/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals										
Aluminum	NS	50 U UJ	18,200 J	50 U UJ	6,570 J	50 U UJ	8,070 J	50 U UJ	14,400 J	50 U UJ
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	10 U	18.7	10 U	9.39 J	10 U	8.99 J	10 U	23.6	10 U
Barium	1,000	18.7 J	230	39.3 J	82.4	28.5 J	90.6	25.6 J	143	21.4 J
Beryllium	3	3 U	1.77 J	3 U	0.76 J	3 U	0.79 J	3 U	2 J	3 U
Cadmium	5	3 U	2.09 J	3 U	3 U	3 U	3 U	3 U	1.82 J	3 U
Calcium	NS	8,580	12,200	10,600	12,200	11,200	11,000	9,670	12,300	10,300
Chromium	50	5 U	931	8.71	325	5 U	394	5 U	791	5 U
Cobalt	NS	15 U	52.5	8.64 J	9.42 J	15 U	13.1 J	15 U	30.8	15 U
Copper	200	10 U	135	10 U	83.1	10 U	92.8	10 U	145	10 U
Iron***	300	3,970	106,000	3,620	55,200	4,590	65,000	4,670	124,000	2,110
Lead	25	3.51 J	80.4	6.36	30.6	4.55 J	32.7	6.14	55.8	4.22 J
Magnesium*	35,000	5,000	9,780	4,640	6,680	4,900	6,710	4,230	9,600	5,960
Manganese***	300	294	4,320	1,290	761	322	1,120	609	3,050	833
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	14.1 J	395	23.9	97.1	18.2 J	135	16.6 J	192	10.5 J
Potassium	NS	1,170	4,910	1,610	2,980	1,500	3,110	1,450	3,810	1,370
Selenium	10	10 U	6.67 J	10 U	10 U	10 U	4.96 J	10 U	6.62 J	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	10,800	31,700	32,400	22,700	22,300	19,300	18,700	11,100	9,740
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	20 U	85.2	20 U	23	20 U	32.4	20 U	76	20 U
Zinc*	2,000	48.4	198	25.1	314	56.5	386	55.2	244	23.4

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Summary of Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-24(101-105)	CB-24(101-105)F	CB-24(111-115)	CB-24(111-115)F	CB-24(126-130)	CB-24(126-130)F	CB-30(48-52)	CB-30(48-52)F	CB-30(96-100)
Sampling Date	Standard or	11/16/2009	11/16/2009	11/16/2009	11/16/2009	11/16/2009	11/16/2009	11/17/2009	11/17/2009	11/17/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals										
Aluminum	NS	9,390	24.5 J	6,550	26.5 J	5,590	29.4 J	16,800	24.2 J	6,500
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	7.32 J	10 U	10 U	10 U	10 U	10 U	9.57 J	10 U	10 U
Barium	1,000	104	21.9 J	78.8	19.2 J	70.4	16 J	239	64.1	93.2
Beryllium	3	0.7 J	3 U	0.71 J	3 U	3 U	3 U	1.36 J	3 U	3 U
Cadmium	5	1.28 J	3 U	3 U	3 U	3 U	3 U	2.67 J	3 U	3 U
Calcium	NS	18,000	16,600	15,300	14,300	11,600	10,600	26,200	24,400	13,800
Chromium	50	578	5 U	245	5 U	200	5 U	493	5 U	173
Cobalt	NS	25.6	11 J	14.6 J	6.03 J	13.2 J	15 U	33.1	8.98 J	21.3
Copper	200	99.4	10 U	53	10 U	26.1	10 U	153	10 U	43.4
Iron***	300	65,600	10,200	41,600	6,860	24,600	1,950	81,100	8,420	32,700
Lead	25	40	5.66 J	26.6	3 J	24.3	5.2 J	42.2	6 U	21.2
Magnesium*	35,000	5,360	2,590	3,950	2,320	5,980	4,130	9250	6250	5060
Manganese***	300	3,110	2,310	1,110	747	479	152	3250	1080	679
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.1 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	237	33.3	88.9	22.9	96.2	7.5 J	184	28.6	67.8
Potassium	NS	3,820	1,770	3,130	1,560	2,480	1,050	4,130	1,680	3,640
Selenium	10	10 U	10 U	10 U	10 U	4.88 J	10 U	5 J	10 U	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	11,900	11,200	15,400	15,100	15,000	14,700	46,600	45,500	22,900
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	31.6	20 U	18.3 J	20 U	15.7 J	20 U	39.6	20 U	18.2 J
Zinc*	2,000	234	61.2	181	40.7	78	16.1 J	894	185	287

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Summary of Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-30(96-100)F	CB-30(111-115)	CB-30(111-115)F	CB-30(126-130)	CB-30(126-130)F	CB-32(48-52)	CB-32(48-52)F
Sampling Date	Standard or	11/17/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	11/18/2009	11/18/2009
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals								
Aluminum	NS	36.6 J	4,770	30 J	14,000	25.4 J	6,190	34 J
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	10 U	10 U	10 U	10.4	10 U	6.98 J	10 U
Barium	1,000	30.2 J	73.8	22.7 J	153	16.1 J	91.5	25 J
Beryllium	3	3 U	3 U	3 U	1.3 J	3 U	3 U	3 U
Cadmium	5	3 U	3 U	3 U	1.51 J	3 U	0.83 J	3 U
Calcium	NS	12,300	10,800	10,100	11,500	9,940	21,400	22,600
Chromium	50	5 U	252	5 U	556	5 U	204	5 U
Cobalt	NS	9.04 J	11.3 J	15 U	29.6	15 U	14 J	15 U
Copper	200	10 U	68.3	10 U	97.9	10 U	34	10 U
Iron***	300	2,990	35,200	3,700	72,700	2,470	25,100	896
Lead	25	6 U	23.5	3.34 J	46.7	6 U	28.6	6 U
Magnesium*	35,000	3120	5210	4030	7410	3570	4450	3320
Manganese***	300	329	596	255	1630	479	2240	290
Mercury	0.7	0.2 U	0.11 J	0.09 J	0.11 J	0.1 J	0.12 J	0.12 J
Nickel	100	13.3 J	101	16.4 J	262	14.2 J	122	5.68 J
Potassium	NS	2,010	2,260	1,030	3,920	786 J	3,770	2,880
Selenium	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	21,100	15,800	15,700	15,200	15,700	12,400	12,000
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	20 U	16.6 J	20 U	46.5	20 U	22.3	20 U
Zinc*	2,000	69.9	494	95.9	635	38.8	38.2	20 U

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Highlighted cells exceed NYSDEC Class G/

Summary of Groundwater Data (Additional Analyses)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	NYSDEC Class GA	CB-05(126-130)	CB-05(118-122)	CB-30(96-100)
Sampling Date	Standard or	11/11/2009	11/11/2009	11/17/2009
Matrix	Guidance Value	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L
Parameters				
Chloride	250,000	12,000	11,000	49,000
Nitrate	10,000	2,420 J	2,210 J	4,280 J
Ammonia	2,000	308	281	200 U

Summary of Soil Data (VOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	6 NYCRR Part 375	6 NYCRR Part 375	6 NYCRR Part 375	CB-32	CB-30	CB-30	CB-28	CB-X3: CB-27	CB-27
Sample Depth (feet)	Unrestricted Use	Residential	Restricted-Residential	44.5-46.5	28-30	39-41	26.5-29.5	26.5-29.5	26.5-29.5
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	11/30/2009	11/30/2009	11/30/2009	12/2/2009	12/2/2009	12/2/2009
Matrix	Objective	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	mg/kg	mg/kg	mg/kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
VOCs									
1,1,1-Trichloroethane	0.68	100	100	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,1,2,2-Tetrachloroethane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,1,2-Trichloroethane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,1,2-Trichlorotrifluoroethane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,1-Dichloroethane	0.27	19	26	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,1-Dichloroethene	0.33	100	100	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,2,4-Trichlorobenzene				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,2-Dibromo-3-chloropropane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,2-Dibromoethane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,2-Dichlorobenzene	1.1	100	100	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,2-Dichloroethane	0.02	2.3	3.1	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,2-Dichloropropane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,3-Dichlorobenzene	2.4	17	49	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
1,4-Dichlorobenzene	1.8	10	13	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
2-Butanone (MEK)	0.12	100	100	0.026 U	0.027 U	0.026 U	0.026 U	0.026 U	0.026 U
2-Hexanone				0.026 U	0.027 U	0.026 U	0.026 U	0.026 U	0.026 U
4-Methyl-2-pentanone				0.026 U	0.027 U	0.026 U	0.026 U	0.026 U	0.026 U
Acetone	0.05	100	100	0.026 U	0.027 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	0.06	2.9	4.8	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Bromodichloromethane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Bromoform				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Bromomethane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Carbon Disulfide				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Carbon Tetrachloride	0.76	1.4	2.4	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Chlorobenzene	1.1	100	100	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Chloroethane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Chloroform	0.37	10	49	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Chloromethane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
cis-1,2-Dichloroethene	0.25	59	100	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
cis-1,3-Dichloropropene				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Cyclohexane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Dibromochloromethane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Dichlorodifluoromethane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Ethylbenzene	1	30	41	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Isopropylbenzene				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
m,p-Xylene*	0.26	100	100	0.01 U	0.011 U	0.011 U	0.01 U	0.01 U	0.01 U
Methyl Acetate				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Methyl tert-butyl ether	0.93	62	100	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Methylcyclohexane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Methylene Chloride	0.05	51	100	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
o-Xylene*	0.26	100	100	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Styrene				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
trans-1,3-Dichloropropene				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Tetrachloroethene	1.30	5.5	19	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Toluene	0.7	100	100	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
trans-1,2-Dichloroethene	0.19	100	100	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Trichloroethene	0.47	10	21	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Trichlorofluoromethane				0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Vinyl Chloride	0.02	0.21	0.9	0.0052 U	0.0053 U	0.0053 U	0.0051 U	0.0052 U	0.0052 U
Total TICs								0.006	

Notes:
*Sum of these compounds cannot exceed the respective SCOs.
U - Compound not detected, Reporting Limit provided.

Summary of Soil Data (SVOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	6 NYCRR Part 375	6 NYCRR Part	6 NYCRR Part 375	CB-32	CB-30	CB-30	CB-28	CB-X3: CB-27	CB-27
Sample Depth (feet)	Unrestricted Use	Residential	Restricted-Residential	44.5-46.5	28-30	39-41	26.5-29.5	26.5-29.5	26.5-29.5
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	11/30/2009	11/30/2009	11/30/2009	12/2/2009	12/2/2009	12/2/2009
Matrix	Objective	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
SVOCs									
1,1-Biphenyl				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2,2-oxybis(1-Chloropropane)				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2,4,5-Trichlorophenol				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2,4,6-Trichlorophenol				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2,4-Dichlorophenol				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2,4-Dimethylphenol				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2,4-Dinitrophenol				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2,4-Dinitrotoluene				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2,6-Dinitrotoluene				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2-Chloronaphthalene				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2-Chlorophenol				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2-Methylnaphthalene				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2-Methylphenol				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2-Nitroaniline				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
2-Nitrophenol				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
3,3-Dichlorobenzidine				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
3+4-Methylphenols				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
3-Nitroaniline				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
4,6-Dinitro-2-methylphenol				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
4-Bromophenyl-phenylether				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
4-Chloro-3-methylphenol				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
4-Chloroaniline				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
4-Chlorophenyl-phenylether				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
4-Nitroaniline				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
4-Nitrophenol				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Acenaphthene	20	100	100	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Acenaphthylene	100	100	100	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Acetophenone				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Anthracene	100	100	100	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Atrazine				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Benzaldehyde				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Benzo(a)anthracene	1	1	1	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Benzo(a)pyrene	1	1	1	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Benzo(b)fluoranthene	1	1	1	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Benzo(g,h,i)perylene	100	100	100	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Benzo(k)fluoranthene	0.8	1.0	3.9	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
bis(2-Chloroethoxy)methane				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
bis(2-Chloroethyl)Ether				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
bis(2-Ethylhexyl)phthalate				0.340 U	0.140 J	0.090 J	0.340 U	0.350 U	0.350 U
Butylbenzylphthalate				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Caprolactam				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Carbazole				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Chrysene	1	1	3.9	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Dibenzofuran				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Diethylphthalate				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Dimethylphthalate				~~0.220 JB~~ 0.340 U	~~0.330 JB~~ 0.350 U	~~0.380 B~~ 0.350 U	~~0.190 JB~~ 0.340 U	~~0.270 JB~~ 0.350 U	~~0.290 JB~~ 0.350 U
Di-n-butylphthalate				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Di-n-octylphthalate				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Fluoranthene	100	100	100	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Fluorene	30	100	100	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Hexachlorobenzene				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Hexachlorobutadiene				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Hexachlorocyclopentadiene				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Hexachloroethane				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Isophorone				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Naphthalene	12	100	100	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Nitrobenzene				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
N-Nitroso-di-n-propylamine				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
N-Nitrosodiphenylamine(1)				0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Pentachlorophenol	0.8	2.4	6.7	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Phenanthrene	100	100	100	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Phenol	0.33	100	100	0.340 U	0.350 U	0.037 J	0.340 U	0.350 U	0.350 U
Pyrene	100	100	100	0.340 U	0.350 U	0.350 U	0.340 U	0.350 U	0.350 U
Total TICs				1.000	0.863	0.770	0.700 U	1.420 U	1.040 U

Notes:
U - Compound not detected, Reporting Limit provided.
J- Concentration is an approximate value.
B- Analyte detected in laboratory blank.

Summary of Soil Data (Pesticides)

DRAFT - DATA NOT VALIDATED

Hauppauge Area-Wide Groundwater Investigation

Smithtown, New York

Sample ID	6 NYCRR Part 375	6 NYCRR Part 375	6 NYCRR Part 375	CB-32	CB-30	CB-30	CB-28	CB-X3: CB-27	CB-27
Sample Depth (feet)	Unrestricted Use	Residential	Restricted-Residential	44.5-46.5	28-30	39-41	26.5-29.5	26.5-29.5	26.5-29.5
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	11/30/2009	11/30/2009	11/30/2009	12/2/2009	12/2/2009	12/2/2009
Matrix	Objective	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Pesticides									
4,4'-DDD	0.0033	2.6	13	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
4,4'-DDE	0.0033	1.8	8.9	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
4,4'-DDT	0.0033	1.7	7.9	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Aldrin	0.005	0.019	0.097	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
alpha-BHC	0.02	0.097	0.48	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Chlordane (alpha)	0.094	0.91	4.2	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
beta-BHC	0.036	0.072	0.36	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
delta-BHC	0.04	100	100	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Dieldrin	0.005	0.039	0.2	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Endosulfan I	2.4	4.8	24	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Endosulfan II	2.4	4.8	24	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Endosulfan sulfate	2.4	4.8	24	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Endrin	0.014	2.2	11	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Endrin aldehyde				0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Endrin ketone				0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
gamma-BHC				0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
gamma-Chlordane				0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Heptachlor	0.042	0.42	2.1	0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Heptachlor epoxide				0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U	0.0018 U
Methoxychlor				0.0018 U	0.0018 U	0.0018 U	0.0017 U	0.0018 U [J]	0.0018 U
Toxaphene				0.018 U	0.018 U	0.018 U	0.017 U	0.018 U	0.018 U

Notes:

U - Compound not detected, Reporting Limit provided.

Summary of Soil Data (PCBs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	6 NYCRR Part 375	6 NYCRR Part 375	6 NYCRR Part 375	CB-32	CB-30	CB-30	CB-28	CB-X3: CB-27	CB-27
Sample Depth (feet)	Unrestricted Use	Residential	Restricted-Residential	44.5-46.5	28-30	39-41	26.5-29.5	26.5-29.5	26.5-29.5
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	11/30/2009	11/30/2009	11/30/2009	12/2/2009	12/2/2009	12/2/2009
Matrix	Objective	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	mg/kg	mg/kg	mg/kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PCBs									
Aroclor-1016				0.018 U	0.018 U	0.018 U	0.017 U	0.018 U	0.018 U
Aroclor-1221				0.018 U	0.018 U	0.018 U	0.017 U	0.018 U	0.018 U
Aroclor-1232				0.018 U	0.018 U	0.018 U	0.017 U	0.018 U	0.018 U
Aroclor-1242				0.018 U	0.018 U	0.018 U	0.017 U	0.018 U	0.018 U
Aroclor-1248				0.018 U	0.018 U	0.018 U	0.017 U	0.018 U	0.018 U
Aroclor-1254				0.018 U	0.018 U	0.018 U	0.017 U	0.018 U	0.018 U
Aroclor-1260				0.018 U	0.018 U	0.018 U	0.0062 J	0.011 J	0.0046 J
Total Concentration.	0.1	1	1	0	0	0	0.0062 J	0.011 J	0.0046 J

Notes:
U - Compound not detected, Reporting Limit provided.

Summary of Soil Data (Metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

DRAFT - DATA NOT VALIDATED

Sample ID	6 NYCRR Part 375	6 NYCRR Part 375	6 NYCRR Part 375	CB-32	CB-30	CB-30	CB-28	CB-X3: CB-27	CB-27
Sample Depth (feet)	Unrestricted Use	Residential	Restricted-Residential	44.5-46.5	28-30	39-41	26.5-29.5	26.5-29.5	26.5-29.5
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	11/30/2009	11/30/2009	11/30/2009	12/2/2009	12/2/2009	12/2/2009
Matrix	Objective	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	mg/kg	mg/kg	mg/kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Metals									
Aluminum				407 J	970 J	457 J	314 J	432 J	409 J
Antimony				2.59 U	2.41 U	2.39 U	2.58 U	2.43 U	2.28 U
Arsenic	13	16	16	1.04 U	0.97 U	0.95 U	1.03 U	0.97 U	0.91 U
Barium	350	350	400	3.36 J	4.41 J	3.05 J	2.01 J	1.13 J	1.08 J
Beryllium	7.2	14	72	0.31 U	0.07 J	0.29 U	0.31 U	0.29 U	0.27 U
Cadmium	2.5	2.5	4.3	0.31 U	0.29 U	0.29 U	0.31 U	0.29 U	0.27 U
Calcium				33.7 J	89.9 J	46.6 J	31.9 J	36.4 J	31.6 J
Chromium*	30	36	180	1.47	3.69	2.25	1.95	1.98	1.55
Cobalt				0.88 J	0.99 J	1.43 U	1.55 U	1.46 U	0.55 J
Copper	50	270	270	1.04 U	1.65	1.14	1.4	1.36	1.31
Iron				1,320 J	3,140 J	1,540 J	1,110	1,040	1,050
Lead	63	400	400	10.6	1.05	0.66	0.89	0.84	0.83
Magnesium				92 J	247	127	64.5 J	68.2 J	69.5 J
Manganese	1,600	2,000	2,000	25.2 J	55.8 J	36.3 J	20.4	29.7	30.3
Mercury	0.18	0.81	0.81	0.002 J	0.011 U	0.011 U	0.01 U	0.011 U	0.01 U
Nickel	30	140	310	1.05 J	1.53 J	0.81 J	0.63 J	0.73 J	0.83 J
Potassium				62.7 J	134	66.3 J	41.6 J	45.3 J	52.9 J
Selenium	3.9	36	180	4.49	0.54 J	0.43 J	0.47 J	0.46 J	0.56 J
Silver	2	36	180	0.52 U	0.48 U	0.48 U	0.52 U	0.49 U	0.46 U
Sodium				84.1 J	97.1	80.2 J	91.1 J	95.2 J	92.5
Thallium				2.07 U	1.93 U	1.91 U	2.06 U	1.95 U	1.82 U
Vanadium				2.3	3.15	2.27	1.77 J	2.34	1.71 J
Zinc	109	2,200	10,000	3.23	5.84	4.82	4.42	4.58	5.19

Notes:
*SCOs are for trivalent chromium, total chromium results are reported.
U - Compound not detected, Reporting Limit provided.
J- Concentration is an approximate value.
Highlighted cell exceeds Unrestricted Use SCO.

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
Facsimile (518) 251-4428

LETTER OF TRANSMITTAL

TO: Christine Thomas

COMPANY: Macolm Pirnie, Inc.

FROM: Judy Harry

DATE: 04-14-10

ENCLOSED: DUSR for Hauppauge soils

Copy of associated invoice

COMMENTS: DUSR is as emailed

Ship via: US Express____ UPS ____ US Priority_X__Fed Ex____Other ___

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
Facsimile 518-251-4428

Copy

INVOICE No. 041410A

TO: Malcolm Pirnie, Inc.

FROM: Judy Harry, Data Validation Services J. Harry

DATE: 04-14-10

RE: Invoice for validation of the Hauppauge Area Wide site data packages
Chemtech SDGs B1392, B1522, B1556, B1613, and B1640
DUSR report date 04-14-10

Malcolm Pirnie, Inc. contact: Christine Thomas, Clifton Park, NY

Please remit the following balance due as outlined below:

No. of Units*	Analytical Fraction	Unit Cost	Subtotal
15	TCL Volatiles by 8260B	$ 20	$ 300
15	TAL Metals 6010B/7471	20	300
	Total Due		**$ 600**

* Includes field samples, field duplicate, and sample matrix spikes (4 sets VOA and metals)

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
Facsimile 518-251-4428

April 14, 2010

Christine Thomas
Malcolm Pirnie, Inc.
855 Rt. 146 Suite 210
Clifton Park, NY 12065

RE: Hauppauge Area Wide site
Data Usability Summary Report (DUSR)
Chemtech SDGs B1392, B1522, B1556, B1613, and B1640

Dear Ms. Thomas:

Review has been completed for the data packages generated by Chemtech that pertain to samples collected 2/18/10 through 03/17/10 at the Hauppauge Area Wide site. Six soil samples and a field duplicate were processed for TCL volatiles and TAL metals. Methodologies utilized are those of the USEPA SW846 6000/7000/8000.

The data packages submitted contained full deliverables for validation, but this usability report is primarily generated from review of the summary form information, with full review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, with consideration of the requirements of the project QAPP and the specific methodologies. The following items were reviewed:

* Laboratory Narrative Discussion
* Case Narratives
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration Blanks
* Matrix Spiked Blanks/Laboratory Control Samples
* Instrumental Tunes
* Calibration/CRI/CRA Standards
* ICP Interference Check Standards
* ICP Serial Dilution Correlations
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for this level of review.

In summary, most results for the samples are usable as reported, or usable with minor qualification due to sample matrix or to processing outliers. However, mercury results in the field blank are not usable due to instrument sensitivity.

Copies of the laboratory sample identification and analytical requirement summaries are attached. Also included with this report are validation qualifier definitions and red-ink qualified hardcopy client results tables.

Sample identifications within this report are preceded by the suffix "HPG-".

The following text discusses quality issues of concern.

Chain-of-Custody/Sample Receipt

The samples reported in SDG B1613 were delayed before shipment, and received by the laboratory five days after collection, beyond the limit of two days. Sample condition at receipt was acceptable, and technical holding times were met. There is no apparent impact on the integrity of the sample results. A memorandum should be made to the file to document the condition and custody of those samples during the interim.

The prefix "HPG-" was reported as "4PG-" in the samples reported in SDG B1392.

Field Duplicates

The blind field duplicate evaluation was performed for volatile and total metals on MW-23D(75-77). All correlations are within guidelines.

TCL Volatiles by EPA 8260B

The results for the trip blank reported in B1522 are qualified as estimated due to outlying analysis holding time. The trip blank was filled 18 days before the associated samples were collected.

The matrix spikes of MW-30D(38-39), MW-23D(75-77), MW-24I(55-57), and MW-15D(50-52) show acceptable recoveries and duplicate correlations.

The calibration standard responses were acceptable, with the exceptions of those for vinyl chloride and dichlorodifluoromethane (16%RSD and 30%RSD) in the standards associated with MW-24I(55-57). Results for those two compounds are qualified as estimated in that sample.

Holding times were met for the field samples. Surrogate recoveries and internal standard responses meet protocol requirements.

The field blank shows a detection of an analyte not detected in the samples. Sample reported results are unaffected.

TAL Metals by 6010B, 7470, and 7471

The matrix spike/laboratory duplicate accuracy and precision determinations were performed on MW-30D(38-39), MW-23D(75-77), MW-20I(90-91.3) and MW-24I(55-57), and show acceptable recoveries and correlations.

The ICP serial dilution determinations for MW-30D(38-39), MW-23D(75-77), MW-24I(55-57), and MW-20I(90-91.3), and MW-20I(90-91.3) show acceptable correlations.

The results for mercury in MW-30D(38-39), MW-20I(90-91.3), and MW-15D(50-52) are qualified as estimated, with a low bias, due to low recoveries (55% and 40%) of that element in the associated CRA low-level standards.

Detected results for mercury in MW-23D(75-77) and X-5 are qualified as estimated, with a high bias, due to elevated recovery (145%) of that element in the associated CRA low-level standard.

Detected results for lead in MW-20I(90-91.3), MW-15D(50-52), and MW-34D(55-57) are qualified as estimated, with a high bias, due to elevated recovery (135%) of that element in the associated CRA low-level standard.

Mercury failed to recover in the CRA standard associated with the field blank. Therefore, the result for that element in the field blank is not usable. The evaluation for potential contamination for mercury is not complete. Detected sample results should be used with that consideration.

Blanks show no contamination above the reporting limits.

The laboratory should have flagged QC summary forms and sample results forms with the "E" flag, indicating outlying serial dilution correlations.

Data package Forms 1 show too many significant figures for results with quantitative values below 10 ug/L. They are shown with three figures to the right of the decimal point; actual results are not that accurate.

Raw preparation logs should, but do not show the digestate volumes. The volumes are stated on the data package QC summary Forms 13.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Att.

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs and CASE NARRATIVES

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
4PG-MW-30D(38-39)	B1392-01	8260B				6010B, 7471A	Chemtech -SOP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
FIELDBLANK	B1522-01	8260B				6010B, 7470A	
HPG-MW-23D (75-77)	B1522-02	8260B				6010B, 7471A	Chemtech -SOP
HPG-MW-X5	B1522-03	8260B				6010B, 7471A	Chemtech -SOP
TRIPBLANK	B1522-04	8260B					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
HPG-MW-24I(55-57)	B1556-01	8260B				6010B, 7471A	Chemtech -SOP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
HPG-MW-20I(90-91.3)	B1613-01	8260B				6010B, 7471A	Chemtech - SOP
HPG-MW-15D(50-52)	B1613-02	8260B				6010B, 7471A	Chemtech - SOP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
HPG-MW-34D(55-57)	B1640-01	8260B				6010B, 7471A	Chemtech - SOP

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B1392

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 2/19/10.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA K were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI 4560 Concentrator.The analysis of VOC-TCLVOA-10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The %RSD is greater than 15% in the Initial Calibration (Method 82K021910S.M) for Chloroethane, 1,1-Dichloroethene and Methyl Acetate. These compounds are passing on linear regressions and/or quadratic regressions, however in this case they were left on average response factor.
The Tuning criteria met requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.03.10 12:53:20 -05'00'

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B1392

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 2/19/10.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010B

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature M Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.03.10 12:53:07 -05'00'

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B1522

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 3/5/10.
2 Water samples were received on 3/5/10.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, VOC-TCLVOA-10, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA K were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI 4560 Concentrator.The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.The analysis of VOC-TCLVOA-10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis except for TRIPBLANK. This sample was received outside hold time.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria except for Methyl Acetate.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 15% in the Initial Calibration (Method 82G030810W.M) for Methylene Chloride, 1,1-Dichloroethane. 2-Butanone and Chloroform. These compounds are passing on linear regressions and quadratic regressions, however in this case they were left on average response factor.
The %RSD is greater than 15% in the Initial Calibration (Method 82K030810S.M) for Dichlorodifluoromethane and Vinyl Chloride. These compounds are passing on linear regressions. however in this case they were left on average response factor.
The ICV (File ID: VK037946.D Method 82K030810S.M) met the requirements except for Acetone.

Continuing Calibration met the requirements.
The Tuning criteria met requirements.

Please use %D calculated based on AvgRF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration Curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature____ Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.03.24 13:16:10 -05'00'

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B1522

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 3/5/10.
2 Water samples were received on 3/5/10.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, VOC-TCLVOA-10, and VOC-TCLVOA-10. This data package contains results for Mercury and Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Mercury was based on method 7470A/7471A and Metals ICP-TAL was based on method 6010B

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
Sample HPG-MW-X5 is diluted due to high concentration for Mercury.
CRI recovery for Manganese is 154% for Analysis on 3/09/10. Rest of the QC is passing.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.03.24 13:15:58 -05'00'

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: 13 Willow St,Cohoes
Project # N/A
Chemtech Project # B1556

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 3/10/10.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA K were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI 4560 Concentrator. The analysis of VOC-TCLVOA-10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 15% in the Initial Calibration (Method 82K030810S.M) for Dichlorodifluoromethane and Vinyl Chloride. These compounds are passing on linear regressions, however in this case they were left on average response factor.
The ICV (File ID:VK037946.D Method 82K030810S.M) met the requirements except for Acetone.
The Continuing Calibration met the requirements except for Dichlorodifluoromethane, Vinyl Chloride and Trichlorofluoromethane but they were not detected in Samples. The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on AvgRF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration Curve and use %D calculated based on Amount added and Calculated amount

for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: 13 Willow St,Cohoes
Project # N/A
Chemtech Project # B1556

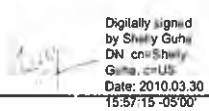
A. Number of Samples and Date of Receipt:
3 Solid samples were received on 3/10/10.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL. and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL and Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010B and Mercury was based on method 7471A

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B1613

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 3/16/10.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA K were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI 4560 Concentrator.
The analysis of VOC-TCLVOA-10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples except for Carbon Tetrachloride, 1,1,1-Trichloroethane and Toluene but they were not detected in Samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The %RSD is greater than 15% in the Initial Calibration (Method 82K031510S.M) for Bromomethane, Chloroethane, Methyl Acetate, Acetone ,Carbon Disulfide and Methylene Chloride. These compounds are passing on linear regressions and quadratic regressions, however in this case they were left on average response factor.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on AvgRF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration Curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.04.01 14:31:28 -05'00'

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B1613

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 3/16/10.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL and Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010B and Mercury was based on method 7471A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
CRI01 is marginally failing for Selenium.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.04.01 14:30:23 -05'00'

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B1640

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 3/18/10.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA K were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI 4560 Concentrator.
The analysis of VOC-TCLVOA-10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples except for Carbon Tetrachloride, 1,1,1-Trichloroethane and Toluene but they were not detected in samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The %RSD is greater than 15% in the Initial Calibration (Method 82K031510S.M) for Bromomethane, Chloroethane, Methyl Acetate, Acetone, Carbon Disulfide and Methylene Chloride. These compounds are passing on linear regressions and quadratic regressions, however in this case they were left on average response factor.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on AvgRF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration Curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.04.07 08:51:39 -05'00'

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B1640

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 3/18/10.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL and Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010B and Mercury was based on method 7471A

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
CRI01 is failing for Selenium.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature M Mildred V Reyes

Mildred V Reyes
I am approving this document
2010.04.07 08:51:17 -05'00'

QUALIFIED CLIENT TABLES

Summary of Validated Soil Data (VOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

Sample ID	6 NYCRR Part 375	6 NYCRR Part 375	6 NYCRR Part 375	MW-30D	MW-23D	X-5: MW-23D	MW-20I	MW-15D	MW-24I	MW-34D
Sample Depth (feet)	Unrestricted Use	Residential	Restricted-Residential	38-39	75-77	75-77	90-91.3	50-52	55-57	55-57
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	2/18/2010	3/4/2010	3/4/2010	3/11/2010	3/15/2010	3/9/2010	3/17/2010
Matrix	Objective	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	mg/kg	mg/kg	mg/kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
VOCs										
1,1,1-Trichloroethane	0.68	100	100	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,1,2,2-Tetrachloroethane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,1,2-Trichloroethane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,1,2-Trichlorotrifluoroethane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,1-Dichloroethane	0.27	19	26	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,1-Dichloroethene	0.33	100	100	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,2,4-Trichlorobenzene				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,2-Dibromo-3-chloropropane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,2-Dibromoethane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,2-Dichlorobenzene	1.1	100	100	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,2-Dichloroethane	0.02	2.3	3.1	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,2-Dichloropropane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,3-Dichlorobenzene	2.4	17	49	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
1,4-Dichlorobenzene	1.8	10	13	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
2-Butanone (MEK)	0.12	100	100	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.025 U
2-Hexanone				0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.025 U
4-Methyl-2-pentanone				0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.025 U
Acetone	0.05	100	100	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.025 U
Benzene	0.06	2.9	4.8	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Bromodichloromethane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Bromoform				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Bromomethane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Carbon Disulfide				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Carbon Tetrachloride	0.76	1.4	2.4	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Chlorobenzene	1.1	100	100	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Chloroethane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Chloroform	0.37	10	49	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Chloromethane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
cis-1,2-Dichloroethene	0.25	59	100	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
cis-1,3-Dichloropropene				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Cyclohexane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Dibromochloromethane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Dichlorodifluoromethane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 UJ	0.005 U
Ethylbenzene	1	30	41	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Isopropylbenzene				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
m,p-Xylene*	0.26	100	100	0.01 U	0.011 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl Acetate				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Methyl tert-butyl ether	0.93	62	100	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Methylcyclohexane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Methylene Chloride	0.05	51	100	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
o-Xylene*	0.26	100	100	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Styrene				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
trans-1,3-Dichloropropene				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Tetrachloroethene	1.30	5.5	19	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Toluene	0.7	100	100	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
trans-1,2-Dichloroethene	0.19	100	100	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Trichloroethene	0.47	10	21	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Trichlorofluoromethane				0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.005 U
Vinyl Chloride	0.02	0.21	0.9	0.0052 U	0.0053 U	0.0052 U	0.0052 U	0.0052 U	0.0052 UJ	0.005 U
Total TICs									0.0077	

Notes:
*Sum of these compounds cannot exceed the respective SCOs.
U - Compound not detected, reporting limit provided.

Summary of Validated Soil Data (Metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

Sample ID	6 NYCRR Part 375	6 NYCRR Part 375	6 NYCRR Part 375	MW-30D	MW-23D	X-5: MW-23D	MW-20I	MW-15D	MW-24I	MW-34D
Sample Depth (feet)	Unrestricted Use	Residential	Restricted-Residential	38-39	75-77	75-77	90-91.3	50-52	55-57	55-57
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	2/18/2010	3/4/2010	3/4/2010	3/11/2010	3/15/2010	3/9/2010	3/17/2010
Matrix	Objective	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	mg/kg	mg/kg	mg/kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Metals										
Aluminum				452	578	572	327	603	313	312
Antimony				2.57 U	2.64 U	2 U	2.63 U	2.48 U	2.57 U	2.3 U
Arsenic	13	16	16	1.03 U	1.06 U	0.29 J	1.05 U	0.99 U	0.47 J	0.45 J
Barium	350	350	400	3.76 J	1.71 J	1.94 J	2.09 J	2.57 J	2.39 J	2.1 J
Beryllium	7.2	14	72	0.31 U	0.32 U	0.06 J	0.32 U	0.3 U	0.31 U	0.28 U
Cadmium	2.5	2.5	4.3	0.31 U	0.32 U	0.24 U	0.32 U	0.3 U	0.31 U	0.28 U
Calcium				120	82.2 J	74.5 J	56.1 J	59 J	70.4 J	49.6 J
Chromium*	30	36	180	2.02	2.8	1.75	1.22	1.38	3.58	2.12
Cobalt				1.54 U	1.59 U	1.2 U	1.58 U	1.49 U	1.54 U	0.9 J
Copper	50	270	270	1.77	1.66	1.51	0.94 J	1.44	1.15	1.25
Iron				1,270	1,570	1,470	1,270 J	1,090	1,760	1,980
Lead	63	400	400	0.53 J	0.97	1.08	0.81 J	0.88 J	0.64	0.83 J
Magnesium				110	169	144	101 J	156	98.5 J	68.8 J
Manganese	1,600	2,000	2,000	36.4	21.7	21	31.5	42	25.2	46.7
Mercury	0.18	0.81	0.81	0.01 UJ	0.004 J	0.014 DJ	0.011 UJ	0.01 UJ	0.01 U	0.01 U
Nickel	30	140	310	0.8 J	0.9 J	0.9 J	0.9 J	1.35 J	0.69 J	0.99 J
Potassium				73 J	92.4 J	83.7	58.7 J	75.4 J	64.3 J	42.6 J
Selenium	3.9	36	180	1.03 U	1.06 U	0.8 U	1.05 U	0.42 J	1.03 U	0.56 J
Silver	2	36	180	0.51 U	0.53 U	0.4 U	0.53 U	0.5 U	0.51 U	0.46 U
Sodium				72.1 J	130	61.8 J	42.2 J	42.7 J	62.5 J	62.1 J
Thallium				2.06 U	2.11 U	1.6 U	2.11 U	1.98 U	2.06 U	1.84 U
Vanadium				1.89 J	1.73 J	1.94	1.62 J	1.44 J	1.88 J	2.46
Zinc	109	2,200	10,000	3.68	4.61	3.67	4.15	5	3.47	3.33

Notes:
*SCOs are for trivalent chromium, total chromium results are reported.
U - Compound not detected, reporting limit provided.
J- Concentration is an approximate value.
Highlighted cell exceeds Unrestricted Use SCO.

Summary of Validated Groundwater Data (metals)
Hauppauge Area Wide Groundwater Investigation
Smithtown, New York

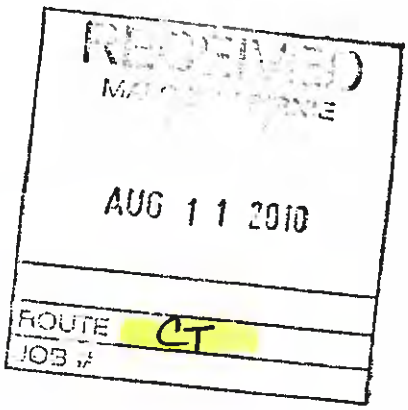
already Validated

Sample ID	NYSDEC Class GA	CB-30(96-100)F	CB-30(111-115)	CB-30(111-115)F	CB-30(126-130)	CB-30(126-130)F	CB-32(48-52)	CB-32(48-52)F	Not Validated Field Blank
Sampling Date	Standard or	11/17/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	11/18/2009	11/18/2009	3/4/2010
Matrix	Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals									
Aluminum	NS	36.6 J	4,770	30 J	14,000	25.4 J	6,190	34 J	50 U
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	10 U	10 U	10 U	10.4	10 U	6.98 J	10 U	10 U
Barium	1,000	30.2 J	73.8	22.7 J	153	16.1 J	91.5	25 J	50 U
Beryllium	3	3 U	3 U	3 U	1.3 J	3 U	3 U	3 U	3 U
Cadmium	5	3 U	3 U	3 U	1.51 J	3 U	0.83 J	3 U	3 U
Calcium	NS	12,300	10,800	10,100	11,500	9,940	21,400	22,600	1,000 U
Chromium	50	5 U	252	5 U	556	5 U	204	5 U	5 U
Cobalt	NS	9.04 J	11.3 J	15 U	29.6	15 U	14 J	15 U	15 U
Copper	200	10 U	68.3	10 U	97.9	10 U	34	10 U	10 U
Iron***	300	2,990	35,200	3,700	72,700	2,470	25,100	896	50 U
Lead	25	6 U	23.5	3.34 J	46.7	6 U	28.6	6 U	6 U
Magnesium*	35,000	3120	5210	4030	7410	3570	4450	3320	1,000 U
Manganese***	300	329	596	255	1630	479	2240	290	10 U
Mercury	0.7	0.2 U	0.11 J	0.09 J	0.11 J	0.1 J	0.12 J	0.12 J	0.2 U R
Nickel	100	13.3 J	101	16.4 J	262	14.2 J	122	5.68 J	20 U
Potassium	NS	2,010	2,260	1,030	3,920	786 J	3,770	2,880	1,000 U
Selenium	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	21,100	15,800	15,700	15,200	15,700	12,400	12,000	1,000 U
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	20 U	16.6 J	20 U	46.5	20 U	22.3	20 U	20 U
Zinc*	2,000	69.9	494	95.9	635	38.8	38.2	20 U	20 U

* Guidance Value
***Sum of these compounds can not exceed 3
U - Compound not detected, reporting limit is
J - The concentration is an approximate value
UJ - Compound not detected, reporting limit is
R - Data are unusable, rejected by validator.
F - Filtered sample.
Highlighted cells exceed NYSDEC Class GA

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
Facsimile (518) 251-4428



LETTER OF TRANSMITTAL

TO: Christine Thomas

COMPANY: Malcolm Pirnie, Inc.

FROM: Judy Harry

DATE: 08-10-10

ENCLOSED: Validation report for the Hauppage site

COMMENTS: as emailed

Ship via: US Express____ UPS ____ US Priority_X__Fed Ex____Other ___

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
Facsimile 518-251-4428

August 9, 2010

Christine Thomas
Malcolm Pirnie, Inc.
855 Rt. 146 Suite 210
Clifton Park, NY 12065

RE: Hauppauge Area Wide site
Data Usability Summary Report (DUSR)
Chemtech SDGs B2372 and B2419; Con-test SDG 10E0528

Dear Ms. Thomas:

Review has been completed for the data packages generated by Chemtech and Con-test Laboratories that pertain to samples collected between 05/17/10 and 05/19/10 at the Hauppauge Area Wide site. Nine aqueous samples and a field duplicate were processed for TCL volatiles and TAL metals. Eight of the samples were also processed for filtered TAL metals, and three of the samples were also processed for hexavalent chromium. Six soil vapor samples and a field duplicate were processed for volatiles. Methodologies utilized are those of the USEPA SW846 6000/7000/8000 and TO-15.

The data packages submitted contained full deliverables for validation, but this usability report is primarily generated from review of the summary form information, with full review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, with consideration of the requirements of the project QAPP and the specific methodologies. The following items were reviewed:

* Laboratory Narrative Discussion
* Case Narratives
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration/Canister Blanks
* Matrix Spiked Blanks/Laboratory Control Samples
* Instrumental Tunes
* Calibration/CRI/CRA Standards
* ICP Interference Check Standards
* ICP Serial Dilution Correlations
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for this level of review.

In summary, results for the samples are usable as reported, or usable with minor qualification due to sample matrix or to processing outliers.

Copies of the laboratory sample identification and analytical requirement summaries are attached. Also included with this report are validation qualifier definitions and red-ink qualified hardcopy client results tables.

Sample identifications within this report are preceded by the suffix "HPG-".

The following text discusses quality issues of concern.

Field Duplicates

The blind field duplicate evaluation was performed for volatile analtyes and total metals on MW-24I and for volatile analytes on SV-04. All correlations are within guidelines, with the exception of those for bromomethane and 2-butanone (both >±CRDL) in the soil vapor sample. Results for those two compound in the parent sample SV-04 and its duplicate SV-07 have been qualified as estimated in value.

TCL Volatiles by EPA 8260B

Holding times were met for the field samples. Surrogate recoveries and internal standard responses meet protocol requirements. Blanks show no contamination.

Sample matrix spikes were processed on MW-20I, and show good accuracy and precision for all analytes. The LCS shows acceptable recoveries; there is one elevated recovery for an analyte not detected in the samples. The blind field duplicate correlations for MW-24I are also within validation guidelines.

The calibration standard responses were acceptable, with the exceptions of those for dibromochloromethane (17%RSD) in the initial calibration standards associated with the samples reported in SDG B2419. Results for that compound are qualified as estimated in those samples.

Volatiles by EPA TO-15

Holding times were met for the field samples. Surrogate recoveries are within action limits, and internal standard responses meet protocol and validation requirements.

LCSs show acceptable recoveries, and the calibration standard responses are acceptable.

In addition to the analytes indicated on the report forms and in the laboratory case narrative as being detected in the method blanks, the method blank of 05/25/10 also contains ethanol and acetone at reportable levels, and the method blank of 05/27/10 also contains acetone at a reportable level. The

following field sample detections are at concentrations within the range to be considered external contamination. They have been edited to reflect non-detection at adjusted reporting limits:

- acetone in SV-04 and SV-07
- ethanol in SV-02 and SV-06
- methylene chloride in all samples except SV-03 and SV-07

Although not qualified, the detections are methylene chloride in the samples that were not so edited are at levels typical of external contamination.

TAL Metals by 6010B, 7470, and 7471

Selenium is reported in MW-30S as a detection at 36 ug/L. However, review of the raw data shows that the responses for that element show outlying variance (67%RSD) on replicate analyses, with values of 19 ug/L and 54 ug/L, indicating a matrix interference effect that could result in a false positive. That detection has been edited to reflect non-detection at an elevated reporting limit corresponding to the originally reported concentration.

The matrix spike/laboratory duplicate accuracy and precision determinations were performed on MW-20I and MW-30S, and show recoveries and correlations within laboratory acceptance ranges. The blind field duplicate correlations for MW-24I are within validation guidelines.

The ICP serial dilution determinations for MW-20I and MW-30S show acceptable correlations. Blanks show no contamination above the reporting limits.

Total and filtered fraction concentrations correlate well.

Data package Forms 1 show too many significant figures for results with quantitative values below 10 ug/L. They are shown with three figures to the right of the decimal point; actual results are not that accurate. The tables generated from the EDDs reflect the significant figures accurately.

Hexavalent Chromium by 7196A

Holding times were met. The matrix spikes of W-23I show good accuracy and precision. Blanks show no contamination. Standards show compliant responses.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Judy Harry

Att.

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs and CASE NARRATIVES

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
TRIPBLANK	B2372-01	8260B					
MW-23D	B2372-02	8260B				6010B, 7470A	
MW-23D-F	B2372-03					6010B, 7470A	
MW-23I	B2372-04	8260B				6010B, 7470A	7196A
MW-23I-F	B2372-05					6010B, 7470A	
MW-34D	B2372-06	8260B				6010B, 7470A	
MW-34D-F	B2372-07					6010B, 7470A	
MW-15D	B2372-08	8260B				6010B, 7470A	7196A
MW-15D-F	B2372-09					6010B, 7470A	
MW-24I	B2372-10	8260B				6010B, 7470A	7196A
MW-24I-F	B2372-11					6010B, 7470A	
MW-X	B2372-12	8260B				6010B, 7470A	
MW-20I	B2372-13	8260B				6010B, 7470A	
MW-20I-F	B2372-14					6010B, 7470A	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
MW-30S	B2419-01	8260B				6010B, 7470A	
MW-30D	B2419-02	8260B				6010B, 7470A	
MW-30I	B2419-03	8260B				6010B, 7470A	
TRIPBLANK	B2419-04	8260B					
MW-30D	B2419-05					6010B, 7470A	
MW-30I	B2419-06					6010B, 7470A	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Malcolm Pirnie - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Bruce Nelson

REPORT DATE: 6/2/2010

PURCHASE ORDER NUMBER: 0266374

PROJECT NUMBER: 0266374

ANALYTICAL SUMMARY

WORK ORDER NUMBER 10E0528

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hauppauge, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
HPG-SV 06	10E0528-01	Soil Gas		EPA TO-15	
HPG-SV-02	10E0528-02	Soil Gas		EPA TO-15	
HPG-SV-01	10E0528-03	Soil Gas		EPA TO-15	
HPG-SV-03	10E0528-04	Soil Gas		EPA TO-15	
HPG-SV-04	10E0528-05	Soil Gas		EPA TO-15	
HPG-SV-05	10E0528-06	Soil Gas		EPA TO-15	
HPG-SV-07	10E0528-07	Soil Gas		EPA TO-15	

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B2372

A. Number of Samples and Date of Receipt:
16 Water samples were received on 5/19/10.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA I were done using GC column RTXVMS, which is 60 meters, 0.25 ID, 1.4 df, Restek Cat. #19916. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.The analysis of VOC-TCLVOA-10 was based on method 8260B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples except for Acetone but it was not detected in Samples.
The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 15% in the Initial Calibration (Method 82I051910W.M) for Dichlorodifluoromethane, Methylene Chloride and Tetrachloroethene.
These compounds are passing on linear regressions, however in this case they were left on average response factor.
The Continuing calibration met the requirements except for 2-Butanone and 2-Hexanone but they were not detected in Samples.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on AvgRF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration Curve and use %D calculated based on Amount added and Calculated amount

for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B2372

A. Number of Samples and Date of Receipt:
16 Water samples were received on 5/19/10.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Dissolved ICP-TAL Metals, Dissolved Mercury, Metals ICP-TAL and Mercury.

C. Analytical Techniques:
The analysis of Dissolved ICP-TAL Metals was based on method 6010B, Dissolved Mercury was based on method 7470A, Metals ICP-TAL was based on method 6010B and Mercury was based on method 7470A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B2372

A. Number of Samples and Date of Receipt:
16 Water samples were received on 5/19/10.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Hexavalent Chromium.

C. Analytical Techniques:
The analysis of Hexavalent Chromium was based on method 7196A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B2419

A. Number of Samples and Date of Receipt:
6 Water samples were received on 05/21/2010.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA H were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied BY OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.The analysis of VOC-TCLVOA-10 was based on method 8260B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank Spike Duplicate met requirements for all samples except for Bromomethane but it was not detected in Samples.
The %RSD is greater than 15% in the Initial Calibration (Method 82H052510W.M) for Dichlorodifluoromethane, Chloroethane, Cyclohexane, Carbon Tetrachloride, Dibromochloromethane and Tetrachloroethene. These compounds are passing on linear regressions, however in this case they were left on average response factor.
The Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes Mildred V. Reyes
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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie, Inc.
Project Name: Hauppauge Area wide GW Study
Project # N/A
Chemtech Project # B2419

A. Number of Samples and Date of Receipt:
6 Water samples were received on 5/21/10.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, and VOC-TCLVOA-10. This data package contains results for Dissolved ICP-TAL Metals, Dissolved Mercury, Mercury and Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Dissolved ICP-TAL Metals was based on method 6010B, Dissolved Mercury was based on method 7470A, Mercury was based on method 7470A and Metals ICP-TAL was based on method 6010B

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples except for Zinc.
The Duplicate analysis met criteria for all samples except for Aluminum.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
CCV10 is failing for Calcium, Potassium and Vanadium.
CCV11 is failing for Calcium, Manganese, Potassium and Vanadium.
CCV12 is failing for Aluminum, Calcium, Manganese and Vanadium but they were not associated with Samples.
CRI01 is failing for Barium and Selenium.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
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con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

2-Butanone (MEK), Methylene Chloride

10E0528-07[HPG-SV-07], B014273-BLK1, B014273-BS1, 10E0528-01[HPG-SV-06], 10E0528-02[HPG-SV-02], 10E0528-03[HPG-SV-01], 10E0528-04[HPG-SV-03], 10E0528-05[HPG-SV-04], 10E0528-06[HPG-SV-05], B014267-BLK1, B014267-BS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Holly L. Folsom
Project Chemist

QUALIFIED CLIENT RESULTS TABLES

Summary of Validated Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

Already validated

Sample ID	NYSDEC Class GA Standard or Guidance Value	CB-33(111-115)	CB-33(111-115)F	Field Blank	Not validated MW-23D	Not validated MW-23D-F	Not validated MW-23I	Not validated MW-23I-F	Not validated MW-34D	Not validated MW-34D-F
Sampling Date		10/27/2009	10/27/2009	3/4/2010	5/17/2010	5/17/2010	5/18/2010	5/18/2010	5/18/2010	5/18/2010
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Metals										
Aluminum	NS	13,200 J	22.8 J	50 U	860	9.85 J	1,310	16.2 J	1,940	13.9 J
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	11.1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	1,000	176	47.7 J	50 U	44.2 J	30.8 J	33.6 J	24.9 J	73.9	53.3
Beryllium	3	1.23 J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Cadmium	5	0.5 J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Calcium	NS	15,400	15,000	1,000 U	10,100	8,920	4,190	4,310	22,400	21,800
Chromium, total	50	301 J	5 U	5 U	8.65	1.29 J	8.06	1.37 J	20.8	1.21 J
Chromium, hexavalent	50	NA	NA	NA	NA	NA	10 U	NA	NA	NA
Cobalt	NS	19	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
Copper	200	107	10 U	10 U	10 U	10 U	10 U	10 U	8.49 J	10 U
Iron***	300	65,900	3,210	50 U	1,530	32 J	4,410	59	4,280	29 J
Lead	25	38.1	2.85 J	6 U	4.49 J	6 U	4.54 J	6 U	9.33	2.94 J
Magnesium*	35,000	6,780	4,070	1,000 U	2,280	1,910	1,430	1,120	5,480	4,650
Manganese***	300	1,550	533	10 U	804	663	288	180	262	107
Mercury	0.7	0.2 U	0.2 U	0.2 R	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	117	16.6 J	20 U	14.6 J	11.7 J	9.14 J	4.41 J	6.69 J	20 U
Potassium	NS	4,160	2,150	1,000 U	2,670	2,600	2,200	2,120	4,400	3,820
Selenium	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	25,400	24,900	1,000 U	15,600	15,800	9,440	9,940	27,700	25,600
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	49.7	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Zinc*	2,000	661	106	20 U	73.6	50.4	62.5	56.8	96.8	64.1

* Guidance Value
***Sum of these compounds can not exceed 300 ug/L.
NS - No standard
NA - Not analyzed
U - Compound not detected, reporting limit is provided.
J - The concentration is an approximate value.
UJ - Compound not detected, reporting limit is estimated
R - Data unusable, rejected by validator.
F - Filtered sample.
Highlighted cells exceed NYSDEC Class GA standard or guidance value.

Summary of Validated Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

		Not validated	Not validated	Not validated	Not validated	Not validated	Not validated	Not validated	Not validated	Not validated
Sample ID	**NYSDEC Class GA**	**MW-15D**	**MW-15D-F**	**MW-24I**	**MW-X (MW-24I Dup.)**	**MW-24I-F**	**MW-20I**	**MW-20I-F**	**MW-30S**	**MW-30D**
Sampling Date	**Standard or**	**5/18/2010**	**5/18/2010**	**5/18/2010**	**5/18/2010**	**5/18/2010**	**5/18/2010**	**5/18/2010**	**5/19/2010**	**5/19/2010**
Matrix	**Guidance Value**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**
Units	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Metals										
Aluminum	NS	2,760	21.9 J	517	451	12.8 J	780	13.4 J	270	485
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	1,000	97.5	4.63 J	31.7 J	30 J	28.7 J	26.6 J	23.1 J	64.7	85.6
Beryllium	3	3 U	3 U	3 U	3 U	3 U	3 U	3 U	1.16 J	3 U
Cadmium	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Calcium	NS	14,700	12,200	22,700	22,200	22,800	8,840	9,300	18,600	18,200
Chromium, total	50	88	5 U	2.81 J	2.48 J	5 U	5.8	5 U	5 U	11.2
Chromium, hexavalent	50	10 U	NA	10 U	NA	NA	NA	NA	NA	NA
Cobalt	NS	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
Copper	200	43.8	10 U	10 U	10 U	10 U	10 U	10 U	10 U	22
Iron***	300	6,880	57	1,840	1,550	32 J	3,040	45 J	629	1,300
Lead	25	16.6	2.95 J	4.47 J	3.53 J	3.17 J	3.7 J	3.05 J	6 U	4.73 J
Magnesium*	35,000	4,350	3,230	2,830	2,730	2,680	4,060	3,980	3,420	5,460
Manganese***	300	485	121	412	392	354	181	76.5	109	292
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	18.6 J	20 U	20 U	20 U	20 U	20 U	20 U	20 U	9.36 J
Potassium	NS	2,250	1,700	1,760	1,710	1,700	1,230	1,140	3,310	1,730
Selenium	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	36 U ~~36.3~~	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	31,500	30,100	18,400	17,900	18,600	17,700	18,600	24,300	19,500
Thallium*	0.5	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	NS	6.4 J	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Zinc*	2,000	127	61.4	59.3	51.7	42.2	61.3	54.5	35.4	70.2

* Guidance Value
***Sum of these compounds can not exceed 300 ug/L.
NS - No standard
NA - Not analyzed
U - Compound not detected, reporting limit is provided.
J - The concentration is an approximate value.
UJ - Compound not detected, reporting limit is estimated
R - Data unusable, rejected by validator.
F - Filtered sample.
Highlighted cells exceed NYSDEC Class GA standard or guidance value.

Summary of Validated Groundwater Data (metals)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

		Not validated	Not validated	Not validated
Sample ID	**NYSDEC Class GA**	**MW-30I**	**MW-30D-F**	**MW-30I-F**
Sampling Date	**Standard or**	**5/19/2010**	**5/19/2010**	**5/19/2010**
Matrix	**Guidance Value**	**WATER**	**WATER**	**WATER**
Units	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Metals				
Aluminum	NS	1550	13 J	143
Antimony	3	25 U	25 U	25 U
Arsenic	25	10 U	10 U	10 U
Barium	1,000	84.8	78.3	78.9
Beryllium	3	3 U	3 U	3 U
Cadmium	5	3 U	3 U	3 U
Calcium	NS	13,400	18,300	13,800
Chromium, total	50	22.3	1.62 J	1.68 J
Chromium, hexavalent	50	NA	NA	NA
Cobalt	NS	15 U	15 U	15 U
Copper	200	10 U	21.9	10 U
Iron***	300	4,940	412	444
Lead	25	6 U	3.57 J	6 U
Magnesium*	35,000	6,420	5,430	6,360
Manganese***	300	566	285	332
Mercury	0.7	0.2 U	0.2 U	0.2 U
Nickel	100	13.7 J	9.06 J	20 U
Potassium	NS	1,970	1,630	1,680
Selenium	10	10 U	10 U	10 U
Silver	50	5 U	5 U	5 U
Sodium	20,000	24,800	20,400	24,800
Thallium*	0.5	20 U	20 U	20 U
Vanadium	NS	20 U	20 U	20 U
Zinc*	2,000	59.5	75.9	53.5

* Guidance Value
***Sum of these compounds can not exceed 300 ug/L.
NS - No standard
NA - Not analyzed
U - Compound not detected, reporting limit is provided.
J - The concentration is an approximate value.
UJ - Compound not detected, reporting limit is estimated
R - Data unusable, rejected by validator.
F - Filtered sample.
Highlighted cells exceed NYSDEC Class GA standard or guidance value.

Summary of Validated Groundwater Data (VOCs)
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

		Not validated	Not validated	Not validated	Not validated	Not validated	Not validated	Not validated	Not validated	Not validated	Not validated	Not validated	Not validated	
Sample ID	**NYSDEC Class GA**	**TRIPBLANK**	**MW-23D**	**MW-23I**	**MW-34D**	**MW-15D**	**MW-24I**	**MW-X (MW-24I Dup.)**	**MW-20I**	**MW-30S**	**MW-30D**	**MW-30I**	**MW-30I**	**TRIPBLANK**
Sampling Date	**Standard or**	**5/14/2010**	**5/17/2010**	**5/18/2010**	**5/18/2010**	**5/18/2010**	**5/18/2010**	**5/18/2010**	**5/18/2010**	**5/19/2010**	**5/19/2010**	**5/19/2010**	**5/19/2010**	**5/14/2010**
Matrix	**Guidance Value**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**
Units	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
VOCs														
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	0.61 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1.2	1 U	1 U	1 U	1 U	0.96 J	1.2		1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	0.76 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (Methyl ethyl ketone)	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	0.6 J	1 U	1 U	1 U	1 U	0.73 J	1 U	1 U	1 U
Chloromethane		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	0.7 J	1 U	1 U	1 U	1 U	0.6 J	1 U	1 U	1 U
cis-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U UJ	1 U UJ	1 U UJ	1 U UJ
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Acetate		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1 U	1 U	1 U	1 U	0.78 J	1 U	1 U	1 U	1 U	1.5	1 U	1 U	1 U
Methylcyclohexane		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	0.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	3.3	1 U	1 U	1.1	1 U	1.6	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	0.76 J	0.68 J	1 U	1 U	0.53 J	1 U	0.61 J	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.2	1 U	4.2	2.9	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
* - Guidance Value
** - Sum of these analytes cannot exceed 0.4 ug/l
U - Compound was not detected, reporting limit is provided.
J- Concentration is an approximate value.
UJ - Compound was not detected, reporting limit is estimated.
NJ - Detection of compound is tentative and estimated in value.
Highlighted cells exceed NYSDEC Class GA standard or guidance value.

Summary of Unvalidated Soil Vapor Data
Hauppauge Area-Wide Groundwater Investigation
Smithtown, New York

Sample ID	HPG-SV-01	HPG-SV-02	HPG-SV-03	HPG-SV-04	HPG-SV-07 (HPG-SV-04 DUP)	HPG-SV-05	HPG-SV-06
Sampling Date	5/19/2010	5/19/2010	5/19/2010	5/19/2010	5/19/2010	5/19/2010	5/19/2010
Matrix	Air	Air	Air	Air	Air	Air	Air
Units	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
TO-15							
Acetone	**13**	**9.7**	**23**	**5.2 U**	**10 U**	**14**	**39**
Benzene	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	**0.35**	0.32 U
Benzyl chloride	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Bromodichloromethane	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	0.39 U	0.39 U	0.39 U	**0.84 J**	0.39 U UJ	0.39 U	0.39 U
1,3-Butadiene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
2-Butanone (MEK)	**2.8**	**2.2**	**3.1**	**0.92**	**2.6 J**	**0.92 J**	**3.2**
Carbon Disulfide	**1.7**	**0.64**	0.31	**1.2**	**1.0**	**0.77**	**1.1**
Carbon Tetrachloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Chlorobenzene	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Chloroethane	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chloroform	**3.3**	**2.7**	**0.9**	**1.9**	**1.7**	**22**	**2.6**
Chloromethane	**0.73**	**0.28**	**1.1**	0.21 U	0.21 U	**0.83**	0.21 U
Cyclohexane	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Dibromochloromethane	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
1,2-Dibromoethane (EDB)	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
1,2-Dichlorobenzene	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U
1,3-Dichlorobenzene	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U
1,4-Dichlorobenzene	**1.4**	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U
Dichlorodifluoromethane (Freon 12)	**2.2**	**2.2**	**2.3**	**2.5**	**2.1**	**2.3**	**3.1**
1,1-Dichloroethane	0.40 U	0.40 U	0.40 U	**17**	**16**	0.40 U	**76**
1,2-Dichloroethane	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,1-Dichloroethylene	0.40 U	0.40 U	0.40 U	**1.6**	**1.3**	0.40 U	**2.1**
cis-1,2-Dichloroethylene	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
trans-1,2-Dichloroethylene	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
1,2-Dichloropropane	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
cis-1,3-Dichloropropene	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
trans-1,3-Dichloropropene	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U
Ethanol	**3**	**2.4 U**	**24**	**1.9**	**2**	**3**	**2.5 U**
Ethyl Acetate	0.36 U	0.36 U	**0.68**	0.36 U	0.36 U	0.36 U	0.36 U
Ethylbenzene	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
4-Ethyltoluene	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Heptane	**0.67**	0.41 U	**0.88**	0.41 U	0.41 U	**0.56**	0.41 U
Hexachlorobutadiene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Hexane	**1.1**	**0.94**	**3.3**	**0.53**	**0.44**	**1.1**	**0.96**
2-Hexanone (MBK)	**0.7**	**0.66**	0.41 U	0.41 U	**0.63**	**0.44**	**0.59**
Isopropanol	**0.76**	0.25 U	**1.8**	**0.33**	**0.45**	**0.62**	0.25 U
Methyl tert-Butyl Ether (MTBE)	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Methylene Chloride	**1.1 U**	**0.95 U**	**8.2**	**1 U**	**0.76**	**1.7 U**	**1.6**
4-Methyl-2-pentanone (MIBK)	0.41 U	0.41 U	**0.57**	0.41 U	0.41 U	0.41 U	0.41 U
Propene	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Styrene	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,1,2,2-Tetrachloroethane	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Tetrachloroethylene	**3.9**	**5.3**	**4.5**	**1.8**	**1.8**	**4.7**	**21**
Tetrahydrofuran	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Toluene	0.38 U	0.38 U	**3**	0.38 U	0.38 U	**0.53**	**0.66**
1,2,4-Trichlorobenzene	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U
1,1,1-Trichloroethane	**0.69**	0.55 U	**9.4**	**680**	**700**	**15**	**390**
1,1,2-Trichloroethane	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U
Trichloroethylene	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	**1**
Trichlorofluoromethane (Freon 11)	**1.2**	**1.7**	**1.5**	**1.6**	**1.4**	**1.4**	**1.4**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	**1.7**	0.77 U	**0.9**	**3.1**	**2.7**	**0.87**	**1.6**
1,2,4-Trimethylbenzene	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	**2.2**	0.49 U
1,3,5-Trimethylbenzene	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	**1**	0.49 U
Vinyl Acetate	0.35 U	0.35 U	**3.2**	0.35 U	0.35 U	0.35 U	0.35 U
Vinyl Chloride	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
m&p-Xylene	0.87 U	0.87 U	**0.91**	0.87 U	0.87 U	0.87 U	**0.91**
o-Xylene	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	**0.65**	0.43 U

Notes:
U - Compound not detected, reporting limit provided.