



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
Site Classification Report



DATE: 11/4/2011

| | |
|---------------------------------------|---------------------------------------|
| Site Code: 738013 | Site Name: Cole-Zaiser |
| City: Amboy | Town: Amboy |
| Region: 7 | County: Oswego |
| Current Classification: 02 | Proposed Classification: C |
| Estimated Size (acres): 0.50 | Disposal Area: Structure |
| Significant Threat: Previously | Site Type: |
| Priority ranking Score: 0 | Project Manager: John Grathwol |

Summary of Approvals

| | |
|---|-------------------|
| Originator/Supervisor: James Moras | 09/23/2011 |
| RHWRE: Harry Warner: | 10/11/2011 |
| BEEI of NYSDOH: | 10/19/2011 |
| CO Bureau Director: Robert Cozzy, Director, BURB: | 10/14/2011 |
| Assistant Division Director: Robert W. Schick, P.E.: | 11/04/2011 |

Basis for Classification Change

VOC-contaminated soils were excavated and treated via ex-situ soil vapor extraction (SVE) as required by the Record of Decision. Post-excavation soil sample results demonstrate the contaminated soil was completely removed for SVE treatment. Treated soil was backfilled on site after treatment was completed. The results of the groundwater monitoring program indicate that the concentrations of the contaminants of concern meets drinking water standards and Record of Decision cleanup goals for the site (all VOCs range from ND - 4.3 ppb). The Soil Vapor Intrusion No Further Action memorandum was originally approved by DEC/DOH on 4/29/09 as the on-site structures were partially demolished and the off-site structures were not in contact with the ground surface. Since the SVI NFA document was issued, VOC contamination in groundwater meets the ROD objectives and is no longer an issue. With the soil, groundwater and soil vapor intrusion issues properly addressed, this site is no longer a threat to human health and the environment and can be delisted from the NYS Registry of Inactive Hazardous Waste Sites.

Site Description - Last Review: 10/21/2011

Location: The site is located in the Town of Amboy, Oswego County, NY.

Site Features: There are two structures in disrepair on site (a home and an unattached garage).

Current Zoning:



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Site Name: Cole-Zaiser

The site is inactive, and is zoned for commercial use. The surrounding parcels are residential.

Historical Uses:

Cole-Zaiser operated a small waste oil reclamation business on this property from 1973 to 1976. The business operated out of a small cinder block building that is located in a rural part of Oswego County.

Waste motor, hydraulic, crankcase and industrial oils were reclaimed through a filtration/dehydration system that was housed in the building. The waste oils and reclaimed oils were stored in two above ground tanks located adjacent to the building. After the business was discontinued in 1976, all of the reclamation equipment and the storage tanks were removed. The property was sold in 1976, was subsequently used as a private residence, currently vacant.

The drinking water supply well located on the property near the building was sampled by the DOH in 1987. Analysis revealed a low level of trichloroethylene (TCE) at 2 ppb. An additional well water sample and a soil sample were taken by DEC staff in September 1987 which reconfirmed the contaminant levels. A Phase I Investigation was completed for this site in June of 1989, and a Phase II Investigation was concluded in December of 1992. The NYSDOH sampled the nearest off site residential well in 1992, and found that there were significant levels of trichloroethylene (TCE) in the water. A granulated activated charcoal (GAC) filter was installed on the drinking water line at this residence in July of 1993. One of the PRPs signed a Consent Order for a Remedial Investigation/Feasibility Study (RI/FS). The RI/FS was completed, and a Record of Decision (ROD) was signed in early 1999. The selected remedy required ex-situ Soil Vapor Extraction and installation of a new drinking water well for a local resident. Source remediation and site restoration was completed in July 2002. On-site deed restrictions are executed. A soil vapor intrusion (SVI) evaluation was completed in April 2009. A groundwater monitoring program was completed in 2009 as the sampling results met ROD objectives.

Operable Units:

The site was divided into two operable units.

An operable unit represents a portion of a remedial program for a site that for technical or administrative reasons can be addressed separately to investigate, eliminate or mitigate a release, threat of release or exposure pathway resulting from the site contamination.

Operable unit 1 (OU1) pertains to the remedial program for the site as specified by the Record of Decision. The soil source of the VOC contamination was treated by ex-situ soil vapor extraction. The groundwater was monitored until drinking water standards were met.

Operable unit 2 (OU2) pertains to the evaluation of soil vapor intrusion which was completed.

Site Geology and Hydrogeology:

This site lies within the eastern portion of the Erie-Ontario Plain physiographic province, near the western edge of the Tug Hill plateau. The predominant source of groundwater in the area is bedrock. Groundwater is also present in the overburden, but sustained well yields are quite low. The water table parallels the topography of the land surface and occurs at an average depth of 17 feet. The entire population within a



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3-mile radius of the site is served by private supply wells as there are no public water supply systems in the area.

Current Status:

The Department began the process to delist this site from the NYS Registry of Inactive Hazardous Waste sites.

| Contaminants of Concern (Including Materials Disposed) | Quantity Disposed |
|---|--------------------------|
| OU 01 | |
| TRICHLOROETHENE (TCE) | 0.00 |
| DICHLOROETHYLENE | |
| 1,1,2-TRICHLOROETHANE | |

Analytical Data Available for : Groundwater, Drinking Water, Soil, Soil Vapor, Indoor Air

Applicable Standards Exceeded for: Groundwater, Drinking Water

Site Environmental Assessment- Last Review: 10/21/2011

The soil source of contamination has been remediated. The groundwater monitoring program is completed as all groundwater sampling results meet Record of Decision objectives. Therefore, remediation at the site is complete and the site no longer presents a significant threat to the environment.

Site Health Assessment - Last Update: 10/21/2011

There are no concerns for human exposures because the site has been successfully cleaned up.

| | Start | | End | |
|------------------------|----------|-----|----------|-----|
| OU 00 | | | | |
| Site Management | 1/1/01 | ACT | 3/31/12 | PLN |
| OU 01 | | | | |
| OGC Docket - Other | 4/30/10 | ACT | 7/31/10 | ACT |
| Reclass Pkg. | 9/26/11 | ACT | 12/31/11 | PLN |
| Remedial Action | 5/15/01 | ACT | 7/17/02 | ACT |
| Remedial Design | 12/27/00 | ACT | 5/10/01 | ACT |
| Remedial Investigation | 6/1/95 | ACT | 12/1/98 | ACT |
| Site Characterization | 2/1/90 | ACT | 9/1/92 | ACT |
| OU 01A | | | | |
| Remedial Action | 1/1/93 | ACT | 9/1/93 | ACT |
| OU 02 | | | | |
| VI Evaluation | 1/4/07 | ACT | 4/29/09 | ANF |

Remedy Description and Cost

Remedy Description for Operable Unit 01

The selected remedy in the ROD included the excavation of contaminated subsurface soil, and on-site treatment of that soil using ex-situ soil vapor extraction. Treated soil was backfilled on site



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after treatment was completed. An impacted off-site residential well was replaced with a new well outside the area of groundwater contamination. Deed restrictions were placed on the site and impacted residential property. The estimated present worth to implement the remedy from the Record of Decision is \$554,300.

Total Cost

Remedy Description for Operable Unit 01A

Installation and O&M of one GAC system until off-site private water supply well was installed.

Total Cost

Remedy Description for Operable Unit 02

Total Cost

OU 00

Site Management Plan Approval: 01/01/2001

Status: ACT



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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Form
11/4/2011

SITE DESCRIPTION

SITE NO. 738013

SITE NAME Cole-Zaiser

SITE ADDRESS: Little Pond Road ZIP CODE: 13493

CITY/TOWN: Amboy

COUNTY: Oswego

ALLOWABLE USE:

SITE MANAGEMENT DESCRIPTION

SITE MANAGEMENT PLAN INCLUDES: YES NO

IC/EC Certification Plan

Monitoring Plan

Operation and Maintenance (O&M) Plan

Periodic Review Frequency: once a year

First Periodic Review Date:



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Site Name: Cole-Zaiser

Description of Institutional Control

0

Not Applicable/No IC's

Description of Engineering Control

Not Applicable/No EC's

NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

October 19, 2011

Mr. Robert Cozzy
Division of Environmental Remediation
NYS Dept. of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7017

Re: Classification Package
Cole-Zaiser
Site #738013
Amboy (T), Oswego County

Dear Mr. Cozzy:

Staff reviewed the *Classification Package* (September 2011) for the Cole Zaiser site which proposes to delist the site from the Registry of Inactive Hazardous Waste Sites in New York State. I understand remedial actions have been completed at the site and included the excavation of volatile organic compound contaminated soil, as well as the treatment of those soils via ex-situ soil vapor extraction. A groundwater monitoring program has been completed as all groundwater sampling results meet drinking water standards. Lastly, I also understand that a Soil Vapor Intrusion No Further Action Memo was signed and completed in April 2009.

Based on the available information, I concur with the delisting of the site on the Registry of Inactive Hazardous Waste Sites in New York State. If you have any questions, please call me at (518) 402-7850.

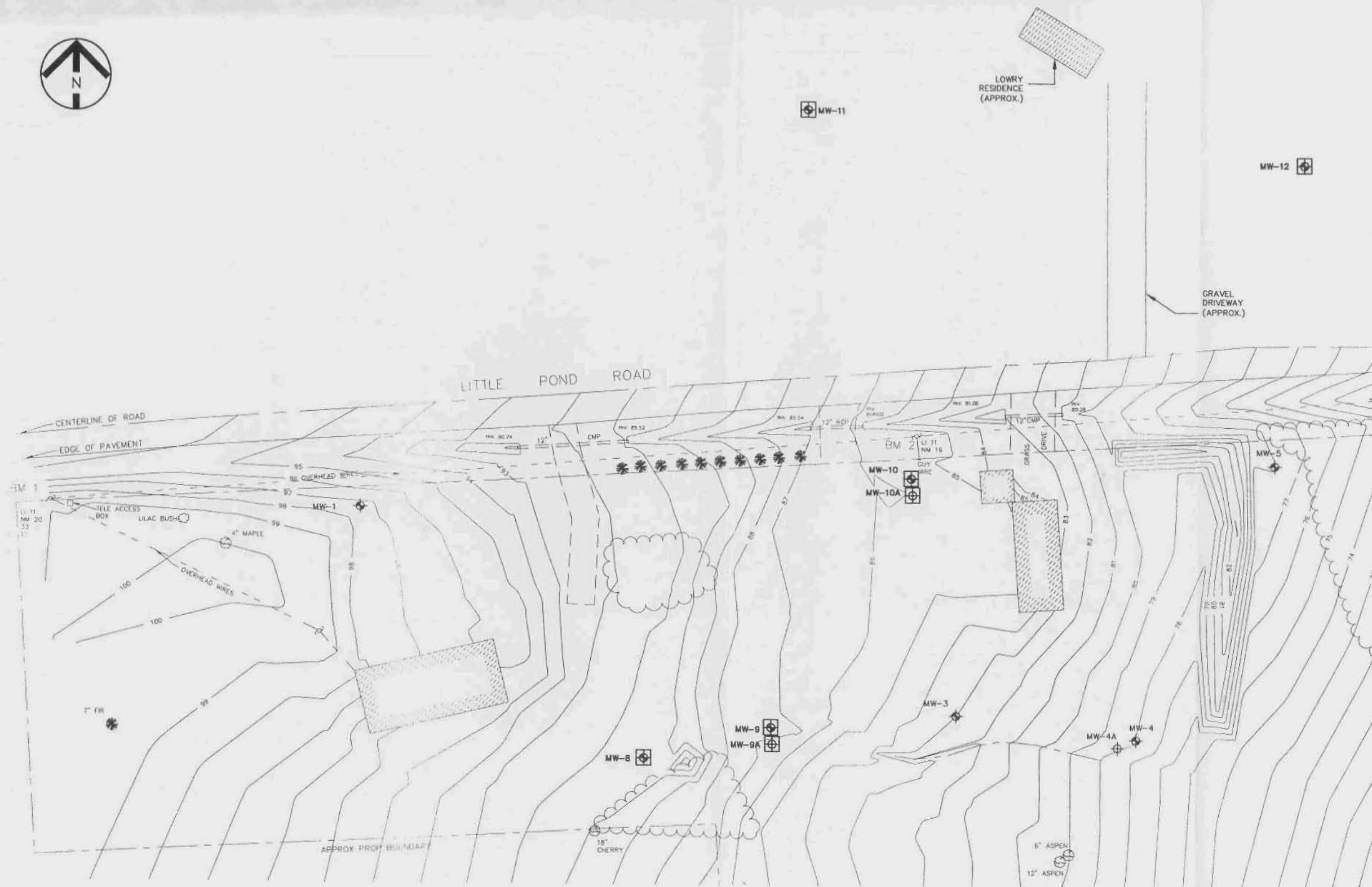
Sincerely,



Steven M. Bates, Acting Bureau Director
Bureau of Environmental Exposure Investigation

ec: A. Salame-Alfie, Ph.D.
K. Anders / G. Laccetti / File
H. Warner – DEC Region 7
R. Schick/ J. Grathwol – DEC Central
K. Lewandowski - NYSDEC, Central

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| RECORD DRAWINGS | | | DATE | BY |
| | | | | |

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 DRAWN COB DATE 2/23/2001
 CHECKED MJM JOB NO 49-C2000055
 SCALE AS SHOWN

EXISTING AND PROPOSED MONITORING WELL LOCATIONS

COLE-ZAISER SITE
 AMBOY TOWNSHIP, NEW YORK

URS
FIGURE 2

- LEGEND
- ◆ EXISTING SHALLOW MONITORING WELL
 - ⊕ EXISTING INTERMEDIATE/DEEP MONITORING WELL
 - ⊕ PROPOSED SHALLOW MONITORING WELL
 - ⊕ PROPOSED SHALLOW/INTERMEDIATE MONITORING WELL



BAR IS ONE-INCH ON ORIGINAL DRAWING
 IF NOT ONE-INCH, THEN ADJUST SCALES ACCORDINGLY

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New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau E, 12th Floor
625 Broadway, Albany, New York 12233-7017
Phone: (518) 402-9814 • FAX: (518) 402-9819
Website: www.dec.ny.gov



Alexander B. Grannis
Commissioner

MEMORANDUM

TO: Sal Ervolina, Assistant Director, Division of Environmental Remediation

FROM: Robert C. Knizek, Director, Remedial Bureau E, NYSDEC *Rob*
Steven Bates, Assistant Director, Bureau of Environmental Exposure *SB*
Investigation, NYSDOH *Ref*

SUBJECT: Soil Vapor Intrusion Evaluation Determination: **No Further Action**
Site No. 7-38-013, Cole-Zaiser
Amboy (T), Oswego County

DATE: APR 29 2009

NYSDEC Program Policy DER-13 states that vapor intrusion evaluations will be performed at all remedial sites with known or likely subsurface volatile organic chemical (VOC) contamination where remedial decisions were made prior to January 1, 2003. Using the procedures outlined in DER-13 and the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, the vapor intrusion exposure pathway was evaluated at the above-referenced site. This memorandum describes the results of the NYSDEC/NYSDOH evaluation. Based upon the information referenced below, current or potential vapor intrusion exposures associated with the site have been evaluated and the NYSDEC and NYSDOH have determined that:

No additional investigation or remedial measures are needed at this time to address the soil vapor intrusion exposure pathway.

Evaluation Summary

The vapor intrusion evaluation included a review of historical information from the Remedial Investigation (copy attached), as well as discussions with NYSDEC and NYSDOH project managers and section chiefs/regional engineers responsible for the site. Upon review of the available information pertaining to the above-referenced site and the current land use, it has been determined that no additional investigation or remedial measures are needed at this time to address the soil vapor intrusion exposure pathway.

This determination is based primarily on the following site conditions (check all that apply):

- No subsurface source of VOCs***
Review of post-remediation confirmatory soil sampling and groundwater monitoring data demonstrates that no subsurface sources of VOCs are known to exist at the site.
- VOCs not detected in soil vapor or measured below levels of concern***
Recent soil vapor data collected as part of the vapor intrusion evaluation effort indicate that VOCs are either not currently present in the soil vapor, or are present at concentrations which do not require further action to address the vapor intrusion exposure pathway. (Note: In almost all cases, sub-slab soil gas data are needed to support a "below levels of concern" decision under this scenario. In unusual cases, where the only presence of low level VOCs is in isolated soil gas monitoring well samples, a "below levels of concern" decision will be considered.)
- Clean zone of groundwater above the contaminated zone is precluding the migration of soil vapor***
Groundwater data indicate that the site-related VOC contamination is limited to deeper portions of the aquifer and no VOC contamination is present in the shallow groundwater.
- No current or potential exposures to contaminated soil vapors***

The structures above the site-related groundwater and soil VOC contamination are vacant or have been demolished; there is no current route of exposure via vapor intrusion. In accordance with 6NYCRR Part 375, the Responsible Party must notify the Commissioner of DEC and DOH of any changes in use. There are executed deed restrictions in place for the use of this site property.

- Exposures have been demonstrated to be occupational (or due to other indoor sources that are not attributable to vapor intrusion), rather than environmental***
There is sufficient analytical data and site information to demonstrate that current exposures are occupational (or due to other indoor sources that are not attributable to vapor intrusion) and are not related to exposure to subsurface contaminants through the soil vapor intrusion pathway and that levels of VOCs in the sub-slab vapor do not indicate a need for actions to address the potential for future exposures.
- Exposures have been demonstrated to be occupational (or due to other indoor sources that are not attributable to vapor intrusion), rather than environmental***
There is sufficient analytical data and site information to demonstrate that current exposures are occupational (or due to other indoor sources that are not attributable to vapor intrusion) and are not related to exposure to subsurface contaminants through the soil vapor intrusion pathway. However, given sub-slab vapor data, the Responsible Party (NAME) must notify the Commissioner of DEC and DOH of any changes in use in accordance with 6NYCRR Part 375.

Summary Explanation

The site is located in the Town of Amboy, Oswego County, NY. Cole-Zaiser operated a small waste oil reclamation business on this property from 1973 to 1976. The business operated out of a small cinder block building (now vacant) that is located in a rural part of Oswego County.

Two surrounding parcels to the west and north are residential. The rest of the site is surrounded by undeveloped, wooded property.

The on-site structures above the site-related groundwater and soil VOC contamination are vacant or have been demolished. As for the adjacent off-site structures, there are no current routes of soil vapor intrusion exposure.

The source of contamination was remediated via ex-situ vacuum extraction in 2001 and 2002. This site is in the Site Maintenance phase of the project. Groundwater monitoring is performed annually. Attached are the post-excavation soil sample results and groundwater monitoring data.

In accordance with 6NYCRR Part 375, Borg-Warner must notify the Commissioner of DEC and DOH of any changes in use. There are executed deed restrictions in place for the use of this site property. Private use of the on-site groundwater is restricted until all monitoring wells reaching the Record of Decision (ROD) objectives.

There is no public water supply in this area. The PRP successfully installed a new well for the residence north of the site. The Department tested the well and tap water of the residence west of the site. Both private wells sample results were non-detect for the contaminants of concern specified by ROD.

Summary Explanation (continued)

Enclosed is a map of the monitoring wells for the site. The well depths for MW-11 and MW-12 are both 14 feet. Three shallow wells (TMB-01, TMB-02 and TMB-03) are also located North of the site. The well depths of TMB-01, TMB-02 and TMB-03 are 12.7 feet, 10.8 feet and 14.2 feet, respectively.

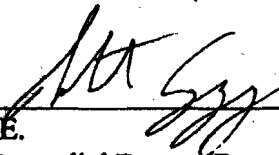
TMB-02 and TMB-03, are hand dug wells, have a three-foot diameter, and have precast concrete covers. These two wells were primarily used for lawn sprinkling, but are now out of service.

TMB-01 was the original private drinking water supply well for the residence North of the site and was properly abandoned after the PRP installed another drinking water supply well. This active drinking water supply well is 153-feet deep and is labeled as TMB-04 on the enclosed map.

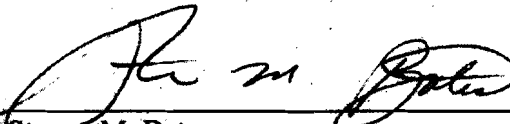
Based upon the information referenced above, current or potential vapor intrusion exposures associated with the site have been evaluated and the NYSDEC and NYSDOH have determined that no further action is necessary for this SVI legacy site.

Concurrence/Signatures

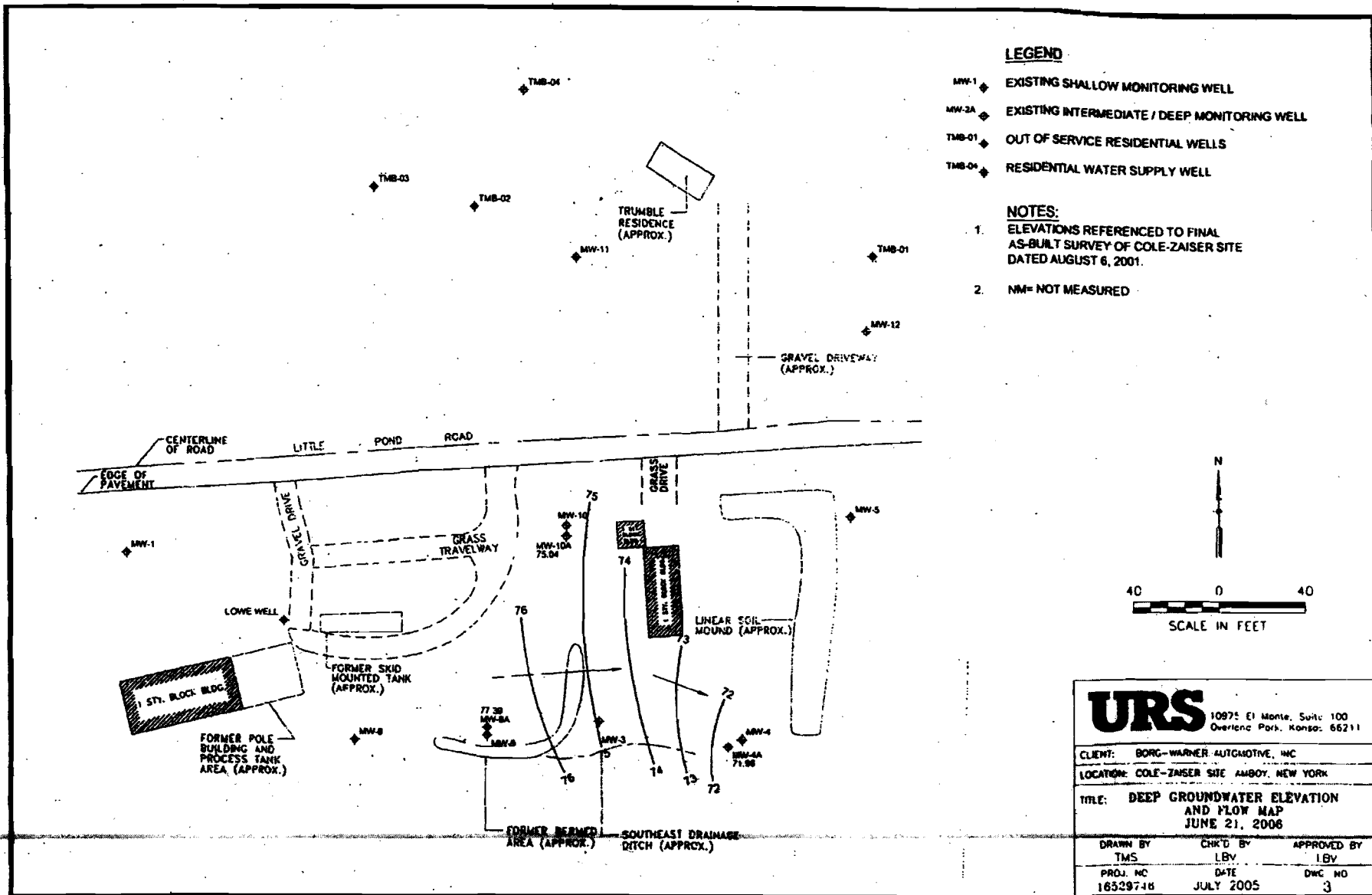
REMEDIATION BUREAU DIRECTOR (OR DSHM BUREAU DIRECTOR AS APPROPRIATE)


Date 4/15/09
Robert Cozzy, P. E.
Acting Director, Remedial Bureau B
New York State Department of Environmental Conservation

DEPARTMENT OF HEALTH

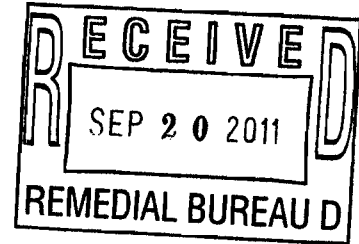

Date 4/24/09
Steven M. Bates
Assistant Director, Bureau of Environmental Exposure Investigation
New York State Department of Health

ecc: M. J. Peachey, DEC Region 7
G. Townsend, Region 7 DER
K. Anders, DOH
R. Jones, DOH
W. Wertz
E. Hausmann
eDocs
Oswego County Health Department





September 14, 2011
URS Project 16530332



John C. Grathwol
Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
12th Floor
Albany, NY 12233-7016

Subject: Revised Results of Post-Remediation Groundwater Monitoring
and Request for Site Closure
Cole-Zaiser Site (Site Code 7-38-013)

Dear Mr. Grathwol:

Following the completion of a remedial investigation/feasibility study (RI/FS) and remedial design (RD), excavation and ex-situ treatment of the contaminated material from the Cole-Zaiser Site took place beginning in June 2001. The remedial action was substantially complete in 2001, with final activities certified complete as of July 2002. Please refer to the Construction Completion Report prepared by URS Corporation (URS) dated January 2003. Monitoring data have been submitted to the NYSDEC periodically since that time, with sampling occurring quarterly until late 2003, semi-annually from 2003 to 2005, and annually from selected wells thereafter.

This letter contains updated data and a second request for closure of the site (with the first request for closure having been submitted in July 2007).

ACTION REQUESTED

URS, on behalf of BorgWarner Inc. (BorgWarner), requests that the Cole-Zaiser site (Site Code 7-38-013) be closed and the consent decree be terminated. We note that, according to the NYSDEC environmental database, the "Department is currently drafting a reclassification package to delist the site from the NYS Inactive Hazardous Waste Site Registry." We support this reclassification and request that the NYSDEC promptly complete this process.

REMEDIAL ACTION OBJECTIVES ACHIEVED

Several documents prepared for the site include the site remedial action objectives. The Groundwater Monitoring and Post-Construction Operation & Maintenance Plan (URS, 2001) includes the following description of the remedial goals:

Mr. John C. Grathwol
NYSDEC
September 14, 2011
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- Reduce, control, or eliminate to the extent practicable the contamination present within the subsurface soils to minimize or eliminate the potential for direct contact and future leaching to groundwater
- Eliminate the potential for direct contact or consumption of contaminated groundwater by on-site or off-site receptors
- Provide for the attainment of site-specific cleanup goals for groundwater quality to the extent practicable

The first two remedial goals have been met by the implementation of the remedy, including the deed restrictions imposed on the site itself (previously owned by the now deceased Ms. Dorothy Lowe) and the property to the north (owned by Mr. Michael Lowry). This letter contains a discussion of the attainment of site-specific cleanup goals for groundwater quality to the extent practicable.

GROUNDWATER MONITORING AND O&M PLAN IMPLEMENTED

The Groundwater Monitoring and Post-Construction Operation & Maintenance Plan states that “[a]fter five years of sampling, the groundwater monitoring program will be reevaluated.” This letter summarizes the reevaluation of the groundwater monitoring program by providing information in support of BorgWarner’s assertion that all conditions of the Consent Decree (Docket 00-CV-1951) have been met.

RECORD OF DECISION SATISFIED

The Record of Decision (ROD) summarizes the remediation goals as follows:

- Reduce, control, or eliminate to the extent practicable the contamination present within the soils on site and their impact to groundwater.
- Eliminate the potential for direct human or animal contact with the contaminated soils on site.
- Mitigate the impacts of contaminated groundwater to the environment.
- Provide for the attainment of site-specific cleanup goals for groundwater quality at the limits of the area of concern (AOC), to the extent practicable.

Again, each of these remedial goals has been met and this letter provides data indicating the remedy has mitigated the impacts of contaminated groundwater and site-specific cleanup goals for groundwater have largely been achieved at the limits of the area of concern.

The ROD also describes the elements of the remedy. The following elements of the remedy discussed in the ROD pertain to groundwater:

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September 14, 2011
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- “4. To provide treatment of the groundwater component of the contamination source, in and adjacent to the source area, the excavation will be left open and groundwater will continue to be collected and removed for treatment/disposal. The intent of the groundwater removal is not to aggressively dewater the formation, but to remove the groundwater component of the source area. The removal would be ended based upon the hydraulic conditions at the site, after a time period to be determined by the NYSDEC.”

Comment: Over 3,600 gallons of groundwater were removed, treated, and discharged as permitted on-site at a rate of less than 20 gallons per minute as part of the remediation of the site.

- “8. As early in the process as possible, a new well will be installed on the residential property at a location which is side gradient to the existing groundwater contamination. This well will be sampled semi-annually for a period of two years. If the well remains free from contamination over this period, monitoring of the residential well will cease. If the well becomes contaminated, potable water will be provided by other means.”

Comment: A new well was installed on the Lowry property in October 2000 in a location cross-gradient from the site. The new water supply well was sampled on 3 occasions: November 30, 2000, January 2, 2001, and March 14, 2001. The well was free of site-related contaminants.

- “9. A written notification will be affixed to the deeds of the property comprising the Cole-Zaiser site and the adjacent property with an impacted well, at the Oswego County Recorder’s Office which will prohibit the use of currently existing wells, prevent the installation of any additional potable or non-potable groundwater supply well, and the excavation of basements in the area of groundwater contamination on both properties. If an agreement cannot be reached, other means of addressing groundwater contamination will be pursued.”

Comment: Deed restrictions for both the Lowe property and the Lowry property have been recorded appropriately.

- “10. Periodic groundwater samples will be collected and analyzed from monitoring wells until contaminants are below groundwater standards. The site will be periodically evaluated to determine whether a change in classification on the Registry of Inactive Hazardous Waste Disposal Sites is warranted.”

Comment: Groundwater samples have been collected and analyzed from 11 downgradient monitoring wells and one upgradient well on at least 11 occasions since the completion of the remediation. The results are discussed below.

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 NYSDEC
 September 14, 2011
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GROUNDWATER CLEANUP GOALS ACHIEVED TO THE EXTENT PRACTICABLE

A total of 170 groundwater samples have been collected from nineteen wells at the site. Twelve monitoring wells presently exist at the site and these wells have been sampled from 11 to 17 times each. Nine additional wells were either destroyed or removed and replaced as part of remedial activities; these wells had been sampled at least once but in most cases three times prior to remediation.

The table below provides a history of the wells at the site, including total number of times sampled, first and last dates sampled, and whether or not the most recent sampling event in November 2009 (or July 2010 in the case of MW-10a) demonstrates that groundwater concentrations are below site cleanup goals. Table 1, attached to this letter, provides post-construction analytical results for volatile organic compounds (VOCs). Figure 1 shows the decline post-construction in total VOC concentrations in the monitoring wells. Attachments 1 and 2 provide analytical laboratory data for the past 2 sampling events (November 12, 2009 and one sample from July 15, 2010).

Concentrations of total VOCs in all monitoring wells currently installed at the site are non-detect or below detection limits.

The remediation occurred in the vicinity of MW-3 and during the remedial investigation, MW-3 was the second most highly contaminated well (next to MW-7 which was located immediately north of the former bermed area where contaminated materials were believed to have collected at times during the operation of the oil recycling facility in the 1970s). The results of monitoring at monitoring well MW-3 indicate a dramatic reduction in the concentrations of total VOCs post-construction (a reduction to less than detection limits in 2009 from 965 µg/l total VOCs in 2002 and from 8629 µg/l in 1997 prior to remediation). Thus, the removal of contaminated groundwater and the removal of contaminated soil impacting groundwater during remediation achieved the remedial action objective of attaining site-specific cleanup goals for groundwater.

| Well No. | Number of Times Sampled | First Date Sampled | Last Date Sampled | Meets Site Cleanup Goals |
|-------------------|--------------------------------|---------------------------|--------------------------|--|
| MW-1 (upgradient) | 17 | 7/26/1996 | 11/12/2009 | All VOCs below detection limits |
| MW-2 | 3 | 7/26/1996 | 10/28/1997 | Removed during construction-replaced by MW-8 |
| MW-2A | 1 | 2/7/1997 | 2/7/1997 | Removed during construction |
| MW-3 | 16 | 7/26/1996 | 11/12/2009 | Yes, VOCs below detection limits |
| MW-4 | 14 | 7/26/1996 | 11/12/2009 | Yes, all VOCs below detection limits |
| MW-4A | 13 | 7/26/1996 | 11/12/2009 | Yes, all VOCs non-detect |

Mr. John C. Grathwol
 NYSDEC
 September 14, 2011
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| Well No. | Number of Times Sampled | First Date Sampled | Last Date Sampled | Meets Site Cleanup Goals |
|----------|-------------------------|--------------------|-------------------|--|
| MW-5 | 14 | 7/26/1996 | 11/12/2009 | Yes, all VOCs below detection limits |
| MW-6 | 3 | 7/26/1996 | 10/28/1997 | Removed during construction-replaced by MW-10 |
| MW-6A | 1 | 1/23/1997 | 1/23/1997 | Removed during construction-replaced by MW-10A |
| MW-7 | 2 | 7/26/1996 | 1/23/1997 | Removed during construction-replaced by MW-9 |
| MW-7A | 1 | 1/23/1997 | 1/23/1997 | Removed during construction-replaced by MW-9A |
| MW-7B | 1 | 1/23/1997 | 1/23/1997 | Removed during construction |
| MW-8 | 11 | 7/31/2002 | 11/12/2009 | Yes, all VOCs non-detect |
| MW-9 | 11 | 7/31/2002 | 11/12/2009 | Yes, all VOCs non-detect |
| MW-9A | 11 | 7/31/2002 | 11/12/2009 | Yes, all VOCs non-detect |
| MW-10 | 11 | 7/31/2002 | 11/12/2009 | Yes, all VOCs non-detect |
| MW-10A | 15 | 7/31/2002 | 7/15/2010 | Yes, VOCs below detection limits |
| MW-11 | 11 | 7/31/2002 | 11/12/2009 | Yes, all VOCs non-detect |
| MW-12 | 14 | 7/31/2002 | 11/12/2009 | Yes, all VOCs below detection limits |

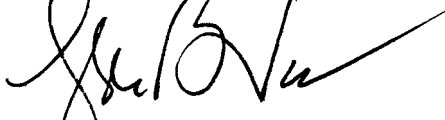
Shallow and deep groundwater flow at the site remains the same as prior to site remediation. See Figures 2 and 3 for groundwater contours showing flow direction as of June 2006.

BorgWarner has satisfied its obligation to sample for 5 years following implementation of the remedy. Groundwater cleanup goals have been met to the extent practicable. Therefore, we respectfully request:

- The state approve the closure of the site pursuant to the consent decree and a recommendation be issued to terminate the consent decree.
- The classification of the site promptly be changed from Class 2 to Class 5.

We appreciate your consideration of this request and look forward to your response.

Very truly yours,
URS CORPORATION



Leslie B. Voss, P.E., BCEE
 Senior Program Manager

Mr. John C. Grathwol
NYSDEC
September 14, 2011
Page 6 of 6

Attachments:

Table 1 Post-Construction Groundwater Data Summary

Figure 1 Decline in Total VOCs Post-Construction

Figure 2 Shallow Groundwater Elevations and Flow Map – June 21, 2006

Figure 3 Shallow Groundwater Elevations and Flow Map – June 21, 2006

Attachment 1 Laboratory Analytical Data November 12, 2009 Sampling Event

Attachment 2 Laboratory Analytical Data for July 15, 2010 Sampling Event (one sample)

**cc: Peter Holmes, BorgWarner Inc.
Jane E. Montgomery, Schiff Hardin LLP**

TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.

| Constituents of Concern | NYSDEC Criteria | MW-1 | | | | | | | | | | | | | |
|----------------------------|-----------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|----------|----------|------------|
| | Date Sampled | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/6/2004 | 6/30/2005 | 11/10/2005 | 6/21/2006 | 10/3/2007 | 4/8/2008 | 4/1/2009 | 11/12/2009 |
| Tetrachloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,1-Trichloroethane | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| cis -1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trans -1,1-Dichloroethene | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Vinyl Chloride | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | - | 0.8 J | - | - | - | - | - | 0.65 J |
| Ethylbenzene | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Xylenes | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.41 J |
| Methylene Chloride | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MIBK | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | -- | 4 JB | - | - | - | - | - | - | - | - | - | 4 J | - | 1.6 J | - |
| Total VOCs | | 4 JB | - | - | - | - | - | - | 1 J | - | - | 4 J | - | 1.6 J | 1.06 J |

Notes

All analytical results are presented in ug/l (ppb)

Bold values indicate exceedances of closure criteria

- = Not detected

-- = No criteria available

NS = Not sampled

J - Result estimated below quantitation limit

D - Concentration estimated from a dilution of the sample.

B - Compound detected in trip blank

TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.

| Constituents of Concern | NYSDEC Criteria | MW-3 | | | | | | | | | | | | | |
|----------------------------|-----------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|----------|----------|------------|
| | Date Sampled | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/6/2004 | 6/30/2005 | 11/10/2005 | 8/21/2006 | 10/3/2007 | 4/8/2008 | 4/1/2009 | 11/12/2009 |
| Tetrachloroethene | 5 | 19 JD | 25 JD | 8 J | 6 J | 8 J | 2 J | NS | - | - | - | 0.3 J | - | - | - |
| Trichloroethene | 5 | - | 6 JD | 1 J | - | - | - | NS | - | - | - | - | - | - | 0.39 J |
| 1,1,1-Trichloroethane | 5 | 23 JD | 26 JD | 4 J | - | - | - | NS | - | - | - | - | - | - | - |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | 18 | 3 J | NS | 2.5 J | - | - | 3.6 J | 0.4 J | - | - |
| 1,1-Dichloroethene | 5 | - | - | - | - | - | - | NS | - | - | - | - | - | - | - |
| cis -1,1-Dichloroethene | 5 | 140 D | 210 JD | - | - | - | - | NS | - | 3 J | 1 J | - | - | - | - |
| Trans -1,1-Dichloroethene | -- | 10 JD | 12 JD | - | - | - | - | NS | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | 33 JD | 31 JD | 10 J | 7 J | 8 J | 2 J | NS | 1 J | 1 J | - | 1 J | - | - | - |
| Vinyl Chloride | 2 | 740 D | 480 JD | 89 | 71 | 77 | 11 | NS | 5 J | 6 J | 2 J | 7 J | - | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | NS | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | NS | - | - | - | - | - | - | - |
| Ethylbenzene | 5 | - | - | - | - | - | - | NS | - | - | - | - | - | - | - |
| Total Xylenes | 5 | - | - | - | - | - | - | NS | - | - | - | - | - | - | - |
| Methylene Chloride | -- | - | - | - | - | - | - | NS | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | -- | - | - | - | - | - | - | NS | - | - | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | -- | - | - | - | - | - | - | NS | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | NS | 0.6 J | - | - | - | - | - | - |
| Acetone | -- | - | - | - | - | - | - | NS | - | 1 J | - | 4 J | 1 J | 1.7 J | 2.0 J |
| Total VOCs | | 965 | 790 | 112 | 84 | 111 | 18 | NS | 9 J | 11 J | 3 J | 16 J | 1.4 J | 1.7 J | 2.39 J |

Notes

All analytical results are presented in ug/l (ppb)

Bold values indicate exceedances of closure criteria

-- = Not detected

-- = No criteria available

NS = Not sampled

J - Result estimated below quantitation limit

D - Concentration estimated from a dilution of the sample

B - Compound detected in trip blank

TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.

| Constituents of Concern | NYSDEC Criteria | MW-4 | | | | | | | | | | |
|----------------------------|-----------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|
| | Date Sampled | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/6/2004 | 6/30/2005 | 11/10/2005 | 6/21/2006 | 11/12/2009 |
| Tetrachloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,1-Trichloroethane | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| cis -1,1-Dichloroethene | 5 | 1 J | - | - | - | - | - | - | - | - | - | - |
| Trans -1,1-Dichloroethene | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Vinyl Chloride | 2 | 3 J | - | - | - | - | - | - | - | - | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | - | - | - | - | 0.34 J |
| Ethylbenzene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Total Xylenes | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Methylene Chloride | -- | - | - | - | - | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | -- | - | - | - | - | - | - | - | - | - | - | - |
| MIBK | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | -- | - | - | 10 | 6 J | - | - | - | - | 3 J | - | 8.9 J |
| Total VOCs | | 4 J | - | 10 | 6 J | - | - | - | - | 3 J | - | 8.24 J |

Notes

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- = No criteria available
- NS = Not sampled
- J - Result estimated below quantitation limit
- D - Concentration estimated from a dilution of the sample
- B - Compound detected in trip blank

**TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.**

| Constituents of Concern | NYSDEC Criteria | MW-4A | | | | | | | | | | |
|----------------------------|-----------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|
| | Date Sampled | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/6/2004 | 6/30/2005 | 11/10/2005 | 6/21/2006 | 11/12/2009 |
| Tetrachloroethene | 5 | - | - | - | - | - | - | - | - | - | 0.6 J | - |
| Trichloroethene | 5 | - | - | - | - | - | - | - | 0.8 J | - | 0.7 J | - |
| 1,1,1-Trichloroethane | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | - | - | - | 0.6 J | - | - | - |
| 1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| cis -1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Trans -1,1-Dichloroethene | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Vinyl Chloride | 2 | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Total Xylenes | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Methylene Chloride | -- | - | - | - | - | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | -- | - | - | - | - | - | - | - | - | - | - | - |
| MIBK | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | -- | 4 JB | - | - | - | - | - | - | 5 J | 3 J | 3 J | 2.6 J |
| Total VOCs | | 4 JB | - | - | - | - | - | - | 6 J | 3 J | 4.3 J | 2.6 J |

Notes

- All analytical results are presented in ug/l (ppb)
- Bold values indicate exceedances of closure criteria
- = Not detected
- = No criteria available
- NS = Not sampled
- J - Result estimated below quantitation limit
- D - Concentration estimated from a dilution of the sample
- B - Compound detected in trip blank

TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.

| Constituents of Concern | NYSDEC Criteria | MW-5 | | | | | | | | | | |
|----------------------------|-----------------|-------------|-------------|-----------|-----------|------------|------------|-----------|-----------|------------|-----------|---------------|
| | Date Sampled | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/6/2004 | 6/30/2005 | 11/10/2005 | 6/21/2006 | 11/12/2009 |
| Tetrachloroethene | 5 | - | - | - | - | - | - | - | - | - | - | 0.53 J |
| Trichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | 0.31 J |
| 1,1,1-Trichloroethane | 5 | 18 | 6 J | - | - | 31 | 2 J | - | - | 3 J | - | - |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | 5 J | - | - | - | - | - | - |
| 1,1-Dichloroethene | 5 | - | - | - | - | 32 | - | - | - | - | - | - |
| cis -1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Trans -1,1-Dichloroethene | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | 12 | 4 J | - | - | - | 2 J | - | - | 4 J | - | - |
| Vinyl Chloride | 2 | 2 J | - | - | - | 4 J | - | - | - | - | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Total Xylenes | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Methylene Chloride | -- | - | - | - | - | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | | | | | | | | | | | | |
| MIBK | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | -- | 5 JB | - | - | - | - | - | - | - | - | - | - |
| Total VOCs | | 37 | 10 J | - | - | 72 | 4 J | - | - | 7 J | - | 0.84 J |

Notes

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- NS = Not sampled
- J - Result estimated below quantitation limit
- D - Concentration estimated from a dilution of the sample
- B - Compound detected in trip blank

TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.

| Constituents of Concern | NYSDEC Criteria | MW-8 | | | | | | | | | | |
|----------------------------|-----------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|
| | Date Sampled | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/6/2004 | 6/30/2005 | 11/10/2005 | 6/21/2006 | 11/12/2009 |
| Tetrachloroethene | 5 | 1 J | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,1-Trichloroethane | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| cis -1,1-Dichloroethene | 5 | 2 J | 1 J | - | - | - | - | - | - | - | - | - |
| Trans -1,1-Dichloroethene | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Vinyl Chloride | 2 | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Total Xylenes | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Methylene Chloride | -- | - | - | - | - | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | | | | | | | | | | | | |
| MIBK | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | -- | 7 JB | 4 J | - | - | - | - | - | 3 J | 2 J | - | 2.3 J |
| Total VOCs | | 10 J | 5 J | - | - | - | - | - | 3 J | 2 J | - | 2.3 J |

Notes

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- Bold values indicate exceedances of closure criteria
- = Not detected
- = No criteria available
- NS = Not sampled
- J - Result estimated below quantitation limit
- D - Concentration estimated from a dilution of the sample
- B - Compound detected in trip blank

TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.

| Constituents of Concern | NYSDEC Criteria | MW-9 | | | | | | | | | | |
|----------------------------|-----------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|
| | Date Sampled | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/8/2004 | 6/30/2005 | 11/10/2005 | 6/21/2006 | 11/12/2009 |
| Tetrachloroethene | 5 | - | 1 J | - | - | - | - | - | - | - | - | - |
| Trichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,1-Trichloroethane | 5 | - | 2 J | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| cis -1,1-Dichloroethene | 5 | - | 5 J | - | - | - | - | - | - | - | - | - |
| Trans -1,1-Dichloroethene | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | - | 6 J | - | - | - | - | - | - | - | - | - |
| Vinyl Chloride | 2 | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Total Xylenes | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Methylene Chloride | -- | - | - | - | - | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | | | | | | | | | | | | |
| MIBK | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | -- | 5 JB | - | - | - | - | - | - | - | - | - | - |
| Total VOCs | | 5 JB | 14 J | - | - | - | - | - | - | - | - | - |

Notes

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- Bold values indicate exceedances of closure criteria
- = Not detected
- = No criteria available
- NS = Not sampled
- J - Result estimated below quantitation limit
- D - Concentration estimated from a dilution of the sample
- B - Compound detected in trip blank

**TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.**

| Constituents of Concern | NYSDEC Criteria | MW-9A | | | | | | | | | | |
|----------------------------|-----------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|
| | Date Sampled | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/6/2004 | 6/30/2005 | 11/10/2005 | 6/21/2006 | 11/12/2009 |
| Tetrachloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,1-Trichloroethane | 5 | 26 | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| cis -1,1-Dichloroethene | 5 | 11 | - | - | - | - | - | - | - | 1 J | - | - |
| Trans -1,1-Dichloroethene | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | 4 J | - | - | - | - | - | - | - | 1 J | - | - |
| Vinyl Chloride | 2 | 2 J | - | - | - | - | - | - | - | 0.9 J | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Total Xylenes | 5 | 3 J | - | - | - | - | - | - | - | - | - | - |
| Methylene Chloride | -- | - | - | - | - | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | | | | | | | | | | | | |
| MIBK | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | - | - | 2 J | - | - |
| Acetone | -- | 7 J | 3 J | - | - | - | - | 2 J | - | 2 J | - | 2.4 J |
| Total VOCs | | 53 | 3 J | - | - | - | - | 2 J | - | 7 J | - | 2.4 J |

Notes

- All analytical results are presented in ug/l (ppb)
- Bold values indicate exceedances of closure criteria
- = Not detected
- = No criteria available
- NS = Not sampled
- J - Result estimated below quantitation limit
- D - Concentration estimated from a dilution of the sample
- B - Compound detected in trip blank

TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.

| Constituents of Concern | NYSDEC Criteria | MW-10 | | | | | | | | | | |
|----------------------------|-----------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|--------------|
| | Date Sampled | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/6/2004 | 6/30/2005 | 11/10/2005 | 6/21/2006 | 11/12/2009 |
| Tetrachloroethene | 5 | 2 J | 5 J | - | - | 4 J | - | - | - | - | - | - |
| Trichloroethene | 5 | - | 2 J | - | - | - | - | - | - | - | - | - |
| 1,1,1-Trichloroethane | 5 | 14 | 13 | - | - | 13 | - | - | - | - | - | - |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | 5 J | - | - | - | - | - | - |
| 1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| cis -1,1-Dichloroethene | 5 | 3 J | 10 | - | - | - | - | - | - | - | - | - |
| Trans -1,1-Dichloroethene | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | 9 J | 19 | - | - | 11 | - | - | - | - | - | - |
| Vinyl Chloride | 2 | 6 J | 13 | - | - | - | - | - | - | - | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Total Xylenes | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Methylene Chloride | -- | - | - | - | - | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | | | | | | | | | | | | |
| MIBK | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,1,2-Tetrachloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | -- | 4 J | - | - | - | - | - | - | - | 2 J | - | 1.5 J |
| Total VOCs | | 38 | 62 | - | - | 33 | - | - | - | 2 J | - | 1.5 J |

Notes

- All analytical results are presented in ug/l (ppb)
- Bold values indicate exceedances of closure criteria
- Not detected
- No criteria available
- NS = Not sampled
- J - Result estimated below quantitation limit
- D - Concentration estimated from a dilution of the sample
- B - Compound detected in trip blank

TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.

| Constituents of Concern | NYSDEC Criteria | MW-10A | | | | | | | | | | | | | | |
|----------------------------|-----------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|----------|----------|------------|-----------|
| | Date Sampled | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/6/2004 | 6/30/2005 | 11/10/2005 | 6/21/2006 | 10/3/2007 | 4/8/2008 | 4/1/2009 | 11/12/2009 | 7/15/2010 |
| Tetrachloroethene | 5 | - | - | - | - | - | 2 | 4 J | - | 3 J | 1 J | 2 J | 0.7 J | 0.61 J | 2.3 J | 1.4 J |
| Trichloroethene | 5 | - | - | - | - | - | 53 | 2 J | - | 1 J | 0.6 J | 2 J | - | - | 1.5 J | 0.67 J |
| 1,1,1-Trichloroethane | 5 | - | - | - | - | - | - | 37 | 20 | 31 | 12 | 4 J | 0.9 J | - | 2.1 J | 1.7 J |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | - | 2 J | 4 J | 2 J | - | - | - | - | - | 1.6 J | 0.78 J |
| 1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | 17 | - | 2 J | - | - | - |
| cis -1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | 0.6 J | 2 J | - | - | - | - |
| Trans -1,1-Dichloroethene | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | - | - | - | - | - | 69 | 72 | 35 | 99 | 17 | 17 | - | - | 9.0 J | 4.9 J |
| Vinyl Chloride | 2 | - | - | - | - | - | - | - | - | - | - | 0.5 J | - | - | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Xylenes | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylene Chloride | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MIBK | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | -- | - | - | - | - | - | - | - | - | 1 J | - | 4 J | - | 1.9 J | - | 4.2 J |
| Total VOCs | | - | - | - | - | - | 126 | 119 | 57 | 135 | 48 | 32 | 3.6 J | 2.51 J | 16.5 J | 13.7 J |

Notes

- All analytical results are presented in ug/l (ppb)
- Bold values indicate exceedances of closure criteria
- = Not detected
- = No criteria available
- NS = Not sampled
- J - Result estimated below quantitation limit
- D - Concentration estimated from a dilution of the sample
- B - Compound detected in trip blank

**TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.**

| Constituents of Concern | NYSDEC Criteria Date Sampled | MW-11 | | | | | | | | | | |
|----------------------------|---------------------------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|
| | | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/6/2004 | 6/30/2005 | 11/10/2005 | 6/21/2006 | 11/12/2009 |
| Tetrachloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene | 5 | - | - | - | - | - | - | - | 0.8 J | - | - | - |
| 1,1,1-Trichloroethane | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| cis -1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Trans -1,1-Dichloroethene | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Vinyl Chloride | 2 | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Total Xylenes | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Methylene Chloride | -- | - | - | - | - | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | | | | | | | | | | | | |
| MIBK | -- | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | -- | - | - | - | - | - | - | - | - | - | - | - |
| Total VOCs | | - | - | - | - | - | - | - | 1 J | - | - | - |

Notes

All analytical results are presented in ug/l (ppb)
Bold values indicate exceedances of closure criteria
 - = Not detected
 -- = No criteria available
 NS = Not sampled
 J - Result estimated below quantitation limit
 D - Concentration estimated from a dilution of the sample
 B - Compound detected in trip blank

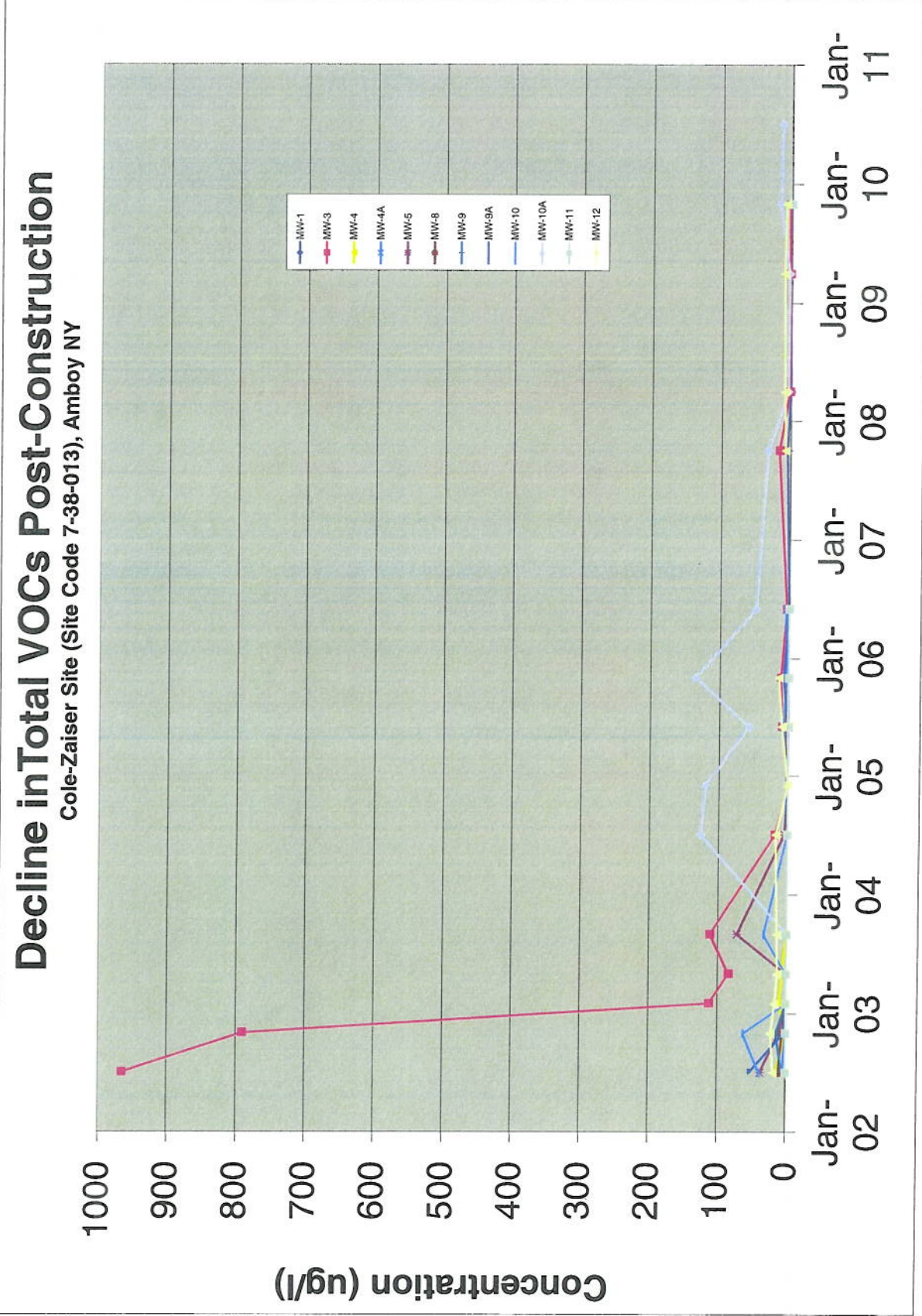
**TABLE 1
GROUNDWATER DATA SUMMARY
COLE ZAISER SITE - WEST AMBOY, N.Y.**

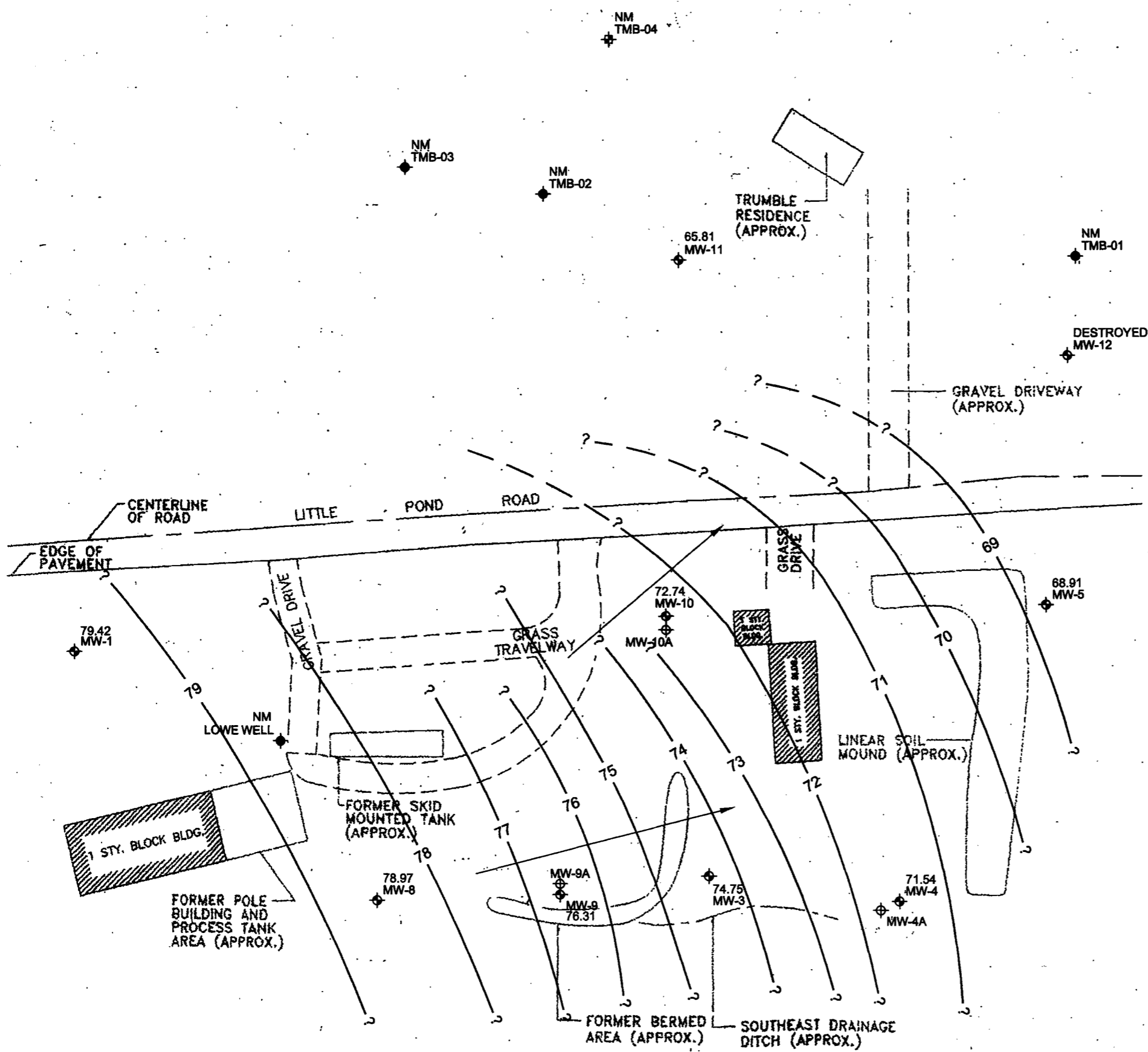
| Constituents of Concern | NYSDEC Criteria Date Sampled | MW-12 | | | | | | | | | | | | | |
|----------------------------|---------------------------------|-----------|------------|-----------|-------------|-------------|-----------|-------------|------------|------------|-----------|------------|--------------|-------------|---------------|
| | | 7/31/2002 | 11/14/2002 | 2/21/2003 | 5/15/2003 | 9/18/2003 | 7/28/2004 | 12/6/2004 | 6/30/2005 | 11/10/2005 | 6/21/2006 | 10/3/2007 | 4/8/2008 | 4/1/2009 | 11/12/2009 |
| Tetrachloroethene | 5 | 5 J | 4 J | 3 J | 4 J | 5 J | 3 J | 3 J | 3 J | 3 J | - | 1 J | 2 J | 2.4 J | 1.8 J |
| Trichloroethene | 5 | 6 J | 13 | 11 | 9 J | 9 J | 11 | 9 J | 5 J | 10 | - | 0.8 J | 6 J | 5.4 J | 4.3 J |
| 1,1,1-Trichloroethane | 5 | 3 J | 3 J | 2 J | - | - | 3 J | 2 J | 1 J | 1 J | - | - | 0.7 J | 0.49 J | 0.48 J |
| 1,2-Dichloroethene (total) | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethene | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| cis -1,1-Dichloroethene | 5 | - | 2 J | - | - | - | - | - | - | - | - | - | - | - | - |
| Trans -1,1-Dichloroethene | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Vinyl Chloride | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | 0.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | 5 | - | - | - | - | - | - | - | 0.5 J | - | - | - | - | - | - |
| Ethylbenzene | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Xylenes | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylene Chloride | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Butanone (MEK) | | - | - | - | - | - | - | - | - | - | - | 2 J | - | - | - |
| MIBK | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chloroethane | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | -- | 4 JB | - | - | - | - | - | - | - | - | - | 3 J | - | 1.7 J | 1.3 J |
| Total VOCs | | 18 | 22 | 16 | 13 J | 14 J | 17 | 14 J | 9 J | 14 | - | 7 J | 8.7 J | 10 J | 7.88 J |

Notes

- All analytical results are presented in ug/l (ppb)
- Bold values indicate exceedances of closure criteria
- = Not detected
- = No criteria available
- NS = Not sampled
- J - Result estimated below quantitation limit
- D - Concentration estimated from a dilution of the sample
- B - Compound detected in trip blank

Figure 1



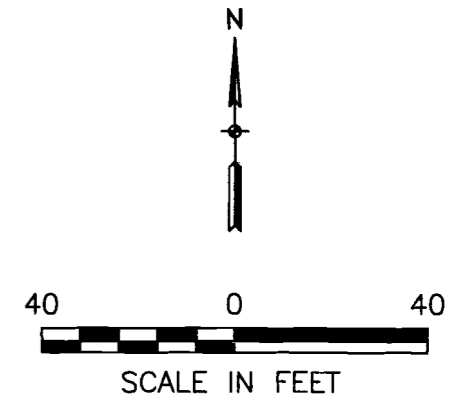


LEGEND

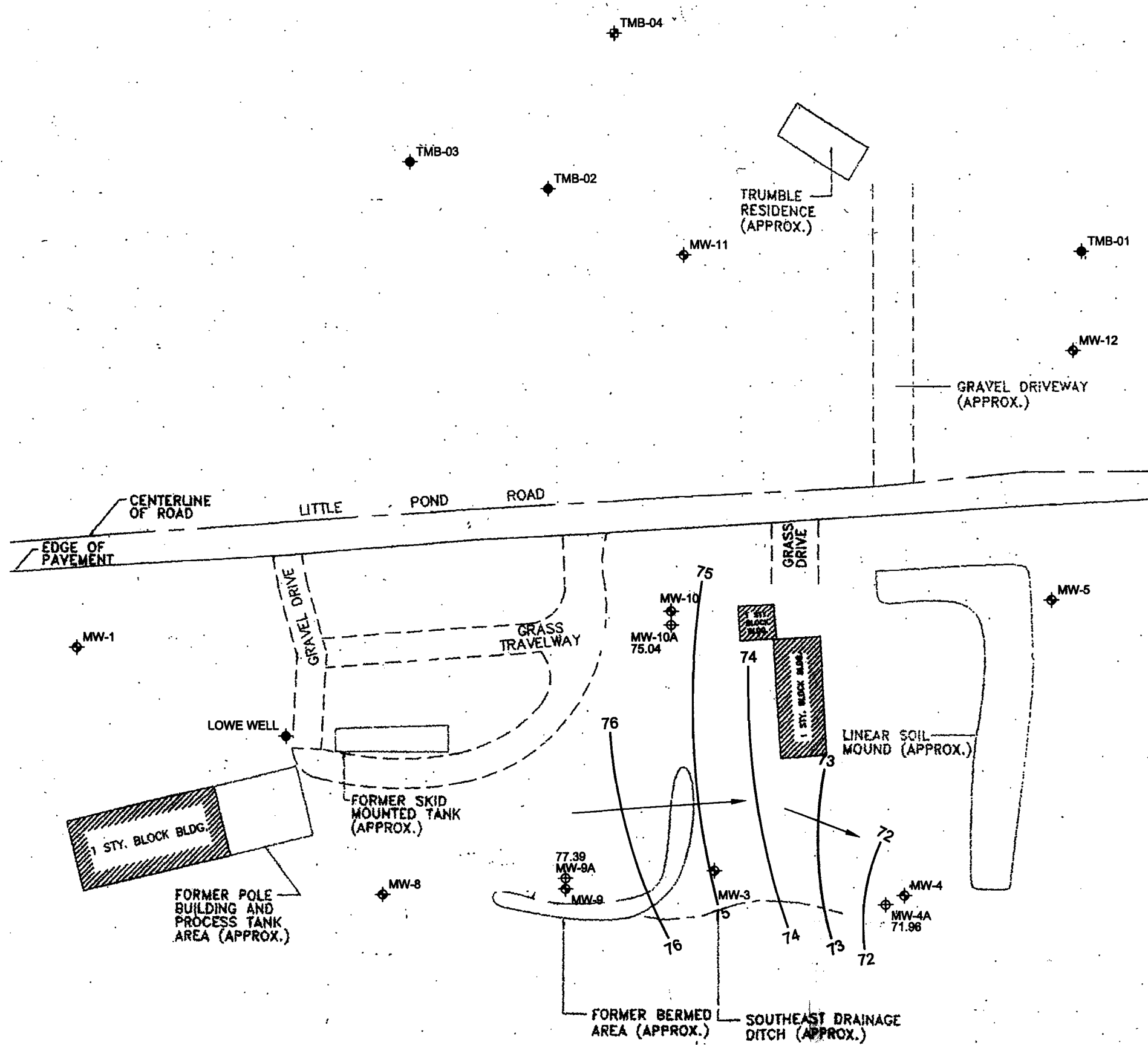
- MW-1 ◆ EXISTING SHALLOW MONITORING WELL
- MW-2A ◆ EXISTING INTERMEDIATE / DEEP MONITORING WELL
- TMB-01 ◆ OUT OF SERVICE RESIDENTIAL WELLS
- TMB-04 ◆ RESIDENTIAL WATER SUPPLY WELL

NOTES:

1. ELEVATIONS REFERENCED TO FINAL AS-BUILT SURVEY OF COLE-ZAISER SITE DATED AUGUST 6, 2001.
2. NM= NOT MEASURED



| | | |
|---|-------------------|--------------------|
| URS | | |
| 10975 El Monte, Suite 100 Overland Park, Kansas 66211 | | |
| CLIENT: BORG-WARNER AUTOMOTIVE, INC. | | |
| LOCATION: COLE-ZAISER SITE, AMBOY, NEW YORK | | |
| TITLE: SHALLOW GROUNDWATER ELEVATIONS AND FLOW MAP JUNE 21, 2006 | | |
| DRAWN BY TMS | CHK'D. BY LBV | APPROVED BY LBV |
| PROJ. NO. 16529746 | DATE JULY 2005 | DWG. NO. 2 |

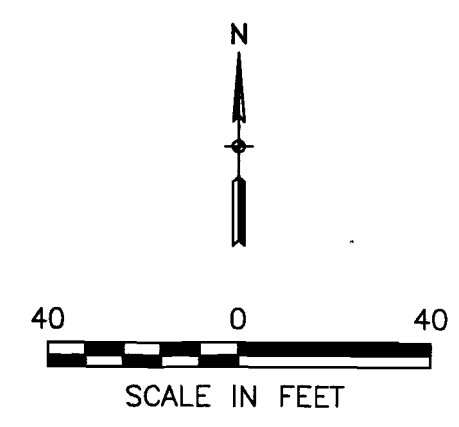


LEGEND

- MW-1 ◆ EXISTING SHALLOW MONITORING WELL
- MW-2A ◆ EXISTING INTERMEDIATE / DEEP MONITORING WELL
- TMB-01 ◆ OUT OF SERVICE RESIDENTIAL WELLS
- TMB-04 ◆ RESIDENTIAL WATER SUPPLY WELL

NOTES:

1. ELEVATIONS REFERENCED TO FINAL AS-BUILT SURVEY OF COLE-ZAISER SITE DATED AUGUST 6, 2001.
2. NM= NOT MEASURED



| | | |
|--|-------------------|--------------------|
| URS 10975 El Monte, Suite 100 Overland Park, Kansas 66211 | | |
| CLIENT: BORG-WARNER AUTOMOTIVE, INC. | | |
| LOCATION: COLE-ZAISER SITE, AMBOY, NEW YORK | | |
| TITLE: DEEP GROUNDWATER ELEVATION AND FLOW MAP JUNE 21, 2006 | | |
| DRAWN BY TMS | CHK'D. BY LBV | APPROVED BY LBV |
| PROJ. NO. 16529746 | DATE JULY 2005 | DWG. NO. 3 |

Attachment 1 Laboratory Analytical Data November 12, 2009 Sampling Event

December 21, 2009

Service Request No: R0906509

Leslie Voss
URS Corporation
8300 College Blvd.
Suite 200
Overland Park, KS 66210

Laboratory Results for: Cole-Zaiser Site/16530332.00500

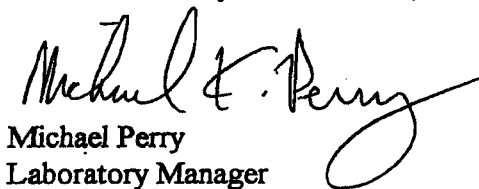
Dear Leslie:

Enclosed are the results of the sample(s) submitted to our laboratory on November 13, 2009. For your reference, these analyses have been assigned our service request number **R0906509**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 129. You may also contact me via email at MPerry@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Michael Perry
Laboratory Manager

Page 1 of 61

CASE NARRATIVE

COMPANY: URS Corp.
PROJECT: Cole Zaiser
SUBMISSION #: R0906509

URS water samples were collected on 11/12/09 and received at CAS on 11/13/09 in good condition at a cooler temperature of 3 °C. See the CLP Batching Form for sample ID cross-references. An ASP-B validation type data package has been provided.

VOLATILE ORGANICS

Fourteen water samples and a Trip Blank were analyzed for the Target Compound List (TCL) of Volatile Organics by NYSASP Method OLM4.3. Library Searches against the NBS/EPA library were conducted on all samples. The 30 largest peaks within 10 % of the nearest Internal Standard were searched. A summary of detected peaks is included following the Target data. Any analyte detected was quantitated based on the closest internal standard and has been flagged with a "J" as estimated.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria for the method were met.

All internal standard areas were within QC limits.

All sample surrogate recoveries were within QC limits for recovery.

Sample MW-10A was requested to be analyzed for site specific QC, but due to a misinterpretation of the COC, it was only analyzed as a sample duplicate.

All Blank Spike (LCS) recoveries were within QC limits.

No other analytical or QC problems were encountered with these analyses.

I certify that this 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. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.


Michael K. Perry
Laboratory Manager

12/21/09
Date

CAS ASP/CLP Batching Form/Login Sheet

| | | |
|-------------------------------|-----------------------------------|-------------------|
| Client Proj #: 16530332.00500 | Batch Complete: Yes | Date Revised: |
| Submission: R0906509 | Diskette Requested: No | Date Due: 12/7/09 |
| Client: URS Corporation | Date: 12/21/09 | Protocol: CLP |
| Client Rep: MPERRY | Custody Seal: Present/Absent: | Shipping No.: |
| Project: Cole-Zaiser Site | Chain of Custody: Present/Absent: | SDG #: MW01 |

| CAS Job # | Client/EPA ID | Matrix | Requested Parameters | Date Sampled | Date Received | pH (Solids) | % Solids | Remarks Sample Condition |
|--------------|-----------------|--------|----------------------|--------------|---------------|-------------|----------|-----------------------------|
| R0906509-001 | MW01-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-002 | MW03-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-003 | MW04-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-004 | MW04A-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-005 | MW05-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-006 | MW08-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-007 | MW09-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-008 | MW09A-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-009 | MW10-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-010 | MW10A-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-011 | MW10AMS-1109-03 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-012 | MW10ASD-1109-03 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-013 | MW11-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-014 | MW12-1109-01 | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |
| R0906509-015 | TRIP BLANK | Water | CLP-VOA OLM04.3 | 11/12/09 | 11/13/09 | | | |

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Folder Comments:

REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Pesticide/Aroclors: Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
- X See Case Narrative for discussion.



CAS/Rochester Lab ID # for State Certifications¹

| | |
|---|-------------------------------|
| NELAP Accredited | Nevada ID # NY-00032 |
| Delaware Accredited | New Jersey ID # NY004 |
| Connecticut ID # PH0556 | New York ID # 10145 |
| Florida ID # E87674 | New Hampshire ID # 294100 A/B |
| Illinois ID #200047 | Pennsylvania ID# 68-786 |
| Maine ID #NY0032 | Rhode Island ID # 158 |
| Nebraska Accredited | West Virginia ID # 292 |
| Navy Facilities Engineering Service Center Approved | |

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

Cooler Receipt And Preservation Check Form

Project/Client URS Submission Number ROA-6509

Cooler received on 11/13/09 by: RP COURIER: CAS UPS FEDEX VELOCITY CLIENT

- | | | | | |
|----|--|----------------|-----------|-----|
| 1. | Were custody seals on outside of cooler? | YES | <u>NO</u> | |
| 2. | Were custody papers properly filled out (ink, signed, etc.)? | <u>YES</u> | NO | |
| 3. | Did all bottles arrive in good condition (unbroken)? | <u>YES</u> | NO | |
| 4. | Did any VOA vials have significant* air bubbles? | YES | <u>NO</u> | N/A |
| 5. | Were Ice or Ice packs present? | <u>YES</u> | NO | |
| 6. | Where did the bottles originate? | <u>CAS/ROC</u> | CLIENT | |
| 7. | Temperature of cooler(s) upon receipt: | <u>30</u> | | |

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 11/13/09 0840

Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: MM 11/13/09

Cooler Breakdown: Date: 11/13/09 by: BD

- | | | | |
|----|---|-----|------|
| 1. | Were all bottle labels complete (i.e. analysis, preservation, etc.)? | YES | NO |
| 2. | Did all bottle labels and tags agree with custody papers? | YES | NO |
| 3. | Were correct containers used for the tests indicated? | YES | NO |
| 4. | Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated | | N/A. |

Explain any discrepancies: _____

| pH | Reagent | | | Lot Received | Exp | Sample ID | Vol. Added | Lot Added | Final pH |
|-----------------------|---|-----|----|---|-------|-----------|------------|-----------|----------|
| | | YES | NO | | | | | | |
| ≥12 | NaOH | | | | | | | | |
| ≤2 | HNO ₃ | | | | | | | | |
| ≤2 | H ₂ SO ₄ | | | | | | | | |
| Residual Chlorine (-) | For TCN and Phenol | | | If present, contact PM to add ascorbic acid | | | | | |
| | Na ₂ S ₂ O ₃ | - | - | | | | | | |
| | Zn Aceta | - | - | | | | | | |
| | HCl | * | * | H021A01 | 10/10 | | | | |

Yes = All samples OK

No = Samples were preserved at lab as listed

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

PM OK to Adjust: _____

Bottle lot numbers: 9-202-002

Other Comments: _____

PC Secondary Review: _____

*significant air bubbles are greater than 5-6 mm

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW01-1109-01
 Lab Code: R0906509-001

Service Request: R0906509
 Date Collected: 11/12/09 0925
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Analysis | |
|---------------------------------------|--------|---|-----|------|--------------------|-------------------|------------------|---------------------|----------|
| | | | | | | | | Lot | Lot Note |
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/17/09 03:54 | 179646 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Acetone | 10 | U | 10 | 1.3 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/17/09 03:54 | 179646 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 03:54 | 179646 | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water
Sample Name: MW01-1109-01
Lab Code: R0906509-001

Service Request: R0906509
Date Collected: 11/12/09 0925
Date Received: 11/13/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Analysis | |
|--|--------|---|-----|------|-----------------|----------------|----------------|---------------------|----------|
| | | | | | | | | Lot | Lot Note |
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 03:54 | | 179646 |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/17/09 03:54 | | 179646 |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 03:54 | | 179646 |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 03:54 | | 179646 |
| Toluene | 0.65 | J | 10 | 0.27 | 1 | NA | 11/17/09 03:54 | | 179646 |
| Trichloroethene (TCE) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 03:54 | | 179646 |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 03:54 | | 179646 |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 03:54 | | 179646 |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 03:54 | | 179646 |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 03:54 | | 179646 |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 03:54 | | 179646 |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 03:54 | | 179646 |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 03:54 | | 179646 |
| m,p-Xylenes | 0.41 | J | 10 | 0.29 | 1 | NA | 11/17/09 03:54 | | 179646 |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 03:54 | | 179646 |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/17/09 03:54 | | 179646 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 102 | 76-114 | 11/17/09 03:54 | | |
| 4-Bromofluorobenzene | 95 | 86-115 | 11/17/09 03:54 | | |
| Toluene-d8 | 99 | 88-110 | 11/17/09 03:54 | | |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/17/09 0354

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: MW01-1109-01
Lab Code: R0906509-001

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result Q |
|-------|--------------|----|----------|
|-------|--------------|----|----------|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW03-1109-01
 Lab Code: R0906509-002

Service Request: R0906509
 Date Collected: 11/12/09 1205
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Acetone | 2.0 | J | 10 | 1.3 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 04:22 | | 179646 | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW03-1109-01
 Lab Code: R0906509-002

Service Request: R0906509
 Date Collected: 11/12/09 1205
 Date Received: 11/13/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Trichloroethene (TCE) | 0.39 | J | 10 | 0.28 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 04:22 | | 179646 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/17/09 04:22 | | 179646 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 100 | 76-114 | 11/17/09 04:22 | | |
| 4-Bromofluorobenzene | 93 | 86-115 | 11/17/09 04:22 | | |
| Toluene-d8 | 101 | 88-110 | 11/17/09 04:22 | | |

*

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/17/09 0422

**Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS**

Sample Name: MW03-1109-01
Lab Code: R0906509-002

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result Q |
|-------|--------------|----|----------|
|-------|--------------|----|----------|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW04-1109-01
 Lab Code: R0906509-003

Service Request: R0906509
 Date Collected: 11/12/09 1235
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Acetone | 8.9 | J | 10 | 1.3 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/17/09 04:50 | | 179646 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 04:50 | | 179646 | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water
Sample Name: MW04-1109-01
Lab Code: R0906509-003

Service Request: R0906509
Date Collected: 11/12/09 1235
Date Received: 11/13/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Analysis | |
|--|--------|---|-----|------|-----------------|----------------|----------------|---------------------|----------|
| | | | | | | | | Lot | Lot Note |
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 04:50 | | 179646 |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/17/09 04:50 | | 179646 |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 04:50 | | 179646 |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 04:50 | | 179646 |
| Toluene | 0.34 | J | 10 | 0.27 | 1 | NA | 11/17/09 04:50 | | 179646 |
| Trichloroethene (TCE) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 04:50 | | 179646 |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 04:50 | | 179646 |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 04:50 | | 179646 |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 04:50 | | 179646 |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 04:50 | | 179646 |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 04:50 | | 179646 |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 04:50 | | 179646 |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 04:50 | | 179646 |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/17/09 04:50 | | 179646 |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 04:50 | | 179646 |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/17/09 04:50 | | 179646 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 102 | 76-114 | 11/17/09 04:50 | | |
| 4-Bromofluorobenzene | 92 | 86-115 | 11/17/09 04:50 | | |
| Toluene-d8 | 100 | 88-110 | 11/17/09 04:50 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/17/09 0450

**Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS**

Sample Name: MW04-1109-01
Lab Code: R0906509-003

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result | Q |
|-------|--------------|----|--------|---|
|-------|--------------|----|--------|---|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW04A-1109-01
 Lab Code: R0906509-004

Service Request: R0906509
 Date Collected: 11/12/09 1305
 Date Received: 11/13/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Acetone | 2.6 | J | 10 | 1.3 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 17:21 | | 180418 | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW04A-1109-01
 Lab Code: R0906509-004

Service Request: R0906509
 Date Collected: 11/12/09 1305
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Trichloroethene (TCE) | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 17:21 | | 180418 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/20/09 17:21 | | 180418 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 103 | 76-114 | 11/20/09 17:21 | | |
| 4-Bromofluorobenzene | 95 | 86-115 | 11/20/09 17:21 | | |
| Toluene-d8 | 98 | 88-110 | 11/20/09 17:21 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/20/09 1721

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: MW04A-1109-01
Lab Code: R0906509-004

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result Q |
|-------|--------------|----|----------|
|-------|--------------|----|----------|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW05-1109-01
 Lab Code: R0906509-005

Service Request: R0906509
 Date Collected: 11/12/09 1445
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Acetone | 10 | U | 10 | 1.3 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 05:18 | | 179646 | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW05-1109-01
 Lab Code: R0906509-005

Service Request: R0906509
 Date Collected: 11/12/09 1445
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Tetrachloroethene (PCE) | 0.53 | J | 10 | 0.22 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Trichloroethene (TCE) | 0.31 | J | 10 | 0.28 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 05:18 | | 179646 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/17/09 05:18 | | 179646 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 101 | 76-114 | 11/17/09 05:18 | | |
| 4-Bromofluorobenzene | 94 | 86-115 | 11/17/09 05:18 | | |
| Toluene-d8 | 102 | 88-110 | 11/17/09 05:18 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/17/09 0518

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: MW05-1109-01
Lab Code: R0906509-005

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result Q |
|-------|--------------|----|----------|
|-------|--------------|----|----------|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water
Sample Name: MW08-1109-01
Lab Code: R0906509-006

Service Request: R0906509
Date Collected: 11/12/09 1000
Date Received: 11/13/09
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Analysis | | Note |
|------------------------------------|----------|-----|------|-----------------|----------------|----------------|---------------------|--------|------|
| | | | | | | | Lot | Lot | |
| 1,1,1-Trichloroethane (TCA) | 10 U | 10 | 0.28 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,1,2,2-Tetrachloroethane | 10 U | 10 | 0.18 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,1,2-Trichloroethane | 10 U | 10 | 0.25 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 U | 10 | 0.17 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 U | 10 | 0.34 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,2,4-Trichlorobenzene | 10 U | 10 | 0.45 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 U | 10 | 0.36 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,2-Dibromoethane | 10 U | 10 | 0.19 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,2-Dichlorobenzene | 10 U | 10 | 0.25 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,2-Dichloroethane | 10 U | 10 | 0.22 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,2-Dichloropropane | 10 U | 10 | 0.67 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,3-Dichlorobenzene | 10 U | 10 | 0.39 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,4-Dichlorobenzene | 10 U | 10 | 0.42 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 2-Butanone (MEK) | 10 U | 10 | 0.54 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 2-Hexanone | 10 U | 10 | 0.59 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Acetone | 2.3 J | 10 | 1.3 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Benzene | 10 U | 10 | 0.20 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Bromodichloromethane | 10 U | 10 | 0.16 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Bromoform | 10 U | 10 | 0.42 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Bromomethane | 10 U | 10 | 0.53 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Carbon Disulfide | 10 U | 10 | 0.28 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Carbon Tetrachloride | 10 U | 10 | 0.22 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Chlorobenzene | 10 U | 10 | 0.24 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Chloroethane | 10 U | 10 | 0.36 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Chloroform | 10 U | 10 | 0.16 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Chloromethane | 10 U | 10 | 0.39 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Cyclohexane | 10 U | 10 | 0.22 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Dibromochloromethane | 10 U | 10 | 0.17 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Dichlorodifluoromethane (CFC 12) | 10 U | 10 | 0.59 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Dichloromethane | 10 U | 10 | 0.22 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Ethylbenzene | 10 U | 10 | 0.21 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Isopropylbenzene (Cumene) | 10 U | 10 | 0.23 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Methyl Acetate | 10 U | 10 | 0.36 | 1 | NA | 11/17/09 05:46 | | 179646 | |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW08-1109-01
 Lab Code: R0906509-006

Service Request: R0906509
 Date Collected: 11/12/09 1000
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Trichloroethene (TCE) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 05:46 | | 179646 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/17/09 05:46 | | 179646 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 102 | 76-114 | 11/17/09 05:46 | | |
| 4-Bromofluorobenzene | 94 | 86-115 | 11/17/09 05:46 | | |
| Toluene-d8 | 99 | 88-110 | 11/17/09 05:46 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/17/09 0546

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: MW08-1109-01
Lab Code: R0906509-006

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result | Q |
|-------|--------------|----|--------|---|
|-------|--------------|----|--------|---|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW09-1109-01
 Lab Code: R0906509-007

Service Request: R0906509
 Date Collected: 11/12/09 1055
 Date Received: 11/13/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Acetone | 10 | U | 10 | 1.3 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 06:14 | | 179646 | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW09-1109-01
 Lab Code: R0906509-007

Service Request: R0906509
 Date Collected: 11/12/09 1055
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Trichloroethene (TCE) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 06:14 | | 179646 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/17/09 06:14 | | 179646 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 103 | 76-114 | 11/17/09 06:14 | | |
| 4-Bromofluorobenzene | 92 | 86-115 | 11/17/09 06:14 | | |
| Toluene-d8 | 98 | 88-110 | 11/17/09 06:14 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/17/09 0614

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: MW09-1109-01
Lab Code: R0906509-007

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result | Q |
|-------|--------------|----|--------|---|
|-------|--------------|----|--------|---|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW09A-1109-01
 Lab Code: R0906509-008

Service Request: R0906509
 Date Collected: 11/12/09 1125
 Date Received: 11/13/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Acetone | 2.4 | J | 10 | 1.3 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 06:42 | | 179646 | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW09A-1109-01
 Lab Code: R0906509-008

Service Request: R0906509
 Date Collected: 11/12/09 1125
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Trichloroethene (TCE) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 06:42 | | 179646 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/17/09 06:42 | | 179646 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 104 | 76-114 | 11/17/09 06:42 | | |
| 4-Bromofluorobenzene | 93 | 86-115 | 11/17/09 06:42 | | |
| Toluene-d8 | 100 | 88-110 | 11/17/09 06:42 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/17/09 0642

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: MW09A-1109-01
Lab Code: R0906509-008

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result Q |
|-------|--------------|----|----------|
|-------|--------------|----|----------|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water
Sample Name: MW10-1109-01
Lab Code: R0906509-009

Service Request: R0906509
Date Collected: 11/12/09 1410
Date Received: 11/13/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Analysis | |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|---------------------|----------|
| | | | | | | | | Lot | Lot Note |
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/17/09 07:10 | 179646 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Acetone | 1.5 | J | 10 | 1.3 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/17/09 07:10 | 179646 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 07:10 | 179646 | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW10-1109-01
 Lab Code: R0906509-009

Service Request: R0906509
 Date Collected: 11/12/09 1410
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| Trichloroethene (TCE) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 07:10 | | 179646 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/17/09 07:10 | | 179646 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 101 | 76-114 | 11/17/09 07:10 | | |
| 4-Bromofluorobenzene | 92 | 86-115 | 11/17/09 07:10 | | |
| Toluene-d8 | 99 | 88-110 | 11/17/09 07:10 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/17/09 0710

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: MW10-1109-01
Lab Code: R0906509-009

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result Q |
|-------|--------------|----|----------|
|-------|--------------|----|----------|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW10A-1109-01
 Lab Code: R0906509-010

Service Request: R0906509
 Date Collected: 11/12/09 1340
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 2.1 | J | 10 | 0.28 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,1-Dichloroethane (1,1-DCA) | 9.0 | J | 10 | 0.17 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Acetone | 10 | U | 10 | 1.3 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 20:09 | | 180418 | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW10A-1109-01
 Lab Code: R0906509-010

Service Request: R0906509
 Date Collected: 11/12/09 1340
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Tetrachloroethene (PCE) | 2.3 | J | 10 | 0.22 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Trichloroethene (TCE) | 1.5 | J | 10 | 0.28 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| cis-1,2-Dichloroethene | 1.6 | J | 10 | 0.21 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 20:09 | | 180418 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/20/09 20:09 | | 180418 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 102 | 76-114 | 11/20/09 20:09 | | |
| 4-Bromofluorobenzene | 92 | 86-115 | 11/20/09 20:09 | | |
| Toluene-d8 | 96 | 88-110 | 11/20/09 20:09 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/20/09 2009

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: MW10A-1109-01
Lab Code: R0906509-010

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result Q |
|-------|--------------|----|----------|
|-------|--------------|----|----------|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW10AMS-1109-03
 Lab Code: R0906509-011

Service Request: R0906509
 Date Collected: 11/12/09 1340
 Date Received: 11/13/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 2.1 | J | 10 | 0.28 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,1-Dichloroethane (1,1-DCA) | 9.8 | J | 10 | 0.17 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Acetone | 10 | U | 10 | 1.3 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 20:37 | | 180418 | |

Comments:

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW10AMS-1109-03
 Lab Code: R0906509-011

Service Request: R0906509
 Date Collected: 11/12/09 1340
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Tetrachloroethene (PCE) | 2.3 | J | 10 | 0.22 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Trichloroethene (TCE) | 1.4 | J | 10 | 0.28 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| cis-1,2-Dichloroethene | 1.5 | J | 10 | 0.21 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 20:37 | | 180418 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/20/09 20:37 | | 180418 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 101 | 76-114 | 11/20/09 20:37 | | |
| 4-Bromofluorobenzene | 93 | 86-115 | 11/20/09 20:37 | | |
| Toluene-d8 | 96 | 88-110 | 11/20/09 20:37 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/20/09 2037

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: MW10AMS-1109-03
Lab Code: R0906509-011

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result | Q |
|-------|--------------|----|--------|---|
|-------|--------------|----|--------|---|

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW10ASD-1109-03
 Lab Code: R0906509-012

Service Request: R0906509
 Date Collected: 11/12/09 1340
 Date Received: 11/13/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 2.2 | J | 10 | 0.28 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,1-Dichloroethane (1,1-DCA) | 11 | | 10 | 0.17 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Acetone | 6.3 | J | 10 | 1.3 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 21:05 | | 180418 | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water
Sample Name: MW10ASD-1109-03
Lab Code: R0906509-012

Service Request: R0906509
Date Collected: 11/12/09 1340
Date Received: 11/13/09
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Tetrachloroethene (PCE) | 2.4 | J | 10 | 0.22 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Toluene | 0.33 | J | 10 | 0.27 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Trichloroethene (TCE) | 1.4 | J | 10 | 0.28 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| cis-1,2-Dichloroethene | 1.6 | J | 10 | 0.21 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 21:05 | | 180418 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/20/09 21:05 | | 180418 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 104 | 76-114 | 11/20/09 21:05 | | |
| 4-Bromofluorobenzene | 94 | 86-115 | 11/20/09 21:05 | | |
| Toluene-d8 | 99 | 88-110 | 11/20/09 21:05 | | |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/20/09 2105

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: MW10ASD-1109-03
Lab Code: R0906509-012

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result | Q |
|-------|--------------|----|--------|---|
|-------|--------------|----|--------|---|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW11-1109-01
 Lab Code: R0906509-013

Service Request: R0906509
 Date Collected: 11/12/09 1555
 Date Received: 11/13/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Acetone | 10 | U | 10 | 1.3 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 21:33 | | 180418 | |

Comments:

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW11-1109-01
 Lab Code: R0906509-013

Service Request: R0906509
 Date Collected: 11/12/09 1555
 Date Received: 11/13/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Trichloroethene (TCE) | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 21:33 | | 180418 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/20/09 21:33 | | 180418 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 100 | 76-114 | 11/20/09 21:33 | | |
| 4-Bromofluorobenzene | 93 | 86-115 | 11/20/09 21:33 | | |
| Toluene-d8 | 98 | 88-110 | 11/20/09 21:33 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/20/09 2133

**Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS**

Sample Name: MW11-1109-01
Lab Code: R0906509-013

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result Q |
|-------|--------------|----|----------|
|-------|--------------|----|----------|

No Tentatively Identified Compounds Detected.

Comments: _____

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW12-1109-01
 Lab Code: R0906509-014

Service Request: R0906509
 Date Collected: 11/12/09 1520
 Date Received: 11/13/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 0.48 | J | 10 | 0.28 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Acetone | 1.3 | J | 10 | 1.3 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 22:01 | | 180418 | |

Comments:

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: MW12-1109-01
 Lab Code: R0906509-014

Service Request: R0906509
 Date Collected: 11/12/09 1520
 Date Received: 11/13/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Tetrachloroethene (PCE) | 1.8 | J | 10 | 0.22 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Trichloroethene (TCE) | 4.3 | J | 10 | 0.28 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 22:01 | | 180418 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/20/09 22:01 | | 180418 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 104 | 76-114 | 11/20/09 22:01 | | |
| 4-Bromofluorobenzene | 93 | 86-115 | 11/20/09 22:01 | | |
| Toluene-d8 | 97 | 88-110 | 11/20/09 22:01 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/20/09 2201

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: MW12-1109-01
Lab Code: R0906509-014

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result Q |
|-------|--------------|----|----------|
|-------|--------------|----|----------|

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: TRIP BLANK
 Lab Code: R0906509-015

Service Request: R0906509
 Date Collected: 11/12/09 1520
 Date Received: 11/13/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|----------|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 10 U | 10 | 0.28 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,1,2,2-Tetrachloroethane | 10 U | 10 | 0.18 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,1,2-Trichloroethane | 10 U | 10 | 0.25 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 U | 10 | 0.17 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 U | 10 | 0.34 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,2,4-Trichlorobenzene | 10 U | 10 | 0.45 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 U | 10 | 0.36 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,2-Dibromoethane | 10 U | 10 | 0.19 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,2-Dichlorobenzene | 10 U | 10 | 0.25 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,2-Dichloroethane | 10 U | 10 | 0.22 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,2-Dichloropropane | 10 U | 10 | 0.67 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,3-Dichlorobenzene | 10 U | 10 | 0.39 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,4-Dichlorobenzene | 10 U | 10 | 0.42 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 2-Butanone (MEK) | 10 U | 10 | 0.54 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 2-Hexanone | 10 U | 10 | 0.59 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Acetone | 1.8 J | 10 | 1.3 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Benzene | 10 U | 10 | 0.20 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Bromodichloromethane | 10 U | 10 | 0.16 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Bromoform | 10 U | 10 | 0.42 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Bromomethane | 10 U | 10 | 0.53 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Carbon Disulfide | 10 U | 10 | 0.28 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Carbon Tetrachloride | 10 U | 10 | 0.22 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Chlorobenzene | 10 U | 10 | 0.24 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Chloroethane | 10 U | 10 | 0.36 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Chloroform | 10 U | 10 | 0.16 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Chloromethane | 10 U | 10 | 0.39 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Cyclohexane | 10 U | 10 | 0.22 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Dibromochloromethane | 10 U | 10 | 0.17 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Dichlorodifluoromethane (CFC 12) | 10 U | 10 | 0.59 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Dichloromethane | 10 U | 10 | 0.22 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Ethylbenzene | 10 U | 10 | 0.21 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Isopropylbenzene (Cumene) | 10 U | 10 | 0.23 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Methyl Acetate | 10 U | 10 | 0.36 | 1 | NA | 11/20/09 22:29 | | 180418 | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: TRIP BLANK
 Lab Code: R0906509-015

Service Request: R0906509
 Date Collected: 11/12/09 1520
 Date Received: 11/13/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Trichloroethene (TCE) | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 22:29 | | 180418 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/20/09 22:29 | | 180418 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 106 | 76-114 | 11/20/09 22:29 | | |
| 4-Bromofluorobenzene | 94 | 86-115 | 11/20/09 22:29 | | |
| Toluene-d8 | 97 | 88-110 | 11/20/09 22:29 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: 11/12/09
Date Received: 11/13/09
Date Analyzed: 11/20/09 2229

**Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS**

Sample Name: TRIP BLANK
Lab Code: R0906509-015

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result | Q |
|-------|--------------|----|--------|---|
|-------|--------------|----|--------|---|

No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: RQ0912195-01

Service Request: R0906509
 Date Collected: NA
 Date Received: NA
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Acetone | 10 | U | 10 | 1.3 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/17/09 00:12 | | 179646 | |

Comments:

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: RQ0912195-01

Service Request: R0906509
 Date Collected: NA
 Date Received: NA
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Trichloroethene (TCE) | 10 | U | 10 | 0.28 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/17/09 00:12 | | 179646 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/17/09 00:12 | | 179646 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 101 | 76-114 | 11/17/09 00:12 | | |
| 4-Bromofluorobenzene | 94 | 86-115 | 11/17/09 00:12 | | |
| Toluene-d8 | 99 | 88-110 | 11/17/09 00:12 | | |

Comments:

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: NA
Date Received: NA
Date Analyzed: 11/17/09 0012

**Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS**

Sample Name: Method Blank
Lab Code: RQ0912195-01

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result | Q |
|-------|--------------|----|--------|---|
|-------|--------------|----|--------|---|

No Tentatively Identified Compounds Detected.

Comments: _____

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: -Method Blank
 Lab Code: RQ0912206-01

Service Request: R0906509
 Date Collected: NA
 Date Received: NA

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|------------------------------------|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.34 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.45 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,2-Dibromoethane | 10 | U | 10 | 0.19 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,2-Dichloroethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,2-Dichloropropane | 10 | U | 10 | 0.67 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 2-Butanone (MEK) | 10 | U | 10 | 0.54 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 2-Hexanone | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Acetone | 10 | U | 10 | 1.3 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Benzene | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Bromodichloromethane | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Bromoform | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Bromomethane | 10 | U | 10 | 0.53 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Carbon Disulfide | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Carbon Tetrachloride | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Chlorobenzene | 10 | U | 10 | 0.24 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Chloroethane | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Chloroform | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Chloromethane | 10 | U | 10 | 0.39 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Cyclohexane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Dibromochloromethane | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.59 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Dichloromethane | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Ethylbenzene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.23 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Methyl Acetate | 10 | U | 10 | 0.36 | 1 | NA | 11/20/09 16:13 | | 180418 | |

Comments:

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: RQ0912206-01

Service Request: R0906509
 Date Collected: NA
 Date Received: NA
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot | Note |
|--|--------|---|-----|------|-----------------|----------------|----------------|----------------|--------------|------|
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.20 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Methylcyclohexane | 10 | U | 10 | 0.33 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Styrene | 10 | U | 10 | 0.18 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.22 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Toluene | 10 | U | 10 | 0.27 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Trichloroethene (TCE) | 10 | U | 10 | 0.28 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| Vinyl Chloride | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.21 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.16 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.30 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.25 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| o-Xylene | 10 | U | 10 | 0.17 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| m,p-Xylenes | 10 | U | 10 | 0.29 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.42 | 1 | NA | 11/20/09 16:13 | | 180418 | |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.60 | 1 | NA | 11/20/09 16:13 | | 180418 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q | Note |
|-----------------------|------|----------------|----------------|---|------|
| 1,2-Dichloroethane-d4 | 103 | 76-114 | 11/20/09 16:13 | | |
| 4-Bromofluorobenzene | 94 | 86-115 | 11/20/09 16:13 | | |
| Toluene-d8 | 97 | 88-110 | 11/20/09 16:13 | | |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Collected: NA
Date Received: NA
Date Analyzed: 11/20/09 1613

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ0912206-01

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLM04.3

| CAS # | Analyte Name | RT | Result Q |
|-------|--------------|----|----------|
|-------|--------------|----|----------|

No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Analyzed: 11/17/09

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

Units: µg/L
Basis: NA

Analysis Lot: 179646

| Analyte Name | Lab Control Sample RQ0912195-02 | | | % Rec |
|------------------------------|------------------------------------|----------|-------|----------|
| | Result | Expected | % Rec | Limits |
| 1,1-Dichloroethene (1,1-DCE) | 53.1 | 50.0 | 106 | 61 - 145 |
| Benzene | 49.3 | 50.0 | 99 | 76 - 127 |
| Chlorobenzene | 51.4 | 50.0 | 103 | 75 - 130 |
| Toluene | 50.7 | 50.0 | 101 | 76 - 125 |
| Trichloroethene (TCE) | 48.9 | 50.0 | 98 | 71 - 120 |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00500
Sample Matrix: Water

Service Request: R0906509
Date Analyzed: 11/20/09

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

Units: µg/L
Basis: NA

Analysis Lot: 180418

| Analyte Name | Lab Control Sample RQ0912206-02 | | | % Rec Limits |
|------------------------------|------------------------------------|----------|-------|-----------------|
| | Result | Expected | % Rec | |
| 1,1-Dichloroethene (1,1-DCE) | 49.7 | 50.0 | 99 | 61 - 145 |
| Benzene | 48.8 | 50.0 | 98 | 76 - 127 |
| Chlorobenzene | 50.2 | 50.0 | 100 | 75 - 130 |
| Toluene | 47.6 | 50.0 | 95 | 76 - 125 |
| Trichloroethene (TCE) | 48.0 | 50.0 | 96 | 71 - 120 |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00500
 Sample Matrix: Water

Service Request: R0906509
 Date Analyzed: 11/21/09

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

Units: µg/L
 Basis: NA

Analysis Lot: 180418

| Analyte Name | Lab Control Sample RQ0912206-03 | | | Duplicate Lab Control Sample RQ0912206-04 | | | % Rec Limits | RPD | RPD Limit |
|------------------------------|------------------------------------|----------|-------|--|----------|-------|-----------------|-----|--------------|
| | Result | Expected | % Rec | Result | Expected | % Rec | | | |
| 1,1-Dichloroethene (1,1-DCE) | 49.0 | 50.0 | 98 | 48.4 | 50.0 | 97 | 61 - 145 | 1 | 14 |
| Benzene | 47.6 | 50.0 | 95 | 46.5 | 50.0 | 93 | 76 - 127 | 2 | 11 |
| Chlorobenzene | 49.1 | 50.0 | 98 | 47.5 | 50.0 | 95 | 75 - 130 | 3 | 13 |
| Toluene | 46.5 | 50.0 | 93 | 45.6 | 50.0 | 91 | 76 - 125 | 2 | 13 |
| Trichloroethene (TCE) | 51.5 | 50.0 | 103 | 52.1 | 50.0 | 104 | 71 - 120 | 1 | 14 |

Comments:

August 09, 2010

Service Request No: R1003789

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Suite 200
Overland Park, KS 66210

Laboratory Results for: Cole-Zaiser Site/16530332.00100

Dear Leslie:

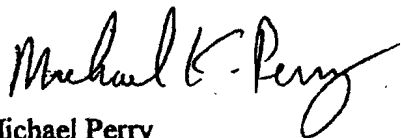
Enclosed are the results of the sample(s) submitted to our laboratory on July 15, 2010. For your reference, these analyses have been assigned our service request number **R1003789**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 129. You may also contact me via email at MPerry@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.



Michael Perry
Laboratory Manager

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COLUMBIA ANALYTICAL SERVICES, INC.

Client: URS Corporation
Project: Cole-Zaiser Site
Sample Matrix: Water

Service Request No.: R1003789
Project Number: 1650332.00100
Date Received: 7/15/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV, ASP-B deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Water samples were collected on 7/15/10 and received at CAS on the same day in good condition as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS batching sheet for a cross reference between Client ID and CAS Lab ID #.

Volatile Organics

One water sample and a Trip Blank were analyzed for the Target Compound List (TCL) of Volatile Organics by Method OLM4.3. Any analyte detected was quantitated based on the closest internal standard and has been flagged with a "J" as estimated.

One additional water sample was analyzed for the drinking water list of volatile organics by EPA method 524.2.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria for the method were met.

All internal standard areas were within QC limits.

All sample surrogate recoveries were within QC limits for recovery.

All Blank Spike (LCS) recoveries were within QC limits.

No other analytical or QC problems were encountered with these analyses.

Semi-Volatile Organic Analysis

One water sample was analyzed for the TCL list of Semi-Volatile Organics by SW-846 Method 8270C.

All Tuning criteria for DFTPP were within QC limits.

All the initial and continuing calibration criteria were met.

All Internal Standard Areas were all within QC limits.

All sample surrogate recoveries were within QC limits for recovery.

The Blank Spike/Blank Spike duplicate (LCS/LCSD) recoveries were acceptable.

The Method Blanks associated with these samples was free of contamination.

No other analytical or QC problems were encountered.

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Pesticide Analysis

One water sample was analyzed for TCL Pesticides by SW-846 method 8081.

All the initial and continuing calibration criteria were met.

All surrogate standard recoveries were within QC limits.

The Blank Spike/Blank Spike duplicate (LCS/LCSD) recoveries were all acceptable.

The Method Blanks associated with these samples was free of contamination.

No other analytical or QC problems were encountered.

PCB Analysis

One water sample was analyzed for Total PCBs by SW-846 method 8082.

All the initial and continuing calibration criteria were met.

All surrogate standard recoveries were within QC limits.

The Blank Spike/Blank Spike duplicate (LCS/LCSD) recoveries were all acceptable.

The Method Blanks associated with these samples was free of contamination.

No other analytical or QC problems were encountered.

Herbicide Analysis

One water sample was analyzed for a site List of Herbicides by SW-846 method 8151.

All the initial and continuing calibration criteria were met for all analytes.

The surrogate standard recovery for DCA was within QC acceptance limits.

All Blank Spike (LCS)/Blank Spike Duplicate (LCSD) recoveries were within QC limits. All RPD's were within QC limits.

The Laboratory Blanks associated with these analyses were free of contamination.

All samples were extracted and analyzed within required holding times.

No other analytical or QC problems were encountered.

TPH Analysis

One water sample was analyzed for the Total Petroleum Hydrocarbons by NYS DOH method 310-13.

All the initial and continuing calibration criteria were met for all analytes.

The surrogate standard recoveries were within QC acceptance limits.

All Blank Spike (LCS)/Blank Spike Duplicate (LCSD) recoveries were within QC limits. All RPD's were within QC limits.

The Laboratory Blanks associated with these analyses were free of contamination.

All samples were extracted and analyzed within required holding times.

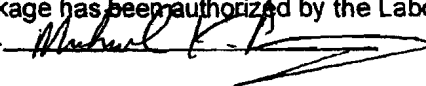
No other analytical or QC problems were encountered.

Metals Analysis

One water sample was analyzed for a site list of Metals using SW-846 methods 6010C/6020/7470.

All Blank spike (LCS) recoveries were within limits. The CRDL was within QC limits for all metals.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature. 

CAS ASP/CLP Batching Form/Login Sheet

| | | |
|-------------------------------|-----------------------------------|------------------|
| Client Proj #: 16530332.00100 | Batch Complete: Yes | Date Revised: |
| Submission: R1003789 | Diskette Requested: No | Date Due: 8/5/10 |
| Client: URS Corporation | Date: 7/19/10 | Protocol: SW846 |
| Client Rep: MPERRY | Custody Seal: Present/Absent: | Shipping No.: |
| Project: Cole-Zaiser Site | Chain of Custody: Present/Absent: | SDG #: MW10A |

| CAS Job # | Client/EPA ID | Matrix | Requested Parameters | Date Sampled | Date Received | pH (Solids) | % Solids | Remarks Sample Condition |
|----------------|---------------|--------|---|--------------|---------------|-------------|----------|--------------------------|
| R1003789-001 | LOWRY-07/10 | Water | 8270C, 8082, 245.1, 524.2, 218.6, 200.7, 200.8, NY 310-13, 8151A, 8081A | 7/15/10 | 7/15/10 | | | |
| R1003789-002QC | MW10A-0710-01 | Water | CLP-VOA OLM04.3 | 7/15/10 | 7/15/10 | | | |
| R1003789-003 | Trip Blank | Water | CLP-VOA OLM04.3 | 7/15/10 | 7/15/10 | | | |

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Folder Comments:

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CLP Batching Form

REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
- X See Case Narrative for discussion.



CAS/Rochester Lab ID # for State Certifications¹

| | |
|---|-------------------------------|
| NELAP Accredited | Nevada ID # NY-00032 |
| Delaware Accredited | New Jersey ID # NY004 |
| Connecticut ID # PH0556 | New York ID # 10145 |
| Florida ID # E87674 | New Hampshire ID # 294100 A/B |
| Illinois ID #200047 | Pennsylvania ID# 68-786 |
| Maine ID #NY0032 | Rhode Island ID # 158 |
| Nebraska Accredited | West Virginia ID # 292 |
| Navy Facilities Engineering Service Center Approved | |

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

URS

LAB Chlorine Analytical
 COOLER 1 of 1
 PAGE 1 of 1

| REMARKS | SAMPLE TYPE | BEGINNING DEPTH (IN FEET) | ENDING DEPTH (IN FEET) | FIELD LOT NO. (PUMPS ONLY) |
|---------|-------------|---------------------------|------------------------|----------------------------|
| | N | - | - | - |
| | N | - | - | - |
| | N | - | - | - |
| | N | - | - | - |
| | MS | - | - | - |
| | SD | - | - | - |

R1003789



U1 - HAZARDOUS LIQUID WASTE
 U2 - PLATING/FREE PRODUCT ON GWTABLE

Method 8000
 Method 8010
 Method 8020
 Method 8030
 Method 8040
 Method 8050
 Method 8060
 Method 8070
 Method 8080
 Method 8090
 Method 8100
 Method 8110
 Method 8120
 Method 8130
 Method 8140
 Method 8150
 Method 8160
 Method 8170
 Method 8180
 Method 8190
 Method 8200
 Method 8210
 Method 8220
 Method 8230
 Method 8240
 Method 8250
 Method 8260
 Method 8270
 Method 8280
 Method 8290
 Method 8300

| WO - OCEAN WATER | WS - SURFACE WATER | WO - WATER FIELD CC | WL - LEACHATE | OS - SOIL GAS | WC - DRILLING WATER | WG - GROUND WATER | WS - SOIL | DC - DRILL CUTTINGS | WB - NORMAL ENVIRONMENTAL SAMPLE | U - SECURITATIONAL SAMPLE |
|------------------|--------------------|---------------------|---------------|---------------|---------------------|-------------------|-----------|---------------------|----------------------------------|---------------------------|
| | | | | | | | | | | |

CHAIN OF CUSTODY RECORD

PROJECT NO. 1653033200500
 SITE NAME Arbony, Erie ZONING SITE NY
 SAMPLERS (SIGNATURE) John Boyd
 DELIVERY SERVICE: Hand Deliver AIRBILL NO.: _____

| LOCATION IDENTIFIER | DATE | TIME | COMPY DRAB | SAMPLE ID | MATRIX | TOTAL TO & OF CONTAINERS |
|---------------------|---------|------|------------|----------------|--------|--------------------------|
| Loney | 7/15/10 | | 6006 | Loney-07/10 | WG | 16 |
| | | | | Loney-07/10 MS | WG | |
| | | | | Loney-07/10 SD | WG | |
| MW-10A | 7/15/10 | 1235 | 6006 | MW10A-0710-01 | WG | 3 |
| MW-10A | 7/15/10 | 1235 | 6006 | MW10A-0710-02 | WG | 3 |
| MW-10A | 7/15/10 | 1235 | 6006 | MW10A-0710-03 | WG | 3 |

U1 - AMBIENT AIR
 U2 - SEDIMENT
 U3 - HAZARDOUS SOLID WASTE
 U4 - THP BLANK
 U5 - MATRIX SPIKE DUPLICATE
 U6 - SLUDGE
 U7 - DRINKING WATER
 U8 - WASTE WATER
 U9 - FINE BLANK
 U10 - MATRIX SPIKE REPLICATE
 U11 - GROUND WATER
 U12 - SOIL
 U13 - DRILL CUTTINGS
 U14 - NORMAL ENVIRONMENTAL SAMPLE
 U15 - MATRIX SPIKE

RELINQUISHED BY (SIGNATURE) John Boyd DATE TIME 7/15/10 1035 RECEIVED BY (SIGNATURE) Paul Ward DATE TIME 7/17/10 1035
 RECEIVED FOR LAB BY (SIGNATURE) _____ DATE TIME _____
 RECEIVED FOR LAB BY (SIGNATURE) _____ DATE TIME _____

Distributions: Original accompanies shipment, copy to coordinator field files

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SPECIAL INSTRUCTIONS IF QUESTION AND TO SEND RESULTS TO LESLIE BOSS, URS CORPORATION, 2300 COLLEGE BLVD., SUITE 200, OVERLAND, PARK, KS 66210, 913-344-1040

Nike Peng CAS PM

Cooler Receipt And Preservation Check Form

Project/Client URS Submission Number R1003789

Cooler received on 7/15/10 by: DW COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant* air bubbles? YES NO N/A
5. Were ~~Ice~~ or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 7.6° 2.8°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
 If No, Explain Below No No No No No

Date/Time Temperatures Taken: 7/15/10/100

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: MVP 2/19/10

Cooler Breakdown: Date: 7/16/10 by: AHBT

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

| pH | Reagent | Lot Received | | Exp | Sample ID | Vol. Added | Lot Added | Final pH |
|-----------------------|---|--------------|---|------|---|------------|-----------|----------|
| | | YES | NO | | | | | |
| ≥12 | NaOH | | WC92115I | 4/12 | | | | |
| ≤2 | HNO ₃ | ∞ | BD826103H | 6/11 | | | | |
| ≤2 | H ₂ SO ₄ | | | | | | | |
| Residual Chlorine (-) | For TCN and Phenol | | If present, contact PM to add ascorbic acid | | | | | |
| | Na ₂ S ₂ O ₃ | - | | | *Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet | | | |
| | Zn Aceta | - | | | C ⁺ buffer soln: WC922148 exp 6/11 | | | |
| | HCl | * | 4109100 | 5/11 | | | | |

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 051010-1S, 061410-2X, 010410-2A, 0-075-001
 Other Comments: _____

PC Secondary Review: MVP 8/9/10
 H:\SMODOCS\Cooler Receipt 2.doc

*significant air bubbles are greater than 5-6 mm

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: LOWRY-07/10
 Lab Code: R1003789-001

Service Request: R1003789
 Date Collected: 7/15/10
 Date Received: 7/15/10
 Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|------------------------------------|--------|---|------|-----------------|----------------|---------------|----------------|--------------|
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,1,1-Trichloroethane (TCA) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,1-Dichloroethene (1,1-DCE) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,1-Dichloropropene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,2-Dibromoethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,2-Dichloroethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,3-Dichloropropane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 2,2-Dichloropropane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 2-Butanone (MEK) | 5.0 | U | 5.0 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 2-Chlorotoluene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 2-Hexanone | 5.0 | U | 5.0 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 4-Chlorotoluene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| p-Isopropyltoluene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Acetone | 5.0 | U | 5.0 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Benzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Bromobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Bromochloromethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Bromodichloromethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Bromoform | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Bromomethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Carbon Tetrachloride | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Chlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Chloroethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Chloroform | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Chloromethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: LOWRY-07/10
Lab Code: R1003789-001

Service Request: R1003789
Date Collected: 7/15/10
Date Received: 7/15/10
Units: µg/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|----------------------------------|--------|---|------|-----------------|----------------|---------------|----------------|--------------|
| Dibromochloromethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Dibromomethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Dichlorodifluoromethane (CFC 12) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Methylene Chloride | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Ethylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Hexachlorobutadiene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Isopropylbenzene (Cumene) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Naphthalene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Styrene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Tetrachloroethene (PCE) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Toluene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Trichloroethene (TCE) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Trichlorofluoromethane (CFC 11) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| Vinyl Chloride | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| cis-1,2-Dichloroethene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| m,p-Xylenes | 1.0 | U | 1.0 | 1 | NA | 7/28/10 21:20 | | 210356 |
| n-Butylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| n-Propylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| o-Xylene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| sec-Butylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| tert-Butylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,1-Dichloroethane (SPCC) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 1,2-Dichloropropane (CCC) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 21:20 | | 210356 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 1 | NA | 7/28/10 21:20 | | 210356 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|------------------------|------|----------------|---------------|---|
| 1,2-Dichlorobenzene-d4 | 97 | 70-130 | 7/28/10 21:20 | |
| 4-Bromofluorobenzene | 98 | 70-130 | 7/28/10 21:20 | |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: RQ1006329-01

Service Request: R1003789
 Date Collected: NA
 Date Received: NA
 Units: µg/L
 Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|------------------------------------|--------|---|------|-----------------|----------------|---------------|----------------|--------------|
| 1,1,1,2-Tetrachloroethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,1,1-Trichloroethane (TCA) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,1,2-Trichloroethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,1-Dichloroethene (1,1-DCE) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,1-Dichloropropene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,2,3-Trichlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,2,3-Trichloropropane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,2,4-Trimethylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,2-Dibromoethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,2-Dichlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,2-Dichloroethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,3,5-Trimethylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,3-Dichlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,3-Dichloropropane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,4-Dichlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 2,2-Dichloropropane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 2-Butanone (MEK) | 5.0 | U | 5.0 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 2-Chlorotoluene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 2-Hexanone | 5.0 | U | 5.0 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 4-Chlorotoluene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| p-Isopropyltoluene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Acetone | 5.0 | U | 5.0 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Benzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Bromobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Bromochloromethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Bromodichloromethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Bromoform | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Bromomethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Carbon Tetrachloride | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Chlorobenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Chloroethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Chloroform | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Chloromethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1006329-01

Service Request: R1003789
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|----------------------------------|--------|---|------|-----------------|----------------|---------------|----------------|--------------|
| Dibromochloromethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Dibromomethane | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Dichlorodifluoromethane (CFC 12) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Methylene Chloride | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Ethylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Hexachlorobutadiene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Isopropylbenzene (Cumene) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Naphthalene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Styrene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Tetrachloroethene (PCE) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Toluene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Trichloroethene (TCE) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Trichlorofluoromethane (CFC 11) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| Vinyl Chloride | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| cis-1,2-Dichloroethene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| cis-1,3-Dichloropropene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| m,p-Xylenes | 1.0 | U | 1.0 | 1 | NA | 7/28/10 20:51 | | 210356 |
| n-Butylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| n-Propylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| o-Xylene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| sec-Butylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| tert-Butylbenzene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| trans-1,2-Dichloroethene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| trans-1,3-Dichloropropene | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,1-Dichloroethane (SPCC) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 1,2-Dichloropropane (CCC) | 0.50 | U | 0.50 | 1 | NA | 7/28/10 20:51 | | 210356 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 1 | NA | 7/28/10 20:51 | | 210356 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|------------------------|------|----------------|---------------|---|
| 1,2-Dichlorobenzene-d4 | 97 | 70-130 | 7/28/10 20:51 | |
| 4-Bromofluorobenzene | 97 | 70-130 | 7/28/10 20:51 | |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/28/10

**Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS**

Analytical Method: 524.2

Units: µg/L
Basis: NA

Analysis Lot: 210356

**Lab Control Sample
RQ1006329-02**

| Analyte Name | Result | Spike Amount | % Rec | % Rec Limits |
|------------------------------------|--------|--------------|-------|--------------|
| 1,1,1,2-Tetrachloroethane | 5.09 | 5.00 | 102 | 70 - 130 |
| 1,1,1-Trichloroethane (TCA) | 5.04 | 5.00 | 101 | 70 - 130 |
| 1,1,2,2-Tetrachloroethane | 5.28 | 5.00 | 106 | 70 - 130 |
| 1,1,2-Trichloroethane | 5.23 | 5.00 | 105 | 70 - 130 |
| 1,1-Dichloroethene (1,1-DCE) | 5.03 | 5.00 | 101 | 70 - 130 |
| 1,1-Dichloropropene | 5.26 | 5.00 | 105 | 70 - 130 |
| 1,2,3-Trichlorobenzene | 5.18 | 5.00 | 104 | 70 - 130 |
| 1,2,3-Trichloropropane | 5.22 | 5.00 | 104 | 70 - 130 |
| 1,2,4-Trichlorobenzene | 5.49 | 5.00 | 110 | 70 - 130 |
| 1,2,4-Trimethylbenzene | 5.30 | 5.00 | 106 | 70 - 130 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 5.42 | 5.00 | 108 | 70 - 130 |
| 1,2-Dibromoethane | 5.20 | 5.00 | 104 | 70 - 130 |
| 1,2-Dichlorobenzene | 5.21 | 5.00 | 104 | 70 - 130 |
| 1,2-Dichloroethane | 5.13 | 5.00 | 103 | 70 - 130 |
| 1,3,5-Trimethylbenzene | 5.10 | 5.00 | 102 | 70 - 130 |
| 1,3-Dichlorobenzene | 5.14 | 5.00 | 103 | 70 - 130 |
| 1,3-Dichloropropane | 5.07 | 5.00 | 101 | 70 - 130 |
| 1,4-Dichlorobenzene | 5.17 | 5.00 | 103 | 70 - 130 |
| 2,2-Dichloropropane | 5.06 | 5.00 | 101 | 70 - 130 |
| 2-Butanone (MEK) | 10.8 | 10.0 | 108 | 70 - 130 |
| 2-Chlorotoluene | 5.15 | 5.00 | 103 | 70 - 130 |
| 2-Hexanone | 10.7 | 10.0 | 107 | 70 - 130 |
| 4-Chlorotoluene | 5.19 | 5.00 | 104 | 70 - 130 |
| p-Isopropyltoluene | 5.16 | 5.00 | 103 | 70 - 130 |
| Acetone | 10.6 | 10.0 | 106 | 70 - 130 |
| Benzene | 5.06 | 5.00 | 101 | 70 - 130 |
| Bromobenzene | 5.31 | 5.00 | 106 | 70 - 130 |
| Bromochloromethane | 5.09 | 5.00 | 102 | 70 - 130 |
| Bromodichloromethane | 5.08 | 5.00 | 102 | 70 - 130 |
| Bromoform | 5.18 | 5.00 | 104 | 70 - 130 |
| Bromomethane | 4.75 | 5.00 | 95 | 70 - 130 |
| Carbon Tetrachloride | 5.05 | 5.00 | 101 | 70 - 130 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/28/10

**Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS**

Analytical Method: 524.2

Units: µg/L
Basis: NA

Analysis Lot: 210356

**Lab Control Sample
RQ1006329-02**

| Analyte Name | Result | Spike Amount | % Rec | % Rec Limits |
|----------------------------------|--------|--------------|-------|--------------|
| Chlorobenzene | 5.36 | 5.00 | 107 | 70 - 130 |
| Chloroethane | 5.10 | 5.00 | 102 | 70 - 130 |
| Chloroform | 5.26 | 5.00 | 105 | 70 - 130 |
| Chloromethane | 4.61 | 5.00 | 92 | 70 - 130 |
| Dibromochloromethane | 5.12 | 5.00 | 102 | 70 - 130 |
| Dibromomethane | 5.36 | 5.00 | 107 | 70 - 130 |
| Dichlorodifluoromethane (CFC 12) | 3.73 | 5.00 | 75 | 70 - 130 |
| Methylene Chloride | 5.03 | 5.00 | 101 | 70 - 130 |
| Ethylbenzene | 5.26 | 5.00 | 105 | 70 - 130 |
| Hexachlorobutadiene | 5.30 | 5.00 | 106 | 70 - 130 |
| Isopropylbenzene (Cumene) | 5.57 | 5.00 | 111 | 70 - 130 |
| Naphthalene | 5.43 | 5.00 | 109 | 70 - 130 |
| Styrene | 5.11 | 5.00 | 102 | 70 - 130 |
| Tetrachloroethene (PCE) | 5.03 | 5.00 | 101 | 70 - 130 |
| Toluene | 5.31 | 5.00 | 106 | 70 - 130 |
| Trichloroethene (TCE) | 5.01 | 5.00 | 100 | 70 - 130 |
| Trichlorofluoromethane (CFC 11) | 4.97 | 5.00 | 99 | 70 - 130 |
| Vinyl Chloride | 5.07 | 5.00 | 101 | 70 - 130 |
| cis-1,2-Dichloroethene | 5.06 | 5.00 | 101 | 70 - 130 |
| cis-1,3-Dichloropropene | 4.89 | 5.00 | 98 | 70 - 130 |
| m,p-Xylenes | 10.3 | 10.0 | 103 | 70 - 130 |
| n-Butylbenzene | 5.19 | 5.00 | 104 | 70 - 130 |
| n-Propylbenzene | 5.29 | 5.00 | 106 | 70 - 130 |
| o-Xylene | 5.28 | 5.00 | 106 | 70 - 130 |
| sec-Butylbenzene | 5.09 | 5.00 | 102 | 70 - 130 |
| tert-Butylbenzene | 5.05 | 5.00 | 101 | 70 - 130 |
| trans-1,2-Dichloroethene | 5.15 | 5.00 | 103 | 70 - 130 |
| trans-1,3-Dichloropropene | 5.04 | 5.00 | 101 | 70 - 130 |
| 1,1-Dichloroethane (SPCC) | 5.11 | 5.00 | 102 | 70 - 130 |
| 1,2-Dichloropropane (CCC) | 5.32 | 5.00 | 106 | 70 - 130 |
| 4-Methyl-2-pentanone (MIBK) | 10.2 | 10.0 | 102 | 70 - 130 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: MW10A-0710-01
Lab Code: R1003789-002

Service Request: R1003789
Date Collected: 7/15/10 1235
Date Received: 7/15/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|------------------------------------|--------|---|-----|-------|-----------------|----------------|---------------|----------------|--------------|
| 1,1,1-Trichloroethane (TCA) | 1.7 | J | 10 | 0.11 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.090 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.18 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,1-Dichloroethane (1,1-DCA) | 4.9 | J | 10 | 0.060 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,1-Dichloroethane (1,1-DCE) | 10 | U | 10 | 0.10 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.090 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.21 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,2-Dibromoethane | 10 | U | 10 | 0.15 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.080 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,2-Dichloroethane | 10 | U | 10 | 0.15 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,2-Dichloropropane | 10 | U | 10 | 0.13 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.050 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.12 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 2-Butanone (MEK) | 10 | U | 10 | 0.37 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 2-Hexanone | 10 | U | 10 | 0.50 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Acetone | 4.2 | J | 10 | 0.80 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Benzene | 10 | U | 10 | 0.16 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Bromodichloromethane | 10 | U | 10 | 0.12 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Bromoform | 10 | U | 10 | 0.080 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Bromomethane | 10 | U | 10 | 0.31 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Carbon Disulfide | 10 | U | 10 | 0.060 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Carbon Tetrachloride | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Chlorobenzene | 10 | U | 10 | 0.21 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Chloroethane | 10 | U | 10 | 0.18 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Chloroform | 10 | U | 10 | 0.090 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Chloromethane | 10 | U | 10 | 0.11 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Cyclohexane | 10 | U | 10 | 0.15 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Dibromochloromethane | 10 | U | 10 | 0.080 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.18 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Dichloromethane | 10 | U | 10 | 0.010 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Ethylbenzene | 10 | U | 10 | 0.090 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.080 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Methyl Acetate | 10 | U | 10 | 0.11 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.090 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Methylcyclohexane | 10 | U | 10 | 0.090 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Styrene | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 18:32 | | 209903 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: MW10A-0710-01
 Lab Code: R1003789-002

Service Request: R1003789
 Date Collected: 7/15/10 1235
 Date Received: 7/15/10
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|--|--------|---|-----|-------|-----------------|----------------|---------------|----------------|--------------|
| Tetrachloroethene (PCE) | 1.4 | J | 10 | 0.12 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Toluene | 10 | U | 10 | 0.12 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Trichloroethene (TCE) | 0.67 | J | 10 | 0.13 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 18:32 | | 209903 |
| Vinyl Chloride | 10 | U | 10 | 0.12 | 1 | NA | 7/26/10 18:32 | | 209903 |
| cis-1,2-Dichloroethene | 0.78 | J | 10 | 0.14 | 1 | NA | 7/26/10 18:32 | | 209903 |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 18:32 | | 209903 |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.12 | 1 | NA | 7/26/10 18:32 | | 209903 |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 18:32 | | 209903 |
| o-Xylene | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 18:32 | | 209903 |
| m,p-Xylenes | 10 | U | 10 | 0.080 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.16 | 1 | NA | 7/26/10 18:32 | | 209903 |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.50 | 1 | NA | 7/26/10 18:32 | | 209903 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|-----------------------|------|----------------|---------------|---|
| 1,2-Dichloroethane-d4 | 101 | 76-114 | 7/26/10 18:32 | |
| 4-Bromofluorobenzene | 99 | 86-115 | 7/26/10 18:32 | |
| Toluene-d8 | 101 | 88-110 | 7/26/10 18:32 | |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: Trip Blank
 Lab Code: R1003789-003

Service Request: R1003789
 Date Collected: 7/15/10 0000
 Date Received: 7/15/10

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|------------------------------------|--------|---|-----|-------|-----------------|----------------|---------------|----------------|--------------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.11 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.18 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.060 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.10 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.21 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,2-Dibromoethane | 10 | U | 10 | 0.15 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.080 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,2-Dichloroethane | 10 | U | 10 | 0.15 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,2-Dichloropropane | 10 | U | 10 | 0.13 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.050 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 2-Butanone (MEK) | 10 | U | 10 | 0.37 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 2-Hexanone | 10 | U | 10 | 0.50 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Acetone | 10 | U | 10 | 0.80 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Benzene | 10 | U | 10 | 0.16 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Bromodichloromethane | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Bromoform | 10 | U | 10 | 0.080 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Bromomethane | 10 | U | 10 | 0.31 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Carbon Disulfide | 10 | U | 10 | 0.060 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Carbon Tetrachloride | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Chlorobenzene | 10 | U | 10 | 0.21 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Chloroethane | 10 | U | 10 | 0.18 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Chloroform | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Chloromethane | 10 | U | 10 | 0.11 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Cyclohexane | 10 | U | 10 | 0.15 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Dibromochloromethane | 10 | U | 10 | 0.080 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.18 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Dichloromethane | 10 | U | 10 | 0.010 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Ethylbenzene | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.080 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Methyl Acetate | 10 | U | 10 | 0.11 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Methylcyclohexane | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Styrene | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 16:27 | | 209222 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: R1003789-003

Service Request: R1003789
Date Collected: 7/15/10 0000
Date Received: 7/15/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|--|--------|---|-----|-------|-----------------|----------------|---------------|----------------|--------------|
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Toluene | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Trichloroethene (TCE) | 10 | U | 10 | 0.13 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 16:27 | | 209222 |
| Vinyl Chloride | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 16:27 | | 209222 |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.14 | 1 | NA | 7/21/10 16:27 | | 209222 |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 16:27 | | 209222 |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 16:27 | | 209222 |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 16:27 | | 209222 |
| o-Xylene | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 16:27 | | 209222 |
| m,p-Xylenes | 10 | U | 10 | 0.080 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.16 | 1 | NA | 7/21/10 16:27 | | 209222 |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.50 | 1 | NA | 7/21/10 16:27 | | 209222 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|-----------------------|------|----------------|---------------|---|
| 1,2-Dichloroethane-d4 | 101 | 76-114 | 7/21/10 16:27 | |
| 4-Bromofluorobenzene | 87 | 86-115 | 7/21/10 16:27 | |
| Toluene-d8 | 94 | 88-110 | 7/21/10 16:27 | |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: RQ1006274-01

Service Request: R1003789
 Date Collected: NA
 Date Received: NA
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|------------------------------------|--------|---|-----|-------|-----------------|----------------|---------------|----------------|--------------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.11 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.18 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.060 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.10 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.21 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,2-Dibromoethane | 10 | U | 10 | 0.15 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.080 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,2-Dichloroethane | 10 | U | 10 | 0.15 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,2-Dichloropropane | 10 | U | 10 | 0.13 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.050 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 2-Butanone (MEK) | 10 | U | 10 | 0.37 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 2-Hexanone | 10 | U | 10 | 0.50 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Acetone | 10 | U | 10 | 0.80 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Benzene | 10 | U | 10 | 0.16 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Bromodichloromethane | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Bromoform | 10 | U | 10 | 0.080 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Bromomethane | 10 | U | 10 | 0.31 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Carbon Disulfide | 10 | U | 10 | 0.060 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Carbon Tetrachloride | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Chlorobenzene | 10 | U | 10 | 0.21 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Chloroethane | 10 | U | 10 | 0.18 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Chloroform | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Chloromethane | 10 | U | 10 | 0.11 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Cyclohexane | 10 | U | 10 | 0.15 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Dibromochloromethane | 10 | U | 10 | 0.080 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.18 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Dichloromethane | 10 | U | 10 | 0.010 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Ethylbenzene | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.080 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Methyl Acetate | 10 | U | 10 | 0.11 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Methylcyclohexane | 10 | U | 10 | 0.090 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Styrene | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 12:35 | | 209222 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: RQ1006274-01

Service Request: R1003789
 Date Collected: NA
 Date Received: NA
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|--|--------|---|-----|-------|-----------------|----------------|---------------|----------------|--------------|
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Toluene | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Trichloroethene (TCE) | 10 | U | 10 | 0.13 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 12:35 | | 209222 |
| Vinyl Chloride | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 12:35 | | 209222 |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.14 | 1 | NA | 7/21/10 12:35 | | 209222 |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 12:35 | | 209222 |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.12 | 1 | NA | 7/21/10 12:35 | | 209222 |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 12:35 | | 209222 |
| o-Xylene | 10 | U | 10 | 0.070 | 1 | NA | 7/21/10 12:35 | | 209222 |
| m,p-Xylenes | 10 | U | 10 | 0.080 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.16 | 1 | NA | 7/21/10 12:35 | | 209222 |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.50 | 1 | NA | 7/21/10 12:35 | | 209222 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|-----------------------|------|----------------|---------------|---|
| 1,2-Dichloroethane-d4 | 100 | 76-114 | 7/21/10 12:35 | |
| 4-Bromofluorobenzene | 89 | 86-115 | 7/21/10 12:35 | |
| Toluene-d8 | 96 | 88-110 | 7/21/10 12:35 | |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1006283-01

Service Request: R1003789
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|------------------------------------|--------|---|-----|-------|-----------------|----------------|---------------|----------------|--------------|
| 1,1,1-Trichloroethane (TCA) | 10 | U | 10 | 0.11 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 0.090 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,1,2-Trichloroethane | 10 | U | 10 | 0.18 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,1-Dichloroethane (1,1-DCA) | 10 | U | 10 | 0.060 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,1-Dichloroethene (1,1-DCE) | 10 | U | 10 | 0.10 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,2,4-Trichlorobenzene | 0.43 | J | 10 | 0.090 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10 | U | 10 | 0.21 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,2-Dibromoethane | 10 | U | 10 | 0.15 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,2-Dichlorobenzene | 10 | U | 10 | 0.080 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,2-Dichloroethane | 10 | U | 10 | 0.15 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,2-Dichloropropane | 10 | U | 10 | 0.13 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,3-Dichlorobenzene | 10 | U | 10 | 0.050 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,4-Dichlorobenzene | 10 | U | 10 | 0.12 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 2-Butanone (MEK) | 10 | U | 10 | 0.37 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 2-Hexanone | 10 | U | 10 | 0.50 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Acetone | 10 | U | 10 | 0.80 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Benzene | 10 | U | 10 | 0.16 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Bromodichloromethane | 10 | U | 10 | 0.12 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Bromoform | 10 | U | 10 | 0.080 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Bromomethane | 10 | U | 10 | 0.31 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Carbon Disulfide | 10 | U | 10 | 0.060 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Carbon Tetrachloride | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Chlorobenzene | 10 | U | 10 | 0.21 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Chloroethane | 10 | U | 10 | 0.18 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Chloroform | 10 | U | 10 | 0.090 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Chloromethane | 10 | U | 10 | 0.11 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Cyclohexane | 10 | U | 10 | 0.15 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Dibromochloromethane | 10 | U | 10 | 0.080 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Dichlorodifluoromethane (CFC 12) | 10 | U | 10 | 0.18 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Dichloromethane | 10 | U | 10 | 0.010 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Ethylbenzene | 10 | U | 10 | 0.090 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Isopropylbenzene (Cumene) | 10 | U | 10 | 0.080 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Methyl Acetate | 10 | U | 10 | 0.11 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Methyl tert-Butyl Ether | 10 | U | 10 | 0.090 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Methylcyclohexane | 10 | U | 10 | 0.090 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Styrene | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 17:36 | | 209903 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1006283-01

Service Request: R1003789
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|--|--------|---|-----|-------|-----------------|----------------|---------------|----------------|--------------|
| Tetrachloroethene (PCE) | 10 | U | 10 | 0.12 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Toluene | 10 | U | 10 | 0.12 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Trichloroethene (TCE) | 10 | U | 10 | 0.13 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Trichlorofluoromethane (CFC 11) | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 17:36 | | 209903 |
| Vinyl Chloride | 10 | U | 10 | 0.12 | 1 | NA | 7/26/10 17:36 | | 209903 |
| cis-1,2-Dichloroethene | 10 | U | 10 | 0.14 | 1 | NA | 7/26/10 17:36 | | 209903 |
| cis-1,3-Dichloropropene | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 17:36 | | 209903 |
| trans-1,2-Dichloroethene | 10 | U | 10 | 0.12 | 1 | NA | 7/26/10 17:36 | | 209903 |
| trans-1,3-Dichloropropene | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 17:36 | | 209903 |
| o-Xylene | 10 | U | 10 | 0.070 | 1 | NA | 7/26/10 17:36 | | 209903 |
| m,p-Xylenes | 10 | U | 10 | 0.080 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 1,1,2-Trichlorotrifluoroethane (CFC 113) | 10 | U | 10 | 0.16 | 1 | NA | 7/26/10 17:36 | | 209903 |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 0.50 | 1 | NA | 7/26/10 17:36 | | 209903 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|-----------------------|------|----------------|---------------|---|
| 1,2-Dichloroethane-d4 | 101 | 76-114 | 7/26/10 17:36 | |
| 4-Bromofluorobenzene | 99 | 86-115 | 7/26/10 17:36 | |
| Toluene-d8 | 100 | 88-110 | 7/26/10 17:36 | |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water

Service Request: R1003789
 Date Collected: 7/15/10
 Date Received: 7/15/10
 Date Analyzed: 7/26/10

Matrix Spike Summary
 Volatile Organic Compounds by GC/MS

Sample Name: MW10A-0710-01
 Lab Code: R1003789-002

Units: µg/L
 Basis: NA

Analytical Method: CLP-VOA OLM04.3

| Analyte Name | Sample Result | MW10A-0710-01MS Matrix Spike RQ1006283-03 | | | MW10A-0710-01DMS Duplicate Matrix Spike RQ1006283-04 | | | % Rec Limits | RPD | RPD Limit |
|------------------------------|---------------|---|--------------|-------|--|--------------|-------|--------------|-----|-----------|
| | | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| 1,1-Dichloroethene (1,1-DCE) | ND | 54.2 | 50.0 | 108 | 53.6 | 50.0 | 107 | 61 - 145 | 1 | 14 |
| Benzene | ND | 51.5 | 50.0 | 103 | 49.3 | 50.0 | 99 | 76 - 127 | 4 | 11 |
| Chlorobenzene | ND | 48.4 | 50.0 | 97 | 47.7 | 50.0 | 95 | 75 - 130 | 1 | 13 |
| Toluene | ND | 49.1 | 50.0 | 98 | 48.5 | 50.0 | 97 | 76 - 125 | 1 | 13 |
| Trichloroethene (TCE) | 0.67 | 49.4 | 50.0 | 97 | 48.1 | 50.0 | 95 | 71 - 120 | 3 | 14 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/21/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

Units: µg/L
Basis: NA

Analysis Lot: 209222

Lab Control Sample
RQ1006274-02

| Analyte Name | Result | Spike Amount | % Rec | % Rec Limits |
|------------------------------|--------|--------------|-------|--------------|
| 1,1-Dichloroethene (1,1-DCE) | 50.3 | 50.0 | 101 | 61 - 145 |
| Benzene | 47.8 | 50.0 | 96 | 76 - 127 |
| Chlorobenzene | 48.6 | 50.0 | 97 | 75 - 130 |
| Toluene | 47.6 | 50.0 | 95 | 76 - 125 |
| Trichloroethene (TCE) | 46.6 | 50.0 | 93 | 71 - 120 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/26/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLM04.3

Units: µg/L
Basis: NA

Analysis Lot: 209903

Lab Control Sample
RQ1006283-02

| Analyte Name | Result | Spike Amount | % Rec | % Rec Limits |
|------------------------------|--------|--------------|-------|--------------|
| 1,1-Dichloroethene (1,1-DCE) | 52.5 | 50.0 | 105 | 61 - 145 |
| Benzene | 49.0 | 50.0 | 98 | 76 - 127 |
| Chlorobenzene | 47.6 | 50.0 | 95 | 75 - 130 |
| Toluene | 47.9 | 50.0 | 96 | 76 - 125 |
| Trichloroethene (TCE) | 46.7 | 50.0 | 93 | 71 - 120 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: LOWRY-07/10
 Lab Code: R1003789-001

Service Request: R1003789
 Date Collected: 7/15/10
 Date Received: 7/15/10

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|---------------------------------|--------|---|-----|-----------------|----------------|---------------|----------------|--------------|
| 1,2,4-Trichlorobenzene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 1,2-Dichlorobenzene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 1,3-Dichlorobenzene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 1,4-Dichlorobenzene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2,4,5-Trichlorophenol | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2,4,6-Trichlorophenol | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2,4-Dichlorophenol | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2,4-Dimethylphenol | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2,4-Dinitrophenol | 47 | U | 47 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2,4-Dinitrotoluene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2,6-Dinitrotoluene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2-Chloronaphthalene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2-Chlorophenol | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2-Methylnaphthalene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2-Methylphenol | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2-Nitroaniline | 47 | U | 47 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2-Nitrophenol | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 3,3'-Dichlorobenzidine | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 3- and 4-Methylphenol Coelution | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 3-Nitroaniline | 47 | U | 47 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 4,6-Dinitro-2-methylphenol | 47 | U | 47 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 4-Bromophenyl Phenyl Ether | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 4-Chloro-3-methylphenol | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 4-Chloroaniline | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 4-Chlorophenyl Phenyl Ether | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 4-Nitroaniline | 47 | U | 47 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 4-Nitrophenol | 47 | U | 47 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Acenaphthene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Acenaphthylene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Anthracene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Benz(a)anthracene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Benzo(a)pyrene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Benzo(b)fluoranthene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Benzo(g,h,i)perylene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Benzo(k)fluoranthene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: LOWRY-07/10
 Lab Code: R1003789-001

Service Request: R1003789
 Date Collected: 7/15/10
 Date Received: 7/15/10
 Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|------------------------------|--------|---|-----|-----------------|----------------|---------------|----------------|--------------|
| Benzyl Alcohol | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| 2,2'-Oxybis(1-chloropropane) | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Bis(2-chloroethoxy)methane | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Bis(2-chloroethyl) Ether | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Bis(2-ethylhexyl) Phthalate | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Butyl Benzyl Phthalate | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Carbazole | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Chrysene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Di-n-butyl Phthalate | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Di-n-octyl Phthalate | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Dibenz(a,h)anthracene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Dibenzofuran | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Diethyl Phthalate | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Dimethyl Phthalate | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Fluoranthene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Fluorene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Hexachlorobenzene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Hexachlorobutadiene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Hexachlorocyclopentadiene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Hexachloroethane | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Indeno(1,2,3-cd)pyrene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Isophorone | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| N-Nitrosodi-n-propylamine | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| N-Nitrosodimethylamine | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| N-Nitrosodiphenylamine | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Naphthalene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Nitrobenzene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Pentachlorophenol (PCP) | 47 | U | 47 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Phenanthrene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Phenol | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |
| Pyrene | 9.4 | U | 9.4 | 1 | 7/19/10 | 7/26/10 11:50 | 115591 | 209916 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: LOWRY-07/10
Lab Code: R1003789-001

Service Request: R1003789
Date Collected: 7/15/10
Date Received: 7/15/10
Units: Percent
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
Prep Method: EPA 3510C

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|----------------------|------|----------------|---------------|---|
| 2,4,6-Tribromophenol | 82 | 28-157 | 7/26/10 11:50 | |
| 2-Fluorobiphenyl | 78 | 37-118 | 7/26/10 11:50 | |
| 2-Fluorophenol | 41 | 12-84 | 7/26/10 11:50 | |
| Nitrobenzene-d5 | 78 | 38-120 | 7/26/10 11:50 | |
| Phenol-d6 | 26 | 10-74 | 7/26/10 11:50 | |
| p-Terphenyl-d14 | 106 | 40-133 | 7/26/10 11:50 | |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: RQ1005805-01

Service Request: R1003789
 Date Collected: NA
 Date Received: NA
 Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|---------------------------------|--------|---|-----|-----------------|----------------|---------------|----------------|--------------|
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 1,2-Dichlorobenzene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 1,3-Dichlorobenzene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 1,4-Dichlorobenzene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2,4,5-Trichlorophenol | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2,4,6-Trichlorophenol | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2,4-Dichlorophenol | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2,4-Dimethylphenol | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2,4-Dinitrophenol | 50 | U | 50 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2,4-Dinitrotoluene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2,6-Dinitrotoluene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2-Chloronaphthalene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2-Chlorophenol | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2-Methylnaphthalene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2-Methylphenol | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2-Nitroaniline | 50 | U | 50 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2-Nitrophenol | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 3,3'-Dichlorobenzidine | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 3- and 4-Methylphenol Coelution | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 3-Nitroaniline | 50 | U | 50 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 4,6-Dinitro-2-methylphenol | 50 | U | 50 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 4-Bromophenyl Phenyl Ether | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 4-Chloro-3-methylphenol | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 4-Chloroaniline | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 4-Chlorophenyl Phenyl Ether | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 4-Nitroaniline | 50 | U | 50 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 4-Nitrophenol | 50 | U | 50 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Acenaphthene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Acenaphthylene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Anthracene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Benz(a)anthracene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Benzo(a)pyrene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Benzo(b)fluoranthene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Benzo(g,h,i)perylene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Benzo(k)fluoranthene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: RQ1005805-01

Service Request: R1003789
 Date Collected: NA
 Date Received: NA
 Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|------------------------------|--------|---|-----|-----------------|----------------|---------------|----------------|--------------|
| Benzyl Alcohol | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| 2,2'-Oxybis(1-chloropropane) | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Bis(2-chloroethoxy)methane | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Bis(2-chloroethyl) Ether | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Bis(2-ethylhexyl) Phthalate | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Butyl Benzyl Phthalate | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Carbazole | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Chrysene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Di-n-butyl Phthalate | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Di-n-octyl Phthalate | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Dibenz(a,h)anthracene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Dibenzofuran | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Diethyl Phthalate | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Dimethyl Phthalate | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Fluoranthene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Fluorene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Hexachlorobenzene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Hexachlorobutadiene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Hexachlorocyclopentadiene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Hexachloroethane | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Indeno(1,2,3-cd)pyrene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Isophorone | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| N-Nitrosodi-n-propylamine | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| N-Nitrosodimethylamine | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| N-Nitrosodiphenylamine | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Naphthalene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Nitrobenzene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Pentachlorophenol (PCP) | 50 | U | 50 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Phenanthrene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Phenol | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |
| Pyrene | 10 | U | 10 | 1 | 7/19/10 | 7/22/10 17:06 | 115591 | 209654 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1005805-01

Service Request: R1003789
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
Prep Method: EPA 3510C

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|----------------------|------|----------------|---------------|---|
| 2,4,6-Tribromophenol | 101 | 28-157 | 7/22/10 17:06 | |
| 2-Fluorobiphenyl | 90 | 37-118 | 7/22/10 17:06 | |
| 2-Fluorophenol | 54 | 12-84 | 7/22/10 17:06 | |
| Nitrobenzene-d5 | 87 | 38-120 | 7/22/10 17:06 | |
| Phenol-d6 | 35 | 10-74 | 7/22/10 17:06 | |
| p-Terphenyl-d14 | 106 | 40-133 | 7/22/10 17:06 | |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/22/10

**Lab Control Sample Summary
 Semivolatile Organic Compounds by GC/MS**

Analytical Method: 8270C
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 115591

| Analyte Name | Lab Control Sample RQ1005805-02 | | | Duplicate Lab Control Sample RQ1005805-03 | | | % Rec Limits | RPD | RPD Limit |
|---------------------------------|------------------------------------|-----------------|-------|--|-----------------|-------|-----------------|-----|--------------|
| | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| 1,2,4-Trichlorobenzene | 72.0 | 100 | 72 | 71.2 | 100 | 71 | 16 - 101 | 1 | 30 |
| 1,2-Dichlorobenzene | 67.3 | 100 | 67 | 65.1 | 100 | 65 | 23 - 130 | 3 | 30 |
| 1,3-Dichlorobenzene | 64.9 | 100 | 65 | 63.3 | 100 | 63 | 21 - 90 | 2 | 30 |
| 1,4-Dichlorobenzene | 65.4 | 100 | 65 | 63.2 | 100 | 63 | 14 - 102 | 3 | 30 |
| 2,4,5-Trichlorophenol | 109 | 100 | 109 | 118 | 100 | 118 * | 62 - 117 | 8 | 30 |
| 2,4,6-Trichlorophenol | 110 | 100 | 110 | 114 | 100 | 114 | 62 - 115 | 3 | 30 |
| 2,4-Dichlorophenol | 103 | 100 | 103 | 107 | 100 | 107 | 62 - 109 | 4 | 30 |
| 2,4-Dimethylphenol | 57.4 | 100 | 57 | 63.8 | 100 | 64 | 33 - 95 | 11 | 30 |
| 2,4-Dinitrophenol | 125 | 100 | 125 | 141 | 100 | 141 | 56 - 147 | 12 | 30 |
| 2,4-Dinitrotoluene | 112 | 100 | 112 | 121 | 100 | 121 | 69 - 122 | 8 | 30 |
| 2,6-Dinitrotoluene | 114 | 100 | 114 | 121 | 100 | 121 | 48 - 125 | 6 | 30 |
| 2-Chloronaphthalene | 85.0 | 100 | 85 | 85.9 | 100 | 86 | 47 - 98 | 1 | 30 |
| 2-Chlorophenol | 84.8 | 100 | 85 | 86.9 | 100 | 87 | 42 - 112 | 3 | 30 |
| 2-Methylnaphthalene | 75.7 | 100 | 76 | 78.5 | 100 | 78 | 34 - 102 | 4 | 30 |
| 2-Methylphenol | 74.7 | 100 | 75 | 77.3 | 100 | 77 | 51 - 95 | 3 | 30 |
| 2-Nitroaniline | 92.6 | 100 | 93 | 97.0 | 100 | 97 | 60 - 119 | 5 | 30 |
| 2-Nitrophenol | 99.8 | 100 | 100 | 109 | 100 | 109 | 60 - 113 | 9 | 30 |
| 3,3'-Dichlorobenzidine | 57.9 | 100 | 58 | 63.8 | 100 | 64 | 47 - 112 | 10 | 30 |
| 3- and 4-Methylphenol Coelution | 139 | 200 | 70 | 147 | 200 | 73 | 49 - 89 | 5 | 30 |
| 3-Nitroaniline | 86.6 | 100 | 87 | 95.7 | 100 | 96 | 52 - 107 | 10 | 30 |
| 4,6-Dinitro-2-methylphenol | 125 | 100 | 125 | 134 | 100 | 134 | 60 - 135 | 7 | 30 |
| 4-Bromophenyl Phenyl Ether | 104 | 100 | 104 | 111 | 100 | 111 | 63 - 124 | 6 | 30 |
| 4-Chloro-3-methylphenol | 90.3 | 100 | 90 | 97.1 | 100 | 97 | 42 - 124 | 7 | 30 |
| 4-Chloroaniline | 75.2 | 100 | 75 | 81.7 | 100 | 82 | 41 - 112 | 8 | 30 |
| 4-Chlorophenyl Phenyl Ether | 98.2 | 100 | 98 | 103 | 100 | 103 | 59 - 112 | 5 | 30 |
| 4-Nitroaniline | 93.5 | 100 | 94 | 98.5 | 100 | 98 | 72 - 115 | 5 | 30 |
| 4-Nitrophenol | 40.2 | 100 | 40 | 46.1 | 100 | 46 | 10 - 85 | 14 | 30 |
| Acenaphthene | 89.6 | 100 | 90 | 93.7 | 100 | 94 | 63 - 107 | 4 | 30 |
| Acenaphthylene | 95.9 | 100 | 96 | 99.5 | 100 | 99 | 57 - 109 | 4 | 30 |
| Anthracene | 93.6 | 100 | 94 | 97.5 | 100 | 98 | 55 - 116 | 4 | 30 |
| Benz(a)anthracene | 98.9 | 100 | 99 | 105 | 100 | 105 | 66 - 110 | 6 | 30 |
| Benzo(a)pyrene | 95.1 | 100 | 95 | 101 | 100 | 101 | 44 - 114 | 6 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/22/10

**Lab Control Sample Summary
 Semivolatile Organic Compounds by GC/MS**

Analytical Method: 8270C
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 115591

| Analyte Name | Lab Control Sample RQ1005805-02 | | | Duplicate Lab Control Sample RQ1005805-03 | | | % Rec Limits | RPD | RPD Limit |
|------------------------------|------------------------------------|-----------------|-------|--|-----------------|-------|-----------------|-----|--------------|
| | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| Benzo(b)fluoranthene | 101 | 100 | 101 | 108 | 100 | 108 | 64 - 122 | 7 | 30 |
| Benzo(g,h,i)perylene | 92.7 | 100 | 93 | 99.3 | 100 | 99 | 60 - 127 | 7 | 30 |
| Benzo(k)fluoranthene | 101 | 100 | 101 | 109 | 100 | 109 | 49 - 133 | 8 | 30 |
| Benzyl Alcohol | 69.2 | 100 | 69 | 75.8 | 100 | 76 | 31 - 109 | 9 | 30 |
| 2,2'-Oxybis(1-chloropropane) | 71.0 | 100 | 71 | 71.3 | 100 | 71 | 63 - 114 | 0 | 30 |
| Bis(2-chloroethoxy)methane | 89.3 | 100 | 89 | 93.4 | 100 | 93 | 44 - 141 | 4 | 30 |
| Bis(2-chloroethyl) Ether | 83.9 | 100 | 84 | 86.1 | 100 | 86 | 56 - 106 | 3 | 30 |
| Bis(2-ethylhexyl) Phthalate | 89.3 | 100 | 89 | 96.4 | 100 | 96 | 62 - 124 | 8 | 30 |
| Butyl Benzyl Phthalate | 90.3 | 100 | 90 | 98.2 | 100 | 98 | 41 - 148 | 8 | 30 |
| Carbazole | 98.3 | 100 | 98 | 104 | 100 | 104 | 66 - 117 | 6 | 30 |
| Chrysene | 98.7 | 100 | 99 | 105 | 100 | 105 | 57 - 118 | 6 | 30 |
| Di-n-butyl Phthalate | 92.2 | 100 | 92 | 99.3 | 100 | 99 | 57 - 139 | 7 | 30 |
| Di-n-octyl Phthalate | 91.4 | 100 | 91 | 99.7 | 100 | 100 | 77 - 120 | 9 | 30 |
| Dibenz(a,h)anthracene | 92.6 | 100 | 93 | 99.6 | 100 | 100 | 58 - 132 | 7 | 30 |
| Dibenzofuran | 92.9 | 100 | 93 | 97.3 | 100 | 97 | 58 - 105 | 5 | 30 |
| Diethyl Phthalate | 91.8 | 100 | 92 | 98.4 | 100 | 98 | 65 - 122 | 7 | 30 |
| Dimethyl Phthalate | 99.9 | 100 | 100 | 105 | 100 | 105 | 69 - 115 | 5 | 30 |
| Fluoranthene | 98.6 | 100 | 99 | 106 | 100 | 106 | 62 - 123 | 7 | 30 |
| Fluorene | 94.5 | 100 | 95 | 99.2 | 100 | 99 | 60 - 112 | 5 | 30 |
| Hexachlorobenzene | 103 | 100 | 103 | 107 | 100 | 107 | 75 - 116 | 4 | 30 |
| Hexachlorobutadiene | 70.6 | 100 | 71 | 71.2 | 100 | 71 | 16 - 95 | 1 | 30 |
| Hexachlorocyclopentadiene | 54.3 | 100 | 54 | 59.1 | 100 | 59 | 10 - 95 | 9 | 30 |
| Hexachloroethane | 59.3 | 100 | 59 | 57.4 | 100 | 57 | 15 - 92 | 3 | 30 |
| Indeno(1,2,3-cd)pyrene | 94.8 | 100 | 95 | 102 | 100 | 102 | 64 - 126 | 7 | 30 |
| Isophorone | 90.0 | 100 | 90 | 95.1 | 100 | 95 | 61 - 128 | 5 | 30 |
| N-Nitrosodi-n-propylamine | 73.6 | 100 | 74 | 77.7 | 100 | 78 | 63 - 110 | 5 | 30 |
| N-Nitrosodimethylamine | 48.4 | 100 | 48 | 51.6 | 100 | 52 | 37 - 67 | 6 | 30 |
| N-Nitrosodiphenylamine | 96.0 | 100 | 96 | 101 | 100 | 101 | 45 - 123 | 5 | 30 |
| Naphthalene | 72.5 | 100 | 73 | 74.0 | 100 | 74 | 36 - 95 | 2 | 30 |
| Nitrobenzene | 94.8 | 100 | 95 | 100 | 100 | 100 | 51 - 113 | 6 | 30 |
| Pentachlorophenol (PCP) | 108 | 100 | 108 | 118 | 100 | 118 | 63 - 129 | 9 | 30 |
| Phenanthrene | 97.5 | 100 | 98 | 103 | 100 | 103 | 58 - 118 | 6 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/22/10

**Lab Control Sample Summary
 Semivolatile Organic Compounds by GC/MS**

Analytical Method: 8270C
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 115591

| Analyte Name | Lab Control Sample RQ1005805-02 | | | Duplicate Lab Control Sample RQ1005805-03 | | | % Rec Limits | RPD | RPD Limit |
|--------------|------------------------------------|-----------------|-------|--|-----------------|-------|-----------------|-----|--------------|
| | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| Phenol | 38.7 | 100 | 39 | 41.8 | 100 | 42 | 10 - 81 | 8 | 30 |
| Pyrene | 102 | 100 | 102 | 109 | 100 | 109 | 67 - 118 | 7 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: LOWRY-07/10
Lab Code: R1003789-001

Service Request: R1003789
Date Collected: 7/15/10
Date Received: 7/15/10
Units: µg/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081A
Prep Method: EPA 3510C

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|---------------------|--------|---|-------|-----------------|----------------|---------------|----------------|--------------|
| 4,4'-DDD | 0.094 | U | 0.094 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| 4,4'-DDE | 0.094 | U | 0.094 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| 4,4'-DDT | 0.094 | U | 0.094 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Aldrin | 0.047 | U | 0.047 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Dieldrin | 0.094 | U | 0.094 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Endosulfan I | 0.047 | U | 0.047 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Endosulfan II | 0.094 | U | 0.094 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Endosulfan Sulfate | 0.094 | U | 0.094 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Endrin | 0.094 | U | 0.094 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Endrin Aldehyde | 0.094 | U | 0.094 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Endrin Ketone | 0.094 | U | 0.094 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Heptachlor | 0.047 | U | 0.047 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Heptachlor Epoxide | 0.047 | U | 0.047 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Methoxychlor | 0.47 | U | 0.47 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| Toxaphene | 0.94 | U | 0.94 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| alpha-BHC | 0.047 | U | 0.047 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| alpha-Chlordane | 0.047 | U | 0.047 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| beta-BHC | 0.047 | U | 0.047 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| delta-BHC | 0.047 | U | 0.047 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| gamma-BHC (Lindane) | 0.047 | U | 0.047 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |
| gamma-Chlordane | 0.047 | U | 0.047 | 1 | 7/22/10 | 7/29/10 18:59 | 115849 | 210680 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|----------------------|------|----------------|---------------|---|
| Decachlorobiphenyl | 85 | 10-138 | 7/29/10 18:59 | |
| Tetrachloro-m-xylene | 78 | 24-117 | 7/29/10 18:59 | |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1005924-01

Service Request: R1003789
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081A
Prep Method: EPA 3510C

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|---------------------|--------|---|-------|-----------------|----------------|---------------|----------------|--------------|
| 4,4'-DDD | 0.10 | U | 0.10 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| 4,4'-DDE | 0.10 | U | 0.10 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| 4,4'-DDT | 0.10 | U | 0.10 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Aldrin | 0.050 | U | 0.050 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Dieldrin | 0.10 | U | 0.10 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Endosulfan I | 0.050 | U | 0.050 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Endosulfan II | 0.10 | U | 0.10 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Endosulfan Sulfate | 0.10 | U | 0.10 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Endrin | 0.10 | U | 0.10 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Endrin Aldehyde | 0.10 | U | 0.10 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Endrin Ketone | 0.10 | U | 0.10 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Heptachlor | 0.050 | U | 0.050 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Heptachlor Epoxide | 0.050 | U | 0.050 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Methoxychlor | 0.50 | U | 0.50 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| Toxaphene | 1.0 | U | 1.0 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| alpha-BHC | 0.050 | U | 0.050 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| alpha-Chlordane | 0.050 | U | 0.050 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| beta-BHC | 0.050 | U | 0.050 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| delta-BHC | 0.050 | U | 0.050 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| gamma-BHC (Lindane) | 0.050 | U | 0.050 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |
| gamma-Chlordane | 0.050 | U | 0.050 | 1 | 7/22/10 | 7/29/10 17:11 | 115849 | 210680 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|----------------------|------|----------------|---------------|---|
| Decachlorobiphenyl | 79 | 10-138 | 7/29/10 17:11 | |
| Tetrachloro-m-xylene | 71 | 24-117 | 7/29/10 17:11 | |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/29/10

**Lab Control Sample Summary
 Organochlorine Pesticides by Gas Chromatography**

Analytical Method: 8081A
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 115849

| Analyte Name | Lab Control Sample RQ1005924-02 | | | Duplicate Lab Control Sample RQ1005924-03 | | | % Rec Limits | RPD | RPD Limit |
|---------------------|------------------------------------|-----------------|-------|--|-----------------|-------|-----------------|-----|--------------|
| | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| 4,4'-DDD | 0.192 | 0.200 | 96 | 0.192 | 0.200 | 96 | 65 - 125 | 0 | 30 |
| 4,4'-DDE | 0.180 | 0.200 | 90 | 0.182 | 0.200 | 91 | 63 - 113 | 2 | 30 |
| 4,4'-DDT | 0.181 | 0.200 | 90 | 0.183 | 0.200 | 92 | 64 - 116 | 1 | 30 |
| Aldrin | 0.155 | 0.200 | 78 | 0.169 | 0.200 | 84 | 54 - 96 | 8 | 30 |
| Dieldrin | 0.193 | 0.200 | 96 | 0.197 | 0.200 | 98 | 70 - 122 | 2 | 30 |
| Endosulfan I | 0.185 | 0.200 | 93 | 0.188 | 0.200 | 94 | 71 - 121 | 1 | 30 |
| Endosulfan II | 0.184 | 0.200 | 92 | 0.185 | 0.200 | 93 | 69 - 118 | 0 | 30 |
| Endosulfan Sulfate | 0.192 | 0.200 | 96 | 0.194 | 0.200 | 97 | 63 - 122 | 1 | 30 |
| Endrin | 0.196 | 0.200 | 98 | 0.199 | 0.200 | 99 | 66 - 127 | 1 | 30 |
| Endrin Aldehyde | 0.128 | 0.200 | 64 | 0.142 | 0.200 | 71 | 10 - 154 | 10 | 30 |
| Endrin Ketone | 0.194 | 0.200 | 97 | 0.196 | 0.200 | 98 | 69 - 125 | 1 | 30 |
| Heptachlor | 0.163 | 0.200 | 82 | 0.166 | 0.200 | 83 | 63 - 108 | 1 | 30 |
| Heptachlor Epoxide | 0.182 | 0.200 | 91 | 0.182 | 0.200 | 91 | 72 - 113 | 0 | 30 |
| Methoxychlor | 0.193 | 0.200 | 96 | 0.187 | 0.200 | 94 | 77 - 133 | 3 | 30 |
| alpha-BHC | 0.185 | 0.200 | 93 | 0.186 | 0.200 | 93 | 67 - 115 | 0 | 30 |
| alpha-Chlordane | 0.178 | 0.200 | 89 | 0.180 | 0.200 | 90 | 68 - 109 | 1 | 30 |
| beta-BHC | 0.182 | 0.200 | 91 | 0.183 | 0.200 | 92 | 68 - 114 | 1 | 30 |
| delta-BHC | 0.190 | 0.200 | 95 | 0.188 | 0.200 | 94 | 42 - 122 | 1 | 30 |
| gamma-BHC (Lindane) | 0.176 | 0.200 | 88 | 0.177 | 0.200 | 88 | 69 - 116 | 0 | 30 |
| gamma-Chlordane | 0.175 | 0.200 | 88 | 0.173 | 0.200 | 86 | 69 - 112 | 1 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: LOWRY-07/10
 Lab Code: R1003789-001

Service Request: R1003789
 Date Collected: 7/15/10
 Date Received: 7/15/10

Units: µg/L
 Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082
 Prep Method: EPA 3510C

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|--------------|--------|---|------|-----------------|----------------|---------------|----------------|--------------|
| Aroclor 1016 | 0.94 | U | 0.94 | 1 | 7/22/10 | 7/29/10 16:41 | 115849 | 210656 |
| Aroclor 1221 | 1.9 | U | 1.9 | 1 | 7/22/10 | 7/29/10 16:41 | 115849 | 210656 |
| Aroclor 1232 | 0.94 | U | 0.94 | 1 | 7/22/10 | 7/29/10 16:41 | 115849 | 210656 |
| Aroclor 1242 | 0.94 | U | 0.94 | 1 | 7/22/10 | 7/29/10 16:41 | 115849 | 210656 |
| Aroclor 1248 | 0.94 | U | 0.94 | 1 | 7/22/10 | 7/29/10 16:41 | 115849 | 210656 |
| Aroclor 1254 | 0.94 | U | 0.94 | 1 | 7/22/10 | 7/29/10 16:41 | 115849 | 210656 |
| Aroclor 1260 | 0.94 | U | 0.94 | 1 | 7/22/10 | 7/29/10 16:41 | 115849 | 210656 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|----------------------|------|----------------|---------------|---|
| Decachlorobiphenyl | 82 | 10-136 | 7/29/10 16:41 | |
| Tetrachloro-m-xylene | 79 | 28-117 | 7/29/10 16:41 | |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Cole-Zaiser Site/16530332.00100
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: RQ1005924-01

Service Request: R1003789
 Date Collected: NA
 Date Received: NA
 Units: µg/L
 Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082
 Prep Method: EPA 3510C

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|--------------|--------|---|-----|-----------------|----------------|---------------|----------------|--------------|
| Aroclor 1016 | 1.0 | U | 1.0 | 1 | 7/22/10 | 7/29/10 14:56 | 115849 | 210656 |
| Aroclor 1221 | 2.0 | U | 2.0 | 1 | 7/22/10 | 7/29/10 14:56 | 115849 | 210656 |
| Aroclor 1232 | 1.0 | U | 1.0 | 1 | 7/22/10 | 7/29/10 14:56 | 115849 | 210656 |
| Aroclor 1242 | 1.0 | U | 1.0 | 1 | 7/22/10 | 7/29/10 14:56 | 115849 | 210656 |
| Aroclor 1248 | 1.0 | U | 1.0 | 1 | 7/22/10 | 7/29/10 14:56 | 115849 | 210656 |
| Aroclor 1254 | 1.0 | U | 1.0 | 1 | 7/22/10 | 7/29/10 14:56 | 115849 | 210656 |
| Aroclor 1260 | 1.0 | U | 1.0 | 1 | 7/22/10 | 7/29/10 14:56 | 115849 | 210656 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|----------------------|------|----------------|---------------|---|
| Decachlorobiphenyl | 74 | 10-136 | 7/29/10 14:56 | |
| Tetrachloro-m-xylene | 70 | 28-117 | 7/29/10 14:56 | |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/29/10

**Lab Control Sample Summary
 Polychlorinated Biphenyls (PCBs) by GC**

Analytical Method: 8082
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 115849

| Analyte Name | Lab Control Sample RQ1005924-02 | | | Duplicate Lab Control Sample RQ1005924-03 | | | % Rec Limits | RPD | RPD Limit |
|--------------|------------------------------------|-----------------|-------|--|-----------------|-------|-----------------|-----|--------------|
| | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| Aroclor 1260 | 3.91 | 5.00 | 78 | 4.21 | 5.00 | 84 | 51 - 123 | 7 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: LOWRY-07/10
Lab Code: R1003789-001

Service Request: R1003789
Date Collected: 7/15/10
Date Received: 7/15/10
Units: µg/L
Basis: NA

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|--------------|--------|---|------|-----------------|----------------|---------------|----------------|--------------|
| 2,4,5-T | 0.47 | U | 0.47 | 1 | 7/20/10 | 7/26/10 15:43 | 115659 | 209998 |
| 2,4,5-TP | 0.47 | U | 0.47 | 1 | 7/20/10 | 7/26/10 15:43 | 115659 | 209998 |
| 2,4-D | 0.47 | U | 0.47 | 1 | 7/20/10 | 7/26/10 15:43 | 115659 | 209998 |
| Dicamba | 0.47 | U | 0.47 | 1 | 7/20/10 | 7/26/10 15:43 | 115659 | 209998 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|-------------------------------|------|----------------|---------------|---|
| 2,4-Dichlorophenylacetic Acid | 74 | 15-146 | 7/26/10 15:43 | |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1005845-01

Service Request: R1003789
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|--------------|--------|---|------|-----------------|----------------|---------------|----------------|--------------|
| 2,4,5-T | 0.50 | U | 0.50 | 1 | 7/20/10 | 7/26/10 14:16 | 115659 | 209998 |
| 2,4,5-TP | 0.50 | U | 0.50 | 1 | 7/20/10 | 7/26/10 14:16 | 115659 | 209998 |
| 2,4-D | 0.50 | U | 0.50 | 1 | 7/20/10 | 7/26/10 14:16 | 115659 | 209998 |
| Dicamba | 0.50 | U | 0.50 | 1 | 7/20/10 | 7/26/10 14:16 | 115659 | 209998 |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Q |
|-------------------------------|------|----------------|---------------|---|
| 2,4-Dichlorophenylacetic Acid | 79 | 15-146 | 7/26/10 14:16 | |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/26/10

**Lab Control Sample Summary
 Chlorinated Herbicides by GC**

Analytical Method: 8151A
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 115659

| Analyte Name | Lab Control Sample RQ1005845-02 | | | Duplicate Lab Control Sample RQ1005845-03 | | | % Rec Limits | RPD | RPD Limit |
|--------------|------------------------------------|-----------------|-------|--|-----------------|-------|-----------------|-----|--------------|
| | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| 2,4,5-T | 2.92 | 2.50 | 117 | 2.65 | 2.50 | 106 | 29 - 118 | 10 | 30 |
| 2,4,5-TP | 2.15 | 2.50 | 86 | 2.04 | 2.50 | 81 | 40 - 116 | 6 | 30 |
| 2,4-D | 3.38 | 2.50 | 135 | 2.92 | 2.50 | 117 | 42 - 141 | 15 | 30 |
| Dicamba | 2.07 | 2.50 | 83 | 1.94 | 2.50 | 77 | 43 - 107 | 7 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: LOWRY-07/10
Lab Code: R1003789-001

Service Request: R1003789
Date Collected: 7/15/10
Date Received: 7/15/10
Units: µg/L
Basis: NA

Petroleum Products in Water (Hydrocarbon Scan) for State of New York

Analytical Method: NY 310-13
Prep Method: Method

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Analysis | |
|----------------|--------|---|-----|-----------------|----------------|---------------|---------------------|--------|
| | | | | | | | Lot | Lot |
| Fuel Oil No. 2 | 940 | U | 940 | 1 | 7/21/10 | 7/22/10 12:21 | 115756 | 209593 |
| Fuel Oil No. 4 | 940 | U | 940 | 1 | 7/21/10 | 7/22/10 12:21 | 115756 | 209593 |
| Fuel Oil No. 6 | 940 | U | 940 | 1 | 7/21/10 | 7/22/10 12:21 | 115756 | 209593 |
| Gasoline | 940 | U | 940 | 1 | 7/21/10 | 7/22/10 12:21 | 115756 | 209593 |
| Kerosene | 940 | U | 940 | 1 | 7/21/10 | 7/22/10 12:21 | 115756 | 209593 |
| Lube Oil | 940 | U | 940 | 1 | 7/21/10 | 7/22/10 12:21 | 115756 | 209593 |
| n-Dodecane | 940 | U | 940 | 1 | 7/21/10 | 7/22/10 12:21 | 115756 | 209593 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1005889-01

Service Request: R1003789
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Petroleum Products in Water (Hydrocarbon Scan) for State of New York

Analytical Method: NY 310-13
Prep Method: Method

| Analyte Name | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Analysis Lot |
|----------------|--------|---|------|-----------------|----------------|---------------|----------------|--------------|
| Fuel Oil No. 2 | 1000 | U | 1000 | 1 | 7/21/10 | 7/22/10 13:12 | 115756 | 209593 |
| Fuel Oil No. 4 | 1000 | U | 1000 | 1 | 7/21/10 | 7/22/10 13:12 | 115756 | 209593 |
| Fuel Oil No. 6 | 1000 | U | 1000 | 1 | 7/21/10 | 7/22/10 13:12 | 115756 | 209593 |
| Gasoline | 1000 | U | 1000 | 1 | 7/21/10 | 7/22/10 13:12 | 115756 | 209593 |
| Kerosene | 1000 | U | 1000 | 1 | 7/21/10 | 7/22/10 13:12 | 115756 | 209593 |
| Lube Oil | 1000 | U | 1000 | 1 | 7/21/10 | 7/22/10 13:12 | 115756 | 209593 |
| n-Dodecane | 1000 | U | 1000 | 1 | 7/21/10 | 7/22/10 13:12 | 115756 | 209593 |

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/22/10

Lab Control Sample Summary
Petroleum Products in Water (Hydrocarbon Scan) for State of New York

Analytical Method: NY 310-13
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 115756

| Analyte Name | Lab Control Sample RQ1005889-02 | | | Duplicate Lab Control Sample RQ1005889-03 | | | % Rec Limits | RPD | RPD Limit |
|----------------|------------------------------------|-----------------|-------|--|-----------------|-------|-----------------|-----|--------------|
| | Result | Spike Amount | % Rec | Result | Spike Amount | % Rec | | | |
| Fuel Oil No. 2 | 2880 | 5000 | 58 | 2860 | 5000 | 57 | 46 - 150 | 1 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

METALS

COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: R1003789
Lab Code: _____ Case No.: _____
SOW No.: EPA 200 Serie

SDG No.: MW10A
SAS No.: _____

Sample ID. Lab Sample No.
LOWRY-07/10 R1003789-001

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
 If yes-were raw data generated before Yes/No NO
 application of background corrections?

Comments: See Attached Case Narrative

Signature: Michael F. Perry

Name: Michael Perry

Date: 8/9/10

Title: Laboratory Director

METALS
-I-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LOWRY-07/10

Contract: R1003789

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: MW10A

Matrix (soil/water): WATER

Lab Sample ID: R1003789-001

Level (low/med): LOW

Date Received: 7/15/2010

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7440-22-4 | Silver | 10.0 | U | | P |
| 7440-36-0 | Antimony | 1.0 | U | | MS |
| 7440-38-2 | Arsenic | 1.3 | | | MS |
| 7440-39-3 | Barium | 205 | | | MS |
| 7440-41-7 | Beryllium | 1.0 | U | | MS |
| 7440-43-9 | Cadmium | 1.0 | U | | MS |
| 7439-89-6 | Iron | 291 | | | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-23-5 | Sodium | 18800 | | | P |
| 7440-02-0 | Nickel | 1.1 | | | MS |
| 7440-28-0 | Thallium | 1.0 | U | | MS |
| 7440-66-6 | Zinc | 20.0 | U | | P |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water

Service Request: R1003789
Date Analyzed: 7/29/10

Lab Control Sample Summary
Hexavalent Chromium, Dissolved, In DW, Groundwater And Industrial Wastewater Effluents By IC

Units: mg/L
Basis: NA

Lab Control Sample
R1003789-LCS

| Analyte Name | Method | Result | Spike Amount | % Rec | % Rec Limits |
|---------------------------------|--------|--------|--------------|-------|--------------|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.201 | 0.200 | 101 | 90 - 110 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1003789-MB

Service Request: R1003789
Date Collected: NA
Date Received: NA

Basis: NA

Hexavalent Chromium, Dissolved, In DW, Groundwater And Industrial Wastewater Effluents By IC

| Analyte Name | Method | Result Q | Units | MRL | Dilution Factor | Date Extracted | Date Analyzed |
|---------------------------------|--------|----------|-------|-------|-----------------|----------------|---------------|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.010 U | mg/L | 0.010 | 1 | NA | 7/29/10 12:38 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Cole-Zaiser Site/16530332.00100
Sample Matrix: Water
Sample Name: LOWRY-07/10
Lab Code: R1003789-001

Service Request: R1003789
Date Collected: 7/15/10
Date Received: 7/15/10

Basis: NA

Hexavalent Chromium, Dissolved, In DW, Groundwater And Industrial Wastewater Effluents By IC

| Analyte Name | Method | Result Q | Units | MRL | Dilution Factor | Date Extracted | Date Analyzed |
|---------------------------------|--------|----------|-------|-------|-----------------|----------------|---------------|
| Chromium, Hexavalent, Dissolved | 218.6 | 0.010 U | mg/L | 0.010 | 1 | NA | 7/29/10 13:05 |

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R1003789

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW10A

Solid LCS Source: _____

Aqueous LCS Source: ACCUSTANDARD

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | | |
|-----------|----------------|-------|-----|---------------|-------|---|--------|----|
| | True | Found | %R | True | Found | C | Limits | %R |
| Silver | 50 | 50 | 100 | | | | | |
| Antimony | 20 | 20.60 | 103 | | | | | |
| Arsenic | 20 | 20.90 | 104 | | | | | |
| Barium | 20 | 20.30 | 102 | | | | | |
| Beryllium | 20 | 20.90 | 104 | | | | | |
| Cadmium | 20 | 21.40 | 107 | | | | | |
| Iron | 1000 | 1010 | 101 | | | | | |
| Mercury | 1.000 | 1.060 | 106 | | | | | |
| Nickel | 20 | 21.20 | 106 | | | | | |
| Sodium | 20000 | 20500 | 102 | | | | | |
| Thallium | 20 | 20.10 | 100 | | | | | |
| Zinc | 500 | 516 | 103 | | | | | |

Comments: _____

METALS
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

LOWRY-07/10A

Contract: R1003789

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW10A

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

| Analyte | Control Limit %R | Spiked Sample Result (SSR) C | Sample Result (SR) C | Spike Added (SA) | %R | Q | M |
|-----------|------------------|------------------------------|----------------------|------------------|-----|---|----|
| Antimony | | 19.8 | 1.0 U | 20 | 99 | | MS |
| Arsenic | | 21.2 | 1.2 | 20 | 100 | | MS |
| Barium | | 62.2 | 41.1 | 20 | 106 | | MS |
| Beryllium | | 18.2 | 1.0 U | 20 | 91 | | MS |
| Cadmium | | 20.3 | 1.0 U | 20 | 102 | | MS |
| Nickel | | 20.6 | 1.1 | 20 | 98 | | MS |
| Thallium | | 20.2 | 1.0 U | 20 | 101 | | MS |

Comments:

METALS

-3-

BLANKS

Contract: R1003789

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW10A

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | M |
|---------|-----------------------------|-------------------------------------|--------|---|---|---|---|-------------------|---|
| | | C | 1 | C | 2 | C | 3 | | |
| Silver | | | 10.00 | U | | | | | P |
| Iron | | | 100.00 | U | | | | | P |
| Zinc | | | 20.00 | U | | | | | P |

Comments:

METALS

-3-

BLANKS

Contract: R1003789

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW10A

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|-------------------------------------|---------|---|---------|---|---------|-------------------|---|----|
| | | C | 1 | C | 2 | C | 3 | C | C | |
| Silver | | | 10.00 | U | 10.00 | U | 10.00 | U | | P |
| Antimony | | | 1.000 | U | | | | | | MS |
| Arsenic | | | 1.000 | U | | | | | | MS |
| Beryllium | | | 1.000 | U | | | | | | MS |
| Cadmium | | | 1.000 | U | | | | | | MS |
| Iron | | | 100.00 | U | 100.00 | U | 100.00 | U | | P |
| Nickel | | | 1.000 | U | | | | | | MS |
| Sodium | | | 1000.00 | U | 1000.00 | U | 1000.00 | U | | P |
| Thallium | | | 1.000 | U | | | | | | MS |
| Zinc | | | 20.00 | U | 20.00 | U | 20.00 | U | | P |

Comments:

METALS

-3-

BLANKS

Contract: R1003789

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW10A

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | M |
|-----------|-----------------------------|-------------------------------------|-----------|-----------|-----------|-----------|------------|-------------------|---|
| | | C | 1 C | 2 C | 3 C | C | C | | |
| Silver | 10.00 U | 10.00 U | 10.00 U | 10.00 U | 10.00 U | 10.00 U | 10.000 U | P | |
| Antimony | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | MS | |
| Arsenic | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | MS | |
| Barium | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | MS | |
| Beryllium | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | MS | |
| Cadmium | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | MS | |
| Iron | 100.00 U | 100.00 U | 100.00 U | 100.00 U | 100.00 U | 100.00 U | 100.000 U | P | |
| Mercury | 0.200 U | 0.200 U | 0.200 U | 0.200 U | 0.200 U | 0.200 U | 0.200 U | CV | |
| Nickel | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | MS | |
| Sodium | 1000.00 U | 1000.00 U | 1000.00 U | 1000.00 U | 1000.00 U | 1000.00 U | 1000.000 U | P | |
| Thallium | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | 1.000 U | MS | |
| Zinc | 20.00 U | 20.00 U | 20.00 U | 20.00 U | 20.00 U | 20.00 U | 20.000 U | P | |

Comments:

SUMMARY OF EXCAVATION SOIL SAMPLING
REMEDIAL ACTION ACTIVITIES
COLE ZAISER SITE - WEST AMBOY, N.Y.

| Sample ID Sample Date Sample Depth (feet) Headspace* (ppm) | NYSDEC Closure Criteria | CZEXC-HWW-1 7/21/2001 4 0.0 | A367-S2 (DEC) (7/22/01) (4) (0.0) | CZEXC-WW-1-04 7/21/2001 4 0.0 | CZEXC-NEW-1 7/22/2001 2.5 2.7 | A367-S3 (DEC) (7/22/01) (2.5) (2.7) | CZEXC-NEW-2 8/11/2001 2.5 0.0 | CZEXC-WW-2-02 7/22/2001 2 39.0 | CZEXC-DWW-2-02 7/22/2001 2 (39.0) | A367-S1 (DEC) (7/22/01) (2) (39.0) |
|---|-------------------------------|--------------------------------------|--|--|--|--|--|---|--|---|
| Volatle Organic Compounds (ASP-00) | | | | | | | | | | |
| 1,1-Dichloroethane | 200 | -- | -- | -- | 120 D | 250 | -- | 9 J | 3 J | 28 J |
| 1,1-Dichloroethene | 400 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| cis-1,2-Dichloroethene | 300 | -- | -- | -- | -- | -- | 4 J | 4 J | 83 | |
| trans-1,2-Dichloroethene | 300 | -- | -- | -- | 10 DJ | -- | 1 J | -- | -- | |
| 1,1,1-Trichloroethane | 800 | -- | -- | -- | -- | 74 | 6 J | 3 J | 52 | |
| Benzene | 60 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Ethylbenzene | 5500 | -- | -- | -- | 21 DJ | 130 | -- | 52 | 32 | 74 |
| Tetrachloroethene | 1400 | 1 J | 14 J | -- | -- | -- | 7 J | 8 J | 69 | |
| Toluene | 1500 | -- | -- | -- | 200 D | 3300 E | -- | 100 | 47 | 200 |
| Trichloroethene | 1700 | -- | -- | -- | -- | -- | -- | -- | -- | 12 J |
| Vinyl Chloride | 200 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Xylenes | 1200 | -- | -- | -- | 160 D | 1590 E | -- | 380 | 230 | 850 |
| 1,2-Dichlorobenzene | -- | -- | -- | -- | -- | -- | -- | 30 | 22 | -- |
| 1,1,2-Trichlorotrifluoromethane | -- | -- | n/a | -- | -- | n/a | -- | 4 J | 3 J | n/a |
| 4-Methyl-2-Pentanone | -- | -- | -- | -- | -- | -- | -- | 2 J | -- | -- |
| 2-Butanone | -- | -- | -- | 5 BJ | 350 BD | 530 E | -- | 37 B | 39 B | 100 |
| Acetone | -- | -- | -- | 52 B | 1300 BD | 4100 E | 26 | 110 B | 140 B | 380 |
| Carbon Disulfide | -- | -- | -- | -- | 8 DJ | -- | -- | 1 J | 2 J | -- |
| Chlorobenzene | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chloroform | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Isopropylbenzene | -- | -- | n/a | -- | 91 D | n/a | -- | 32 | 24 | n/a |
| Methylcyclohexane | -- | -- | n/a | -- | 99 D | n/a | -- | 12 | 14 | n/a |
| Methylene Chloride | -- | 10 BJ | -- | 9 BJ | 73 BDJ | -- | 3 J | 9 BJ | 9 BJ | -- |
| Total Volatiles | 10000 | 11 | 14 | 66 | 2432 | 9974 | 29 | 796 | 560 | 1848 |

Notes:

All analytical results and closure criteria are presented in ug/kg

-- = Not detected above reporting limit

Bolded values indicate exceedances of closure criteria

J = Sample result has been estimated due to a detection below the quantitation limit

B = Analyte of concern has been detected in the trip blank as well as in the sample

E = Sample result was detected outside of the calibration range

n/a = Constituent was not analyzed for

* Headspace analyses performed using a Thermo-Environmental OVM, Model 560B with an 11.8 eV lamp

Sample designations indicate cardinal direction and placement of sample (i.e. - NWF= NorthWest Floor, SW= South Wall)

OSWEGO COUNTY CLERK'S OFFICE
RECEIVED

OCT 25 PM 2:58

**ENVIRONMENTAL PROTECTION EASEMENT AND
DECLARATION OF RESTRICTIVE COVENANTS**

This Environmental Protection Easement and Declaration of Restrictive Covenants is made as of this 26th day of August, 2004, by and between Dorothy J. Lowe ("Grantor"), having an address at 400 North Avenue, Syracuse, NY 13206 and BorgWarner Inc., including any successor-in-interest ("Grantee").

WHEREAS, Dorothy J. Lowe is the owner of a parcel of land (the "Property") located in rural Amboy, County of Oswego, New York, and being more fully described on Attachment A which is incorporated herein.

WHEREAS, the tax parcel identification number for the Property is 195.00-02-16.

WHEREAS, the property was formerly owned and operated by Cole-Zaiser Inc. from about 1973 to 1976 and operated as a waste oil treatment facility ("Cole-Zaiser Site" or "the Site"); the Site is listed as an inactive hazardous waste site as that term is defined a New York State Environmental Conservation Law 27-1301(2); and the site is listed on New York's Registry as Site Number 738013.

WHEREAS, in a Record of Decision issued after a period of public comment on December 9, 1998 (the "ROD"), the New York State Department of Environmental Conservation (NYSDEC) selected a remedial action for the Site, which provided, in part, for the following remedial actions:

- (i) removal of the source of contamination from the former bermed area on site by ex situ soil vapor extraction; and (ii) monitoring of residual groundwater contamination.

WHEREAS, BorgWarner Inc., Xerox Corporation, and Atlantic Richfield Company (the "Respondents") entered into a Consent Decree with New York State dated December 28, 2000 ("Consent Decree") in which the parties agree to finance and/or implement the ROD;

WHEREAS, the Respondents have removed the source of the contamination at the Site in accordance with the ROD and will now monitor the shallow groundwater at and down gradient from the Site;

WHEREAS, Ms. Lowe wishes to cooperate with the NYSDEC and the Respondents conducting response actions at the Site;

WHEREAS, the parties hereto have agreed that it is appropriate and necessary to: (i) impose on the Property restrictions to the use of groundwater, and the ground which may contact the water, as covenants which will run with the land for the purpose of protecting human health and the environment by protecting in perpetuity the remedial actions which have been and will take place at the Property; and (ii) grant a permanent right of access to (Grantee(s)) over the Property for purposes of facilitating and monitoring the remedial actions; and

WHEREAS, Respondents shall pay to Ms. Lowe the amount of \$1.00 (one dollar) in consideration for this environmental easement, pursuant to a separate agreement that shall be made a part of this easement.

NOW, THEREFORE,

DECLARATIONS, RESTRICTIONS AND EASEMENT

1. GRANT: Grantor, in consideration of the foregoing premises, does hereby covenant and declare that the Property shall be subject to the restrictions on use set forth below, and does give, grant and convey to the Grantee and its assigns, with general warranties of title, (i) the perpetual right to enforce said use restrictions, and (ii) an environmental protection easement of the nature and character, and for the purposes hereafter set forth, with respect to the Property.

2. PURPOSE: The purpose of this instrument is to give the Grantee the right to continue to remediate past environmental contamination as required and reduce the risk of exposure to contaminants for human health and the environment.

3. RESTRICTIONS ON USE: The following covenants, conditions, and restrictions apply to the use of the portion of the Property shown on Figure A ("Restricted Area"), run with the land and are binding on the Grantor:

- (i) There shall be no consumptive, extractive, or other use of the shallow groundwater underlying the Restricted Area that could cause exposure of humans or animals to the shallow groundwater underlying the Restricted Area and no installation of new drinking water production wells, except as approved in writing by the NYSDEC;
- (ii) The following activities are prohibited in the Restricted Area: on-site excavation, land filling, mining, invasive construction, or drilling, except as approved in writing by the NYSDEC; and
- (iii) There shall be no tampering with, or removal of, the monitoring systems that remain on the Property as a result of implementation of any response action by NYSDEC, or any party acting as agent for NYSDEC, including the Grantees hereto.

4. MODIFICATIONS OF RESTRICTIONS: The above restrictions may be modified to be less restrictive, or terminated in whole or in part, by the Grantee. A writing is necessary to effectuate any change and must be recorded against the Property.

5. ENVIRONMENTAL PROTECTION EASEMENT: Grantor hereby grants to the Grantee an irrevocable, permanent and continuing right of access at all reasonable times to the Property. The purposes for such access are:

- (i) Implementing additional response actions if required by the NYSDEC, including placement, replacement, modification, operation and maintenance of the ground-

water monitoring system, or sampling of any type of media, including in animals found on the property, in soil, ground water, surface water, wastewater, or sediments;

- (ii) Verifying any data or information submitted to NYSDEC;
- (iii) Verifying that no action is being taken on the property in violation of the terms of this instrument or of any federal or state environmental laws or regulations;
- (iv) Monitoring response actions on the Site and conducting investigations relating to contamination on or near the Site, including, without limitation, sampling of air, water, sediments, soils, and specifically, without limitation, obtaining split or duplicate samples;
- (v) Conducting periodic review of the response action, including but not limited to, review required by applicable statutes and/or regulations; and
- (vi) Implementing additional or new response actions if the Grantee, in its sole discretion, determines (a) that such actions are necessary to protect the environment because either the original remedial action has proven to be ineffective or because new technology has been developed which will accomplish the purposes of the remedial action in a significantly more efficient or cost effective manner; and (b) that the additional or new response actions will not impose any significantly greater burden on the Property or unduly interfere with the then existing uses of the Property.

14. **RESERVED RIGHTS OF GRANTOR:** Grantor hereby reserves unto itself, its successors, and assigns, all rights and privileges in and to the use of the Property which are not incompatible with the restrictions, rights and easements granted herein.

15. **NO UNINTENDED LIMITATION:** Nothing in this document shall limit or otherwise affect NYSDEC's rights of entry and access provided by law or regulation

16. **NO PUBLIC ACCESS AND USE:** No right of access or use by the general public to any portion of the Property is conveyed by this instrument.

17. **NOTICE REQUIREMENT:** Grantor agrees to include in any instrument conveying any interest in any portion of the Property, including but not limited to deeds, leases and mortgages, a notice which is substantially in the following form:

NOTICE: THE INTEREST CONVEYED HEREBY IS SUBJECT TO THE EFFECT OF AN ENVIRONMENTAL PROTECTION EASEMENT AND DECLARATION OF RESTRICTIVE COVENANTS, DATED _____, 2004, RECORDED IN THE PUBLIC LAND RECORDS ON _____, 2004, IN BOOK _____, PAGE _____, IN FAVOR OF, AND ENFORCEABLE BY, BORGWARNER INC.

Within thirty (30) days of the date any such instrument of conveyance is filed with the Oswego County Recorder's Office, Grantor must provide Grantee with a certified true copy of said instrument and its recording reference.

19. ENFORCEMENT: The Grantee shall be entitled to enforce the terms of this instrument by resort to specific performance or legal process. All remedies available hereunder shall be in addition to any and all other remedies at law or in equity, including the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§ 9601 *et seq.* Enforcement of the terms of this instrument shall be at the discretion of the Grantee, and any forbearance, delay or omission to exercise its rights under this instrument in the event of a breach of any term of this instrument shall not be deemed to be a waiver by the Grantee of such term or of any subsequent breach of the same or any other term, or of any of the rights of the Grantee under this instrument.

20. DAMAGES: Grantee shall be entitled to recover damages for violations of the terms of this instrument, or for any injury to the remedial action, to the public or to the environment protected by this instrument.

21. WAIVER OF CERTAIN DEFENSES: Grantor hereby waives any defense of laches, estoppels, or prescription.

22. COVENANTS: Grantor hereby covenants to and with the Grantee and its assigns, that the Grantor is lawfully seized in fee simple of the Property, that the Grantor has a good and lawful right and power to sell and convey it, and that the Grantor will forever warrant and defend the title thereto and the quiet possession thereof.

23. NOTICES: Any notice, demand, request, consent, approval, or communication that either party desires or is required to give to the other shall be in writing and shall either be served personally or sent by first class mail, postage prepaid, addressed as follows:

To Grantor:

Dorothy J. Lowe
400 North Avenue
Syracuse, NY 13206

To Grantee:

Corporation Counsel
BorgWarner Inc.
200 S. Michigan Ave., 19th Floor
Chicago, IL 60604

and

Jane E. Montgomery
Schiff Hardin LLP
6600 Sears Tower
Chicago, IL 60606

24. MODIFICATIONS OR RELEASE OF RIGHTS, COVENANTS, CONDITIONS AND RESTRICTIONS: If information becomes available which demonstrates that the rights, covenants, conditions, and restrictions contained in this document may, in whole or in part, be modified or

released consistent with the public interest and the public purpose of protecting human health and the environment, then such rights may be modified or released by the execution of a proper instrument by the Grantor and Grantee and by the recording of this instrument in the Oswego County Records' Office.

25. General Provisions:

- (i) **controlling law:** The interpretation and performance of this instrument shall be governed by the laws of the State of New York.
- (ii) **Liberal construction:** Any general rule of construction to the contrary notwithstanding, this instrument shall be liberally construed in favor of the grant to effect the purpose of this instrument and the policy and purpose of the environmental laws of the state. If any provision of this instrument is found to be ambiguous, an interpretation consistent with the purpose of this instrument that would render the provision valid shall be favored over any interpretation that would render it invalid.
- (iii) **Severability:** If any provision of this instrument, or the application of it to any person or circumstance, is found to be invalid, the remainder of the provisions of this instrument, or the application of such provisions to persons or circumstances other than those to which it is found to be invalid, as the case may be, shall not be affected thereby.
- (iv) **Entire Agreement:** This instrument sets forth the entire agreement of the parties with respect to the rights and restrictions created hereby, and supersedes all prior discussions, negotiations, understandings, or agreements relating thereto, all of which are merged herein.
- (v) **No forfeiture:** Nothing contained herein will result in a forfeiture or reversion of Grantor's title in any respect.
- (vi) **Joint obligation:** If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.
- (vii) **Successors:** The covenants, terms, conditions, and restrictions of this instrument shall be binding upon, and inure to the benefit of, the parties hereto and their respective personal representative, heirs, successors, and assigns and shall continue as a servitude running in perpetuity with the Property. The rights of the Grantee and Grantor under this instrument are freely assignable, subject to the notice provisions hereof.
- (viii) **Termination of Rights and Obligations:** A party's rights and obligations under this instrument terminate upon transfer of the party's interest in the Easement or Property, except that liability for acts or omissions occurring prior to transfer shall survive transfer.

(ix) Counterparts: The parties may execute this instrument in two or more counterparts, which shall, in the aggregate, be signed by both parties; and each counterpart shall be deemed an original instrument as against any party who has signed it. In the event of any disparity between the counterparts produced, the recorded counterpart shall be controlling.

TO HAVE AND TO HOLD unto the Grantee and its assigns forever.

In Witness Whereof, the undersigned have caused this Environmental Protection Easement and Declaration of Restrictive Covenants to be executed.

Executed this 26 day of August 2004.

GRANTOR: Dorothy J. Lowe

Dorothy J. Lowe
(Signature)

Signed and acknowledged in the presence of:

(1) *Melissa C. Timmons*

(2) _____

MELISSA C. TIMMONS
Notary Public in the State of New York
Qualified in Onondaga County
Reg. No. 01TI6041684
My Commission Expires May 15, 2006

STATE OF NEW YORK)
) SS:
COUNTY OF Onondaga

Dorothy J. Lowe acknowledged the foregoing instrument before me this 26th day of August 2004.

Notary Public - State of New York

My commission expires: May 15, 2006



Joe Martens
Commissioner

MEMORANDUM

TO: Robert Schick, Assistant Director, Division of Environmental Remediation

FROM: Michael Cruden, Director, Remedial Bureau E, NYSDEC
Steven Bates, Director, Bureau of Environmental Exposure
Investigation, NYSDOH

SUBJECT: Soil Vapor Intrusion Evaluation Determination: **No Further Action**
Site No. 738013, Cole – Zaiser, Amboy (T), Oswego County

DATE:

NYSDEC Program Policy DER-13 states that vapor intrusion evaluations will be performed at all remedial sites with known or likely subsurface volatile organic chemical (VOC) contamination where remedial decisions were made prior to January 1, 2003. Using the procedures outlined in DER-13 and the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, the vapor intrusion exposure pathway was evaluated at the above-referenced site. This memorandum describes the results of the NYSDEC/NYSDOH evaluation. Based upon the information referenced below, current or potential vapor intrusion exposures associated with the site have been evaluated and the NYSDEC and NYSDOH have determined that:

No additional investigation or remedial measures are needed at this time to address the soil vapor intrusion exposure pathway.

Evaluation Summary

The vapor intrusion evaluation included a review of historical information (see attached), as well as discussions with NYSDEC and NYSDOH project managers and section chiefs/regional engineers responsible for the site. Upon review of the available information pertaining to the above-referenced site and the current land use, it has been determined that no additional investigation or remedial measures are needed at this time to address the soil vapor intrusion exposure pathway.



This determination is based primarily on the following site conditions (check all that apply):

No subsurface source of VOCs

Review of post-remediation confirmatory soil sampling and groundwater monitoring data demonstrates that no subsurface sources of VOCs are known to exist at the site.

VOCs not detected in soil vapor or measured below levels of concern

Recent soil vapor data collected as part of the vapor intrusion evaluation effort indicate that VOCs are either not currently present in the soil vapor, or are present at concentrations which do not require further action to address the vapor intrusion exposure pathway. (Note: In almost all cases, sub-slab soil gas data are needed to support a "below levels of concern" decision under this scenario. In unusual cases, where the only presence of low level VOCs is in isolated soil gas monitoring well samples, a "below levels of concern" decision will be considered.)

Clean zone of groundwater above the contaminated zone is precluding the migration of soil vapor

Groundwater data indicate that the site-related VOC contamination is limited to deeper portions of the aquifer and no VOC contamination is present in the shallow groundwater.

No current or potential exposures to contaminated soil vapors

The structures above the site-related groundwater and soil VOC contamination are vacant or have been demolished; there is no current route of exposure via vapor intrusion. In accordance with 6NYCRR Part 375, the Responsible Party must notify the Commissioner of DEC and DOH of any changes in use.

Exposures have been demonstrated to be occupational (or due to other indoor sources that are not attributable to vapor intrusion), rather than environmental

There is sufficient analytical data and site information to demonstrate that current exposures are occupational (or due to other indoor sources that are not attributable to vapor intrusion) and are not related to exposure to subsurface contaminants through the soil vapor intrusion pathway and that levels of VOCs in the sub-slab vapor do not indicate a need for actions to address the potential for future exposures.

Exposures have been demonstrated to be occupational (or due to other indoor sources that are not attributable to vapor intrusion), rather than environmental

There is sufficient analytical data and site information to demonstrate that current exposures are occupational (or due to other indoor sources that are not attributable to vapor intrusion) and are not related to exposure to subsurface contaminants through the soil vapor intrusion pathway. However, given sub-slab vapor data, the Responsible Party (NAME) must notify the Commissioner of DEC and DOH of any changes in use in accordance with 6NYCRR Part 375.

Summary Explanation

The site is located in the Town of Amboy, Oswego County, NY. Cole-Zaiser operated a small waste oil reclamation business on this property from 1973 to 1976. The business operated out of a small cinder block building (now vacant) that is located in a rural part of Oswego County.

Two surrounding parcels to the west and north are residential. The rest of the site is surrounded by undeveloped, wooded property.

The on-site structures are vacant or have been demolished. As for the adjacent off-site structures, there are no current routes of soil vapor intrusion exposure. In addition, the off-site monitoring wells are free of VOC contamination.

The source of contamination was remediated via ex-situ vacuum extraction in 2001 and 2002. This site is in the Site Maintenance phase of the project. Groundwater monitoring was performed annually until the Record of Decision (ROD) cleanup objectives set at drinking water standards were achieved. Attached are the post-excavation soil sample results and groundwater monitoring data.

In accordance with 6NYCRR Part 375, Borg-Warner must notify the Commissioner of NYSDEC and NYSDOH of any changes in use. There are executed deed restrictions in place for the use of this site property. Private use of the on-site groundwater is restricted until the site is delisted.

There is no public water supply in this area. The PRP successfully installed a new well for the residence north of the site. The Department tested the well and tap water of the residence west of the site. Both private wells sample results were non-detect for the contaminants of concern specified by ROD.

Enclosed is a map of the monitoring wells for the site. The well depths for MW-11 and MW-12 are both 14 feet. Three shallow wells (TMB-01, TMB-02 and TMB-03) are also located North and down gradient of the site. The well depths of TMB-01, TMB-02 and TMB-03 are 12.7 feet, 10.8 feet and 14.2 feet, respectively. TMB-02 and TMB-03, are hand dug wells, have a three-foot diameter, and have precast concrete covers. These two wells were primarily used for lawn sprinkling, but are now out of service. TMB-01 was the original private drinking water supply well for the residence North of the site and was properly abandoned after the PRP installed another drinking water supply well. TMB-04 is 153-feet deep and is an active private water supply well.

Based upon the information referenced above, current or potential vapor intrusion exposures associated with the site have been evaluated and the NYSDEC and the NYSDOH have determined that no further action is necessary for this SVI legacy site. After this memorandum is approved by NYSDOH, the Department will start the delisting reclassification process for the site.

Concurrence/Signatures

REMEDIAL BUREAU DIRECTOR (or DSHM Bureau Director as appropriate)

Robert Cozzy
Director, Remedial Bureau B
New York State Department of Environmental Conservation

Date _____

DEPARTMENT OF HEALTH

Steven M. Bates
Director, Bureau of Environmental Exposure Investigation
New York State Department of Health

Date _____

ecc: D. Desnoyers
D. Radtke
E. Hausamann
J. Grathwol
H. Warner
K. Anders, DOH

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau E, 12th Floor
625 Broadway, Albany, New York 12233-7017
Phone: (518) 402-9814 • FAX: (518) 402-9819
Website: www.dec.ny.gov



Alexander B. Grannis
Commissioner

MEMORANDUM

TO: Sal Ervolina, Assistant Director, Division of Environmental Remediation

FROM: Robert C. Knizek, Director, Remedial Bureau E, NYSDEC *Rob*
Steven Bates, Assistant Director, Bureau of Environmental Exposure *SB*
Investigation, NYSDOH *Ref*

SUBJECT: Soil Vapor Intrusion Evaluation Determination: **No Further Action**
Site No. 7-38-013, Cole-Zaiser
Amboy (T), Oswego County

DATE: APR 29 2009

NYSDEC Program Policy DER-13 states that vapor intrusion evaluations will be performed at all remedial sites with known or likely subsurface volatile organic chemical (VOC) contamination where remedial decisions were made prior to January 1, 2003. Using the procedures outlined in DER-13 and the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, the vapor intrusion exposure pathway was evaluated at the above-referenced site. This memorandum describes the results of the NYSDEC/NYSDOH evaluation. Based upon the information referenced below, current or potential vapor intrusion exposures associated with the site have been evaluated and the NYSDEC and NYSDOH have determined that:

No additional investigation or remedial measures are needed at this time to address the soil vapor intrusion exposure pathway.

Evaluation Summary

The vapor intrusion evaluation included a review of historical information from the Remedial Investigation (copy attached), as well as discussions with NYSDEC and NYSDOH project managers and section chiefs/regional engineers responsible for the site. Upon review of the available information pertaining to the above-referenced site and the current land use, it has been determined that no additional investigation or remedial measures are needed at this time to address the soil vapor intrusion exposure pathway.

This determination is based primarily on the following site conditions (check all that apply):

- No subsurface source of VOCs***
Review of post-remediation confirmatory soil sampling and groundwater monitoring data demonstrates that no subsurface sources of VOCs are known to exist at the site.
- VOCs not detected in soil vapor or measured below levels of concern***
Recent soil vapor data collected as part of the vapor intrusion evaluation effort indicate that VOCs are either not currently present in the soil vapor, or are present at concentrations which do not require further action to address the vapor intrusion exposure pathway. (Note: In almost all cases, sub-slab soil gas data are needed to support a "below levels of concern" decision under this scenario. In unusual cases, where the only presence of low level VOCs is in isolated soil gas monitoring well samples, a "below levels of concern" decision will be considered.)
- Clean zone of groundwater above the contaminated zone is precluding the migration of soil vapor***
Groundwater data indicate that the site-related VOC contamination is limited to deeper portions of the aquifer and no VOC contamination is present in the shallow groundwater.
- No current or potential exposures to contaminated soil vapors***

The structures above the site-related groundwater and soil VOC contamination are vacant or have been demolished; there is no current route of exposure via vapor intrusion. In accordance with 6NYCRR Part 375, the Responsible Party must notify the Commissioner of DEC and DOH of any changes in use. There are executed deed restrictions in place for the use of this site property.

- Exposures have been demonstrated to be occupational (or due to other indoor sources that are not attributable to vapor intrusion), rather than environmental***
There is sufficient analytical data and site information to demonstrate that current exposures are occupational (or due to other indoor sources that are not attributable to vapor intrusion) and are not related to exposure to subsurface contaminants through the soil vapor intrusion pathway and that levels of VOCs in the sub-slab vapor do not indicate a need for actions to address the potential for future exposures.
- Exposures have been demonstrated to be occupational (or due to other indoor sources that are not attributable to vapor intrusion), rather than environmental***
There is sufficient analytical data and site information to demonstrate that current exposures are occupational (or due to other indoor sources that are not attributable to vapor intrusion) and are not related to exposure to subsurface contaminants through the soil vapor intrusion pathway. However, given sub-slab vapor data, the Responsible Party (NAME) must notify the Commissioner of DEC and DOH of any changes in use in accordance with 6NYCRR Part 375.

Summary Explanation

The site is located in the Town of Amboy, Oswego County, NY. Cole-Zaiser operated a small waste oil reclamation business on this property from 1973 to 1976. The business operated out of a small cinder block building (now vacant) that is located in a rural part of Oswego County.

Two surrounding parcels to the west and north are residential. The rest of the site is surrounded by undeveloped, wooded property.

The on-site structures above the site-related groundwater and soil VOC contamination are vacant or have been demolished. As for the adjacent off-site structures, there are no current routes of soil vapor intrusion exposure.

The source of contamination was remediated via ex-situ vacuum extraction in 2001 and 2002. This site is in the Site Maintenance phase of the project. Groundwater monitoring is performed annually. Attached are the post-excavation soil sample results and groundwater monitoring data.

In accordance with 6NYCRR Part 375, Borg-Warner must notify the Commissioner of DEC and DOH of any changes in use. There are executed deed restrictions in place for the use of this site property. Private use of the on-site groundwater is restricted until all monitoring wells reaching the Record of Decision (ROD) objectives.

There is no public water supply in this area. The PRP successfully installed a new well for the residence north of the site. The Department tested the well and tap water of the residence west of the site. Both private wells sample results were non-detect for the contaminants of concern specified by ROD.

Summary Explanation (continued)

Enclosed is a map of the monitoring wells for the site. The well depths for MW-11 and MW-12 are both 14 feet. Three shallow wells (TMB-01, TMB-02 and TMB-03) are also located North of the site. The well depths of TMB-01, TMB-02 and TMB-03 are 12.7 feet, 10.8 feet and 14.2 feet, respectively.

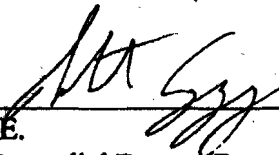
TMB-02 and TMB-03, are hand dug wells, have a three-foot diameter, and have precast concrete covers. These two wells were primarily used for lawn sprinkling, but are now out of service.

TMB-01 was the original private drinking water supply well for the residence North of the site and was properly abandoned after the PRP installed another drinking water supply well. This active drinking water supply well is 153-feet deep and is labeled as TMB-04 on the enclosed map.

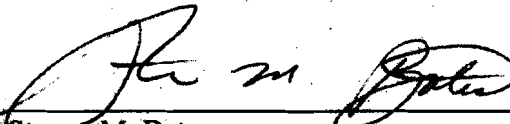
Based upon the information referenced above, current or potential vapor intrusion exposures associated with the site have been evaluated and the NYSDEC and NYSDOH have determined that no further action is necessary for this SVI legacy site.

Concurrence/Signatures

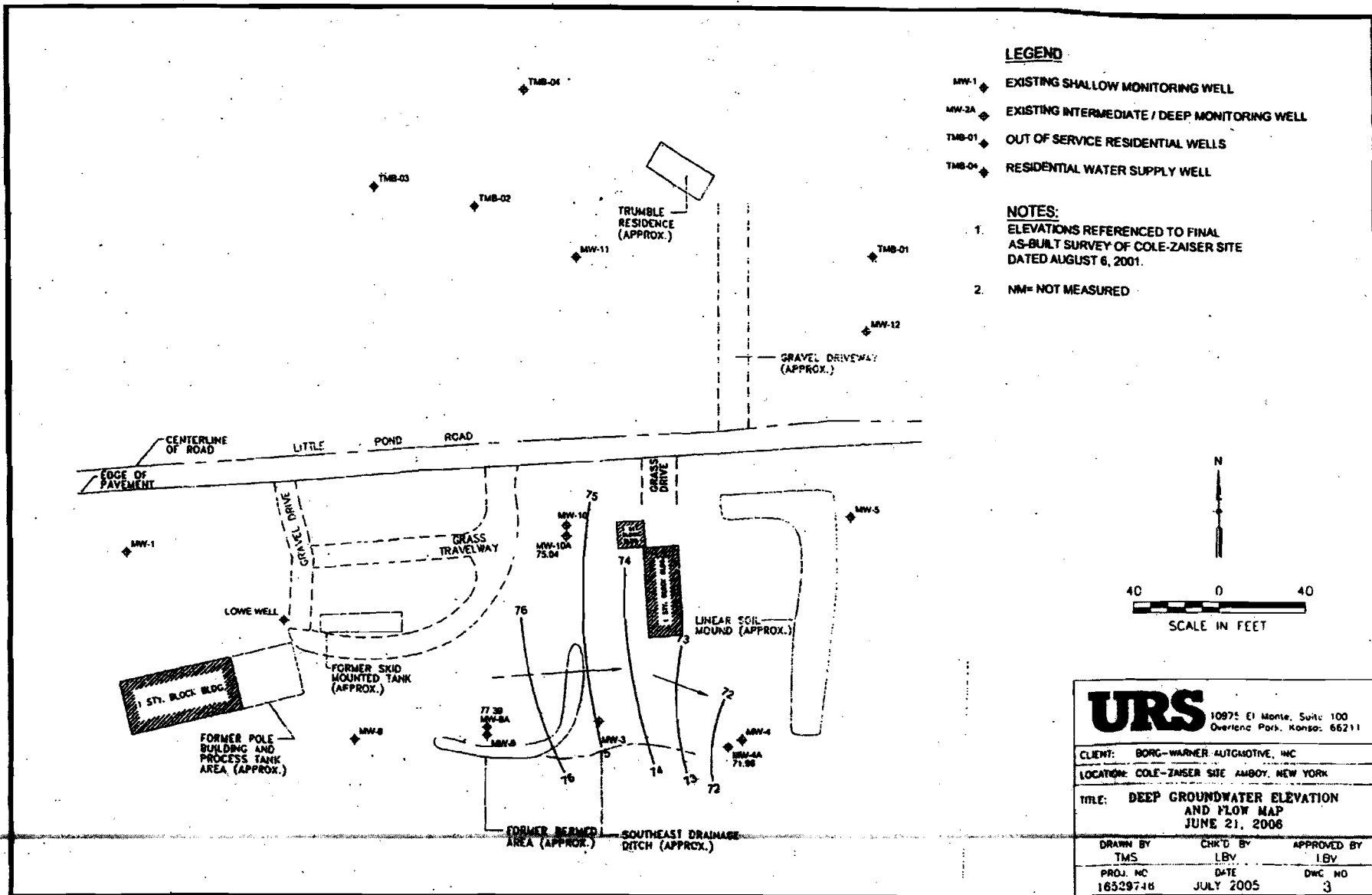
REMEDIATION BUREAU DIRECTOR (OR DSHM BUREAU DIRECTOR AS APPROPRIATE)


Date 4/15/09
Robert Cozzy, P. E.
Acting Director, Remedial Bureau B
New York State Department of Environmental Conservation

DEPARTMENT OF HEALTH


Date 4/24/09
Steven M. Bates
Assistant Director, Bureau of Environmental Exposure Investigation
New York State Department of Health

ecc: M. J. Peachey, DEC Region 7
G. Townsend, Region 7 DER
K. Anders, DOH
R. Jones, DOH
W. Wertz
E. Hausmann
eDocs
Oswego County Health Department



URS 10975 El Monte, Suite 100
Overland Park, Kansas 66211

CLIENT: BORG-WARNER AUTOMOTIVE, INC

LOCATION: COLE-ZAISER SITE AMBOY, NEW YORK

TITLE: DEEP GROUNDWATER ELEVATION AND FLOW MAP
JUNE 21, 2006

| | | |
|----------------------|-------------------|--------------------|
| DRAWN BY TMS | CHK'D BY LBV | APPROVED BY LBV |
| PROJ. NO 16329748 | DATE JULY 2005 | DWG NO 3 |

OSWEGO COUNTY CLERK'S OFFICE
RECEIVED

OCT 25 PM 2:58

**ENVIRONMENTAL PROTECTION EASEMENT AND
DECLARATION OF RESTRICTIVE COVENANTS**

This Environmental Protection Easement and Declaration of Restrictive Covenants is made as of this 26th day of August, 2004, by and between Dorothy J. Lowe ("Grantor"), having an address at 400 North Avenue, Syracuse, NY 13206 and BorgWarner Inc., including any successor-in-interest ("Grantee").

WHEREAS, Dorothy J. Lowe is the owner of a parcel of land (the "Property") located in rural Amboy, County of Oswego, New York, and being more fully described on Attachment A which is incorporated herein.

WHEREAS, the tax parcel identification number for the Property is 195.00-02-16.

WHEREAS, the property was formerly owned and operated by Cole-Zaiser Inc. from about 1973 to 1976 and operated as a waste oil treatment facility ("Cole-Zaiser Site" or "the Site"); the Site is listed as an inactive hazardous waste site as that term is defined a New York State Environmental Conservation Law 27-1301(2); and the site is listed on New York's Registry as Site Number 738013.

WHEREAS, in a Record of Decision issued after a period of public comment on December 9, 1998 (the "ROD"), the New York State Department of Environmental Conservation (NYSDEC) selected a remedial action for the Site, which provided, in part, for the following remedial actions:

- (i) removal of the source of contamination from the former bermed area on site by ex situ soil vapor extraction; and (ii) monitoring of residual groundwater contamination.

WHEREAS, BorgWarner Inc., Xerox Corporation, and Atlantic Richfield Company (the "Respondents") entered into a Consent Decree with New York State dated December 28, 2000 ("Consent Decree") in which the parties agree to finance and/or implement the ROD;

WHEREAS, the Respondents have removed the source of the contamination at the Site in accordance with the ROD and will now monitor the shallow groundwater at and down gradient from the Site;

WHEREAS, Ms. Lowe wishes to cooperate with the NYSDEC and the Respondents conducting response actions at the Site;

WHEREAS, the parties hereto have agreed that it is appropriate and necessary to: (i) impose on the Property restrictions to the use of groundwater, and the ground which may contact the water, as covenants which will run with the land for the purpose of protecting human health and the environment by protecting in perpetuity the remedial actions which have been and will take place at the Property; and (ii) grant a permanent right of access to (Grantee(s)) over the Property for purposes of facilitating and monitoring the remedial actions; and

WHEREAS, Respondents shall pay to Ms. Lowe the amount of \$1.00 (one dollar) in consideration for this environmental easement, pursuant to a separate agreement that shall be made a part of this easement.

NOW, THEREFORE,

DECLARATIONS, RESTRICTIONS AND EASEMENT

1. GRANT: Grantor, in consideration of the foregoing premises, does hereby covenant and declare that the Property shall be subject to the restrictions on use set forth below, and does give, grant and convey to the Grantee and its assigns, with general warranties of title, (i) the perpetual right to enforce said use restrictions, and (ii) an environmental protection easement of the nature and character, and for the purposes hereafter set forth, with respect to the Property.

2. PURPOSE: The purpose of this instrument is to give the Grantee the right to continue to remediate past environmental contamination as required and reduce the risk of exposure to contaminants for human health and the environment.

3. RESTRICTIONS ON USE: The following covenants, conditions, and restrictions apply to the use of the portion of the Property shown on Figure A ("Restricted Area"), run with the land and are binding on the Grantor:

- (i) There shall be no consumptive, extractive, or other use of the shallow groundwater underlying the Restricted Area that could cause exposure of humans or animals to the shallow groundwater underlying the Restricted Area and no installation of new drinking water production wells, except as approved in writing by the NYSDEC;
- (ii) The following activities are prohibited in the Restricted Area: on-site excavation, land filling, mining, invasive construction, or drilling, except as approved in writing by the NYSDEC; and
- (iii) There shall be no tampering with, or removal of, the monitoring systems that remain on the Property as a result of implementation of any response action by NYSDEC, or any party acting as agent for NYSDEC, including the Grantees hereto.

4. MODIFICATIONS OF RESTRICTIONS: The above restrictions may be modified to be less restrictive, or terminated in whole or in part, by the Grantee. A writing is necessary to effectuate any change and must be recorded against the Property.

5. ENVIRONMENTAL PROTECTION EASEMENT: Grantor hereby grants to the Grantee an irrevocable, permanent and continuing right of access at all reasonable times to the Property. The purposes for such access are:

- (i) Implementing additional response actions if required by the NYSDEC, including placement, replacement, modification, operation and maintenance of the ground-

water monitoring system, or sampling of any type of media, including in animals found on the property, in soil, ground water, surface water, wastewater, or sediments;

- (ii) Verifying any data or information submitted to NYSDEC;
- (iii) Verifying that no action is being taken on the property in violation of the terms of this instrument or of any federal or state environmental laws or regulations;
- (iv) Monitoring response actions on the Site and conducting investigations relating to contamination on or near the Site, including, without limitation, sampling of air, water, sediments, soils, and specifically, without limitation, obtaining split or duplicate samples;
- (v) Conducting periodic review of the response action, including but not limited to, review required by applicable statutes and/or regulations; and
- (vi) Implementing additional or new response actions if the Grantee, in its sole discretion, determines (a) that such actions are necessary to protect the environment because either the original remedial action has proven to be ineffective or because new technology has been developed which will accomplish the purposes of the remedial action in a significantly more efficient or cost effective manner; and (b) that the additional or new response actions will not impose any significantly greater burden on the Property or unduly interfere with the then existing uses of the Property.

14. **RESERVED RIGHTS OF GRANTOR:** Grantor hereby reserves unto itself, its successors, and assigns, all rights and privileges in and to the use of the Property which are not incompatible with the restrictions, rights and easements granted herein.

15. **NO UNINTENDED LIMITATION:** Nothing in this document shall limit or otherwise affect NYSDEC's rights of entry and access provided by law or regulation

16. **NO PUBLIC ACCESS AND USE:** No right of access or use by the general public to any portion of the Property is conveyed by this instrument.

17. **NOTICE REQUIREMENT:** Grantor agrees to include in any instrument conveying any interest in any portion of the Property, including but not limited to deeds, leases and mortgages, a notice which is substantially in the following form:

NOTICE: THE INTEREST CONVEYED HEREBY IS SUBJECT TO THE EFFECT OF AN ENVIRONMENTAL PROTECTION EASEMENT AND DECLARATION OF RESTRICTIVE COVENANTS, DATED _____, 2004, RECORDED IN THE PUBLIC LAND RECORDS ON _____, 2004, IN BOOK _____, PAGE _____, IN FAVOR OF, AND ENFORCEABLE BY, BORGWARNER INC.

Within thirty (30) days of the date any such instrument of conveyance is filed with the Oswego County Recorder's Office, Grantor must provide Grantee with a certified true copy of said instrument and its recording reference.

19. ENFORCEMENT: The Grantee shall be entitled to enforce the terms of this instrument by resort to specific performance or legal process. All remedies available hereunder shall be in addition to any and all other remedies at law or in equity, including the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§ 9601 *et seq.* Enforcement of the terms of this instrument shall be at the discretion of the Grantee, and any forbearance, delay or omission to exercise its rights under this instrument in the event of a breach of any term of this instrument shall not be deemed to be a waiver by the Grantee of such term or of any subsequent breach of the same or any other term, or of any of the rights of the Grantee under this instrument.

20. DAMAGES: Grantee shall be entitled to recover damages for violations of the terms of this instrument, or for any injury to the remedial action, to the public or to the environment protected by this instrument.

21. WAIVER OF CERTAIN DEFENSES: Grantor hereby waives any defense of laches, estoppels, or prescription.

22. COVENANTS: Grantor hereby covenants to and with the Grantee and its assigns, that the Grantor is lawfully seized in fee simple of the Property, that the Grantor has a good and lawful right and power to sell and convey it, and that the Grantor will forever warrant and defend the title thereto and the quiet possession thereof.

23. NOTICES: Any notice, demand, request, consent, approval, or communication that either party desires or is required to give to the other shall be in writing and shall either be served personally or sent by first class mail, postage prepaid, addressed as follows:

To Grantor:

Dorothy J. Lowe
400 North Avenue
Syracuse, NY 13206

To Grantee:

Corporation Counsel
BorgWarner Inc.
200 S. Michigan Ave., 19th Floor
Chicago, IL 60604

and

Jane E. Montgomery
Schiff Hardin LLP
6600 Sears Tower
Chicago, IL 60606

24. MODIFICATIONS OR RELEASE OF RIGHTS, COVENANTS, CONDITIONS AND RESTRICTIONS: If information becomes available which demonstrates that the rights, covenants, conditions, and restrictions contained in this document may, in whole or in part, be modified or

released consistent with the public interest and the public purpose of protecting human health and the environment, then such rights may be modified or released by the execution of a proper instrument by the Grantor and Grantee and by the recording of this instrument in the Oswego County Records' Office.

25. General Provisions:

- (i) **controlling law:** The interpretation and performance of this instrument shall be governed by the laws of the State of New York.
- (ii) **Liberal construction:** Any general rule of construction to the contrary notwithstanding, this instrument shall be liberally construed in favor of the grant to effect the purpose of this instrument and the policy and purpose of the environmental laws of the state. If any provision of this instrument is found to be ambiguous, an interpretation consistent with the purpose of this instrument that would render the provision valid shall be favored over any interpretation that would render it invalid.
- (iii) **Severability:** If any provision of this instrument, or the application of it to any person or circumstance, is found to be invalid, the remainder of the provisions of this instrument, or the application of such provisions to persons or circumstances other than those to which it is found to be invalid, as the case may be, shall not be affected thereby.
- (iv) **Entire Agreement:** This instrument sets forth the entire agreement of the parties with respect to the rights and restrictions created hereby, and supersedes all prior discussions, negotiations, understandings, or agreements relating thereto, all of which are merged herein.
- (v) **No forfeiture:** Nothing contained herein will result in a forfeiture or reversion of Grantor's title in any respect.
- (vi) **Joint obligation:** If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.
- (vii) **Successors:** The covenants, terms, conditions, and restrictions of this instrument shall be binding upon, and inure to the benefit of, the parties hereto and their respective personal representative, heirs, successors, and assigns and shall continue as a servitude running in perpetuity with the Property. The rights of the Grantee and Grantor under this instrument are freely assignable, subject to the notice provisions hereof.
- (viii) **Termination of Rights and Obligations:** A party's rights and obligations under this instrument terminate upon transfer of the party's interest in the Easement or Property, except that liability for acts or omissions occurring prior to transfer shall survive transfer.

- (ix) Counterparts: The parties may execute this instrument in two or more counterparts, which shall, in the aggregate, be signed by both parties; and each counterpart shall be deemed an original instrument as against any party who has signed it. In the event of any disparity between the counterparts produced, the recorded counterpart shall be controlling.

TO HAVE AND TO HOLD unto the Grantee and its assigns forever.

In Witness Whereof, the undersigned have caused this Environmental Protection Easement and Declaration of Restrictive Covenants to be executed.

Executed this 26 day of August 2004.

GRANTOR: Dorothy J. Lowe

Dorothy J. Lowe
(Signature)

Signed and acknowledged in the presence of:

(1) *Melissa C. Timmons*

(2) _____

MELISSA C. TIMMONS
Notary Public in the State of New York
Qualified in Onondaga County
Reg. No. 01T16041684
My Commission Expires May 15, 20 06

STATE OF NEW YORK)
) SS:
COUNTY OF Onondaga

Dorothy J. Lowe acknowledged the foregoing instrument before me this 26th day of August 2004.

Notary Public - State of New York

My commission expires: May 15, 2006