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Clayton GROUP SERVICES

VIA OVERNIGHT DELIVERY

April 8, 2005

Mr. Kevin Turner
USEPA REGION V
Emergency Response Branch
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Marion, IL 62959

Mr. Steven Faryan
USEPA REGION V
Emergency Response Branch
HSE-5J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Clayton Project No. 15-03095.15-004

Subject: ILR000128249 – Madison County – LPC 1190505040
The Hartford Area Hydrocarbon Plume Site / Hartford, Illinois
Sentinel Wells Quarterly Monitoring Report – January 2005

Dear Messrs. Turner and Faryan:

Clayton Group Services, Inc., on behalf of the Hartford Working Group (HWG), and in accordance with paragraph 47 of the Administrative Order on Consent (AOC), is submitting the Sentinel Wells Quarterly Monitoring Report. This report presents the results of the fourth quarterly groundwater monitoring activities conducted in Hartford during the week of January 17, 2005.

This sampling event completes the AOC requirement of quarterly monitoring of the sentinel wells for one year. A portion of paragraph 47 states that … "After the first year, a groundwater monitoring program shall be established consistent with the results of the dissolved phase groundwater investigation." Given that the dissolved phase groundwater investigation is still ongoing, the HWG proposes to continue the quarterly monitoring of the five (5) sentinel wells (HMW-25 through HMW-29). However, we are requesting that groundwater samples collected from the sentinel wells only be analyzed for benzene, ethylbenzene, toluene, total xylenes (BETX) and the "Skinner List" metals.

A review of the groundwater analytical results shows that the sentinel wells have not been impacted by the identified separate light non-aqueous phase liquid (LNAPL) or dissolved phase plume underlying the northern portion of Hartford. This evaluation is based on the absence of concentrations of petroleum hydrocarbon constituents above applicable Groundwater Quality Standards for Class I Groundwater, with the exception of the occasional presence of total lead in 2004.

15-03095.10ca082 / MMN

The identification of occasional lead exceedances in the sentinel wells is not considered an indication of impact from the LNAPL plume due to the sporadic nature and location of the occurrences in light of the long-term existence of the LNAPL plume. We are currently researching available background groundwater quality data in the general area of Hartford in regards to lead. Background data is anticipated to reflect both natural and anthropogenic influences. Therefore, we feel that the continued quarterly monitoring of the sentinel wells for BETX and metals (the more mobile constituents of petroleum hydrocarbons) will continue to provide for an early warning system should contaminants from the separate phase LNAPL or dissolved phase plume begin to migrate towards the municipal water supply wells.

The next quarterly sampling event is scheduled to be conducted during the week of April 11, 2005. Groundwater samples collected from the sentinel wells during this sampling event will be analyzed for the entire Skinner List in accordance with the Sentinel Wells Work Plan, dated October 16, 2003, and approved by the USEPA on November 21, 2003. We will not reduce the monitoring to BETX and metals until the Agencies have had a chance to review and approve this request.

Please contact me with any questions.

Sincerely,

Monte M. Nienkerk

Monte M. Nienkerk, P.G.
Senior Project Manager
Environmental Services

Encl: Sentinel Wells Quarterly Monitoring Report – January 2005

cc: Hartford Working Group
Robert Egan (USEPA, Region 5 – 1 copy)
Tom Binz (TT EMI / USEPA – 4 copies)
Robert Howe (TT EMI / USEPA – 1 copy)
Jim Moore (IEPA, Springfield – 3 copies)
Chris Cahnovsky (IEPA, Collinsville – 2 copies)
Dave Webb (Illinois DPH – 1 copy)

Sentinel Wells
Quarterly Monitoring Report
January 2005

1190505040 -- Madison County -- ILR000128249

The Hartford Area Hydrocarbon Plume Site
Hartford, Illinois

Prepared for:

The Hartford Working Group
Hartford, Illinois

Clayton Project Number 15-03095.15-004
April 8, 2005

Clayton Group Services, Inc.
3140 Finley Road
Downers Grove, Illinois 60515
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1.0 INTRODUCTION

Clayton Group Services, Inc., on behalf of the Hartford Working Group (HWG), has prepared this quarterly monitoring report for the five sentinel wells located within Hartford, Illinois (Hartford) (Figure 1). The HWG comprises the Atlantic Richfield Company (Atlantic Richfield), The Premcor Refining Group Inc. (Premcor), and Shell Oil Products US (Shell). The five sentinel wells (HMW-25 through HMW-29), for which this report has been prepared, were installed to serve as "sentinels" for monitoring of the possible encroachment of the identified Light Non-Aqueous Phase Liquid (LNAPL) hydrocarbon separate phase and dissolved phase plumes upon the Hartford Well Head Protection Area (WHPA) (McGuire et al. 2001). The separate and dissolved phase plumes are located within the northern portion of Hartford. The WHPA is the surface area near the two active Hartford municipal water supply wells that may provide recharge to the aquifer over a 5-year period. The sentinel wells were placed at a distance that represents an approximate 2-year travel time to the WHPA boundary (Clayton 2003). Figure 2 shows the location of the sentinel wells, the Hartford municipal water supply wells, and the WHPA.

The monitoring and reporting work was done in accordance with the monitoring program developed under Paragraph 47 of the Administrative Order on Consent (AOC) with the U.S. Environmental Protection Agency (USEPA) in the Matter of The Hartford Area Hydrocarbon Plume Site (Docket No. R7003-5-04-001) (USEPA undated). Paragraph 47 of the AOC requires that the five sentinel wells be sampled quarterly for one year. After one year, a groundwater monitoring program is to be established consistent with the results of the dissolved phase groundwater investigation. Paragraph 47 of the AOC also requires the work to be completed in accordance with the Sentinel Wells Work Plan, approved by the USEPA on November 21, 2003 (Clayton 2003). Quarterly monitoring of

the sentinel wells commenced in April 2004. Subsequent quarterly monitoring was performed in July and October 2004, and in January 2005.

This report presents the results of the January 2005 quarterly groundwater monitoring activities and included a comprehensive well gauging event in Hartford. The January 2005 well gauging, with the cooperation of Shell and Premcor, was extended to include the Shell Rand Avenue site, the Shell Tannery Property, and the Premcor property. In addition, previous historic data has been included in this report, where available and applicable. A discussion of the comprehensive well gauging, groundwater sample collection, groundwater analytical results, and conclusions are presented in the following Sections 2.0, 3.0, 4.0, and 5.0, respectively. This sampling event completes the AOC requirement of quarterly monitoring of the sentinel wells for one year; and therefore, recommendations regarding a groundwater monitoring program for the sentinel wells and future activities are presented in Section 6.0. References are presented in Section 7.0.

2.0 WELL GAUGING

Clayton completed a comprehensive well gauging event in Hartford during the week of January 17, 2005. This event was conducted at all of the accessible monitoring wells in Hartford, at the Shell Rand Avenue site and the Shell Tannery Property (Shell SP- and P-series wells) and at the Premcor property, which could be located by Clayton. The Shell Rand Avenue and Tannery Property sites are located immediately to the northeast and east of the north half of Hartford, while the Premcor facility is immediately east of the central portion of Hartford. Mississippi River stage data is measured at the Mel Price Tailwater (TW) Alton, Illinois gauging station (US Army Corps of Engineers, 2004).

The gauging event was conducted to determine groundwater depths and apparent LNAPL thickness (if present) in order to determine groundwater flow directions and delineate the

current horizontal extent of the mobile LNAPL. In addition, the sentinel wells were inspected and evaluated with respect to their continued suitability for both gauging and groundwater monitoring. The sentinel wells were determined to be in satisfactory condition for continued use in the monitoring program. The results of the monitoring well inspections are included in Appendix A. Clayton (2004a) presented an evaluation of wells appropriate for gauging each of the strata.

The hydrogeology in the vicinity of north Hartford consists of four hydrostratigraphic units identified in descending order as the North Olive Stratum, the Rand Stratum, and the EPA Stratum, all of which overlie the Main Sand (Clayton 2004b). The sentinel wells are located in the Main Sand as are the Hartford municipal water supply wells. The Shell wells provided additional gauging and groundwater flow data beyond the Hartford boundaries for the Rand, the EPA, and the Main Sand Strata. Likewise, the Premcor wells provided data for the North Olive, the EPA, and the Main Sand Strata beyond Hartford. The Shell and Premcor wells' survey data has been adjusted and resurveyed, respectively, to the United States Geological Survey (USGS) datum used for the Hartford wells.

Groundwater and LNAPL gauging data in Hartford from January 2005 are summarized in Table 1. Monitoring well gauging data for the Shell wells and the wells on the Premcor facility are summarized in Tables 2 and 3, respectively. Groundwater flow maps were constructed for the January 2005 gauging event for three of the four identified hydrostratigraphic units (Main Sand, EPA Stratum, and Rand Stratum). An elevation map was created for the North Olive Stratum that simply presents the groundwater elevation data, as the majority of the wells were dry. The flow and elevation maps are presented in Figures 3 through 6, respectively. The gauged extent of the LNAPL plume within the Main Sand in Hartford is presented in Figure 7. The interpreted LNAPL plume extents within the EPA, Rand and North Olive Strata are shown in Figures 8

through 10, respectively. A discussion of the groundwater and LNAPL gauging data is presented below.

The groundwater elevation data for the Main Sand, obtained in January 2005, indicates the flow direction is northerly with varying easterly and westerly components (Figure 3). This overall northerly groundwater flow direction is consistent with historical interpretations. The natural movement of groundwater has been altered in the Hartford vicinity for the past 70 years due to large-scale industrial water pumpage (Clayton 2004c). Known cones of depression flank the village to the north (BP Amoco), northeast (ConocoPhillips) and east (Premcor). In general, the net effect of this drawdown has resulted in local groundwater movement in the Main Sand Aquifer to the north. In January 2005, a cone of depression was observed in the southwestern portion of the Premcor facility, north of Hawthorne Street. The cone of depression is caused by the pumping of production well # 2 (P-2) on the Premcor facility. The influence of pumping extends over the majority of the western-half of Premcor. A resulting stagnation zone extends north from P-2 and northerly over the remainder of the facility into the Shell Tannery Property. The cone of depression around the P-2 area was identified in January 2005, primarily due to previous gauging events having a limited number of wells present around the P-2 area. The installation of additional wells in the Fall 2004, in particular around the production wells area, has provided a more complete picture of the groundwater flow in this area.

The groundwater elevation data for the EPA Stratum, obtained in January 2005, identified a hinge line (Figure 4). The hinge trended along a northwest/southeast axis in January 2005. Groundwater elevation data north of the hinge indicated flow direction to the north/northeast in January 2005, while data south of the hinge indicated a general southerly flow direction. Groundwater near the divide was indicated as flowing southwesterly towards Hartford, while the flow direction in the southern portion of the

EPA Stratum on the Tannery Property was identified as southerly towards the Premcor Facility.

The southerly flow direction in the EPA Stratum towards Premcor was identified in January 2005, primarily due to previous gauging events having a limited number of wells in the EPA Stratum within the Premcor Facility. The installation of additional wells in the EPA Stratum, in Fall 2004, has provided a more complete picture on the groundwater flow direction in this area. The pumping of P-2 at the Premcor facility causes the southerly flow of groundwater within the EPA Stratum in this area.

The groundwater elevation data for the Rand Stratum, obtained in January 2005, also revealed a similar northwest/southeast hinge as in the EPA Stratum (Figure 5). Groundwater to the south of the hinge was identified as flowing in a southwesterly direction while to the north of the divide, the identified flow direction was northeast.

The Mississippi River did not appear to exert a significant influence on groundwater flow in the Main, the EPA or the Rand Strata in January 2005.

Quarterly groundwater elevation data for the North Olive Stratum was obtained during January 2005 (Figure 6). Wells were installed in the North Olive Stratum in Hartford during Summer 2004, and at Premcor in Fall 2004. Many of these wells have been dry during the quarterly groundwater gauging events. The points that contained water were generally scattered throughout with only small-localized areas that contained over one linear foot of water in the well. Current groundwater elevation data for the North Olive Stratum indicates there is not a continuous presence of groundwater throughout the stratum. The measured groundwater in the North Olive Stratum wells is considered to represent localized areas of perched water that are potentially seasonal or more ephemeral.

3.0 GROUNDWATER SAMPLE COLLECTION

Groundwater sample collection activities for the five sentinel monitoring wells were conducted on January 21, 2005. Each well was purged and sampled using a low-flow Micropurge pump that was decontaminated using a detergent wash and distilled water rinse prior to use at each well location. Upon collection using the low-flow sampling technique (Clayton 2004c), groundwater samples were placed in laboratory-supplied, pre-preserved (if appropriate) containers. After collection, samples were immediately labeled, placed in a cooler containing ice, and were delivered under chain-of-custody procedures to Teklab, Inc. (Teklab) of Collinsville, Illinois for laboratory analysis. A detailed discussion of the sample collection activities is presented below.

The low-flow sampling technique resulted in the removal of approximately one gallon of water at each sentinel well prior to sample collection. The groundwater removed from each well was temporarily stored in a double-walled tank located in a secure area within Hartford before removal by a waste disposal contractor.

Water quality parameters of temperature, pH, oxidation reduction potential, dissolved oxygen, turbidity, and specific conductivity were electronically measured and recorded using a calibrated Mini-Troll with an associated Pocket PC (in addition to the field logbook) during purging and prior to sample collection. The downloaded data logger indicator parameter records for the January 2005 event are included in Appendix B.

Quarterly groundwater samples were analyzed for the "Skinner List" as identified in the AOC. Specifically, the samples were analyzed for the following Skinner List parameters: volatile organic compounds (VOCs) (including methyl tertiary butyl ether [MTBE] and 1,2-dibromoethane [EDB]); 1,4-dioxane; semi-volatile organic compounds (SVOCs); total metals; and total cyanide. In addition, groundwater samples were also analyzed for

"General Chemistry" parameters such as alkalinity, chemical oxygen demand, chloride, hardness, pH, sulfate, total dissolved solids, total sulfide, and total suspended solids, and for dissolved metals. The Skinner List of parameters, the General Chemistry parameters, the practical quantitation limits, and the analytical methods are presented in Table 4. The containers with applicable preservation requirements (if appropriate) for each parameter are presented in Table 5.

4.0 GROUNDWATER ANALYTICAL RESULTS

The January 2005 analytical results for sentinel well groundwater samples indicate three VOCs and nine metals (arsenic, barium, beryllium, cadmium, copper, lead, nickel, vanadium, and zinc) were detected. None of the detected constituent concentrations were above the 35 IAC Part 742, Tiered Approach to Corrective Action Objectives (TACO) Tier 1, Groundwater Remediation Objectives (GROs) for Class I groundwater (Illinois Pollution Control Board, 1997a).

The three VOCs detected in January 2005 included benzene, toluene, and total xylenes. These three VOCs were present in the HMW-25 sample and its duplicate, at estimated concentrations below practical quantitation limits (as indicated with the qualifier "J"): benzene at 0.6 J micrograms per liter (µg/L), toluene at 2.7 J µg/L and 2.4 J µg/L, and total xylenes at 4.1 J µg/L and 3.9 J µg/L, respectively. Benzene was also detected in the January 2005 HMW-29 sample at 0.6 J µg/L.

Historically, benzene, toluene, and total xylenes had not previously been detected in any of the sentinel well groundwater samples. In February 2005, wells HMW-25 and HMW-29 were resampled and analyzed for benzene, ethylbenzene, toluene, and total xylenes (BETX). Only benzene was detected in the February 2005 HMW-25 sample at 0.5 J µg/L, which is below the TACO Tier 1 GRO for Class I Groundwater (5.0 µg/L).

BETX concentrations in the February 2005 HMW-29 sample were below both practical quantitation limits (PQLs) and the TACO Tier 1 GROs for Class I Groundwater.

Based on the aforementioned analytical results and a review of the January sampling procedures, discussed below, sentinel well HMW-25 was redeveloped. A groundwater sample was subsequently collected for BETX analysis in March 2005. In addition, a duplicate sample from HMW-25 was submitted to FIRST Environmental Laboratories, Inc. in Naperville, Illinois, for BETX analysis. The analytical results indicated that BETX concentrations in both March 2005 HMW-25 samples were below both PQLs and the TACO Tier 1 GROs for Class I Groundwater.

The presence of benzene, toluene, and total xylenes in groundwater samples collected from wells HMW-25 and HMW-29 during this quarter, was attributable to sampling procedures. In January 2005, the pump equipment used to sample wells HMW-25 and HMW-29 was previously used to sample wells, which, because of a lack of historic data, unknowingly contained elevated concentrations of BETX constituents. Although the pump equipment was thoroughly decontaminated prior to use at each well, the completeness of the decontamination was apparently insufficient. Future quarterly groundwater sampling of the sentinel wells will be performed using dedicated low-flow sampling pumps and polypropylene tubing at each well. Furthermore, if a pump malfunctions during future sampling, it will either be replaced with a new decontaminated spare pump or the well will be sampled using a decontaminated pump from a well previously documented to have no detectable VOCs.

All of the samples submitted for pH analysis exceeded the hold time requirements of 24 hours. This is not believed to impact the conclusions of this report as real-time pH measurements were taken in the field as part of the stabilization of water quality parameters (Appendix B). An evaluation of the Quality Assurance/Quality Control

(QA/QC) samples from this sampling event only revealed one concern. One VOC was present in an equipment blank sample (EQB-01) sample, at an estimated concentration below practical quantitation limits: benzene at 0.7 J micrograms per liter (µg/L), which is below the TACO Tier 1 GRO for Class I Groundwater (5.0 µg/L). The presence of benzene in the equipment blank further supports the evaluation that the completeness of the equipment decontamination was apparently insufficient.

Indicator parameter measurements obtained during resampling in February and March 2005 are provided in Appendix B. A historic summary of laboratory analytical results for VOCs, SVOCs, Metals, and General Chemistry Parameters is presented Tables 6, 7, 8, and 9, respectively. The laboratory analytical reports for this quarter of sampling are included in Appendix C.

5.0 CONCLUSIONS

Based on a review of the groundwater analytical results, the sentinel wells have not been impacted by the identified separate phase LNAPL or dissolved phase plume underlying the northern portion of Hartford. This evaluation is based on the absence of concentrations of petroleum hydrocarbon constituents above applicable TACO Tier 1 GROs for Class I Groundwater, with the exception of the occasional presence of total lead in 2004. The identification of occasional lead exceedances in the sentinel wells is not considered an indication of impact from the LNAPL plume due to the sporadic nature and location of the occurrences in light of the long-term existence of the LNAPL plume. Furthermore, lead can be a naturally occurring constituent in groundwater. The evaluation is also based upon the groundwater flow mapping of the Main Sand that shows flow in the northern portion of Hartford, in the area of the LNAPL plume, is to the north, away from the Hartford WHPA and the Hartford municipal water supply wells.

6.0 RECOMMENDATIONS AND FUTURE ACTIVITIES

The five sentinel wells have been monitored quarterly for one year. An evaluation of the groundwater analytical results and gauging data have provided the basis for recommendations regarding a groundwater monitoring program and future activities for the sentinel wells. Historic groundwater analytical results show none of the Skinner List parameters, required by the AOC, have been detected at concentrations above TACO Tier 1 GROs for Class I Groundwater, with the exception of total lead, as previously discussed (Section 5.0). Furthermore, concentrations of detected VOCs, inadvertently introduced into the wells through incomplete decontamination, have been below practical quantitation limits, and no SVOCs, and no total cyanide have been detected.

Therefore, it is proposed that future sentinel well groundwater samples be submitted for laboratory analysis of BETX, total metals and dissolved metals. Groundwater sampling will be conducted using dedicated pumps and tubing as discussed in Section 4.0. It is recommended that future quarterly groundwater monitoring events continue to include comprehensive well gauging for Hartford, Shell, and Premcor groundwater monitoring wells.

In addition, the HWG is currently researching available background groundwater quality data in the general area of Hartford in regards to lead. Background data is anticipated to reflect both natural and anthropogenic influences. This includes data that may be on file with the Illinois State Water Survey and other sources. The findings of this work will be presented in future submittals to the USEPA in regards to the sentinel well sampling program.

As required by Paragraph 47 of the AOC, the next quarterly sampling event (to be scheduled during April 2005) will be conducted in accordance with the Sentinel Wells

Work Plan, dated October 16, 2003, and approved by the USEPA on November 21, 2003. A comprehensive well gauging event will also be conducted for the Hartford, Shell, and Premcor groundwater monitoring wells.

7.0 REFERENCES

Clayton Group Services, Inc., October 16, 2003. *Conceptual Site Model, Village of Hartford Work Plan,* Hartford, Illinois (aka *Sentinel Wells Work Plan).*

Clayton Group Services, Inc., October 29, 2004a. *Free-Phase Hydrocarbon Investigation Report, The Hartford Area Hydrocarbon Plume Site, Hartford, Illinois.*

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Illinois Pollution Control Board, 1997a. *Tiered Approach to Corrective Action Objectives: 35 IAC Part 742.* Adopted rule, Final Order June 5, 1997. Last amended February 2002.

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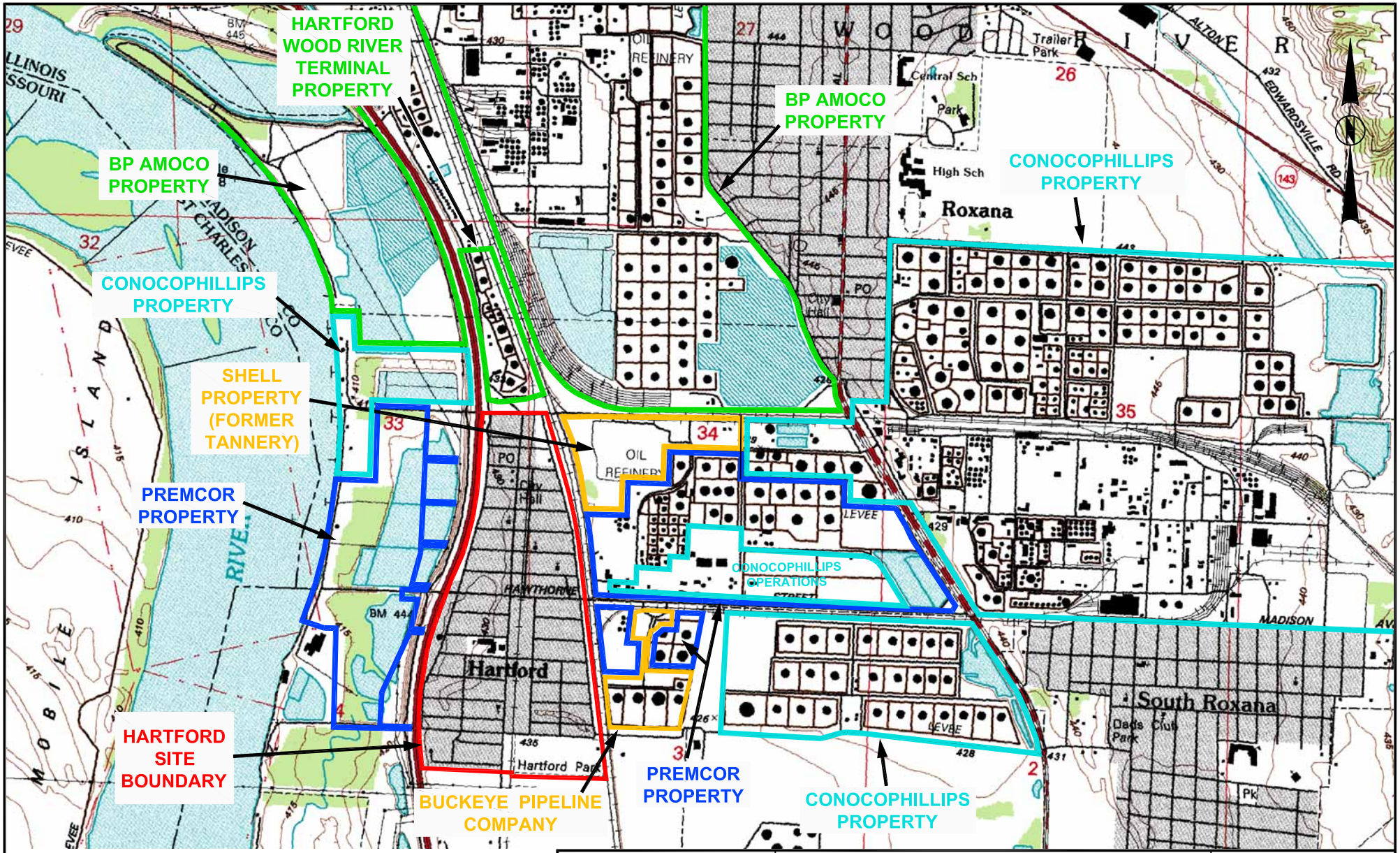
US Army Corps of Engineers, 2004. Mississippi River at Melvin Price Lock and Dam (Alton, IL). (http://www2.mvr.usace.army.mil/WaterControl/stationinfo2.cfm?sid=MPRICE&fid=ALNI2&dt=S)

United States Environmental Protection Agency, Region 5, Chicago, Illinois. *In the Matter of the Hartford Area Hydrocarbon Plume Site.* (Docket No. R7003-5-04-001).

FIGURES



** NOT TO SCALE **

SOURCE:
USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP
(WOOD RIVER, ILL.–MO. – rev.1994)

CHK BY	
DWN BY	BCP
DATE	12–15–04
SCALE	AS SHOWN
CAD NO.	0309512001B
PRJ NO.	15–03095.14

VILLAGE OF HARTFORD, IL AND SURROUNDING AREA MAP

THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

Clayton® GROUP SERVICES

FIGURE
1

LEGEND:

- CPT/ROST™ INVESTIGATION LOCATION NO APPARENT PETROLEUM HYDROCARBON (BLACK)
- CPT/ROST™ INVESTIGATION LOCATION BLUE ROST RESPONSE
- CPT/ROST™ INVESTIGATION LOCATION GREEN ROST RESPONSE
- CPT/ROST™ INVESTIGATION LOCATION YELLOW ROST RESPONSE
- SENTINEL MONITORING WELLS
- EXISTING MONITORING WELL (HB, HMW, P, SP, RB)
- RECOVERY WELL (RW)
- PRODUCTION WELL (P)
- VAPOR CONTROL BORING (VCB)/ SOIL VAPOR EXTRACTION WELL (HSVE)
- PUBLIC WATER SUPPLY WELL (WSW)
- EXISTING PERMANENT SOIL VAPOR SAMPLING POINTS (MP, VP, VMP)
- S/M/D SHALLOW/MEDIUM/DEEP
- EXISTING PRAXAIR SAMPLING PROBE LOCATION
- TEST PIT (TP)
- PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
- INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)

NOTE:
MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.

- PUBLIC WATER SUPPLY WELL HEAD PROTECTION AREA (WHPA) – FIVE YEAR

SCALE IN FEET
0 100 200 400

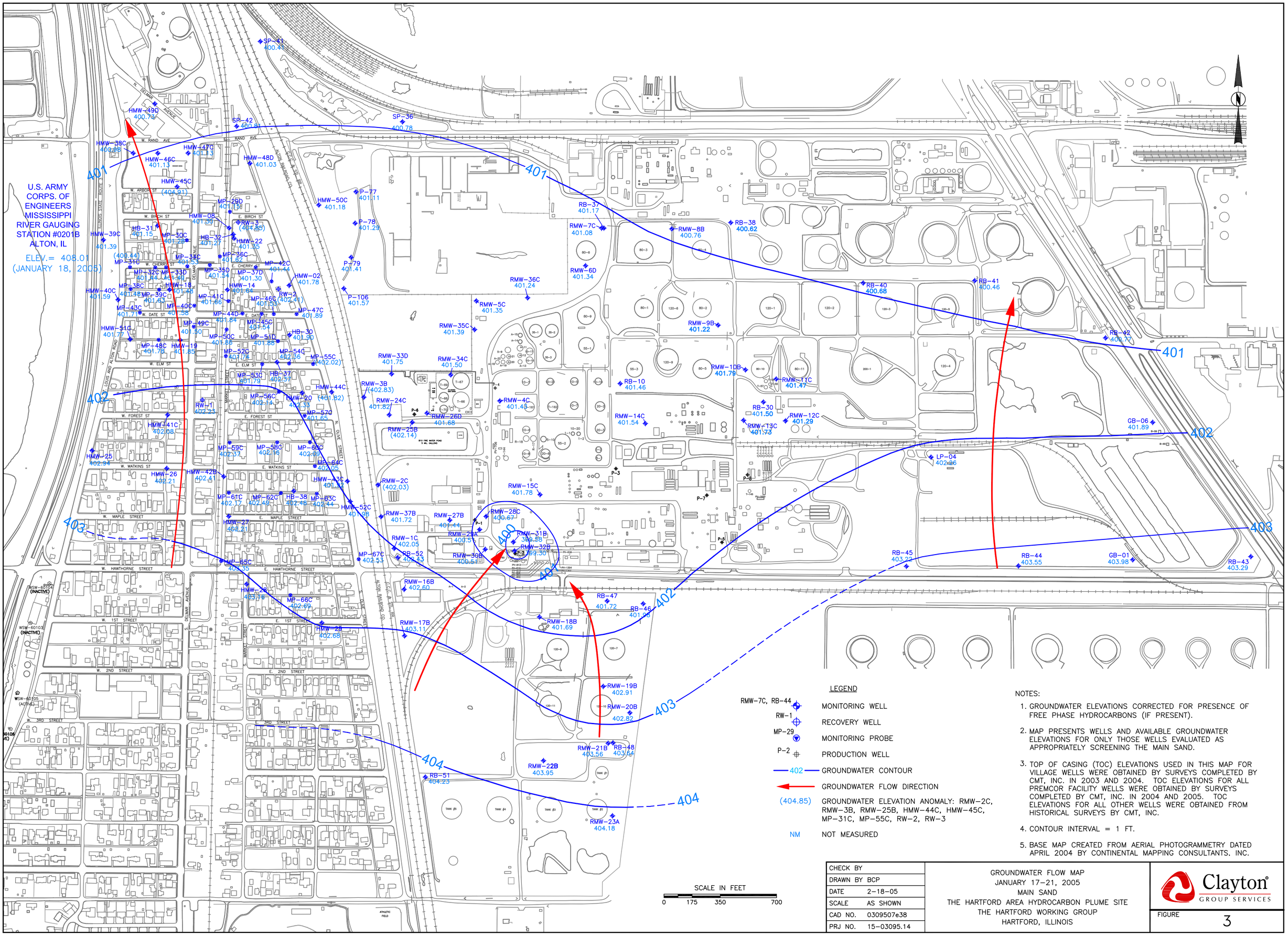
DESIGN BY:	
CHECKED BY:	
DRAWN BY:	BCP
DATE:	12–15–04
SCALE:	AS SHOWN
CAD NO.:	0309514006A
PROJECT NO.:	15–03095.14

Clayton GROUP SERVICES

NORTH HARTFORD SITE FEATURES MAP
VILLAGE OF HARTFORD, ILLINOIS

THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

FIGURE
2


U.S. ARMY
CORPS. OF
ENGINEERS
MISSISSIPPI
RIVER GAUGING
STATION #0201B
ALTON, IL
ELEV.= 408.01
(JANUARY 18, 2005)
401
402
403
404
LEGEND
RMW-7C, RB-44 MONITORING WELL
RW-1 RECOVERY WELL
MP-29 MONITORING PROBE
P-2 PRODUCTION WELL
402 GROUNDWATER CONTOUR
GROUNDWATER FLOW DIRECTION
(404.85) GROUNDWATER ELEVATION ANOMALY: RMW-2C, RMW-3B, RMW-25B, HMW-44C, HMW-45C, MP-31C, MP-55C, RW-2, RW-3
NM NOT MEASURED
NOTES:
1. GROUNDWATER ELEVATIONS CORRECTED FOR PRESENCE OF FREE PHASE HYDROCARBONS (IF PRESENT).
2. MAP PRESENTS WELLS AND AVAILABLE GROUNDWATER ELEVATIONS FOR ONLY THOSE WELLS EVALUATED AS APPROPRIATELY SCREENING THE MAIN SAND.
3. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2003 AND 2004. TOC ELEVATIONS FOR ALL PREMCOR FACILITY WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2004 AND 2005. TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.
4. CONTOUR INTERVAL = 1 FT.
5. BASE MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
SCALE IN FEET
0 175 350 700
CHECK BY
DRAWN BY BCP
DATE 2-18-05
SCALE AS SHOWN
CAD NO. 0309507e38
PRJ NO. 15-03095.14
GROUNDWATER FLOW MAP
JANUARY 17-21, 2005
MAIN SAND
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS
Clayton GROUP SERVICES
FIGURE 3

U.S. ARMY CORPS.
OF ENGINEERS
MISSISSIPPI RIVER
GAUGING STATION
#0201B
ALTON, IL

ELEV.=408.01
(JANUARY 18, 2005)

LEGEND

- MONITORING WELL (HMW, SP, P)
- 410 GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION
- NM NOT MEASURED
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)

NOTES:

1. GROUNDWATER ELEVATIONS CORRECTED FOR PRESENCE OF FREE PHASE HYDROCARBONS IF PRESENT.
2. MAP PRESENTS WELLS AND AVAILABLE GROUNDWATER ELEVATIONS FOR ONLY THOSE WELLS EVALUATED AS APPROPRIATELY SCREENING THE EPA STRATUM.
3. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEY COMPLETED BY CMT, INC. IN 2003 AND 2004. TOC ELEVATIONS FOR ALL PREMCOR FACILITY WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2004 AND 2005. TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.
4. CONTOUR INTERVAL = 2 FT.
5. MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.

SCALE IN FEET
0 150 300 600

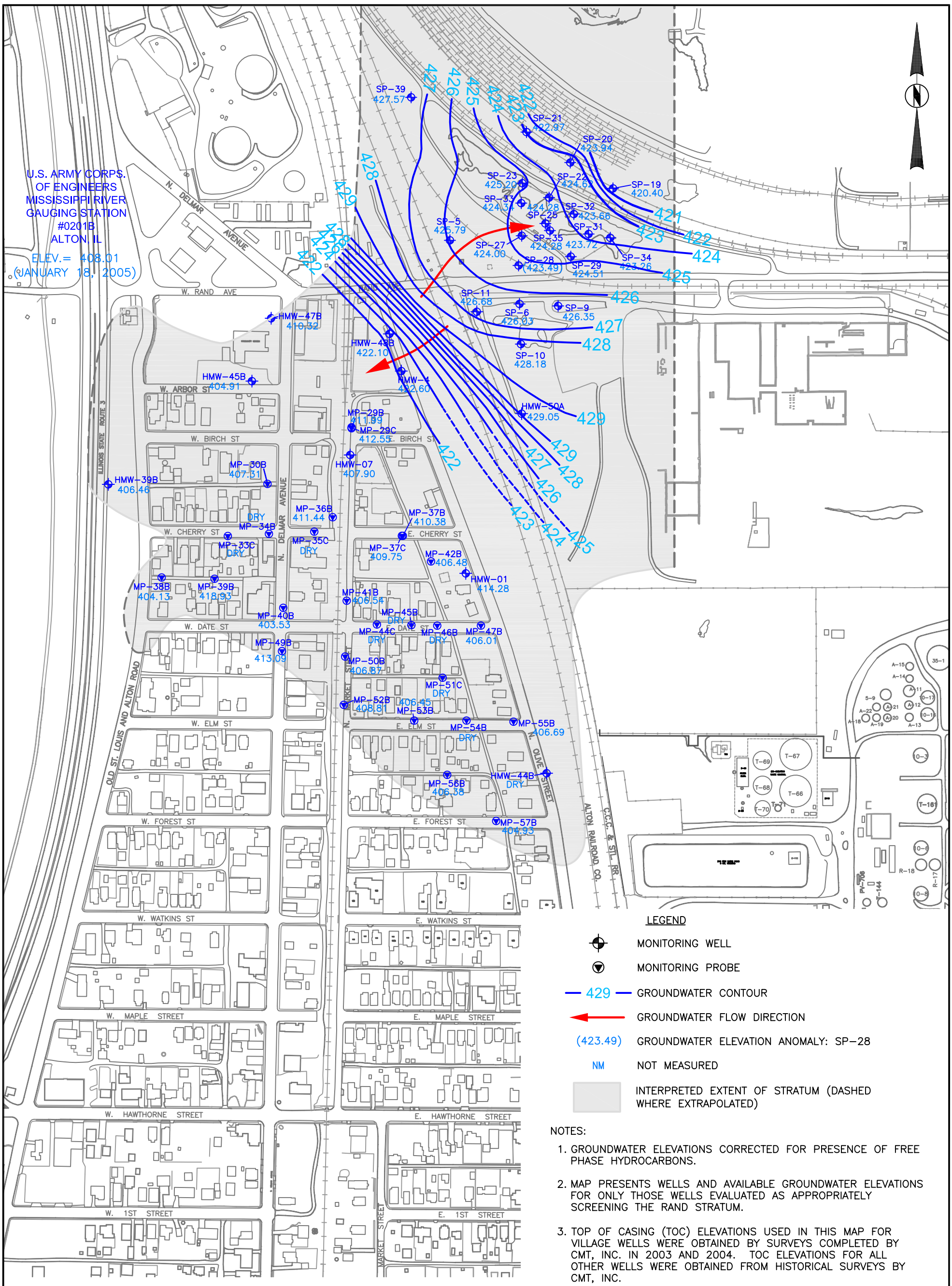
CHECK BY	KDC
DRAWN BY	BCP
DATE	2-18-05
SCALE	AS SHOWN
CAD NO.	0309507e37
PRJ NO.	15-03095

GROUNDWATER FLOW MAP
JANUARY 17-21, 2005 - EPA STRATUM

THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

Clayton GROUP SERVICES

FIGURE 4



LEGEND

- MONITORING WELL
- MONITORING PROBE
- 429 — GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION
- (423.49) GROUNDWATER ELEVATION ANOMALY: SP-28
- NM NOT MEASURED
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)

NOTES:

1. GROUNDWATER ELEVATIONS CORRECTED FOR PRESENCE OF FREE PHASE HYDROCARBONS.
2. MAP PRESENTS WELLS AND AVAILABLE GROUNDWATER ELEVATIONS FOR ONLY THOSE WELLS EVALUATED AS APPROPRIATELY SCREENING THE RAND STRATUM.
3. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2003 AND 2004. TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.
4. CONTOUR INTERVAL = 1 FT.
5. MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.

SCALE IN FEET

0 150 300 600

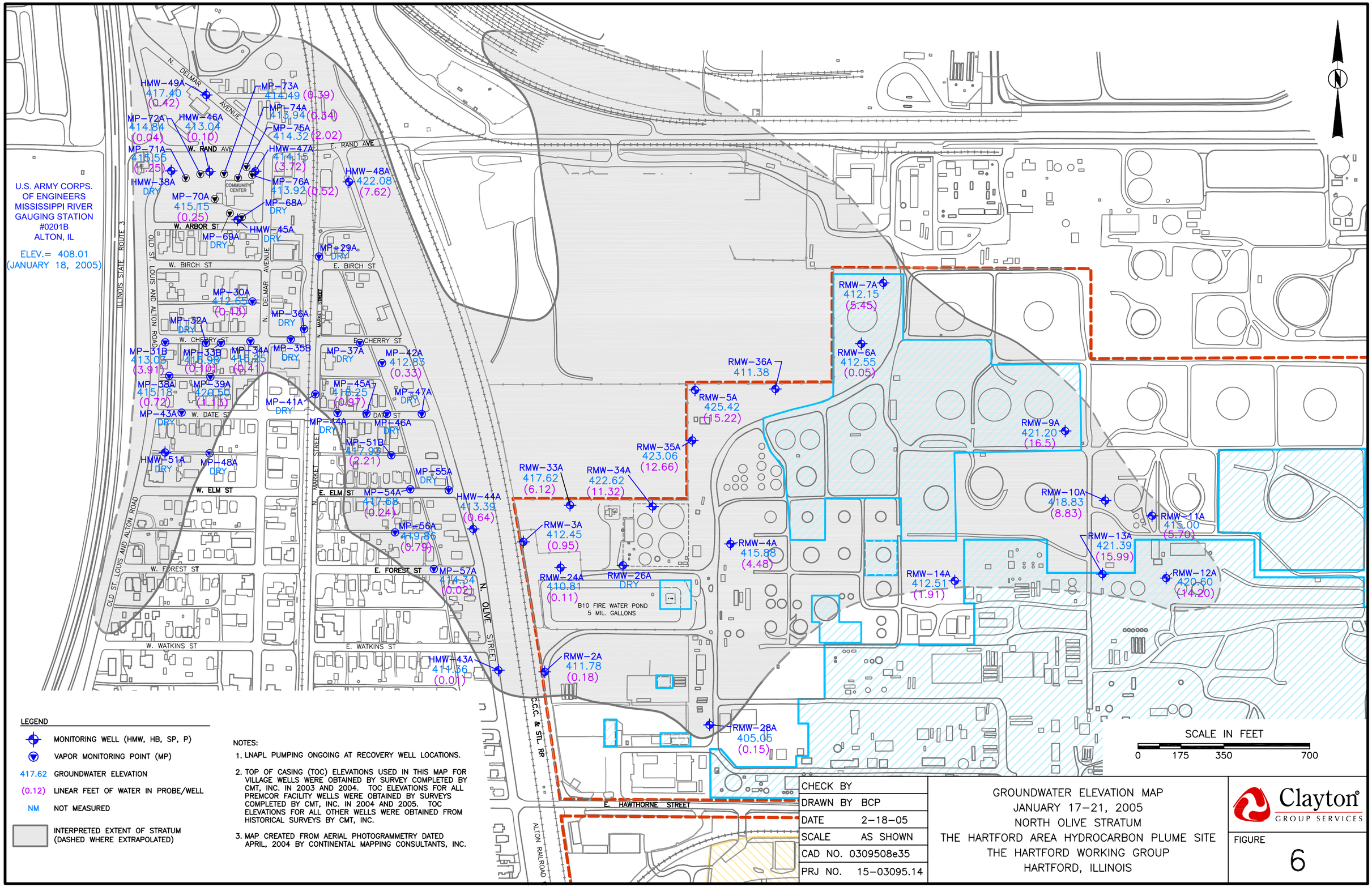
CHECK BY	
DRAWN BY	BCP
DATE	2-18-05
SCALE	AS SHOWN
CAD NO.	0309507e36
PRJ NO.	15-03095

GROUNDWATER FLOW MAP
JANUARY 17-21, 2005 – RAND STRATUM

THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

Clayton GROUP SERVICES

FIGURE 5



LEGEND

- MONITORING WELL (HMW, HB, SP, P)
- VAPOR MONITORING POINT (MP)
- 417.62 GROUNDWATER ELEVATION
- (0.12) LINEAR FEET OF WATER IN PROBE/WELL
- NM NOT MEASURED
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)

NOTES:

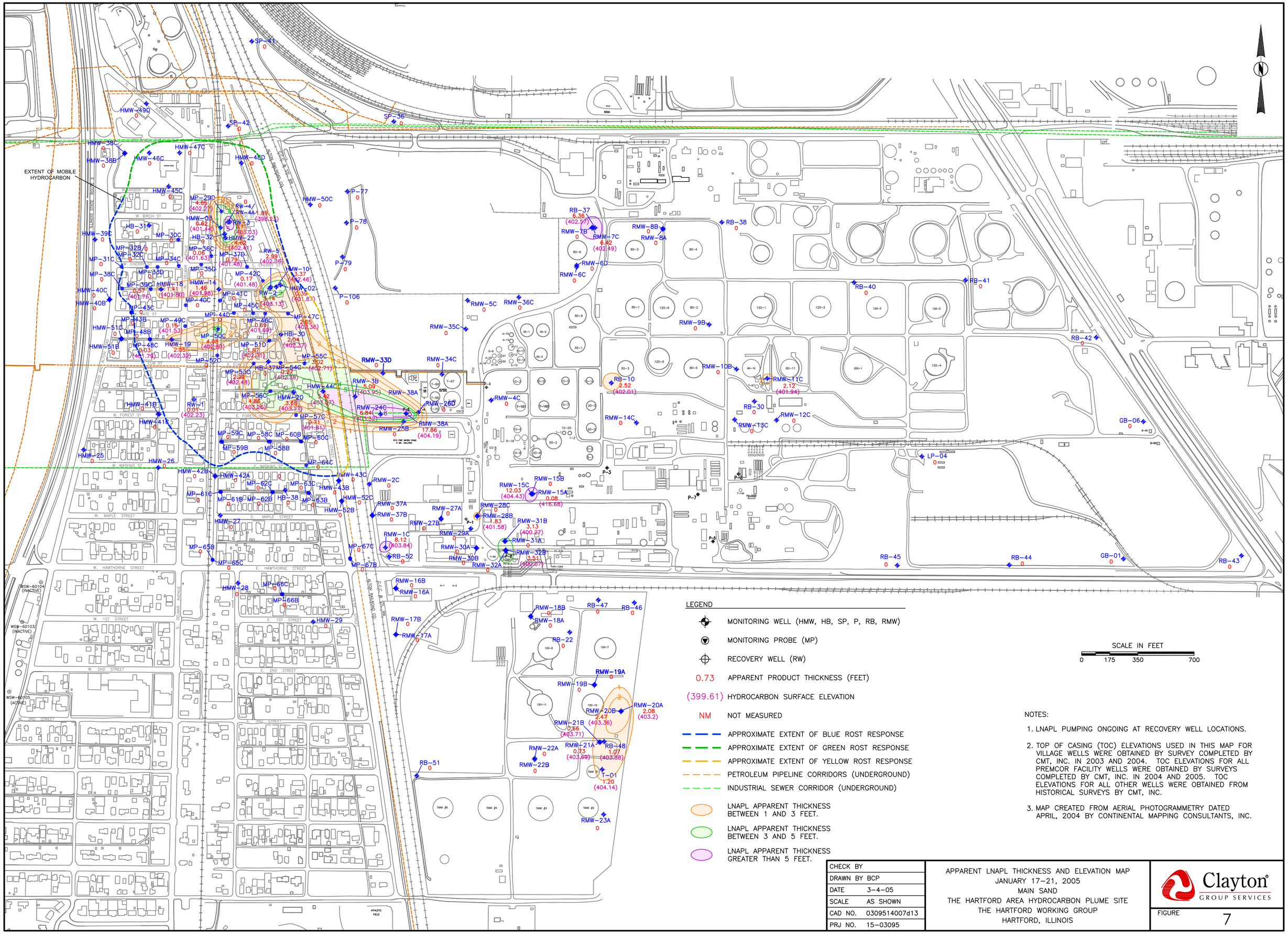
1. LNAPL PUMPING ONGOING AT RECOVERY WELL LOCATIONS.
2. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEY COMPLETED BY CMT, INC. IN 2003 AND 2004. TOC ELEVATIONS FOR ALL PREMCOR FACILITY WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2004 AND 2005. TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.
3. MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.

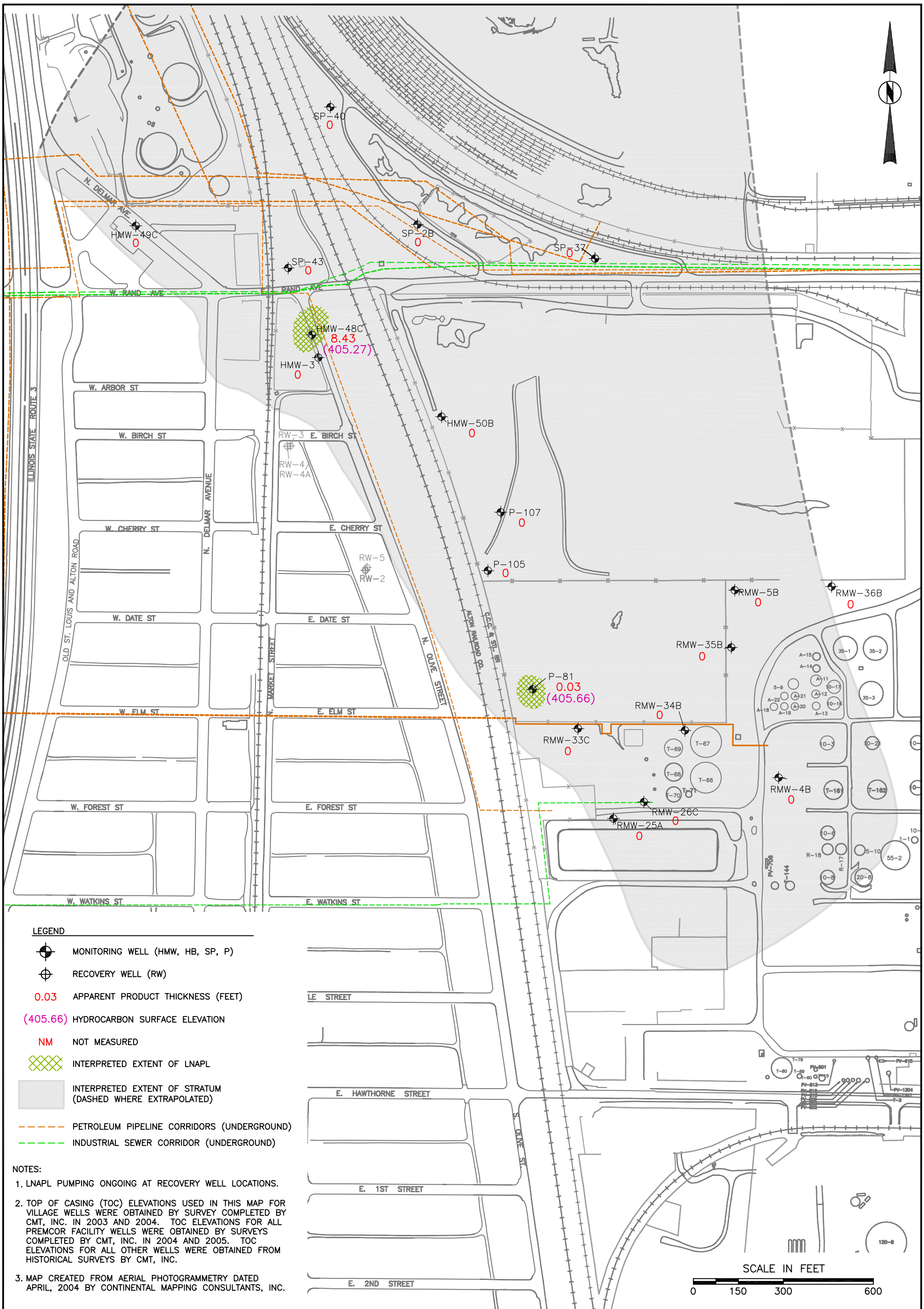
CHECK BY	
DRAWN BY	BCP
DATE	2-18-05
SCALE	AS SHOWN
CAD NO.	0309508e35
PRJ NO.	15-03095.14

GROUNDWATER ELEVATION MAP
JANUARY 17-21, 2005
NORTH OLIVE STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

Clayton GROUP SERVICES

FIGURE 6


EXTENT OF MOBILE HYDROCARBON
LEGEND
MONITORING WELL (HMW, HB, SP, P, RB, RMW)
MONITORING PROBE (MP)
RECOVERY WELL (RW)
0.73 APPARENT PRODUCT THICKNESS (FEET)
(399.61) HYDROCARBON SURFACE ELEVATION
NM NOT MEASURED
APPROXIMATE EXTENT OF BLUE ROST RESPONSE
APPROXIMATE EXTENT OF GREEN ROST RESPONSE
APPROXIMATE EXTENT OF YELLOW ROST RESPONSE
PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)
LNAPL APPARENT THICKNESS BETWEEN 1 AND 3 FEET.
LNAPL APPARENT THICKNESS BETWEEN 3 AND 5 FEET.
LNAPL APPARENT THICKNESS GREATER THAN 5 FEET.
SCALE IN FEET
0 175 350 700
NOTES:
1. LNAPL PUMPING ONGOING AT RECOVERY WELL LOCATIONS.
2. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEY COMPLETED BY CMT, INC. IN 2003 AND 2004. TOC ELEVATIONS FOR ALL PREMCOR FACILITY WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2004 AND 2005. TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.
3. MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.
CHECK BY
DRAWN BY BCP
DATE 3-4-05
SCALE AS SHOWN
CAD NO. 0309514007d13
PRJ NO. 15-03095
APPARENT LNAPL THICKNESS AND ELEVATION MAP
JANUARY 17-21, 2005
MAIN SAND
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS
Clayton GROUP SERVICES
FIGURE 7



LEGEND

- MONITORING WELL (HMW, HB, SP, P)
- RECOVERY WELL (RW)
- 0.03 APPARENT PRODUCT THICKNESS (FEET)
- (405.66) HYDROCARBON SURFACE ELEVATION
- NM NOT MEASURED
- INTERPRETED EXTENT OF LNAPL
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)
- PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
- INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)

NOTES:

1. LNAPL PUMPING ONGOING AT RECOVERY WELL LOCATIONS.
2. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEY COMPLETED BY CMT, INC. IN 2003 AND 2004. TOC ELEVATIONS FOR ALL PREMCOR FACILITY WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2004 AND 2005. TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.
3. MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.

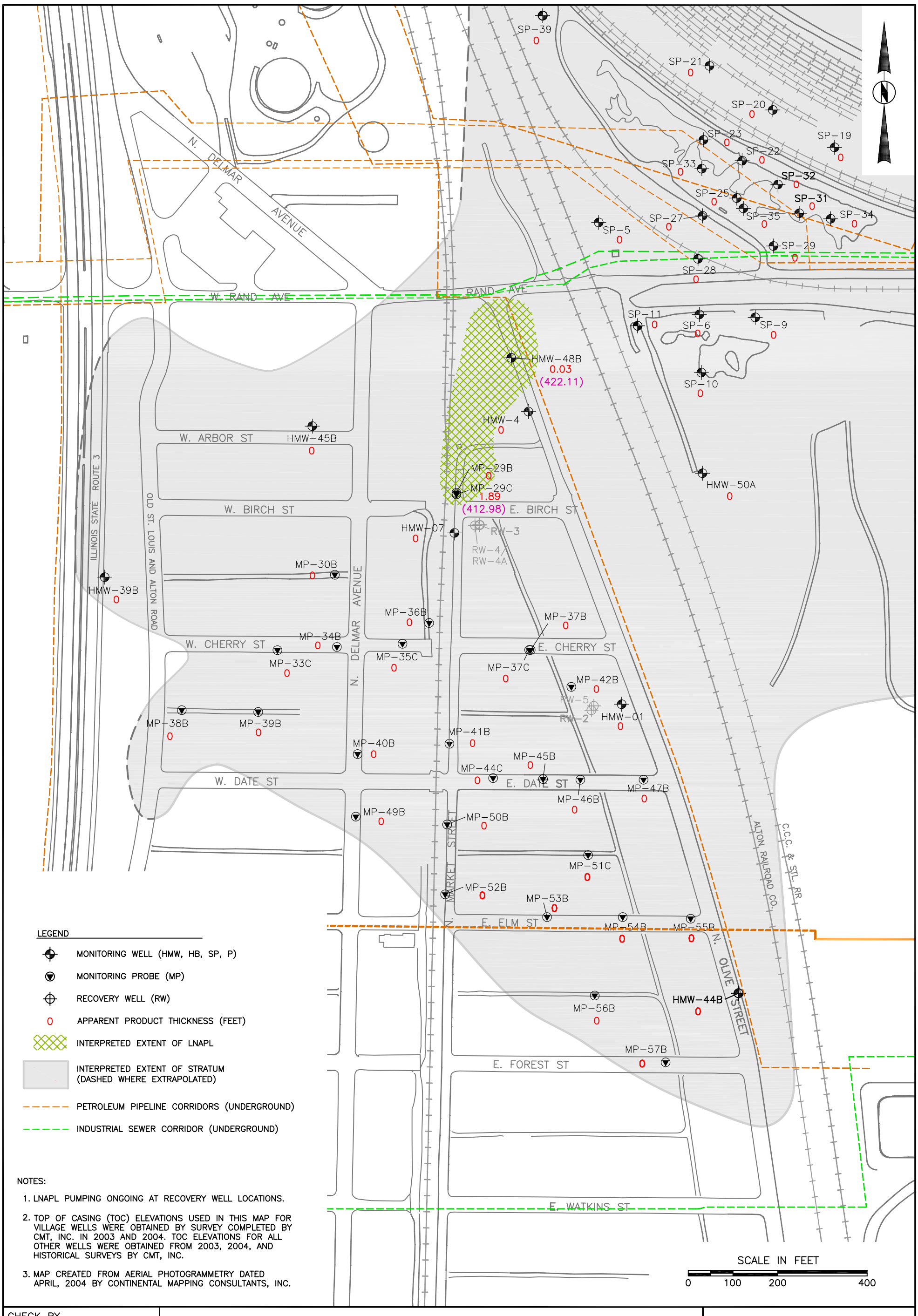
CHECK BY	KDC
DRAWN BY	BCP
DATE	2-18-05
SCALE	AS SHOWN
CAD NO.	0309514007d12
PRJ NO.	15-03095

APPARENT LNAPL PRODUCT THICKNESS AND ELEVATION MAP
JANUARY 17-21, 2005 - EPA STRATUM

THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

Clayton GROUP SERVICES

FIGURE 8



LEGEND

- MONITORING WELL (HMW, HB, SP, P)
- MONITORING PROBE (MP)
- RECOVERY WELL (RW)
- 0 APPARENT PRODUCT THICKNESS (FEET)
- INTERPRETED EXTENT OF LNAPL
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)
- PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
- INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)

NOTES:

1. LNAPL PUMPING ONGOING AT RECOVERY WELL LOCATIONS.
2. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEY COMPLETED BY CMT, INC. IN 2003 AND 2004. TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM 2003, 2004, AND HISTORICAL SURVEYS BY CMT, INC.
3. MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.

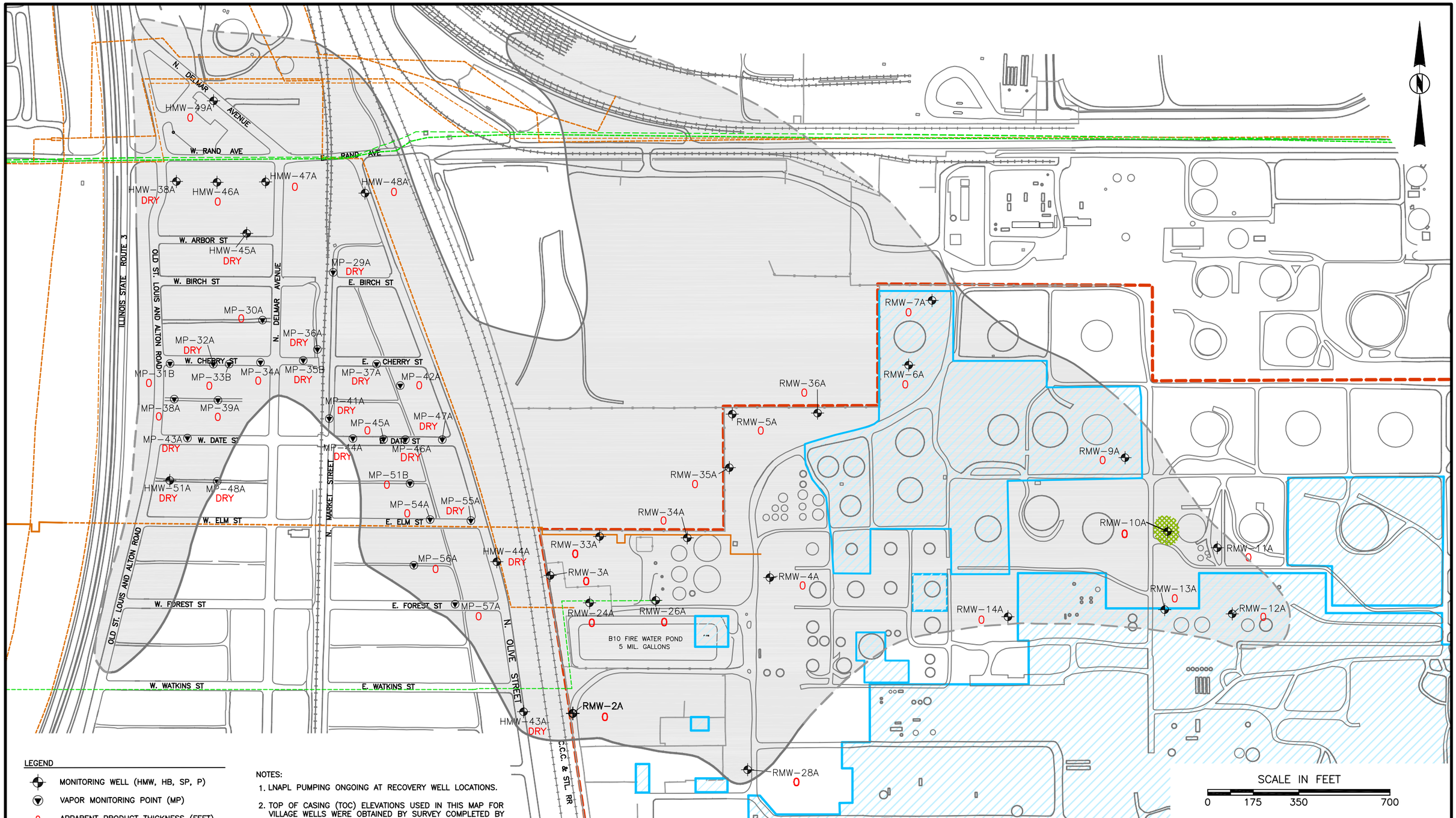
CHECK BY	
DRAWN BY	BCP
DATE	2-18-05
SCALE	AS SHOWN
CAD NO.	0309514007d11
PRJ NO.	15-03095

APPARENT LNAPL PRODUCT THICKNESS AND ELEVATION MAP
JANUARY 17-21, 2005 – RAND STRATUM

THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

Clayton GROUP SERVICES

FIGURE 9



LEGEND

- MONITORING WELL (HMW, HB, SP, P)
- VAPOR MONITORING POINT (MP)
- 0 APPARENT PRODUCT THICKNESS (FEET)
- NM NOT MEASURED
- INTERPRETED EXTENT OF LNAPL
- INTERPRETED EXTENT OF STRATUM (DASHED WHERE EXTRAPOLATED)
- PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
- INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)

NOTES:

1. LNAPL PUMPING ONGOING AT RECOVERY WELL LOCATIONS.
2. TOP OF CASING (TOC) ELEVATIONS USED IN THIS MAP FOR VILLAGE WELLS WERE OBTAINED BY SURVEY COMPLETED BY CMT, INC. IN 2003 AND 2004. TOC ELEVATIONS FOR ALL PREMCOR FACILITY WELLS WERE OBTAINED BY SURVEYS COMPLETED BY CMT, INC. IN 2004 AND 2005. TOC ELEVATIONS FOR ALL OTHER WELLS WERE OBTAINED FROM HISTORICAL SURVEYS BY CMT, INC.
3. MAP CREATED FROM AERIAL PHOTOGRAMMETRY DATED APRIL, 2004 BY CONTINENTAL MAPPING CONSULTANTS, INC.

CHECK BY	
DRAWN BY	BCP
DATE	2-18-05
SCALE	AS SHOWN
CAD NO.	0309514007d10
PRJ NO.	15-03095.14

APPARENT LNAPL PRODUCT THICKNESS
AND ELEVATION MAP
JANUARY 17-21, 2005 – NORTH OLIVE STRATUM
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

Clayton GROUP SERVICES

FIGURE
10

TABLES

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
IEPA-4	01/19/05	430.35	28.29	30.14	402.06	400.21	1.85	401.63
HB-07[2]		432.32	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED
HB-16[3]	01/20/05	431.42	--	--	--	--	--	--
HB-27[2]		425.83	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED	PLUGGED
HB-30	01/20/05	431.08	28.71	30.75	402.37	400.33	2.04	401.90
HB-31[3]	01/20/05	431.49	NA	30.34	NA	401.15	0.00	401.15
HB-32	01/19/05	433.33	NA	32.06	NA	401.27	0.00	401.27
HB-33	01/19/05	430.23	NA	26.44	NA	403.79	0.00	403.79
HB-37	01/19/05	431.77	NA	29.42	NA	402.35	0.00	402.35
HB-38	01/19/05	429.92	NA	27.44	NA	402.48	0.00	402.48
HMW-01	01/18/05	429.94	NA	15.66	NA	414.28	0.00	414.28
HMW-02	01/18/05	429.65	27.78	28.17	401.87	401.48	0.39	401.78
HMW-03	01/17/05	428.72	NA	24.51	NA	404.21	0.00	404.21
HMW-04	01/17/05	428.96	NA	6.36	NA	422.60	0.00	422.60
HMW-07	01/19/05	429.12	21.21	21.24	407.91	407.88	0.03	407.90
HMW-08	01/19/05	429.74	28.30	28.92	401.44	400.82	0.62	401.30

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-09	01/18/05	430.23	NA	23.16	NA	407.07	0.00	407.07
HMW-10	01/18/05	430.20	27.74	31.11	402.46	399.09	3.37	401.68
HMW-13	01/19/05	430.81	NA	18.45	NA	412.36	0.00	412.36
HMW-14	01/19/05	430.86	28.88	30.34	401.98	400.52	1.46	401.64
HMW-18	01/19/05	431.58	29.78	31.19	401.80	400.39	1.41	401.48
HMW-19	01/19/05	431.80	29.48	31.53	402.32	400.27	2.05	401.85
HMW-20	01/19/05	430.65	27.48	31.14	403.17	399.51	3.66	402.33
HMW-21	01/19/05	430.05	NA	15.65	NA	414.40	0.00	414.40
HMW-22	01/19/05	430.15	27.74	32.36	402.41	397.79	4.62	401.35
HMW-25	01/19/05	427.45	NA	24.51	NA	402.94	0.00	402.94
HMW-26	01/19/05	425.20	NA	22.99	NA	402.21	0.00	402.21
HMW-27[4] (T 7/27/04)	01/19/05	430.73	NA	28.52	NA	402.21	0.00	402.21
HMW-28	01/19/05	430.97	NA	27.81	NA	403.16	0.00	403.16
HMW-29	01/19/05	429.99	NA	27.31	NA	402.68	0.00	402.68
HMW-30	01/19/05	430.07	NA	28.71	NA	401.36	0.00	401.36
HMW-31	01/19/05	430.09	NA	28.76	NA	401.33	0.00	401.33
HMW-32	01/19/05	430.01	NA	27.03	NA	402.98	0.00	402.98

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
HMW-33	01/19/05	430.13	28.46	29.25	401.67	400.88	0.79	401.49
HMW-34	01/18/05	429.83	27.65	30.00	402.18	399.83	2.35	401.64
HMW-35	01/18/05	429.81	NA	28.24	NA	401.57	0.00	401.57
HMW-36	01/18/05	429.91	27.53	30.70	402.38	399.21	3.17	401.65
HMW-37	01/18/05	429.61	27.69	28.55	401.92	401.06	0.86	401.72
HMW-38 A	01/18/05	430.06	NA	DRY	NA	--	0.00	--
HMW-38 B	01/18/05	429.93	NA	24.00	NA	405.93	0.00	405.93
HMW-38 C (T 11/19/04)	01/18/05	430.23	NA	29.25	NA	400.98	0.00	400.98
HMW-39 A	01/18/05	426.46	NA	19.38	NA	407.08	0.00	407.08
HMW-39 B (T 1/12/05)	01/18/05	426.55	NA	20.09	NA	406.46	0.00	406.46
HMW-39 C (T 1/11/05)	01/18/05	426.52	NA	25.13	NA	401.39	0.00	401.39
HMW-40 A	01/19/05	425.01	NA	DRY	NA	--	0.00	--
HMW-40 B	01/09/05	424.86	NA	23.10	NA	401.76	0.00	401.76
HMW-40 C	01/19/05	424.75	NA	23.16	NA	401.59	0.00	401.59
HMW-41 A	01/19/05	425.42	NA	DRY	NA	--	0.00	--
HMW-41 B	01/19/05	425.91	NA	23.86	NA	402.05	0.00	402.05
HMW-41 C	01/19/05	425.85	NA	23.77	NA	402.08	0.00	402.08

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-42 A	01/20/05	431.39	NA	DRY	NA	--	0.00	--
HMW-42 B	01/20/05	431.46	NA	29.05	NA	402.41	0.00	402.41
HMW-43 A	01/18/05	428.73	NA	17.37	NA	411.36	0.00	411.36
HMW-43 B	01/18/05	428.63	NA	21.97	NA	406.66	0.00	406.66
HMW-43 C (T 1/11/05)	01/18/05	428.96	NA	27.04	NA	401.92	0.00	401.92
HMW-44 A	01/18/05	429.50	NA	16.11	NA	413.39	0.00	413.39
HMW-44 B	01/18/05	429.46	NA	DRY	NA	--	0.00	--
HMW-44 C	01/18/05	429.44	26.37	31.79	403.07	397.65	5.42	401.82
HMW-45 A	01/18/05	431.17	NA	DRY	NA	--	0.00	--
HMW-45 B	01/18/05	431.22	NA	26.31	NA	404.91	0.00	404.91
HMW-45 C	01/18/05	430.87	NA	29.61	NA	401.26	0.00	401.26
HWM-46 A	01/18/05	430.51	NA	17.47	NA	413.04	0.00	413.04
HMW-46 B	01/18/05	430.61	NA	23.55	NA	407.06	0.00	407.06
HMW-46 C	01/18/05	430.49	NA	29.36	NA	401.13	0.00	401.13
HMW-47 A	01/18/05	430.50	NA	16.35	NA	414.15	0.00	414.15
HMW-47 B	01/18/05	430.13	NA	19.81	NA	410.32	0.00	410.32
HMW-47 C	01/18/05	430.61	NA	29.48	NA	401.13	0.00	401.13

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
HMW-48 A	01/20/05	429.16	NA	7.08	NA	422.08	0.00	422.08
HMW-48 B	01/20/05	429.18	7.07	7.10	422.11	422.08	0.03	422.10
HMW-48 C	01/17/05	429.02	23.75	32.18	405.27	396.84	8.43	403.33
HMW-48 D	01/17/05	428.98	NA	27.95	NA	401.03	0.00	401.03
HMW-49 A	01/18/05	430.21	NA	12.81	NA	417.40	0.00	417.40
HMW-49 B	01/18/05	430.23	NA	18.47	NA	411.76	0.00	411.76
HMW-49 C (T 1/19/05)	01/18/05	430.18	NA	25.72	NA	404.46	0.00	404.46
HMW-49 D (T 1/19/05)	01/18/05	430.25	NA	29.52	NA	400.73	0.00	400.73
HMW-50 A (T 1/11/05)	01/18/05	434.41	NA	5.38	NA	429.03	0.00	429.03
HMW-50 B (T 1/7/05)	01/18/05	434.15	NA	26.25	NA	407.90	0.00	407.90
HMW-50 C (T 1/7/05)	01/18/05	434.29	NA	33.10	NA	401.19	0.00	401.19
HMW-51 A	01/19/05	425.46	NA	DRY	NA	--	0.00	--
HMW-51 B	01/19/05	425.51	NA	23.70	NA	401.81	0.00	401.81
HMW-51 C	01/19/05	425.42	NA	23.65	NA	401.77	0.00	401.77
HMW-52 A	01/22/05	427.80	NA	18.12	NA	409.68	0.00	409.68
HMW-52 B	01/22/05	427.81	NA	25.12	NA	402.69	0.00	402.69
HMW-52 C	01/22/05	427.83	NA	25.85	NA	401.98	0.00	401.98

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RW-1	01/20/05	433.78	31.55	31.56	402.23	402.22	0.01	402.23
RW-2	01/18/05	431.99	28.86	32.00	403.13	399.99	3.14	402.41
RW-3	01/19/05	433.35	27.32	32.43	406.03	400.92	5.11	404.85
RW-4	01/19/05	429.65	NA	27.65	NA	402.00	0.00	402.00
RW-4A*	01/19/05	429.86	31.63	33.52	398.23	396.34	1.89	397.80
RW-5	01/18/05	430.22	27.86	30.85	402.36	399.37	2.99	401.67
MP-5S	01/19/05	429.83	NA	DRY	NA	--	0.00	--
MP-5D	01/19/05	430.09	NA	14.15	NA	415.94	0.00	415.94
MP-6S	01/19/05	430.15	--	--	--	--	--	--
MP-6D	01/19/05	430.13	NA	14.12	NA	416.01	0.00	416.01
MP-7S	01/19/05	430.17	--	--	--	--	--	--
MP-7D	01/19/05	430.16	--	--	--	--	--	--
MP-8S	01/19/05	430.20	NA	DRY	NA	--	0.00	--
MP-8D	01/19/05	430.14	16.47	16.49	413.67	413.65	0.02	413.67
MP-9S	01/19/05	430.05	NA	7.66	NA	422.39	0.00	422.39
MP-9D	01/19/05	430.00	15.36	16.70	414.64	413.30	1.34	414.33
MP-10S	01/19/05	430.53	NA	DRY	NA	--	0.00	--

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
MP-10D	01/19/05	430.37	NA	12.17	NA	418.20	0.00	418.20
MP-11S	01/19/05	431.19	NA	DRY	NA	--	0.00	--
MP-11D	0/19/05	431.19	NA	14.31	NA	416.88	0.00	416.88
MP-12S	01/19/05	431.70	NA	DRY	NA	--	0.00	--
MP-12D	01/19/05	431.63	NA	14.21	NA	417.42	0.00	417.42
MP-13S	01/19/05	429.20	NA	7.74	NA	421.46	0.00	421.46
MP-13D	01/19/05	429.30	NA	27.53	NA	401.77	0.00	401.77
MP-14S	01/19/05	429.51	NA	9.16	NA	420.35	0.00	420.35
MP-14D	01/19/05	429.51	NA	26.82	NA	402.69	0.00	402.69
MP-15S	01/19/05	429.63	NA	9.00	NA	420.63	0.00	420.63
MP-15D	01/19/05	429.58	NA	26.79	NA	402.79	0.00	402.79
MP-16S	01/19/05	429.75	NA	DRY	NA	--	0.00	--
MP-16D	01/19/05	429.77	NA	27.55	NA	402.22	0.00	402.22
MP-25	01/18/05	429.71	NA	26.29	NA	403.42	0.00	403.42
MP-27	01/18/05	429.55	NA	25.63	NA	403.92	0.00	403.92
MP-29 A	01/17/05	429.39	NA	DRY	NA	--	0.00	--
MP-29 C	01/20/05	429.39	16.41	18.30	412.98	411.09	1.89	412.55

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
MP-30 A	01/19/05	431.20	NA	18.55	NA	412.65	0.00	412.65
MP-30 C	01/19/05	431.13	NA	29.85	NA	401.28	0.00	401.28
MP-31 A	01/19/05	426.71	NA	DRY	NA	--	0.00	--
MP-31 B	01/19/05	426.79	NA	13.76	NA	413.03	0.00	413.03
MP-31 C	01/19/05	426.98	NA	26.54	NA	400.44	0.00	400.44
MP-32 A	01/19/05	429.68	NA	DRY	NA	--	0.00	--
MP-32 B	01/19/05	429.68	NA	28.55	NA	401.13	0.00	401.13
MP-32 C	01/19/05	429.72	NA	28.28	NA	401.44	0.00	401.44
MP-33 A	01/19/05	430.05	NA	DRY	NA	--	0.00	--
MP-33 B	01/19/05	430.09	NA	14.11	NA	415.98	0.00	415.98
MP-33 C	01/19/05	430.09	NA	DRY	NA	--	0.00	--
MP-33 D	01/19/05	430.09	NA	28.60	NA	401.49	0.00	401.49
MP-34 A	01/19/05	430.73	NA	15.48	NA	415.25	0.00	415.25
MP-34 B	01/19/05	430.74	NA	DRY	NA	--	0.00	--
MP-34 C	01/19/05	430.62	NA	29.09	NA	401.53	0.00	401.53
MP-35 A	01/18/05	430.39	NA	DRY	NA	--	0.00	--
MP-35 B	01/18/05	430.41	NA	DRY	NA	--	0.00	--

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-35 C	01/18/05	430.44	NA	DRY	NA	--	0.00	--
MP-35 D	01/18/05	430.43	NA	28.89	NA	401.54	0.00	401.54
MP-36 A	01/18/05	431.91	NA	DRY	NA	--	0.00	--
MP-36 B	01/18/05	431.94	NA	20.50	NA	411.44	0.00	411.44
MP-36 C	01/18/05	431.99	30.36	30.42	401.63	401.57	0.06	401.62
MP-37 A	01/17/05	429.33	NA	DRY	NA	--	0.00	--
MP-37 B	01/17/05	428.99	NA	18.61	NA	410.38	0.00	410.38
MP-37 C	01/17/05	429.07	NA	19.32	NA	409.75	0.00	409.75
MP-37 D	01/17/05	429.04	27.56	28.35	401.48	400.69	0.79	401.30
MP-38 A	01/19/05	427.17	NA	11.99	NA	415.18	0.00	415.18
MP-38 B	01/19/05	427.03	NA	22.90	NA	404.13	0.00	404.13
MP-38 C	01/19/05	426.91	NA	25.43	NA	401.48	0.00	401.48
MP-39 A	01/20/05	432.09	NA	11.59	NA	420.50	0.00	420.50
MP-39 B	01/20/05	432.07	NA	13.14	NA	418.93	0.00	418.93
MP-39 C	01/20/05	432.07	30.31	30.88	401.76	401.19	0.57	401.63
MP-40 A	01/19/05	432.76	NA	9.90	NA	422.86	0.00	422.86
MP-40 B	01/19/05	432.78	NA	29.25	NA	403.53	0.00	403.53

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-40 C	01/19/05	431.00	NA	29.42	NA	401.58	0.00	401.58
MP-41 A	01/19/05	431.24	NA	DRY	NA	--	0.00	--
MP-41 B	01/19/05	431.23	NA	24.69	NA	406.54	0.00	406.54
MP-41 C	01/19/05	431.09	NA	29.43	NA	401.66	0.00	401.66
MP-42 A	01/18/05	430.21	NA	17.38	NA	412.83	0.00	412.83
MP-42 B	01/18/05	430.20	NA	23.72	NA	406.48	0.00	406.48
MP-42 C	01/18/05	430.32	28.84	29.01	401.48	401.31	0.17	401.44
MP-43 A	01/19/05	426.75	NA	DRY	NA	--	0.00	--
MP-43 B	01/19/05	426.72	NA	DRY	NA	--	0.00	--
MP-43 C	01/19/05	426.39	NA	24.68	NA	401.71	0.00	401.71
MP-44 A	01/17/05	430.64	NA	DRY	NA	--	0.00	--
MP-44 B	01/17/05	430.54	NA	DRY	NA	--	0.00	--
MP-44 C	01/17/05	430.54	NA	DRY	NA	--	0.00	--
MP-44 D	01/20/05	430.62	NA	28.78	NA	401.84	0.00	401.84
MP-45 A	01/17/05	430.04	NA	11.79	NA	418.25	0.00	418.25
MP-45 B	01/17/05	430.04	NA	DRY	NA	--	0.00	--
MP-45 C	01/17/05	429.93	NA	28.39	NA	401.54	0.00	401.54

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
MP-46 A	01/17/05	429.67	NA	DRY	NA	--	0.00	--
MP-46 B	01/17/05	429.65	NA	DRY	NA	--	0.00	--
MP-46 C	01/17/05	429.60	27.91	28.60	401.69	401.00	0.69	401.53
MP-47 A	01/20/05	429.12	NA	DRY	NA	--	0.00	--
MP-47 B	01/20/05	429.05	NA	23.04	NA	406.01	0.00	406.01
MP-47 C	01/20/05	429.01	26.65	28.70	402.36	400.31	2.05	401.89
MP-48 A	01/19/05	429.29	NA	DRY	NA	--	0.00	--
MP-48 B	01/19/05	429.29	NA	27.66	NA	401.63	0.00	401.63
MP-48 C	01/19/05	429.49	27.70	27.73	401.79	401.76	0.03	401.78
MP-49 A	01/19/05	432.81	NA	DRY	NA	--	0.00	--
MP-49 B	01/19/05	432.82	NA	19.73	NA	413.09	0.00	413.09
MP-49 C	01/19/05	431.03	29.50	29.65	401.53	401.38	0.15	401.50
MP-50 A	01/19/05	430.38	NA	11.94	NA	418.44	0.00	418.44
MP-50 B	01/19/05	430.21	NA	23.34	NA	406.87	0.00	406.87
MP-50 C	01/19/05	430.23	27.43	31.51	402.80	398.72	4.08	401.86
MP-51 A	01/19/05	430.90	NA	DRY	NA	--	0.00	--
MP-51 B	01/19/05	430.91	NA	12.98	NA	417.93	0.00	417.93

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
MP-51 C	01/19/05	430.93	NA	DRY	NA	--	0.00	--
MP-51 D	01/19/05	430.99	28.68	30.55	402.31	400.44	1.87	401.88
MP-52 A	01/19/05	429.96	NA	9.78	NA	420.18	0.00	420.18
MP-52 B	01/19/05	429.97	NA	21.16	NA	408.81	0.00	408.81
MP-52 C	01/19/05	429.99	NA	28.25	NA	401.74	0.00	401.74
MP-53 A	01/18/05	430.59	NA	DRY	NA	--	0.00	--
MP-53 B	01/18/05	430.60	NA	24.15	NA	406.45	0.00	406.45
MP-53 C	01/18/05	430.64	28.16	31.15	402.48	399.49	2.99	401.79
MP-54 A	01/20/05	430.00	NA	12.32	NA	417.68	0.00	417.68
MP-54 B	01/20/05	429.99	NA	DRY	NA	--	0.00	--
MP-54 C	01/20/05	430.06	27.68	27.95	402.38	402.11	0.27	402.32
MP-55 A	01/20/05	429.65	NA	DRY	NA	--	0.00	--
MP-55 B	01/20/05	429.65	NA	22.96	NA	406.69	0.00	406.69
MP-55 C	01/20/05	429.67	26.96	29.98	402.71	399.69	3.02	402.02
MP-56 A	01/19/05	430.25	NA	10.39	NA	419.86	0.00	419.86
MP-56 B	01/19/05	430.25	NA	23.87	NA	406.38	0.00	406.38
MP-56 C	01/19/05	430.15	26.89	31.75	403.26	398.40	4.86	402.14

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-57 A	01/18/05	429.05	NA	14.71	NA	414.34	0.00	414.34
MP-57 B	01/18/05	429.04	NA	24.11	NA	404.93	0.00	404.93
MP-57 C	01/18/05	428.99	27.18	27.89	401.81	401.10	0.71	401.65
MP-58 A	01/19/05	430.29	NA	DRY	NA	--	0.00	--
MP-58 B	01/19/05	430.29	NA	DRY	NA	--	0.00	--
MP-58 C	01/19/05	430.33	NA	28.17	NA	402.16	0.00	402.16
MP-59 A	01/19/05	429.97	NA	7.98	NA	421.99	0.00	421.99
MP-59 B	01/19/05	429.88	NA	17.80	NA	412.08	0.00	412.08
MP-59 C	01/19/05	429.90	NA	27.53	NA	402.37	0.00	402.37
MP-60 A	01/19/05	429.21	NA	6.92	NA	422.29	0.00	422.29
MP-60 B	01/19/05	429.20	NA	DRY	NA	--	0.00	--
MP-60 C	01/19/05	429.21	NA	27.12	NA	402.09	0.00	402.09
MP-61 A	01/19/05	429.98	NA	8.08	NA	421.90	0.00	421.90
MP-61 B	01/19/05	429.88	NA	DRY	NA	--	0.00	--
MP-61 C	01/19/05	430.00	NA	27.83	NA	402.17	0.00	402.17
MP-62 A	01/19/05	429.11	NA	7.10	NA	422.01	0.00	422.01
MP-62 B	01/19/05	429.11	NA	DRY	NA	--	0.00	--

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
MP-62 C	01/19/05	428.94	NA	26.45	NA	402.49	0.00	402.49
MP-63 A	01/19/05	429.26	NA	7.75	NA	421.51	0.00	421.51
MP-63 B	01/19/05	429.26	NA	DRY	NA	--	0.00	--
MP-63 C	01/19/05	429.29	NA	26.85	NA	402.44	0.00	402.44
MP-64 A	01/18/05	428.73	NA	8.76	NA	419.97	0.00	419.97
MP-64 B	01/18/05	428.74	NA	DRY	NA	--	0.00	--
MP-64 C	01/18/05	428.69	NA	26.64	NA	402.05	0.00	402.05
MP-65 A	01/19/05	431.41	NA	DRY	NA	--	0.00	--
MP-65 B	01/19/05	431.44	NA	DRY	NA	--	0.00	--
MP-65 C	01/19/05	431.54	NA	28.19	NA	403.35	0.00	403.35
MP-66 A	01/19/05	430.81	NA	DRY	NA	--	0.00	--
MP-66 B	01/19/05	430.82	NA	DRY	NA	--	0.00	--
MP-66 C	01/19/05	430.79	NA	28.10	NA	402.69	0.00	402.69
MP-67 A	01/19/05	430.29	NA	9.74	NA	420.55	0.00	420.55
MP-67 B	01/19/05	430.31	NA	25.28	NA	405.03	0.00	405.03
MP-67 C	01/19/05	430.19	NA	27.66	NA	402.53	0.00	402.53
MP-68 A	01/19/05	431.36	NA	DRY	--	--	0.00	--

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

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WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
MP-69 A	01/19/05	431.57	NA	DRY	--	--	0.00	--
MP-70 A	01/19/05	431.00	NA	15.85	NA	415.15	0.00	415.15
MP-71 A	01/19/05	430.14	NA	14.59	NA	415.55	0.00	415.55
MP-72 A	01/19/05	430.51	NA	15.67	NA	414.84	0.00	414.84
MP-73 A	01/19/05	430.96	NA	16.47	NA	414.49	0.00	414.49
MP-74 A	01/19/05	431.38	NA	17.44	NA	413.94	0.00	413.94
MP-75 A	01/19/05	430.66	NA	16.34	NA	414.32	0.00	414.32
MP-76 A	01/19/05	430.75	NA	16.83	NA	413.92	0.00	413.92

TABLE 1
2005 Groundwater Elevations/Apparent Product Thickness
Hartford, Illinois

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1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)

NOTES:

NA = Not Applicable
-- = No data
SG = Specific gravity of hydrocarbon determined to be an average of 0.77 in Hartford for data recorded during and after 09/03.
* Well contains product recovery pump
** Depth to water anomaly
*** Well contains air monitoring equipment
(T xx/xx/xxxx) = Date transducer installed in well; however, data may be from transducer or manual gauging.
[1] Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]
[2] HB-07 is obstructed at approximately 9 ft below top of casing (TOC); HB-27 is obstructed at approximately 14 ft below TOC.
[3] Located on private property. Access requires permission of owner; therefore, data may not be available for all gauging events.
[4] MiniTROLL (automatic well gauging probe) installed in HMW-27, however, data may be from miniTROLL or manual gauging.
MP-5 through 28 installed as vacuum monitoring probes by Clayton in 7/03 and are not appropriate for determining groundwater flow.
HMW-25 through HMW-29 installed by Clayton in 12/03.
HMW-30 through 33 and RW-4, RW-4A and RW-5 installed as pilot test wells by Clayton in Spring 2004 and are not appropriate for determining groundwater flow.
Remaining HMW-series and MP-series installed by Clayton during Summer 2004.
Remaining wells installed by others.
TOC elevations surveyed to USGS datum by CMT.

TABLE 2
2005 Groundwater Elevations/Apparent Product Thickness
Wells (Shell) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
P-47	01/20/05	428.20	--	--	--	--	--	--
P-51	01/20/05	426.62	--	--	--	--	--	--
P-76	01/20/05	433.28	NA	28.83	NA	404.45	0.00	404.45
P-77	01/20/05	434.57	NA	33.46	NA	401.11	0.00	401.11
P-78	01/20/05	433.29	NA	32.00	NA	401.29	0.00	401.29
P-79	01/20/05	432.65	NA	31.24	NA	401.41	0.00	401.41
P-80	01/21/05	433.04	NA	31.46	NA	401.58	0.00	401.58
P-81	01/21/05	433.20	27.54	27.57	405.66	405.63	0.03	405.65
P-104	01/20/05	432.67	NA	3.2	NA	429.47	0.00	429.47
P-105	01/20/05	432.54	NA	27.87	NA	404.67	0.00	404.67
P-106	01/20/05	432.64	NA	31.07	NA	401.57	0.00	401.57
P-107	01/20/05	431.83	NA	22.31	NA	409.52	0.00	409.52
P-129	01/20/05	433.23	--	--	--	--	--	--
P-130	01/20/05	431.67	--	--	--	--	--	--
P-131	01/20/05	432.54	NA	4.08	NA	428.46	0.00	428.46
P-132	01/20/05	432.08	NA	22.1	NA	409.98	0.00	409.98
P-133	01/20/05	430.94	NA	9.74	NA	421.20	0.00	421.20

TABLE 2
2005 Groundwater Elevations/Apparent Product Thickness
Wells (Shell) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
P-134	01/20/05	432.46	NA	4.83	NA	427.63	0.00	427.63
SP-1	01/20/05	429.00	NA	4.96	NA	424.04	0.00	424.04
SP-2B	01/20/05	429.10	NA	20.04	NA	409.06	0.00	409.06
SP-3	01/20/05	--	NA	7.79	--	--	0.00	--
SP-5	01/20/05	431.22	NA	5.43	NA	425.79	0.00	425.79
SP-6	01/20/05	433.03	NA	7.00	NA	426.03	0.00	426.03
SP-7	01/20/05	428.99	NA	4.71	NA	424.28	0.00	424.28
SP-8	01/20/05	429.03	NA	4.4	NA	424.63	0.00	424.63
SP-9	01/20/05	432.62	NA	6.27	NA	426.35	0.00	426.35
SP-10	01/20/05	432.59	NA	4.41	NA	428.18	0.00	428.18
SP-11	01/20/05	432.41	NA	5.73	NA	426.68	0.00	426.68
SP-12	01/20/05	432.35	NA	23.37	NA	408.98	0.00	408.98
SP-13	01/20/05	432.48	NA	30.19	NA	402.29	0.00	402.29
SP-14	01/20/05	428.92	NA	22.65	NA	406.27	0.00	406.27
SP-15	01/20/05	428.69	NA	5.07	NA	423.62	0.00	423.62
SP-16	01/20/05	429.38	NA	4.96	NA	424.42	0.00	424.42
SP-17	01/20/05	428.19	--	--	--	--	--	--

TABLE 2
2005 Groundwater Elevations/Apparent Product Thickness
Wells (Shell) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
SP-18	01/20/05	431.07	NA	26.15	NA	404.92	0.00	404.92
SP-19	01/20/05	430.89	NA	10.49	NA	420.40	0.00	420.40
SP-20	01/20/05	431.10	NA	7.16	NA	423.94	0.00	423.94
SP-21	01/20/05	431.65	NA	8.68	NA	422.97	0.00	422.97
SP-22	01/20/05	430.36	NA	5.74	NA	424.62	0.00	424.62
SP-23	01/20/05	430.67	NA	5.47	NA	425.20	0.00	425.20
SP-24	01/20/05	428.86	NA	4.54	NA	424.32	0.00	424.32
SP-25	01/20/05	428.61	NA	4.33	NA	424.28	0.00	424.28
SP-26	01/20/05	429.84	NA	5.65	NA	424.19	0.00	424.19
SP-27	01/20/05	431.90	NA	7.9	NA	424.00	0.00	424.00
SP-28	01/20/05	432.19	NA	8.70	NA	423.49	0.00	423.49
SP-29	01/20/05	431.78	NA	7.27	NA	424.51	0.00	424.51
SP-30	01/20/05	431.83	NA	7.76	NA	424.07	0.00	424.07
SP-31	01/20/05	429.77	NA	6.05	NA	423.72	0.00	423.72
SP-32	01/20/05	430.42	NA	6.76	NA	423.66	0.00	423.66
SP-33	01/20/05	430.95	NA	6.61	NA	424.34	0.00	424.34
SP-34	01/20/05	430.12	NA	6.86	NA	423.26	0.00	423.26

TABLE 2
2005 Groundwater Elevations/Apparent Product Thickness
Wells (Shell) Outside of Hartford, Illinois

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
SP-35	01/20/05	431.13	NA	6.85	NA	424.28	0.00	424.28
SP-36	01/20/05	429.41	NA	28.63	NA	400.78	0.00	400.78
SP-37	01/20/05	429.58	NA	14.76	NA	414.82	0.00	414.82
SP-38	01/20/05	430.84	NA	12.32	NA	418.52	0.00	418.52
SP-39	01/20/05	431.92	NA	4.35	NA	427.57	0.00	427.57
SP-40	01/20/05	431.78	NA	22.20	NA	409.58	0.00	409.58
SP-41	01/20/05	431.45	NA	31.04	NA	400.41	0.00	400.41
SP-42	01/20/05	431.71	NA	30.90	NA	400.81	0.00	400.81
SP-43	01/20/05	431.74	NA	18.03	NA	413.71	0.00	413.71
SP-44	01/20/05	431.83	NA	8.28	NA	423.55	0.00	423.55

NOTES:

NA = Not Applicable
SG = Specific gravity of hydrocarbon assumed to be 0.74 by others.
-- = No data
** Depth to water anomaly
[1] Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]
(T xx/xx/xxxx) = Date transducer installed in well; however, data may be from transducer or manual gauging.
Well SP-4 no longer exists.
TOC elevations (except for SP-42, SP-43, SP-44) have been rotated and adjusted to match USGS datum (datum used to survey Village wells). This rotation and adjustment of original survey data (obtained in 7/01 by CMT, Inc.) was completed in 1/04 by CMT. TOC elevations for SP-42, SP-43, and SP-44 were surveyed to USGS datum in 12/03 by CMT.

TABLE 3
2005 Groundwater Elevations/Apparent Product Thickness
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-1	01/20/05	430.28	NA	26.90	NA	403.38	0.00	403.38
TH2-88 @P7 Well	01/21/05	430.88	NA	28.93	NA	401.95	0.00	401.95
RB-08P Recovery Well	01/21/05	433.41	28.99	30.67	404.42	402.74	1.68	404.05
RB-08 2" piezometer	01/21/05	--	NA	22.27	--	--	0.00	--
RB-10*	01/21/05	430.32	28.31	30.83	402.01	399.49	2.52	401.46
RB-13	01/21/05	430.79	NA	28.23	NA	402.56	0.00	402.56
RB-22	01/21/05	431.06	NA	29.06	NA	402.00	0.00	402.00
RB-25	01/20/05	432.10	NA	30.58	NA	401.52	0.00	401.52
RB-26	01/21/05	430.05	NA	28.88	NA	401.17	0.00	401.17
RB-29	01/20/05	431.97	12.02	12.09	419.95	419.88	0.07	419.93
RB-30	01/21/05	431.94	NA	30.44	NA	401.50	0.00	401.50
RB-35	01/21/05	429.49	25.67	29.88	403.82	399.61	4.21	402.89
RB-36	01/20/05	429.21	NA	21.55	NA	407.66	0.00	407.66
RB-37*	01/20/05	428.52	25.95	32.31	402.57	396.21	6.36	401.17
RB-38	01/20/05	433.73	NA	33.11	NA	400.62	0.00	400.62
RB-39	01/20/05	431.54	NA	20.75	NA	410.79	0.00	410.79
RB-40	01/20/05	433.51	NA	32.83	NA	400.68	0.00	400.68

TABLE 3
2005 Groundwater Elevations/Apparent Product Thickness
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RB-41	01/20/05	433.25	NA	32.79	NA	400.46	0.00	400.46
RB-42	01/20/05	428.47	NA	27.70	NA	400.77	0.00	400.77
RB-43	01/20/05	427.99	NA	24.70	NA	403.29	0.00	403.29
RB-44	01/20/05	432.99	NA	29.44	NA	403.55	0.00	403.55
RB-45	01/20/05	431.95	NA	28.73	NA	403.22	0.00	403.22
RB-46	01/21/05	430.61	NA	28.63	NA	401.98	0.00	401.98
RB-47	01/21/05	431.05	NA	29.33	NA	401.72	0.00	401.72
RB-48*	01/21/05	431.36	27.48	28.55	403.88	402.81	1.07	403.64
RB-49	01/21/05	429.32	NA	2.13	NA	427.19	0.00	427.19
RB-50	01/21/05	431.47	NA	3.37	NA	428.10	0.00	428.10
RB-51	01/21/05	431.54	NA	27.31	NA	404.23	0.00	404.23
RB-52*	01/21/05	431.97	29.44	29.91	402.53	402.06	0.47	402.43
RB-53*	01/20/05	433.31	NA	29.77	NA	403.54	0.00	403.54
RB-54	01/20/05	431.79	NA	20.83	NA	410.96	0.00	410.96
RB-55*	01/21/05	433.82	28.42	37.09	405.4	396.73	8.67	403.49
RB-56*	01/21/05	431.89	29.76	32.57	402.13	399.32	2.81	401.51
GB-1	01/20/05	431.59	NA	27.61	NA	403.98	0.00	403.98

TABLE 3
2005 Groundwater Elevations/Apparent Product Thickness
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
GB-6	01/20/05	430.53	NA	28.64	NA	401.89	0.00	401.89
LP-4	01/20/05	432.55	NA	30.29	NA	402.26	0.00	402.26
T-1*	01/21/05	431.44	27.3	28.50	404.14	402.94	1.20	403.88
MP-1S	01/20/05	431.37	NA	23.85	NA	407.52	0.00	407.52
MP-1D	01/20/05	431.04	NA	26.91	NA	404.13	0.00	404.13
MP-2S	01/20/05	430.66	NA	26.86	NA	403.80	0.00	403.80
MP-2D	01/20/05	430.27	NA	27.54	NA	402.73	0.00	402.73
MP-3S	01/20/05	430.59	NA	16.85	NA	413.74	0.00	413.74
MP-3D	01/20/05	430.51	NA	26.03	NA	404.48	0.00	404.48
MP-4S	01/20/05	430.42	NA	26.43	NA	403.99	0.00	403.99
MP-4D	01/20/05	430.42	26.96	26.99	403.46	403.43	0.03	403.45
SVE-1S	01/20/05	431.11	NA	26.30	NA	404.81	0.00	404.81
SVE-1D*	01/20/05	430.66	NA	26.69	NA	403.97	0.00	403.97
Product Pipeline Sump	01/21/05	--	NA	8.41	--	--	0.00	--
RMW-1A	01/20/05	429.79	NA	10.14	NA	419.65	0.00	419.65
RMW-1B	01/20/05	429.73	NA	26.11	NA	403.62	0.00	403.62
RMW-1C	01/20/05	429.48	25.64	33.76	403.84	395.72	8.12	402.05

TABLE 3
2005 Groundwater Elevations/Apparent Product Thickness
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-2A	01/20/05	433.61	NA	21.83	NA	411.78	0.00	411.78
RMW-2B	01/20/05	433.61	NA	26.10	NA	407.51	0.00	407.51
RMW-2C	01/20/05	433.32	NA	31.29	NA	402.03	0.00	402.03
RMW-3A	01/20/05	434.06	NA	21.61	NA	412.45	0.00	412.45
RMW-3B (T)	01/20/05	433.97	30.02	35.11	403.95	398.86	5.09	402.83
RMW-4A	01/20/05	433.09	NA	17.21	NA	415.88	0.00	415.88
RMW-4B	01/20/05	433.14	NA	28.09	NA	405.05	0.00	405.05
RMW-4C (T)	01/20/05	433.17	NA	31.74	NA	401.43	0.00	401.43
RMW-5A	01/20/05	431.85	NA	6.43	NA	425.42	0.00	425.42
RMW-5B (T 1/7/05)	01/20/05	432.03	NA	21.42	NA	410.61	0.00	410.61
RMW-5C (T 1/10/05)	01/20/05	432.01	NA	30.66	NA	401.35	0.00	401.35
RMW-6A	01/20/05	430.49	NA	17.94	NA	412.55	0.00	412.55
RMW-6B	01/20/05	430.48	NA	17.46	NA	413.02	0.00	413.02
RMW-6C	01/20/05	430.47	NA	25.86	NA	404.61	0.00	404.61
RMW-6D	01/20/05	430.51	NA	29.17	NA	401.34	0.00	401.34
RMW-7A	01/20/05	429.11	NA	16.96	NA	412.15	0.00	412.15
RMW-7B	01/20/05	429.21	NA	19.95	NA	409.26	0.00	409.26

TABLE 3
2005 Groundwater Elevations/Apparent Product Thickness
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RMW-7C	01/20/05	429.35	26.86	33.28	402.49	396.07	6.42	401.08
RMW-8A	01/20/05	432.52	NA	31.97	NA	400.55	0.00	400.55
RMW-8B	01/20/05	432.49	NA	31.73	NA	400.76	0.00	400.76
RMW-9A	01/20/05	430.71	NA	9.51	NA	421.20	0.00	421.20
RMW-9B	01/20/05	430.67	NA	29.45	NA	401.22	0.00	401.22
RMW-10A	01/20/05	430.55	NA	11.72	NA	418.83	0.00	418.83
RMW-10B	01/20/05	430.80	NA	29.01	NA	401.79	0.00	401.79
RMW-11A (T 1/21/05)	01/20/05	429.70	NA	14.70	NA	415.00	0.00	415.00
RMW-11B (T 1/21/05)	01/20/05	429.88	NA	22.91	NA	406.97	0.00	406.97
RMW-11C (T 1/21/05)	01/20/05	430.27	28.33	30.45	401.94	399.82	2.12	401.47
RMW-12A	01/21/05	432.43	NA	11.83	NA	420.60	0.00	420.60
RMW-12B	01/21/05	432.57	NA	29.50	NA	403.07	0.00	403.07
RMW-12C	01/21/05	432.25	NA	30.96	NA	401.29	0.00	401.29
RMW-13A	01/20/05	429.26	NA	7.87	NA	421.39	0.00	421.39
RMW-13B	01/20/05	429.25	NA	19.24	NA	410.01	0.00	410.01
RMW-13C	01/20/05	429.06	NA	27.33	NA	401.73	0.00	401.73
RMW-14A	01/20/05	433.12	NA	20.61	NA	412.51	0.00	412.51

TABLE 3
2005 Groundwater Elevations/Apparent Product Thickness
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation (ft)
RMW-14B	01/20/05	433.14	NA	20.61	NA	412.53	0.00	412.53
RMW-14C	01/20/05	433.10	NA	31.54	NA	401.56	0.00	401.56
RMW-15A	01/20/05	433.04	16.36	16.44	416.68	416.60	0.08	416.66
RMW-15B	01/20/05	433.04	NA	16.45	NA	416.59	0.00	416.59
RMW-15C	01/20/05	433.04	28.61	40.64	404.43	392.40	12.03	401.78
RMW-16A	01/20/05	430.07	NA	27.38	NA	402.69	0.00	402.69
RMW-16B	01/20/05	430.12	NA	27.52	NA	402.60	0.00	402.60
RMW-17A	01/20/05	431.81	NA	28.68	NA	403.13	0.00	403.13
RMW-17B	01/20/05	431.76	NA	28.65	NA	403.11	0.00	403.11
RMW-18A	01/21/05	429.54	NA	24.96	NA	404.58	0.00	404.58
RMW-18B	01/21/05	429.42	NA	27.73	NA	401.69	0.00	401.69
RMW-19A	01/21/05	431.33	NA	28.51	NA	402.82	0.00	402.82
RMW-19B	01/21/05	431.71	NA	28.80	NA	402.91	0.00	402.91
RMW-20A	01/19/05	431.56	28.36	30.44	403.20	401.12	2.08	402.74
RMW-20B	01/19/05	431.56	28.20	30.67	403.36	400.89	2.47	402.82
RMW-21A	01/21/05	432.15	28.46	29.19	403.69	402.96	0.73	403.53
RMW-21B	01/21/05	432.10	28.39	29.05	403.71	403.05	0.66	403.56

TABLE 3
2005 Groundwater Elevations/Apparent Product Thickness
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RMW-22A	01/21/05	430.84	NA	26.42	NA	404.42	0.00	404.42
RMW-22B	01/21/05	430.76	NA	26.81	NA	403.95	0.00	403.95
RMW-23A (T 1/7/05)	01/21/05	430.45	NA	26.27	NA	404.18	0.00	404.18
RMW-24A	01/20/05	433.25	NA	22.44	NA	410.81	0.00	410.81
RMW-24B	01/20/05	433.24	NA	28.68	NA	404.56	0.00	404.56
RMW-24C (T 11/19/04)	01/20/05	433.24	29.92	36.76	403.32	396.48	6.84	401.82
RMW-25A (T)	01/19/05	433.51	NA	30.12	NA	403.39	0.00	403.39
RMW-25B (T 11/19/04)	01/19/05	433.58	NA	31.44	NA	402.14	0.00	402.14
RMW-26A	01/20/05	432.69	NA	DRY	NA	--	0.00	--
RMW-26B	01/20/05	433.01	NA	21.32	NA	411.69	0.00	411.69
RMW-26C (T)	01/20/05	432.79	NA	28.63	NA	404.16	0.00	404.16
RMW-26D (T)	01/20/05	432.43	NA	30.75	NA	401.68	0.00	401.68
RMW-27A	01/21/05	429.81	NA	25.30	NA	404.51	0.00	404.51
RMW-27B	01/21/05	429.81	NA	28.37	NA	401.44	0.00	401.44
RMW-28A	01/21/05	432.42	NA	27.37	NA	405.05	0.00	405.05
RMW-28B	01/21/05	432.42	30.84	32.67	401.58	399.75	1.83	401.18
RMW-28C (T 1/7/05)	01/21/05	432.54	NA	31.87	NA	400.67	0.00	400.67

TABLE 3
2005 Groundwater Elevations/Apparent Product Thickness
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RMW-29A	01/19/05	432.65	NA	32.14	NA	400.51	0.00	400.51
RMW-30A	01/19/05	428.96	NA	25.71	NA	403.25	0.00	403.25
RMW-30B	01/19/05	428.89	NA	28.38	NA	400.51	0.00	400.51
RMW-31A	01/19/05	433.27	NA	28.66	NA	404.61	0.00	404.61
RMW-31B	01/20/05	433.32	33.05	36.18	400.27	397.14	3.13	399.58
RMW-32A	01/20/05	429.52	NA	DRY	NA	--	0.00	--
RMW-32B	01/20/05	429.37	29.30	32.81	400.07	396.56	3.51	399.30
RMW-33A	01/20/05	434.59	NA	16.97	NA	417.62	0.00	417.62
RMW-33B	01/20/05	434.51	NA	17.32	NA	417.19	0.00	417.19
RMW-33C	01/20/05	434.59	NA	29.10	NA	405.49	0.00	405.49
RMW-33D (T)	01/20/05	434.64	NA	32.89	NA	401.75	0.00	401.75
RMW-34A	01/20/05	432.24	NA	9.62	NA	422.62	0.00	422.62
RMW-34B (T 1/7/05)	01/20/05	432.04	NA	27.40	NA	404.64	0.00	404.64
RMW-34C (T 1/7/05)	01/20/05	432.16	NA	30.66	NA	401.50	0.00	401.50
RMW-35A	01/20/05	432.09	NA	9.03	NA	423.06	0.00	423.06
RMW-35B	01/20/05	432.39	NA	23.84	NA	408.55	0.00	408.55
RMW-35C	01/20/05	432.15	NA	30.76	NA	401.39	0.00	401.39

TABLE 3
2005 Groundwater Elevations/Apparent Product Thickness
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)
RMW-36A	01/20/05	431.64	NA	20.26	NA	411.38	0.00	411.38
RMW-36B	01/20/05	431.46	NA	23.01	NA	408.45	0.00	408.45
RMW-36C	01/20/05	431.76	NA	30.52	NA	401.24	0.00	401.24
RMW-37A	01/17/05	433.60	NA	17.94	NA	415.66	0.00	415.66
RMW-37B	01/17/05	434.25	NA	32.53	NA	401.72	0.00	401.72
RMW-38A (T)	01/20/05	433.00	28.81	46.67	404.19	386.33	17.86	400.26
MW-1	01/21/05	420.50	NA	13.68	NA	406.82	0.00	406.82
MW-2	01/21/05	419.58	NA	14.19	NA	405.39	0.00	405.39
MW-3	01/21/05	421.43	NA	15.99	NA	405.44	0.00	405.44
MW-4	01/21/05	421.42	NA	15.83	NA	405.59	0.00	405.59

TABLE 3
2005 Groundwater Elevations/Apparent Product Thickness
Premcor Facility

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

WELL	DATE	(A) Top of Casing Elevation (ft)	(B) Depth to Hydrocarbon (ft)	(C) Depth to Water (ft)	(A)-(B) Hydrocarbon Surface Elevation (ft)	(A)-(C) Water Surface Elevation (ft)	(C)-(B) Hydrocarbon Thickness (ft)	Piezometric Surface Elevation[1] (ft)

NOTES:
NA = Not Applicable
-- = No data
(T xx/xx/xxxx) = Date transducer installed in well; however, data may be from transducer or manual gauging.
[1] Piezometric surface elevation = [(A)-(C)]+S.G.[(C)-(B)]
* Well contains product recovery pump.
** Depth to water anomaly
SG = Specific gravity of hydrocarbon determined to be an average of 0.78 on the Premcor facility for data recorded during and after 9/03.
MP- and SVE-series installed by Clayton in 6/03. MP-series installed as vacuum monitoring probes. SVE-series installed as soil vapor extraction wells. MP- and SVE-series not appropriate for determining groundwater flow.
RMW-series installed by Clayton during Fall 2004.
Remaining wells installed by others including the MW-series located at the Premcor River Dock.
All TOC elevations surveyed to USGS datum by CMT in 12/04 through 1/05.
TOC elevations, prior to 12/04, were rotated and adjusted to match USGS datum (datum used to survey Village wells). This rotation and adjustment of original survey data (obtained in 6/02 by CMT, Inc.) was completed in 1/04 by CMT. No survey data existed prior to 12/04 for the MP- and SVE-series, and RB-13, T-1, TH2-88@P7 well and RB-08 (recovery well) wells

TABLE 4
Compound/Analyte List for Water Samples - VOCs
Village of Hartford

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

PARAMETER	PREPARATION METHOD		ANALYTICAL METHOD		COMPOUND	METHOD DETECTION LIMIT *	PRACTICAL QUANTITATION LIMIT *	ACCEPTABLE DETECTION LIMIT **
	Source	Method No.	Source	Method No.				
VOCs						(µg/L)	(µg/L)	(µg/L)
	SW-846	5030	SW-846	8260	Benzene	0.5	2	5
	SW-846	5030	SW-846	8260	Carbon disulfide	1	5	700
	SW-846	5030	SW-846	8260	Chlorobenzene	1	5	100
	SW-846	5030	SW-846	8260	Chloroform	1	5	0.2
	SW-846	5030	SW-846	8260	1,2-Dibromoethane or Ethylene dibromide (EDB)	1	5	0.05
	SW-846	5030	SW-846	8260	1,2-Dichlorobenzene	1	5	600
	SW-846	5030	SW-846	8260	1,3-Dichlorobenzene	1	5	NA
	SW-846	5030	SW-846	8260	1,4-Dichlorobenzene	1	5	75
	SW-846	5030	SW-846	8260	1,1-Dichloroethane	1	5	700
	SW-846	5030	SW-846	8260	1,2-Dichloroethane	1	5	5
	SW-846	5030	SW-846	8260	Ethylbenzene	1	5	700
	SW-846	5030	SW-846	8260	Methyl ethyl ketone (MEK) or 2-Butanone	5	50	NA
	SW-846	5030	SW-846	8260	Methyl tertiary butyl ether (MTBE)	0.5	2	70
	SW-846	5030	SW-846	8260	Styrene	1	5	100
	SW-846	5030	SW-846	8260	1,1,1-Trichloroethane	1	5	200
	SW-846	5030	SW-846	8260	Tetrachloroethene	1	5	5
	SW-846	5030	SW-846	8260	Toluene	1	5	1,000
	SW-846	5030	SW-846	8260	Trichloroethene	1	5	5
	SW-846	5030	SW-846	8260	o, m, p-Xylenes (total)	1	5	10,000
	SW-846	3510	SW-846	8015	1,4-Dioxane	250	500	NA

NOTES:
µg/L = Micrograms per liter
NA = Not available
* Method detection limit and practical quantitation limit as identified by Teklab, Inc. (Ottensmeier, 2004).
** Acceptable detection limit is the IPCB TACO Tier 1 Groundwater Remediation Objective for Class I Groundwater.

TABLE 4
Compound/Analyte List for Water Samples - SVOCs
Village of Hartford

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

PARAMETER	PREPARATION METHOD		ANALYTICAL METHOD		COMPOUND	METHOD DETECTION LIMIT *	PRACTICAL QUANTITATION LIMIT *	ACCEPTABLE DETECTION LIMIT **
	Source	Method No.	Source	Method No.				
SVOCs						(mg/L)	(mg/L)	(mg/L)
	SW-846	3510	SW-846	8310	Acenaphthene	0.002	0.005	0.42
	SW-846	3510	SW-846	8310	Anthracene	0.0001	0.005	2.1
	SW-846	3510	SW-846	8310	Benzo(a)anthracene	0.00005	0.0001	0.00013
	SW-846	3510	SW-846	8310	Benzo(b)fluoranthene	0.0001	0.00018	0.00018
	SW-846	3510	SW-846	8310	Benzo(k)fluoranthene	0.0001	0.00017	0.00017
	SW-846	3510	SW-846	8310	Benzo(a)pyrene	0.0001	0.0002	0.0002
	SW-846	3510	SW-846	8270	Bis(2-ethylhexyl)phthalate	0.004	0.006	0.006
	SW-846	3510	SW-846	8310	Chrysene	0.0003	0.0008	0.0015
	SW-846	3510	SW-846	8270	o-Cresol	0.001	0.01	0.35
	SW-846	3510	SW-846	8270	m-Cresol	0.001	0.01	NA
	SW-846	3510	SW-846	8270	p-Cresol	0.001	0.01	NA
	SW-846	3510	SW-846	8270	Di-n-butyl phthalate	0.003	0.01	0.7
	SW-846	3510	SW-846	8310	Dibenzo(a,h)anthracene	0.0002	0.0003	0.0003
	SW-846	3510	SW-846	8270	Diethyl phthalate	0.002	0.01	5.6
	SW-846	3510	SW-846	8270	2,4-Dimethylphenol	0.001	0.01	0.14
	SW-846	3510	SW-846	8270	Dimethyl phthalate	0.001	0.01	NA
	SW-846	3510	SW-846	8270	2,4-Dinitrophenol	0.001	0.02	0.014
	SW-846	3510	SW-846	8310	Fluoranthene	0.0005	0.002	0.28
	SW-846	3510	SW-846	8310	Fluorene	0.0004	0.001	0.28
	SW-846	3510	SW-846	8310	Indeno(1,2,3-cd)pyrene	0.0001	0.0004	0.00043
	SW-846	3510	SW-846	8310	Napthalene	0.002	0.005	0.14
	SW-846	3510	SW-846	8270	4-Nitrophenol	0.001	0.02	NA
	SW-846	3510	SW-846	8310	Phenanthrene	0.0005	0.005	NA
	SW-846	3510	SW-846	8270	Phenol	0.001	0.005	0.1
	SW-846	3510	SW-846	8310	Pyrene	0.0001	0.002	0.21
	SW-846	3510	SW-846	8270	Pyridine	0.005	0.02	NA
	SW-846	3510	SW-846	8270	Quinoline	0.001	0.005	NA

NOTES:
mg/L = Milligrams per liter
µg/L = Micrograms per liter
NA = Not available
(L) = This is the lowest limit able to be achieved by current methodologies.
* Method detection limit and practical quantitation limit as identified by Teklab, Inc. (Ottensmeier, 2004).
** Acceptable detection limit is the IPCB TACO Tier 1 Groundwater Remediation Objective for Class I Groundwater.
2,4-Dinitrophenol and 4-Nitrophenol PQL revised per Teklab (Klostermann, 2005)

TABLE 4
Compound/Analyte List for Water Samples - Inorganics
Village of Hartford

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR 000128249

PARAMETER	PREPARATION METHOD		ANALYTICAL METHOD		COMPOUND	METHOD DETECTION LIMIT *	PRACTICAL QUANTITATION LIMIT *	ACCEPTABLE DETECTION LIMIT **
	Source	Method No.	Source	Method No.				
Metals						(mg/L)	(mg/L)	(mg/L)
	SW-846	3020A	SW-846	7041	Antimony	0.0017	0.005	0.006
	SW-846	3020A	SW-846	7060A	Arsenic	0.0007	0.003	0.05
	SW-846	3005A	SW-846	6010	Barium	0.0024	0.005	2
	SW-846	3005A	SW-846	6010	Beryllium	0.003	0.001	0.004
	SW-846	3005A	SW-846	6010	Cadmium	0.0003	0.002	0.005
	SW-846	3005A	SW-846	6010	Chromium-Total	0.004	0.01	0.1
	SW-846	3005A	SW-846	6010	Cobalt	0.0022	0.01	1
	SW-846	3020A	SW-846	7421	Lead	0.0004	0.002	0.0075
	--	--	SW-846	7470	Mercury	0.00005	0.0002	0.002
	SW-846	3005A	SW-846	6010	Nickel	0.0033	0.01	0.1
	SW-846	3020A	SW-846	7740	Selenium	0.0035	0.006	0.05
	SW-846	3005A	SW-846	6010	Silver	0.0032	0.01	0.05
	SW-846	3005A	SW-846	6010	Vanadium	0.0032	0.01	0.049
	SW-846	3005A	SW-846	6010	Zinc	0.0021	0.01	5
General						(mg/L)	(mg/L)	(mg/L)
	--	--	SW-846	9040-B	pH	0	1	NA
	--	--	Standard Method	M2320B	Alkalinity, Total (as, Ca, CO_3)	0	0	NA
	--	--	SW-846	9251.0	Chloride	0.5	1	200
	--	--	Standard Method	M5220D	COD	7.3	20	NA
	--	--	SW-846	9012A	Cyanide Total	0.0026	0.007	0.2
	--	--	Standard Method	M2340C	Hardness (as, Ca, CO_3)	3	5	NA
	--	--	SW-846	9036.0	Sulfate	1.5	5	400
	--	--	Standard Method	M4500SD	Sulfide	0.013	0.50	NA
	--	--	Standard Method	M2540C	Total Dissolved Solids	10	20	NA
	--	--	Standard Method	M2540D	Total Suspended Solids	5	6	NA

NOTES:
mg/L = Milligrams per liter [except for pH (unitless)].
NA = Not available
-- = Not applicable
* Method detection limit and practical quantitation limit as identified by Teklab, Inc. (Ottensmeier, 2004).
** Acceptable detection limit is the IPCB TACO Tier 1 Groundwater Remediation Objective for Class I Groundwater.

TABLE 5
Sample Container, Preservation, and Holding Time Requirements For
Water Samples

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

PARAMETER	ANALYSIS	HOLDING TIME	CONTAINER	PRESERVATION
Organics	VOCs	14 days	3-40 ml VOC vials	HCl to pH < 2, no headspace Maintained at 4 + 2 degrees Celcius
	Total Petroleum Hydrocarbons as *Gasoline Range Organics*	14 days		
	1,4-Dioxane	7 days	3-40 ml VOC vials	Unpreserved, no headspace Maintained at 4 + 2 degrees Celcius
	SVOCs	7 days	2 L amber glass jars	Unpreserved Maintained at 4 + 2 degrees Celcius
	Total Petroleum Hydrocarbons as Diesel Range Organics	7 days	1 L amber glass jar	Unpreserved Maintained at 4 + 2 degrees Celcius
Metals	Inorganic Metals	180 days	250 ml plastic jar	HNO_3 to pH<2 Maintained at 4 + 2 degrees Celcius
	Mercury	28 days		
General	pH	24 hours	1 L plastic jar	Unpreserved Maintained at 4 + 2 degrees Celcius
	Alkalinity	14 days		
	Chloride	28 days		
	Sulfate	28 days		
	Hardness	7 days		
	Total Dissolved Solids (TDS)	7 days		
	Total Suspended Solids (TSS)	7 days		
	Total Cyanide	14 days	500 ml plastic jar	NaOH to pH>12 Maintained at 4 + 2 degrees Celcius
	Chemical Oxygen Demand (COD)	28 days	125 ml plastic jar	H_2SO_4 to pH<2 Maintained at 4 + 2 degrees Celcius
	Sulfide, Total	7 days	250 ml plastic jar	NaOH and ZnAcetate to pH>9 Maintained at 4 + 2 degrees Celcius

TABLE 6
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - VOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25 12/16/2003 Primary	HMW-25 HMW-25/040422 04/22/2004 Primary	HMW-25 HMW-25/040707 07/07/2004 Primary	HMW-25 DUP-001/040707 07/07/2004 Duplicate ↑	HMW-25 HMW-25/041019 10/19/2004 Primary
1,1,1-Trichloroethane	(ug/l)	200	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	(ug/l)	0.050	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
1,2-Dichlorobenzene	(ug/l)	600	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	(ug/l)		<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	(ug/l)	75	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone	(ug/l)		<50.0	<50.0	<25.0	<25.0	<25.0
Benzene	(ug/l)	5.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	(ug/l)	100	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	(ug/l)	0.20	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
Ethylbenzene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	(ug/l)	70	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	(ug/l)	100	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	1.4J
Toluene	(ug/l)	1000	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	(ug/l)		<500	<500	<500	<500	<500

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 6
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - VOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25/050121 01/21/2005 Primary	HMW-25 Dup-001/050121 01/21/2005 Duplicate 1	HMW-25 HMW-25/050203 02/03/2005 Primary	HMW-25 HMW-25/050302 03/02/2005 Primary	HMW-25 HMW-25/050302 03/02/2005 Primary
1,1,1-Trichloroethane	(ug/l)	200	<5.0	<5.0	NA	NA	NA
1,1-Dichloroethane	(ug/l)	700	<5.0	<5.0	NA	NA	NA
1,2-Dibromoethane	(ug/l)	0.050	**<5.0**	**<5.0**	NA	NA	NA
1,2-Dichlorobenzene	(ug/l)	600	<5.0	<5.0	NA	NA	NA
1,2-Dichloroethane	(ug/l)	5.0	<5.0	<5.0	NA	NA	NA
1,3-Dichlorobenzene	(ug/l)		<5.0	<5.0	NA	NA	NA
1,4-Dichlorobenzene	(ug/l)	75	<5.0	<5.0	NA	NA	NA
2-Butanone	(ug/l)		<25.0	<25.0	NA	NA	NA
Benzene	(ug/l)	5.0	0.6J	0.6J	0.5J	<2.0	<5.0
Carbon disulfide	(ug/l)	700	<5.0	<5.0	NA	NA	NA
Chlorobenzene	(ug/l)	100	<5.0	<5.0	NA	NA	NA
Chloroform	(ug/l)	0.20	**<5.0**	**<5.0**	NA	NA	NA
Ethylbenzene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	(ug/l)	70	<2.0	<2.0	NA	NA	NA
Styrene	(ug/l)	100	<5.0	<5.0	NA	NA	NA
Tetrachloroethene	(ug/l)	5.0	<5.0	<5.0	NA	NA	NA
Toluene	(ug/l)	1000	2.7J	2.4J	<5.0	<5.0	<5.0
Trichloroethene	(ug/l)	5.0	<5.0	<5.0	NA	NA	NA
Xylene (total)	(ug/l)	10000	4.1J	3.9J	<5.0	<5.0	<5.0
1,4-Dioxane	(ug/l)		<500	<500	NA	NA	NA

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 6
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - VOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-26 HWM-26 12/16/2003 Primary	HMW-26 HMW-26/040422 04/22/2004 Primary	HMW-26 HMW-26/040707 07/07/2004 Primary	HMW-26 HMW-26/041020 10/20/2004 Primary	HMW-26 Dup-001/041020 10/20/2004 Duplicate 1
1,1,1-Trichloroethane	(ug/l)	200	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	(ug/l)	0.050	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
1,2-Dichlorobenzene	(ug/l)	600	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	(ug/l)		<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	(ug/l)	75	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone	(ug/l)		<50.0	<50.0	<25.0	<25.0	<25.0
Benzene	(ug/l)	5.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	(ug/l)	100	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	(ug/l)	0.20	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
Ethylbenzene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	(ug/l)	70	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	(ug/l)	100	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	(ug/l)	1000	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	(ug/l)		<500	<500	<500	<500	<500

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 6
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - VOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-26 HMW-26/050121 01/21/2005 Primary	HMW-27 HMW-27 12/16/2003 Primary	HMW-27 HMW-27/040422 04/22/2004 Primary	HMW-27 DUP-01/040422 04/22/2004 Duplicate 1	HMW-27 HMW-27/040707 07/07/2004 Primary
1,1,1-Trichloroethane	(ug/l)	200	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	(ug/l)	0.050	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
1,2-Dichlorobenzene	(ug/l)	600	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	(ug/l)		<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	(ug/l)	75	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone	(ug/l)		<25.0	<50.0	<50.0	<50.0	<25.0
Benzene	(ug/l)	5.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	(ug/l)	100	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	(ug/l)	0.20	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
Ethylbenzene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	(ug/l)	70	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	(ug/l)	100	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	(ug/l)	1000	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	(ug/l)		<500	<500	<500	<500	<500

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 6
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - VOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-27 HMW-27/041020 10/20/2004 Primary	HMW-27 HMW-27/050121 01/21/2005 Primary	HMW-28 HMW-28 12/16/2003 Primary	HMW-28 HMW-28/040422 04/22/2004 Primary	HMW-28 HMW-28/040707 07/07/2004 Primary
1,1,1-Trichloroethane	(ug/l)	200	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	(ug/l)	0.050	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
1,2-Dichlorobenzene	(ug/l)	600	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	(ug/l)		<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	(ug/l)	75	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone	(ug/l)		<25.0	<25.0	<50.0	<50.0	<25.0
Benzene	(ug/l)	5.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	(ug/l)	100	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	(ug/l)	0.20	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
Ethylbenzene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	(ug/l)	70	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	(ug/l)	100	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	(ug/l)	1000	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	(ug/l)		<500	<500	<500	<500	<500

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 6
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - VOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-28 HMW-28/041020 10/20/2004 Primary	HMW-28 HMW-28/050121 01/21/2005 Primary	HMW-29 HMW-29 12/17/2003 Primary	HMW-29 HMW-29/040422 04/22/2004 Primary	HMW-29 HMW-29/040707 07/07/2004 Primary
1,1,1-Trichloroethane	(ug/l)	200	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	(ug/l)	0.050	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
1,2-Dichlorobenzene	(ug/l)	600	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	(ug/l)		<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	(ug/l)	75	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone	(ug/l)		<25.0	<25.0	<50.0	<50.0	<25.0
Benzene	(ug/l)	5.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	(ug/l)	100	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	(ug/l)	0.20	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	(ug/l)	700	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	(ug/l)	70	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	(ug/l)	100	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	(ug/l)	1000	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	(ug/l)	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	(ug/l)		<500	<500	<500	<500	<500

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 6
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - VOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-29 HMW-29/041020 10/20/2004 Primary	HMW-29 HMW-29/052101 01/21/2005 Primary	HMW-29 HMW-29/050206 02/06/2005 Primary
1,1,1-Trichloroethane	(ug/l)	200	<5.0	<5.0	NA
1,1-Dichloroethane	(ug/l)	700	<5.0	<5.0	NA
1,2-Dibromoethane	(ug/l)	0.050	**<5.0**	**<5.0**	NA
1,2-Dichlorobenzene	(ug/l)	600	<5.0	<5.0	NA
1,2-Dichloroethane	(ug/l)	5.0	<5.0	<5.0	NA
1,3-Dichlorobenzene	(ug/l)		<5.0	<5.0	NA
1,4-Dichlorobenzene	(ug/l)	75	<5.0	<5.0	NA
2-Butanone	(ug/l)		<25.0	<25.0	NA
Benzene	(ug/l)	5.0	<2.0	0.6J	<2.0
Carbon disulfide	(ug/l)	700	<5.0	<5.0	NA
Chlorobenzene	(ug/l)	100	<5.0	<5.0	NA
Chloroform	(ug/l)	0.20	**<5.0**	**<5.0**	NA
Ethylbenzene	(ug/l)	700	<5.0	<5.0	<5.0
Methyl tert-butyl ether	(ug/l)	70	<2.0	<2.0	NA
Styrene	(ug/l)	100	<5.0	<5.0	NA
Tetrachloroethene	(ug/l)	5.0	<5.0	<5.0	NA
Toluene	(ug/l)	1000	<5.0	<5.0	<5.0
Trichloroethene	(ug/l)	5.0	<5.0	<5.0	NA
Xylene (total)	(ug/l)	10000	<5.0	<5.0	<5.0
1,4-Dioxane	(ug/l)		<500	<500	NA

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25 12/16/2003 Primary	HMW-25 HMW-25/040422 04/22/2004 Primary	HMW-25 HMW-25/040707 07/07/2004 Primary	HMW-25 DUP-001/040707 07/07/2004 Duplicate 1	HMW-25 HMW-25/041019 10/19/2004 Primary
2,4-Dimethylphenol	(mg/l)	0.14	<0.010	<0.010	<0.010	<0.010	<0.010
2,4-Dinitrophenol	(mg/l)	0.014	<0.010	<0.010	<0.010	<0.010	**<0.020**
4-Nitrophenol	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.020
Bis(2-ethylhexyl)phthalate	(mg/l)	0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Di-n-butyl phthalate	(mg/l)	0.7	<0.010	<0.010	<0.010	<0.010	<0.010
Diethyl phthalate	(mg/l)	5.6	<0.010	<0.010	<0.010	<0.010	<0.010
Dimethyl phthalate	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
m,p-Cresol	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
o-Cresol	(mg/l)	0.35	<0.010	<0.010	<0.010	<0.010	<0.010
Phenol	(mg/l)	0.1	<0.005	<0.005	<0.005	<0.005	<0.005
Pyridine	(mg/l)		<0.020	<0.020	<0.020	<0.020	<0.020
Quinoline	(mg/l)		<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	(mg/l)	0.42	<0.00500	<0.010	<0.00300	<0.00300	<0.00300
Anthracene	(mg/l)	2.1	<0.00500	<0.010	<0.00030	<0.00030	<0.00030
Benzo(a)anthracene	(mg/l)	0.00013	<0.00010	**<0.010**	<0.00009	<0.00009	<0.00009
Benzo(a)pyrene	(mg/l)	0.0002	<0.00020	**<0.010**	<0.00012	<0.00012	<0.00012
Benzo(b)fluoranthene	(mg/l)	0.00018	<0.00018	**<0.010**	<0.00015	<0.00015	<0.00015
Benzo(k)fluoranthene	(mg/l)	0.00017	<0.00017	**<0.010**	<0.00015	<0.00015	<0.00015
Chrysene	(mg/l)	0.0015	<0.00080	**<0.010**	<0.00045	<0.00045	<0.00045
Dibenzo(a,h)anthracene	(mg/l)	0.0003	<0.00030	**<0.010**	<0.00018	<0.00018	<0.00018
Fluoranthene	(mg/l)	0.28	<0.00200	<0.010	<0.00090	<0.00090	<0.00090

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25 12/16/2003 Primary	HMW-25 HMW-25/040422 04/22/2004 Primary	HMW-25 HMW-25/040707 07/07/2004 Primary	HMW-25 DUP-001/040707 07/07/2004 Duplicate 1	HMW-25 HMW-25/041019 10/19/2004 Primary
Fluorene	(mg/l)	0.28	<0.00100	<0.010	<0.00030	<0.00030	<0.00030
Indeno(1,2,3-cd)pyrene	(mg/l)	0.00043	<0.00040	<0.010	<0.00030	<0.00030	<0.00030
Naphthalene	(mg/l)	0.14	<0.00500	<0.010	<0.00300	<0.00300	<0.00300
Phenanthrene	(mg/l)		<0.00500	<0.010	<0.00060	<0.00060	<0.00060
Pyrene	(mg/l)	0.21	<0.00200	<0.010	<0.00030	<0.00030	<0.00030

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25/050121 01/21/2005 Primary	HMW-25 Dup-001/050121 01/21/2005 Duplicate 1	HMW-26 HWM-26 12/16/2003 Primary	HMW-26 HMW-26/040422 04/22/2004 Primary	HMW-26 HMW-26/040707 07/07/2004 Primary
2,4-Dimethylphenol	(mg/l)	0.14	<0.010	<0.010	<0.010	<0.010	<0.010
2,4-Dinitrophenol	(mg/l)	0.014	<0.020	<0.020	<0.010	<0.010	<0.010
4-Nitrophenol	(mg/l)		<0.020	<0.020	<0.010	<0.010	<0.010
Bis(2-ethylhexyl)phthalate	(mg/l)	0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Di-n-butyl phthalate	(mg/l)	0.7	<0.010	<0.010	<0.010	<0.010	<0.010
Diethyl phthalate	(mg/l)	5.6	<0.010	<0.010	<0.010	<0.010	<0.010
Dimethyl phthalate	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
m,p-Cresol	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
o-Cresol	(mg/l)	0.35	<0.010	<0.010	<0.010	<0.010	<0.010
Phenol	(mg/l)	0.1	<0.005	<0.005	<0.005	<0.005	<0.005
Pyridine	(mg/l)		<0.020	<0.020	<0.020	<0.020	<0.020
Quinoline	(mg/l)		<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	(mg/l)	0.42	<0.00300	<0.00300	<0.00500	<0.010	<0.00300
Anthracene	(mg/l)	2.1	<0.00030	<0.00030	<0.00500	<0.010	<0.00030
Benzo(a)anthracene	(mg/l)	0.00013	<0.00009	<0.00009	<0.00010	**<0.010**	<0.00009
Benzo(a)pyrene	(mg/l)	0.0002	<0.00012	<0.00012	<0.00020	**<0.010**	<0.00012
Benzo(b)fluoranthene	(mg/l)	0.00018	<0.00015	<0.00015	<0.00018	**<0.010**	<0.00015
Benzo(k)fluoranthene	(mg/l)	0.00017	<0.00015	<0.00015	<0.00017	**<0.010**	<0.00015
Chrysene	(mg/l)	0.0015	<0.00045	<0.00045	<0.00080	**<0.010**	<0.00045
Dibenzo(a,h)anthracene	(mg/l)	0.0003	<0.00018	<0.00018	<0.00030	**<0.010**	<0.00018
Fluoranthene	(mg/l)	0.28	<0.00090	<0.00090	<0.00200	<0.010	<0.00090

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25/050121 01/21/2005 Primary	HMW-25 Dup-001/050121 01/21/2005 Duplicate 1	HMW-26 HWM-26 12/16/2003 Primary	HMW-26 HMW-26/040422 04/22/2004 Primary	HMW-26 HMW-26/040707 07/07/2004 Primary
Fluorene	(mg/l)	0.28	<0.00030	<0.00030	<0.00100	<0.010	<0.00030
Indeno(1,2,3-cd)pyrene	(mg/l)	0.00043	**<0.00060**	**<0.00075**	**<0.00040**	**<0.010**	**<0.00030**
Naphthalene	(mg/l)	0.14	<0.00300	<0.00300	<0.00500	<0.010	<0.00300
Phenanthrene	(mg/l)		**<0.00060**	**<0.00060**	**<0.00500**	**<0.010**	**<0.00060**
Pyrene	(mg/l)	0.21	<0.00030	<0.00030	<0.00200	<0.010	<0.00030

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-26 HMW-26/041020 10/20/2004 Primary	HMW-26 Dup-001/041020 10/20/2004 Duplicate 1	HMW-26 HMW-26/050121 01/21/2005 Primary	HMW-27 HMW-27 12/16/2003 Primary	HMW-27 HMW-27/040422 04/22/2004 Primary
2,4-Dimethylphenol	(mg/l)	0.14	<0.010	<0.010	<0.010	<0.010	<0.010
2,4-Dinitrophenol	(mg/l)	0.014	<0.020	<0.020	<0.020	<0.010	<0.010
4-Nitrophenol	(mg/l)		<0.020	<0.020	<0.020	<0.010	<0.010
Bis(2-ethylhexyl)phthalate	(mg/l)	0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Di-n-butyl phthalate	(mg/l)	0.7	<0.010	<0.010	<0.010	<0.010	<0.010
Diethyl phthalate	(mg/l)	5.6	<0.010	<0.010	<0.010	<0.010	<0.010
Dimethyl phthalate	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
m,p-Cresol	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
o-Cresol	(mg/l)	0.35	<0.010	<0.010	<0.010	<0.010	<0.010
Phenol	(mg/l)	0.1	<0.005	<0.005	<0.005	<0.005	<0.005
Pyridine	(mg/l)		<0.020	<0.020	<0.020	<0.020	<0.020
Quinoline	(mg/l)		<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	(mg/l)	0.42	<0.00300	<0.00300	<0.00300	<0.00500	<0.010
Anthracene	(mg/l)	2.1	<0.00030	<0.00030	<0.00030	<0.00500	<0.010
Benzo(a)anthracene	(mg/l)	0.00013	<0.00009	<0.00009	<0.00009	<0.00010	**<0.010**
Benzo(a)pyrene	(mg/l)	0.0002	<0.00012	<0.00012	<0.00012	<0.00020	**<0.010**
Benzo(b)fluoranthene	(mg/l)	0.00018	<0.00015	<0.00015	<0.00015	<0.00018	**<0.010**
Benzo(k)fluoranthene	(mg/l)	0.00017	<0.00015	<0.00015	<0.00015	<0.00017	**<0.010**
Chrysene	(mg/l)	0.0015	<0.00045	<0.00045	<0.00045	<0.00080	**<0.010**
Dibenzo(a,h)anthracene	(mg/l)	0.0003	<0.00018	<0.00018	<0.00018	<0.00030	**<0.010**
Fluoranthene	(mg/l)	0.28	<0.00090	<0.00090	<0.00090	<0.00200	<0.010

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-26 HMW-26/041020 10/20/2004 Primary	HMW-26 Dup-001/041020 10/20/2004 Duplicate 1	HMW-26 HMW-26/050121 01/21/2005 Primary	HMW-27 HMW-27 12/16/2003 Primary	HMW-27 HMW-27/040422 04/22/2004 Primary
Fluorene	(mg/l)	0.28	<0.00030	<0.00030	<0.00030	<0.00100	<0.010
Indeno(1,2,3-cd)pyrene	(mg/l)	0.00043	<0.00030	<0.00030	**<0.00048**	<0.00040	**<0.010**
Naphthalene	(mg/l)	0.14	<0.00300	<0.00300	<0.00300	<0.00500	<0.010
Phenanthrene	(mg/l)		<0.00060	<0.00060	<0.00060	<0.00500	<0.010
Pyrene	(mg/l)	0.21	<0.00030	<0.00030	<0.00030	<0.00200	<0.010

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-27 DUP-01/040422 04/22/2004 Duplicate 1	HMW-27 HMW-27/040707 07/07/2004 Primary	HMW-27 HMW-27/041020 10/20/2004 Primary	HMW-27 HMW-27/050121 01/21/2005 Primary	HMW-28 HMW-28 12/16/2003 Primary
2,4-Dimethylphenol	(mg/l)	0.14	<0.010	<0.010	<0.010	<0.010	<0.010
2,4-Dinitrophenol	(mg/l)	0.014	<0.010	<0.010	<0.020	<0.020	<0.010
4-Nitrophenol	(mg/l)		<0.010	<0.010	<0.020	<0.020	<0.010
Bis(2-ethylhexyl)phthalate	(mg/l)	0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Di-n-butyl phthalate	(mg/l)	0.7	<0.010	<0.010	<0.010	<0.010	<0.010
Diethyl phthalate	(mg/l)	5.6	<0.010	<0.010	<0.010	<0.010	<0.010
Dimethyl phthalate	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
m,p-Cresol	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.010
o-Cresol	(mg/l)	0.35	<0.010	<0.010	<0.010	<0.010	<0.010
Phenol	(mg/l)	0.1	<0.005	<0.005	<0.005	<0.005	<0.005
Pyridine	(mg/l)		<0.020	<0.020	<0.020	<0.020	<0.020
Quinoline	(mg/l)		<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	(mg/l)	0.42	<0.010	<0.00300	<0.00300	<0.00300	<0.00500
Anthracene	(mg/l)	2.1	<0.010	<0.00030	<0.00030	<0.00030	<0.00500
Benzo(a)anthracene	(mg/l)	0.00013	**<0.010**	<0.00009	<0.00009	<0.00009	<0.00010
Benzo(a)pyrene	(mg/l)	0.0002	**<0.010**	<0.00012	<0.00012	<0.00012	<0.00020
Benzo(b)fluoranthene	(mg/l)	0.00018	**<0.010**	<0.00015	<0.00015	<0.00015	<0.00018
Benzo(k)fluoranthene	(mg/l)	0.00017	**<0.010**	<0.00015	<0.00015	<0.00015	<0.00017
Chrysene	(mg/l)	0.0015	**<0.010**	<0.00045	<0.00045	<0.00045	<0.00080
Dibenzo(a,h)anthracene	(mg/l)	0.0003	**<0.010**	<0.00018	<0.00018	<0.00018	<0.00030
Fluoranthene	(mg/l)	0.28	<0.010	<0.00090	<0.00090	<0.00090	<0.00200

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-27 DUP-01/040422 04/22/2004 *Duplicate 1*	HMW-27 HMW-27/040707 07/07/2004 *Primary*	HMW-27 HMW-27/041020 10/20/2004 *Primary*	HMW-27 HMW-27/050121 01/21/2005 *Primary*	HMW-28 HMW-28 12/16/2003 *Primary*
Fluorene	(mg/l)	0.28	<0.010	<0.00030	<0.00030	<0.00030	<0.00100
Indeno(1,2,3-cd)pyrene	(mg/l)	0.00043	<0.010	<0.00030	<0.00030	**<0.00050**	<0.00040
Naphthalene	(mg/l)	0.14	<0.010	<0.00300	<0.00300	<0.00300	<0.00500
Phenanthrene	(mg/l)		<0.010	<0.00060	<0.00060	<0.00060	<0.00500
Pyrene	(mg/l)	0.21	<0.010	<0.00030	<0.00030	<0.00030	<0.00200

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-28 HMW-28/040422 04/22/2004 Primary	HMW-28 HMW-28/040707 07/07/2004 Primary	HMW-28 HMW-28/041020 10/20/2004 Primary	HMW-28 HMW-28/050121 01/21/2005 Primary	HMW-29 HMW-29 12/17/2003 Primary
2,4-Dimethylphenol	(mg/l)	0.14	<0.010	<0.010	<0.010	<0.010	<0.011
2,4-Dinitrophenol	(mg/l)	0.014	<0.010	<0.010	<0.020	<0.020	<0.011
4-Nitrophenol	(mg/l)		<0.010	<0.010	<0.020	<0.020	<0.011
Bis(2-ethylhexyl)phthalate	(mg/l)	0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Di-n-butyl phthalate	(mg/l)	0.7	<0.010	<0.010	<0.010	<0.010	<0.011
Diethyl phthalate	(mg/l)	5.6	<0.010	<0.010	<0.010	<0.010	<0.011
Dimethyl phthalate	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.011
m,p-Cresol	(mg/l)		<0.010	<0.010	<0.010	<0.010	<0.011
o-Cresol	(mg/l)	0.35	<0.010	<0.010	<0.010	<0.010	<0.011
Phenol	(mg/l)	0.1	<0.005	<0.005	<0.005	<0.005	<0.005
Pyridine	(mg/l)		<0.020	<0.020	<0.020	<0.020	<0.021
Quinoline	(mg/l)		<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	(mg/l)	0.42	<0.010	<0.00300	<0.00300	<0.00300	<0.00500
Anthracene	(mg/l)	2.1	<0.010	<0.00030	<0.00030	<0.00030	<0.00500
Benzo(a)anthracene	(mg/l)	0.00013	**<0.010**	<0.00009	<0.00009	<0.00009	<0.00010
Benzo(a)pyrene	(mg/l)	0.0002	**<0.010**	<0.00012	<0.00012	<0.00012	<0.00020
Benzo(b)fluoranthene	(mg/l)	0.00018	**<0.010**	<0.00015	<0.00015	<0.00015	<0.00018
Benzo(k)fluoranthene	(mg/l)	0.00017	**<0.010**	<0.00015	<0.00015	<0.00015	<0.00017
Chrysene	(mg/l)	0.0015	**<0.010**	<0.00045	<0.00045	<0.00045	<0.00080
Dibenzo(a,h)anthracene	(mg/l)	0.0003	**<0.010**	<0.00018	<0.00018	<0.00018	<0.00030
Fluoranthene	(mg/l)	0.28	<0.010	<0.00090	<0.00090	<0.00090	<0.00200

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-28 HMW-28/040422 04/22/2004 Primary	HMW-28 HMW-28/040707 07/07/2004 Primary	HMW-28 HMW-28/041020 10/20/2004 Primary	HMW-28 HMW-28/050121 01/21/2005 Primary	HMW-29 HMW-29 12/17/2003 Primary
Fluorene	(mg/l)	0.28	<0.010	<0.00030	<0.00030	<0.00030	<0.00100
Indeno(1,2,3-cd)pyrene	(mg/l)	0.00043	**<0.010**	<0.00030	<0.00030	**<0.00046**	<0.00040
Naphthalene	(mg/l)	0.14	<0.010	<0.00300	<0.00300	<0.00300	<0.00500
Phenanthrene	(mg/l)		<0.010	<0.00060	<0.00060	<0.00060	<0.00500
Pyrene	(mg/l)	0.21	<0.010	<0.00030	<0.00030	<0.00030	<0.00200

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-29 HMW-29/040422 04/22/2004 Primary	HMW-29 HMW-29/040707 07/07/2004 Primary	HMW-29 HMW-29/041020 10/20/2004 Primary	HMW-29 HMW-29/052101 01/21/2005 Primary
2,4-Dimethylphenol	(mg/l)	0.14	<0.010	<0.010	<0.010	<0.010
2,4-Dinitrophenol	(mg/l)	0.014	<0.010	<0.010	**<0.020**	**<0.020**
4-Nitrophenol	(mg/l)		<0.010	<0.010	<0.020	<0.020
Bis(2-ethylhexyl)phthalate	(mg/l)	0.006	<0.006	<0.006	<0.006	<0.006
Di-n-butyl phthalate	(mg/l)	0.7	<0.010	<0.010	<0.010	<0.010
Diethyl phthalate	(mg/l)	5.6	<0.010	<0.010	<0.010	<0.010
Dimethyl phthalate	(mg/l)		<0.010	<0.010	<0.010	<0.010
m,p-Cresol	(mg/l)		<0.010	<0.010	<0.010	<0.010
o-Cresol	(mg/l)	0.35	<0.010	<0.010	<0.010	<0.010
Phenol	(mg/l)	0.1	<0.005	<0.005	<0.005	<0.005
Pyridine	(mg/l)		<0.020	<0.020	<0.020	<0.020
Quinoline	(mg/l)		<0.005	<0.005	<0.005	<0.005
Acenaphthene	(mg/l)	0.42	<0.010	<0.00300	<0.00300	<0.00300
Anthracene	(mg/l)	2.1	<0.010	<0.00030	<0.00030	<0.00030
Benzo(a)anthracene	(mg/l)	0.00013	**<0.010**	<0.00009	<0.00009	<0.00009
Benzo(a)pyrene	(mg/l)	0.0002	**<0.010**	<0.00012	<0.00012	<0.00012
Benzo(b)fluoranthene	(mg/l)	0.00018	**<0.010**	<0.00015	<0.00015	<0.00015
Benzo(k)fluoranthene	(mg/l)	0.00017	**<0.010**	<0.00015	<0.00015	<0.00015
Chrysene	(mg/l)	0.0015	**<0.010**	<0.00045	<0.00045	<0.00045
Dibenzo(a,h)anthracene	(mg/l)	0.0003	**<0.010**	<0.00018	<0.00018	<0.00018
Fluoranthene	(mg/l)	0.28	<0.010	<0.00090	<0.00090	<0.00090

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 7
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - SVOCs

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-29 HMW-29/040422 04/22/2004 Primary	HMW-29 HMW-29/040707 07/07/2004 Primary	HMW-29 HMW-29/041020 10/20/2004 Primary	HMW-29 HMW-29/052101 01/21/2005 Primary
Fluorene	(mg/l)	0.28	<0.010	<0.00030	<0.00030	<0.00030
Indeno(1,2,3-cd)pyrene	(mg/l)	0.00043	<0.010	<0.00030	<0.00030	<0.00030
Naphthalene	(mg/l)	0.14	<0.010	<0.00300	<0.00300	<0.00300
Phenanthrene	(mg/l)		<0.010	<0.00060	<0.00060	<0.00060
Pyrene	(mg/l)	0.21	<0.010	<0.00030	<0.00030	<0.00030

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25 12/16/2003 Primary	HMW-25 HMW-25/040422 04/22/2004 Primary	HMW-25 HMW-25/040707 07/07/2004 Primary	HMW-25 DUP-001/040707 07/07/2004 Duplicate 1	HMW-25 HMW-25/041019 10/19/2004 Primary
Antimony	(mg/l)	0.006	<0.005	0.00235J	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	NA	NA	NA	NA	NA
Arsenic	(mg/l)	0.05	0.00108J	<0.003	<0.0030	<0.0030	<0.0030
Arsenic (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	NA
Barium	(mg/l)	2	0.318	0.238	0.256	0.257	0.300
Barium (Dissolved)	(mg/l)	2	NA	NA	NA	NA	NA
Beryllium	(mg/l)	0.004	<0.001	<0.001	<0.0010	<0.0010	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	NA	NA	NA	NA	NA
Cadmium	(mg/l)	0.005	<0.002	0.000400	0.0003J	0.0003J	0.0004J
Cadmium (Dissolved)	(mg/l)	0.005	NA	NA	NA	NA	NA
Chromium	(mg/l)	0.1	0.00980J	0.00610J	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	NA	NA	NA	NA	NA
Cobalt	(mg/l)	1	0.00450J	<0.010	<0.0100	<0.0100	<0.0100
Cobalt (Dissolved)	(mg/l)	1	NA	NA	NA	NA	NA
Lead	(mg/l)	0.0075	0.00530	<0.002	<0.0020	<0.0020	0.0009J
Lead (Dissolved)	(mg/l)	0.0075	NA	NA	NA	NA	NA
Mercury	(mg/l)	0.002	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	NA	NA	NA	NA	NA
Nickel	(mg/l)	0.1	0.0178	0.0128	0.0087J	0.0107	0.0149
Nickel (Dissolved)	(mg/l)	0.1	NA	NA	NA	NA	NA
Selenium	(mg/l)	0.05	<0.006	<0.006	<0.0060	<0.0060	<0.0060

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25 12/16/2003 Primary	HMW-25 HMW-25/040422 04/22/2004 Primary	HMW-25 HMW-25/040707 07/07/2004 Primary	HMW-25 DUP-001/040707 07/07/2004 Duplicate 1	HMW-25 HMW-25/041019 10/19/2004 Primary
Selenium (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	NA
Silver	(mg/l)	0.05	<0.010	<0.010	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	NA	NA	NA	NA	NA
Vanadium	(mg/l)	0.049	0.00930J	<0.010	<0.0100	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	NA	NA	NA	NA	NA
Zinc	(mg/l)	5	0.210	0.241	0.0838	0.0832	0.171
Zinc (Dissolved)	(mg/l)	5	NA	NA	NA	NA	NA

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25/050121 01/21/2005 Primary	HMW-25 Dup-001/050121 01/21/2005 Duplicate 1	HMW-26 HWM-26 12/16/2003 Primary	HMW-26 HMW-26/040422 04/22/2004 Primary	HMW-26 HMW-26/040707 07/07/2004 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.005	<0.005	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	<0.0050	<0.0050	NA	NA	NA
Arsenic	(mg/l)	0.05	0.0015J	<0.0030	0.00449	0.00654	0.0012J
Arsenic (Dissolved)	(mg/l)	0.05	0.0007J	<0.0030	NA	NA	NA
Barium	(mg/l)	2	0.248	0.254	0.362	0.242	0.222
Barium (Dissolved)	(mg/l)	2	0.229	0.233	NA	NA	NA
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	0.000300	<0.001	<0.0010
Beryllium (Dissolved)	(mg/l)	0.004	0.0007J	<0.0010	NA	NA	NA
Cadmium	(mg/l)	0.005	0.0007J	0.0009J	<0.002	<0.002	0.0003J
Cadmium (Dissolved)	(mg/l)	0.005	0.0005J	<0.0020	NA	NA	NA
Chromium	(mg/l)	0.1	<0.0100	<0.0100	0.0311	0.00410J	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	<0.0100	<0.0100	NA	NA	NA
Cobalt	(mg/l)	1	<0.0100	<0.0100	0.00770J	<0.010	<0.0100
Cobalt (Dissolved)	(mg/l)	1	<0.0100	<0.0100	NA	NA	NA
Lead	(mg/l)	0.0075	<0.0020	<0.0020	0.0159	0.00331	<0.0020
Lead (Dissolved)	(mg/l)	0.0075	<0.0020	<0.0020	NA	NA	NA
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.0002	<0.0002	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	<0.00020	<0.00020	NA	NA	NA
Nickel	(mg/l)	0.1	0.0131	0.0106	0.0219	<0.010	<0.0100
Nickel (Dissolved)	(mg/l)	0.1	0.0134	0.0105	NA	NA	NA
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.006	<0.006	<0.0060

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25/050121 01/21/2005 Primary	HMW-25 Dup-001/050121 01/21/2005 Duplicate 1	HMW-26 HWM-26 12/16/2003 Primary	HMW-26 HMW-26/040422 04/22/2004 Primary	HMW-26 HMW-26/040707 07/07/2004 Primary
Selenium (Dissolved)	(mg/l)	0.05	<0.0060	<0.0060	NA	NA	NA
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.010	<0.010	<0.0100
Silver (Dissolved)	(mg/l)	0.05	<0.0100	<0.0100	NA	NA	NA
Vanadium	(mg/l)	0.049	<0.0100	0.0040J	<0.010	<0.010	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	<0.0100	0.0050J	NA	NA	NA
Zinc	(mg/l)	5	0.0201	0.0141	0.276	0.118	0.0258
Zinc (Dissolved)	(mg/l)	5	0.0271	0.0117	NA	NA	NA

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-26 HMW-26/041020 10/20/2004 Primary	HMW-26 Dup-001/041020 10/20/2004 Duplicate 1	HMW-26 HMW-26/050121 01/21/2005 Primary	HMW-27 HMW-27 12/16/2003 Primary	HMW-27 HMW-27/040422 04/22/2004 Primary
Antimony	(mg/l)	0.006	<0.0050	<0.0050	<0.0050	<0.005	<0.005
Antimony (Dissolved)	(mg/l)	0.006	NA	NA	<0.0050	NA	NA
Arsenic	(mg/l)	0.05	0.0020J	0.0017J	0.0016J	<0.003	0.00185J
Arsenic (Dissolved)	(mg/l)	0.05	NA	NA	0.0018J	NA	NA
Barium	(mg/l)	2	0.206	0.202	0.177	0.175	0.189
Barium (Dissolved)	(mg/l)	2	NA	NA	0.159	NA	NA
Beryllium	(mg/l)	0.004	<0.0010	<0.0010	<0.0010	<0.001	<0.001
Beryllium (Dissolved)	(mg/l)	0.004	NA	NA	<0.0010	NA	NA
Cadmium	(mg/l)	0.005	<0.0020	0.0003J	0.0005J	0.000300	<0.002
Cadmium (Dissolved)	(mg/l)	0.005	NA	NA	0.0003J	NA	NA
Chromium	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	0.00910J	<0.010
Chromium (Dissolved)	(mg/l)	0.1	NA	NA	<0.0100	NA	NA
Cobalt	(mg/l)	1	<0.0100	<0.0100	<0.0100	0.00470J	0.00890J
Cobalt (Dissolved)	(mg/l)	1	NA	NA	<0.0100	NA	NA
Lead	(mg/l)	0.0075	0.0008J	0.0006J	<0.0020	0.000792	0.00171J
Lead (Dissolved)	(mg/l)	0.0075	NA	NA	<0.0020	NA	NA
Mercury	(mg/l)	0.002	<0.00020	<0.00020	<0.00020	<0.0002	<0.0002
Mercury (Dissolved)	(mg/l)	0.002	NA	NA	<0.00020	NA	NA
Nickel	(mg/l)	0.1	<0.0100	<0.0100	<0.0100	0.0112	0.0175
Nickel (Dissolved)	(mg/l)	0.1	NA	NA	<0.0100	NA	NA
Selenium	(mg/l)	0.05	<0.0060	<0.0060	<0.0060	<0.006	<0.006

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-26 HMW-26/041020 10/20/2004 Primary	HMW-26 Dup-001/041020 10/20/2004 Duplicate 1	HMW-26 HMW-26/050121 01/21/2005 Primary	HMW-27 HMW-27 12/16/2003 Primary	HMW-27 HMW-27/040422 04/22/2004 Primary
Selenium (Dissolved)	(mg/l)	0.05	NA	NA	<0.0060	NA	NA
Silver	(mg/l)	0.05	<0.0100	<0.0100	<0.0100	<0.010	<0.010
Silver (Dissolved)	(mg/l)	0.05	NA	NA	<0.0100	NA	NA
Vanadium	(mg/l)	0.049	<0.0100	<0.0100	<0.0100	<0.010	<0.010
Vanadium (Dissolved)	(mg/l)	0.049	NA	NA	<0.0100	NA	NA
Zinc	(mg/l)	5	0.105	0.129	<0.0100	0.213	0.0800
Zinc (Dissolved)	(mg/l)	5	NA	NA	<0.0100	NA	NA

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-27 DUP-01/040422 04/22/2004 Duplicate 1	HMW-27 HMW-27/040707 07/07/2004 Primary	HMW-27 HMW-27/041020 10/20/2004 Primary	HMW-27 HMW-27/050121 01/21/2005 Primary	HMW-28 HMW-28 12/16/2003 Primary
Antimony	(mg/l)	0.006	<0.005	<0.0050	<0.0050	<0.0050	<0.005
Antimony (Dissolved)	(mg/l)	0.006	NA	NA	NA	<0.0050	NA
Arsenic	(mg/l)	0.05	0.00118J	<0.0030	<0.0030	<0.0030	0.00142J
Arsenic (Dissolved)	(mg/l)	0.05	NA	NA	NA	<0.0030	NA
Barium	(mg/l)	2	0.198	0.182	0.119	0.142	0.107
Barium (Dissolved)	(mg/l)	2	NA	NA	NA	0.130	NA
Beryllium	(mg/l)	0.004	<0.001	<0.0010	<0.0010	<0.0010	<0.001
Beryllium (Dissolved)	(mg/l)	0.004	NA	NA	NA	<0.0010	NA
Cadmium	(mg/l)	0.005	0.000700	<0.0020	0.0006J	0.0005J	<0.002
Cadmium (Dissolved)	(mg/l)	0.005	NA	NA	NA	<0.0020	NA
Chromium	(mg/l)	0.1	<0.010	<0.0100	<0.0100	<0.0100	0.00590J
Chromium (Dissolved)	(mg/l)	0.1	NA	NA	NA	<0.0100	NA
Cobalt	(mg/l)	1	0.00840J	0.0048J	0.0095J	0.0056J	0.00920J
Cobalt (Dissolved)	(mg/l)	1	NA	NA	NA	0.0046J	NA
Lead	(mg/l)	0.0075	0.00256	<0.0020	0.0019J	<0.0020	0.00238
Lead (Dissolved)	(mg/l)	0.0075	NA	NA	NA	<0.0020	NA
Mercury	(mg/l)	0.002	<0.0002	<0.00020	<0.00020	<0.00020	<0.0002
Mercury (Dissolved)	(mg/l)	0.002	NA	NA	NA	<0.00020	NA
Nickel	(mg/l)	0.1	0.0175	0.0092J	0.0220	0.0093J	0.0221
Nickel (Dissolved)	(mg/l)	0.1	NA	NA	NA	0.0094J	NA
Selenium	(mg/l)	0.05	<0.006	<0.0060	<0.0060	<0.0060	<0.006

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-27 DUP-01/040422 04/22/2004 Duplicate 1	HMW-27 HMW-27/040707 07/07/2004 Primary	HMW-27 HMW-27/041020 10/20/2004 Primary	HMW-27 HMW-27/050121 01/21/2005 Primary	HMW-28 HMW-28 12/16/2003 Primary
Selenium (Dissolved)	(mg/l)	0.05	NA	NA	NA	<0.0060	NA
Silver	(mg/l)	0.05	0.00330J	<0.0100	<0.0100	<0.0100	<0.010
Silver (Dissolved)	(mg/l)	0.05	NA	NA	NA	<0.0100	NA
Vanadium	(mg/l)	0.049	<0.010	<0.0100	<0.0100	<0.0100	<0.010
Vanadium (Dissolved)	(mg/l)	0.049	NA	NA	NA	<0.0100	NA
Zinc	(mg/l)	5	0.0910	0.0431	0.170	0.0075J	0.0827
Zinc (Dissolved)	(mg/l)	5	NA	NA	NA	0.0066J	NA

Bordered, bolded, and highlighted cells exceed TACO GROs
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TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-28 HMW-28/040422 04/22/2004 Primary	HMW-28 HMW-28/040707 07/07/2004 Primary	HMW-28 HMW-28/041020 10/20/2004 Primary	HMW-28 HMW-28/050121 01/21/2005 Primary	HMW-29 HMW-29 12/17/2003 Primary
Antimony	(mg/l)	0.006	<0.005	<0.0050	<0.0050	<0.0050	<0.005
Antimony (Dissolved)	(mg/l)	0.006	NA	NA	NA	<0.0050	NA
Arsenic	(mg/l)	0.05	0.00898	<0.0030	0.0044	<0.0030	0.00641
Arsenic (Dissolved)	(mg/l)	0.05	NA	NA	NA	<0.0030	NA
Barium	(mg/l)	2	0.273	0.115	0.173	0.0848	0.139
Barium (Dissolved)	(mg/l)	2	NA	NA	NA	0.0764	NA
Beryllium	(mg/l)	0.004	<0.001	<0.0010	<0.0010	0.0003J	<0.001
Beryllium (Dissolved)	(mg/l)	0.004	NA	NA	NA	<0.0010	NA
Cadmium	(mg/l)	0.005	0.00110J	0.0011J	0.0004J	0.0003J	0.000700
Cadmium (Dissolved)	(mg/l)	0.005	NA	NA	NA	0.0008J	NA
Chromium	(mg/l)	0.1	<0.010	<0.0100	<0.0100	<0.0100	<0.010
Chromium (Dissolved)	(mg/l)	0.1	NA	NA	NA	<0.0100	NA
Cobalt	(mg/l)	1	0.0145	0.0068J	0.0193	0.0054J	<0.010
Cobalt (Dissolved)	(mg/l)	1	NA	NA	NA	0.0059J	NA
Lead	(mg/l)	0.0075	0.00759	0.0028	0.0048	<0.0020	0.00160J
Lead (Dissolved)	(mg/l)	0.0075	NA	NA	NA	<0.0020	NA
Mercury	(mg/l)	0.002	<0.0002	<0.00020	<0.00020	<0.00020	<0.0002
Mercury (Dissolved)	(mg/l)	0.002	NA	NA	NA	<0.00020	NA
Nickel	(mg/l)	0.1	0.0325	0.0218	0.0268	0.0186	0.00380J
Nickel (Dissolved)	(mg/l)	0.1	NA	NA	NA	0.0180	NA
Selenium	(mg/l)	0.05	0.0109	0.0207	<0.0060	<0.0060	<0.006

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-28 HMW-28/040422 04/22/2004 Primary	HMW-28 HMW-28/040707 07/07/2004 Primary	HMW-28 HMW-28/041020 10/20/2004 Primary	HMW-28 HMW-28/050121 01/21/2005 Primary	HMW-29 HMW-29 12/17/2003 Primary
Selenium (Dissolved)	(mg/l)	0.05	NA	NA	NA	<0.0060	NA
Silver	(mg/l)	0.05	<0.010	<0.0100	<0.0100	<0.0100	0.00650J
Silver (Dissolved)	(mg/l)	0.05	NA	NA	NA	<0.0100	NA
Vanadium	(mg/l)	0.049	<0.010	<0.0100	<0.0100	<0.0100	<0.010
Vanadium (Dissolved)	(mg/l)	0.049	NA	NA	NA	<0.0100	NA
Zinc	(mg/l)	5	0.0840	0.0741	0.129	0.0080J	0.0258
Zinc (Dissolved)	(mg/l)	5	NA	NA	NA	0.0058J	NA

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TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-29 HMW-29/040422 04/22/2004 Primary	HMW-29 HMW-29/040707 07/07/2004 Primary	HMW-29 HMW-29/041020 10/20/2004 Primary	HMW-29 HMW-29/052101 01/21/2005 Primary
Antimony	(mg/l)	0.006	<0.005	<0.0050	<0.0050	<0.0050
Antimony (Dissolved)	(mg/l)	0.006	NA	NA	NA	<0.0050
Arsenic	(mg/l)	0.05	0.00662	0.0012J	0.0035	0.0018J
Arsenic (Dissolved)	(mg/l)	0.05	NA	NA	NA	0.0014J
Barium	(mg/l)	2	0.268	0.160	0.221	0.146
Barium (Dissolved)	(mg/l)	2	NA	NA	NA	0.128
Beryllium	(mg/l)	0.004	<0.001	<0.0010	<0.0010	0.0005J
Beryllium (Dissolved)	(mg/l)	0.004	NA	NA	NA	0.0005J
Cadmium	(mg/l)	0.005	0.000900	0.0005J	0.0007J	0.0003J
Cadmium (Dissolved)	(mg/l)	0.005	NA	NA	NA	<0.0020
Chromium	(mg/l)	0.1	<0.010	<0.0100	<0.0100	<0.0100
Chromium (Dissolved)	(mg/l)	0.1	NA	NA	NA	<0.0100
Cobalt	(mg/l)	1	0.00600J	0.0025J	0.0052J	<0.0100
Cobalt (Dissolved)	(mg/l)	1	NA	NA	NA	0.0048J
Lead	(mg/l)	0.0075	**0.0238**	0.0020J	**0.0134**	0.0028
Lead (Dissolved)	(mg/l)	0.0075	NA	NA	NA	<0.0020
Mercury	(mg/l)	0.002	<0.0002	<0.00020	<0.00020	<0.00020
Mercury (Dissolved)	(mg/l)	0.002	NA	NA	NA	<0.00020
Nickel	(mg/l)	0.1	0.0232	0.0073J	0.0152	0.0098J
Nickel (Dissolved)	(mg/l)	0.1	NA	NA	NA	0.0048J
Selenium	(mg/l)	0.05	<0.006	<0.0060	<0.0060	<0.0060

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 8
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - Metals (Total and Dissolved)

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-29 HMW-29/040422 04/22/2004 Primary	HMW-29 HMW-29/040707 07/07/2004 Primary	HMW-29 HMW-29/041020 10/20/2004 Primary	HMW-29 HMW-29/052101 01/21/2005 Primary
Selenium (Dissolved)	(mg/l)	0.05	NA	NA	NA	<0.0060
Silver	(mg/l)	0.05	<0.010	<0.0100	<0.0100	<0.0100
Silver (Dissolved)	(mg/l)	0.05	NA	NA	NA	<0.0100
Vanadium	(mg/l)	0.049	<0.010	<0.0100	<0.0100	<0.0100
Vanadium (Dissolved)	(mg/l)	0.049	NA	NA	NA	<0.0100
Zinc	(mg/l)	5	0.136	0.0402	0.0345	0.0523
Zinc (Dissolved)	(mg/l)	5	NA	NA	NA	0.0325

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 9
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - General Chemistry Parameters

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25 12/16/2003 Primary	HMW-25 HMW-25/040422 04/22/2004 Primary	HMW-25 HMW-25/040707 07/07/2004 Primary	HMW-25 DUP-001/040707 07/07/2004 Duplicate 1	HMW-25 HMW-25/041019 10/19/2004 Primary
Alkalinity (as CaCO3)	(mg/l)		NA	NA	NA	NA	496
Chemical Oxygen Demand	(mg/l)		NA	NA	NA	NA	16J
Chloride	(mg/l)	200	NA	NA	NA	NA	96
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.007	<0.007	<0.050
Hardness(as CaCO3)	(mg/l)		NA	NA	NA	NA	540
Sulfate	(mg/l)	400	NA	NA	NA	NA	57
Total dissolved solids (TDS)	(mg/l)		NA	NA	NA	NA	714
Sulfide	(mg/l)		NA	NA	NA	NA	0.02J
Total suspended solids	(mg/l)		NA	NA	NA	NA	9

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 9
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - General Chemistry Parameters

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: *Water*

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-25 HMW-25/050121 01/21/2005 Primary	HMW-25 Dup-001/050121 01/21/2005 Duplicate 1	HMW-26 HWM-26 12/16/2003 Primary	HMW-26 HMW-26/040422 04/22/2004 Primary	HMW-26 HMW-26/040707 07/07/2004 Primary
Alkalinity (as CaCO3)	(mg/l)		476	480	NA	NA	NA
Chemical Oxygen Demand	(mg/l)		<20	<20	NA	NA	NA
Chloride	(mg/l)	200	69	66	NA	NA	NA
Cyanide	(mg/l)	0.2	<0.050	<0.050	<0.007	<0.007	<0.007
Hardness(as CaCO3)	(mg/l)		490	492	NA	NA	NA
Sulfate	(mg/l)	400	66	69	NA	NA	NA
Total dissolved solids (TDS)	(mg/l)		650	654	NA	NA	NA
Sulfide	(mg/l)		<0.05	<0.05	NA	NA	NA
Total suspended solids	(mg/l)		13	10	NA	NA	NA

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 9
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - General Chemistry Parameters

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-26 HMW-26/041020 10/20/2004 Primary	HMW-26 Dup-001/041020 10/20/2004 Duplicate 1	HMW-26 HMW-26/050121 01/21/2005 Primary	HMW-27 HMW-27 12/16/2003 Primary	HMW-27 HMW-27/040422 04/22/2004 Primary
Alkalinity (as CaCO3)	(mg/l)		584	604	578	NA	NA
Chemical Oxygen Demand	(mg/l)		16J	23	12J	NA	NA
Chloride	(mg/l)	200	92	100	93	NA	NA
Cyanide	(mg/l)	0.2	<0.050	<0.050	<0.050	<0.007	<0.007
Hardness(as CaCO3)	(mg/l)		910	920	990	NA	NA
Sulfate	(mg/l)	400	301	341	298	NA	NA
Total dissolved solids (TDS)	(mg/l)		1210	1230	1230	NA	NA
Sulfide	(mg/l)		0.02J	0.03J	<0.05	NA	NA
Total suspended solids	(mg/l)		47	67	58	NA	NA

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 9
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - General Chemistry Parameters

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-27 DUP-01/040422 04/22/2004 Duplicate 1	HMW-27 HMW-27/040707 07/07/2004 Primary	HMW-27 HMW-27/041020 10/20/2004 Primary	HMW-27 HMW-27/050121 01/21/2005 Primary	HMW-28 HMW-28 12/16/2003 Primary
Alkalinity (as CaCO3)	(mg/l)		NA	NA	628	602	NA
Chemical Oxygen Demand	(mg/l)		NA	NA	23	<20	NA
Chloride	(mg/l)	200	NA	NA	20	45	NA
Cyanide	(mg/l)	0.2	<0.007	<0.007	<0.050	<0.050	<0.007
Hardness(as CaCO3)	(mg/l)		NA	NA	830	780	NA
Sulfate	(mg/l)	400	NA	NA	208	146	NA
Total dissolved solids (TDS)	(mg/l)		NA	NA	928	888	NA
Sulfide	(mg/l)		NA	NA	0.03J	<0.05	NA
Total suspended solids	(mg/l)		NA	NA	35	9	NA

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TABLE 9
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - General Chemistry Parameters

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-28 HMW-28/040422 04/22/2004 Primary	HMW-28 HMW-28/040707 07/07/2004 Primary	HMW-28 HMW-28/041020 10/20/2004 Primary	HMW-28 HMW-28/050121 01/21/2005 Primary	HMW-29 HMW-29 12/17/2003 Primary
Alkalinity (as CaCO3)	(mg/l)		NA	NA	548	540	NA
Chemical Oxygen Demand	(mg/l)		NA	NA	23	<20	NA
Chloride	(mg/l)	200	NA	NA	36	35	NA
Cyanide	(mg/l)	0.2	0.00400J	<0.007	<0.050	<0.050	<0.007
Hardness(as CaCO3)	(mg/l)		NA	NA	630	610	NA
Sulfate	(mg/l)	400	NA	NA	82	79	NA
Total dissolved solids (TDS)	(mg/l)		NA	NA	686	678	NA
Sulfide	(mg/l)		NA	NA	<0.50	<0.05	NA
Total suspended solids	(mg/l)		NA	NA	48	6	NA

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

TABLE 9
Summary of Groundwater Analytical Results for Sentinel Wells
Skinner List - General Chemistry Parameters

The Hartford Working Group / Hartford, IL
1190505040 -- Madison County -- ILR 000128249

PERIOD: From 12/16/2003 thru 03/02/2005 - Inclusive
SAMPLE TYPE: Water

CONSTITUENT	SITE SAMPLE ID DATE RESULT TYPE	TIER1 GRO CLASS I INGESTION	HMW-29 HMW-29/040422 04/22/2004 Primary	HMW-29 HMW-29/040707 07/07/2004 Primary	HMW-29 HMW-29/041020 10/20/2004 Primary	HMW-29 HMW-29/052101 01/21/2005 Primary
Alkalinity (as CaCO3)	(mg/l)		NA	NA	654	510
Chemical Oxygen Demand	(mg/l)		NA	NA	46	52
Chloride	(mg/l)	200	NA	NA	15	15
Cyanide	(mg/l)	0.2	0.00280J	<0.007	<0.050	<0.050
Hardness(as CaCO3)	(mg/l)		NA	NA	540	570
Sulfate	(mg/l)	400	NA	NA	84	99
Total dissolved solids (TDS)	(mg/l)		NA	NA	622	550
Sulfide	(mg/l)		NA	NA	<1.2	<0.50
Total suspended solids	(mg/l)		NA	NA	550	91

Bordered, bolded, and highlighted cells exceed TACO GROs
Bolded values = Detection Limit above TACO GROs

NOTES
TABLE 6, 7, 8 AND 9

Tier 1 GRO-Class 1 = Tier 1 Class 1 Groundwater Remediation Objectives from Illinois EPA's Tiered Approach to Corrective Action Objectives (35 IAC Part 742).

mg/L = Milligrams per liter.

µg/L = Micrograms per liter.

J = Estimated value. Compound detected below the practical quantitation limit (PQL).

NA = Constituent not analyzed by laboratory.

Blank box under Tier 1 GRO-Class 1 = No groundwater remediation objectives listed in TACO.

APPENDIX A

MONITORING WELL INSPECTION REPORT

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hanford Working Group
Project No.: 15-03095.14-007 / 15-004
Date(s) of Inspection: 11/19/05
Field Personnel: Heidi Merrigard + Aaron Smith

WELL INTEGRITY INFORMATION

Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
MP-68A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-69A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-70A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-71A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-72A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-73A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-74A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-75A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-76A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-77A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-78A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-65A				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-65B				1"	PVC	NO*	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-65C				2"	PVC	yes	yes	Y	Y	N	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	

ADDITIONAL COMMENTS: * = No Lock present on 1" MP as previously determined but flushmounts bolted

For water levels refer to Water levels Sheet from 11/19/05

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hartford Working Group
Project No.: 15-03095.14-007 / 15-004
Date(s) of Inspection: Heidi Mendygral, Aaron Smith
Field Personnel: 1/19/05

WELL INTEGRITY INFORMATION

Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
MP-66A				1"	PVC	N*	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-66B				1"	PVC	N*	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-66C				2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-67A				1"	PVC	N*	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-67B				1"	PVC	N*	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-67C				2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-61A				1"	PVC	N*	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-61B				1"	PVC	N*	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-61C				2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-62A				1"	PVC	N*	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-62B				1"	PVC	N*	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-62C				2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-63A				1"	PVC	N*	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-63B				1"	PVC	N*	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	

ADDITIONAL COMMENTS: * No locks are present on 1" PVC as previously determined
Well bolts on flushmount are secure

- See water levels from 1/19/05

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hartford Working Group
Project No.: 15 03095-14-007 / 15-001
Date(s) of Inspection: 1/19/05
Field Personnel: H. Mendyzral + Aaron Smith

WELL INTEGRITY INFORMATION

Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
mp-63C				2"	PVC	Y	Y	~~Y~~	~~Y~~	~~N~~	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
MP-60A				1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
mp-60B				1"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
mp-60C				2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
HMW-19				2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
HMW-18				2"	PVC	Y	Y				Y	N	Y	Y	Y	Y	N	N	—	—	—	—	—	N	
HMW-25				2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
HMW-26				2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
HB-38				2"	PVC	N	Y	~~Y~~	~~Y~~	~~N~~	—	—	—	—	—	—	—	—	—	—	—	—	—	N	
HMW-27				2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
HMW-29				2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
HMW-28				2"	PVC	Y	Y	—	—	—	Y	Y	N	Y	Y	Y	N	N	—	—	—	—	—	N	
HB-37				2"	PVC	N	Y	Y	Y	N	—	—	—	—	—	—	—	—	—	—	—	—	—	N	
HB-3[illegible]				2"	PVC	N	Y	Y	Y	N	—	—	—	—	—	—	—	—	—	—	—	—	—	N	

ADDITIONAL COMMENTS: — See 1/19/05 Water levels

* No Lock present on 1" mp as previously determined, but flushmount Securely bolted

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hanford Working Group
Project No.: B-03095-14-002/15-002
Date(s) of Inspection: 1/20/05
Field Personnel: Mike Krzeminski

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-39A				1	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-39B				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-39C				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	

ADDITIONAL COMMENTS: Standing H_2O is Frozen

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hanford Working Group
Date(s) of Inspection: 1-17/05
Project No.: 15-03095.14-0071 J15-004
Field Personnel: B. Hohenen

WELL INTEGRITY INFORMATION

Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
HMW-48D				2	PVC	Y	Y	~~Y~~	~~Y~~	~~N~~	Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-48C				2	PVC	Y	Y	~~Y~~	~~Y~~	~~N~~	Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-3				2	PVC	Y	Y				Y	Y	N	N	Y	Y	N	N				N	Y	N	
HMW-4				2	PVC	Y	Y				Y	Y	N	N	Y	Y	N	N				N	Y	N	
MP-29 A+B				1,1	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	[illegible]	65
MP-29 D				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-37 A+B				1,1	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-37 C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-37 D				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-44 A				1	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-44 B,C				1,1	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
~~MP-~~																						Y	Y	Y	
MP-45 A,B				1,1	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-45 C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	

ADDITIONAL COMMENTS: All standing water is frozen

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hanford Work Group
Project No.: 15403095.14-0028/15-0021
Date(s) of Inspection: 1/17/05 - 1/18/05
Field Personnel: B. Hakemeni

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-46A,B				1,1	PVC	N	Y				Y	Y	N	N	Y	Y	N	N				Y	Y	Y	
MP-46C				2	PVC	N	Y				Y	Y	N	N	Y	Y	N	N				Y	Y	Y	
1/17/05																									
1/18/05																									
MP-53A,B				1,1	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-53C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-54A,B				1,1	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-54C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-64A,B				1,1	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-64C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-43A				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-43B				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-43C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-44A				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-44B				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	

ADDITIONAL COMMENTS: All standing water was frozen

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hatford Working Group
Date(s) of Inspection: 1/18/05
Project No.: 15-03095.14-007 / P 15-004
Field Personnel: B. Hoheman

WELL INTEGRITY INFORMATION

Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
HMW-44C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-1				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
HMW-2				2	PVC	Y	Y				Y	N	Y	[illegible]	Y	Y	N	N				Y	Y	N	
HMW-3,10				2,2	PVC	Y	Y				Y	Y	N	N	N	—	—	—				N	Y	N	
HMW-34				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
HMW-35				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-36				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-39				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-25				1	↓	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-26				1	↓	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-27				1	↓	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-28				1	↓	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-42A,B				1,1	↓	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-42C					↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	

ADDITIONAL COMMENTS: STANDING WATER IS FROZEN

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hatford Working Group
Project No.: 15-03095-14-008 / 15-004
Date(s) of Inspection: 11/[illegible]
Field Personnel: B. Hehenen

WELL INTEGRITY INFORMATION

Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
[illegible]-5				4	PVC	Y		~~Y~~	~~Y~~	~~N~~	~~Y~~	Y	N	Y	Y	Y	~~Y~~	N				Y	Y	Y	
[illegible]-2					METAL	N	Y	Y	Y	N	N/A	NA	NA	NA	N	—	—	—				N/A	Y	N/A	
[illegible]-49A				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
[illegible]-49B				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
[illegible]-49C				2		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
[illegible]-49D				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
[illegible]-39A				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
[illegible]-39B				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
[illegible]-39C				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
[illegible]-45A				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
[illegible]-45B				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
[illegible]-45C				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
[illegible]-46A				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
[illegible]-46B				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	

ADDITIONAL COMMENTS: All standing water is frozen

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hanford Working Group
Project No.: 15-03095.14-007/15F0024
Date(s) of Inspection: 1/18/04
Field Personnel: B. Hoheman

WELL INTEGRITY INFORMATION

Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
HMW-46C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-47A				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-47B				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-47C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-36A				1	PVC	~~Y~~ N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-36B				1	PVC	~~Y~~ N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-36C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-35A				1	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-35B				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-35C				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-35D				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP.																									

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hatford Working Group
Project No.: 15-08095.14-007 & 15.004
Date(s) of Inspection: 1/19/04
Field Personnel: B. Hohman

WELL INTEGRITY INFORMATION

Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
MP-34A				1	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-34B				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	Missing Bolt
MP-34C				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-33A				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-33B				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-33C				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-33D				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-32A				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-32B				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-32C				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-31A				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-31B				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-31C				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-43A+B				1,1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	

ADDITIONAL COMMENTS:

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hanford Working Group
Project No.: 15-03095.14-6971 15-004
Date(s) of Inspection: 1/19/05
Field Personnel: B. Hahemer

WELL INTEGRITY INFORMATION

Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
MP-43 C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-12 S				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-12 D				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-11 S				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-11 D				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-12 S				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-17 D				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
HMW-41 A				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-41B				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-41C				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-32				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	missing bolts
HMW-30				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	missing bolts
~~RWC~~ RW-4				4		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
RW-3				4		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	

ADDITIONAL COMMENTS: STANDING WATER IS FROZEN

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hanford Working Group
Project No.: 15-03095.04-007/15004
Date(s) of Inspection: 11/17/04 to 11/2/04
Field Personnel: B. Hehim

WELL INTEGRITY INFORMATION

Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
SWHA				4	N/C	N	N	Y	Y	N					Y	Y	N	N	—	—	Y				
HMW-31				2		Y	Y				Y	Y	N	Y	Y	Y	N	N	—	—		Y	Y	Y	
HMW-33				2		Y	Y				Y	Y	N	N	Y	Y	N	N				Y	Y	Y	
MF-6D				1		N	N				Y	Y	N	N	Y	Y	N	N				Y	Y	Y	
MF-5D				1		N	N				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MF-5S				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
HMW-21/22				2,2		Y	Y				Y	Y	N	N	Y	Y	N	N				Y	Y	Y	
HS-32				4		Y	Y	Y	Y	N					Y	Y	N	N	—	—	Y				
MF-8S				1		N	N				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MF-8D				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MF-9S				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MF-9D				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MF-51A				1		N	Y				Y	Y	N	N	Y	Y	N	N				Y	Y	Y	
MF-51B,C				1,1		N	Y				Y	Y	N	N	Y	Y	N	N				Y	Y	Y	

ADDITIONAL COMMENTS: Standing water is frozen

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hartford Work Group
Project No.: 15-03095, 14-007/15-001
Date(s) of Inspection: 1/15/01
Field Personnel: B. Holeman

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
MP-51D				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-56A+B				1,1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-56C				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-20				2		Y	Y				Y	Y	N	Y	Y	Y	Y	N				Y	Y	N	
MP-16S				1		N	N				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-16P				1		N	N				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-15S				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-15D				1		N	N				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-14S				1		N	N				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-14D				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-13S				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
MP-13D				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-41A+B				1,1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-41C				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	

ADDITIONAL COMMENTS: STANDING WATER IS FROZEN

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hanford Work Group
Project No.: 15-03095.14-007/15-004
Date(s) of Inspection: 1/12/05
Field Personnel: B Hohener

WELL INTEGRITY INFORMATION

Well ID	Static Levels			Well Casing		Security		Protective Cover			Flush Mount				Concrete Pad				Bumper Posts			Grade/Slope			Additional Comment(s) Below
	Depth to Product (FT BTOC)	Depth to Water (FT BTOC)	Total Well Depth (FT BTOC)	Diameter (Inches)	Material	Well Secured/Locked	Well Cap Present	Present	Intact	Dented	Present	Intact	Cracked	Rubber Seal Present	Present	Intact	Cracked	Shifted Out of Place	Intact	Bent	Missing	Away From Well	Facilitates Access	Standing Water	
HMW-13+14				2,2	PVC	Y	Y				Y	Y	N	N	Y	Y	N	N				Y	Y	Y	Missing Bolts
~~HMW-8~~				~~2~~	~~↓~~	~~Y~~	~~Y~~				~~Y~~	~~Y~~	~~N~~	~~UNK~~											
HMW-7				2		Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	risers is loose
HMW-8				2	↓	Y	Y				Y	N	Y	Unk	Y	Y	N	N				Y	Y	Y	
MP-30A+B				1,1	↓	N	Y				Y	N	N	Y	Y	Y	N	N				Y	Y	Y	
MP-30C				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-49A+B				1,1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-49C				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-58A+B				1,1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-58C				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-50A				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-50B				1		N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-50C				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-52A+B				1,1	↓	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	

ADDITIONAL COMMENTS: STANDING WATER FROZEN

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: 15-GB09514-007/15004 Date(s) of Inspection: 1/19/05 – 1/20/05

Project No.: Hanford Works Area Field Personnel: B Hoherry

WELL INTEGRITY INFORMATION

	Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
	MP-52C				2	PVC	Y	Y	~~Y~~	~~Y~~	34	Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
1/19	HMW-51A				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
	HMW-51B				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
	HMW-51C				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
	MP-48A+B				1,1	↓	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	
	MP-48C				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
1/20	MP-55A				1	↓	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	1 Bolt missing
	MP-55B				1	↓	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
	MP-55C				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	1 Bolt missing
	RW-1				24	metal	Y	N/A	Y	Y	N	N/A	→													
	HMW-42A				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	1 Bolt missing
	HMW-42B				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
	HMW-52A				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
	HMW-52B,C				2,2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	[illegible]

ADDITIONAL COMMENTS: STANDING WATER IS FROZEN

EXISTING WELL INTEGRITY SURVEY FORM

PROJECT INFORMATION

Project Name: Hanford Work Crew — Date(s) of Inspection: 1/20/05

Project No.: 15-03045.14-007/115-001 — Field Personnel: M. Krzemiński

WELL INTEGRITY INFORMATION

Well ID	Static Levels: Depth to Product (FT BTOC)	Static Levels: Depth to Water (FT BTOC)	Static Levels: Total Well Depth (FT BTOC)	Well Casing: Diameter (Inches)	Well Casing: Material	Security: Well Secured/Locked	Security: Well Cap Present	Protective Cover: Present	Protective Cover: Intact	Protective Cover: Dented	Flush Mount: Present	Flush Mount: Intact	Flush Mount: Cracked	Flush Mount: Rubber Seal Present	Concrete Pad: Present	Concrete Pad: Intact	Concrete Pad: Cracked	Concrete Pad: Shifted Out of Place	Bumper Posts: Intact	Bumper Posts: Bent	Bumper Posts: Missing	Grade/Slope: Away From Well	Grade/Slope: Facilitates Access	Grade/Slope: Standing Water	Additional Comment(s) Below
MP-54A				1	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-54B				1	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-54C				2	↓	Y	Y				Y	Y	N	N	Y	Y	N	N				Y	Y	Y	1 Bolt missing
HB-30				2	↓	N	Y	Y	Y	N	N	N/A	→		N	N/A	→							→	
MP-47A				1	↓	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-47B				1	↓	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-47C				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-29C				2	PVC	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
MP-49D				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	Y	
HMW-48A				2	↓	Y	Y				Y	Y	N	Y	Y	Y	N	N				N	N	Y	see below
HMW-48B				2	↓	Y	Y		MK		Y	Y	N	Y	Y	Y	N	N				N	N	Y	
HB-31				2	PVC	N	Y				Y	Y	N	Y	Y	Y	N	N				Y	Y	N	

ADDITIONAL COMMENTS: Standing water is frozen

HMW-48A and 48B located in street gutter - where dirt + water collect. Cannot Access w/o shoveling away dirt + water - Also 48C + 48D (gauged on 1/17/05)

APPENDIX B

SUMMARY OF INDICATOR PARAMETER MEASUREMENTS

Clayton
GROUP SERVICES

APPENDIX B-1

JANUARY 2005

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:Premcor-Hartford Work Group-15-03095.12-002-HMW-25-1-21-2005.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name:	Bret Hoekman
Company Name:	CLAYTON GROUP SERVICES
Project Name:	Premcor-Hartford Work Group
Site Name:	15-03095.12-002
Well ID:	HMW-25

pH Sensor:	Installed	Target Value	0.1	[pH]	Target Percent	0	[%]
ORP Sensor:	Installed	Target Value	200	[mV]	Target Percent	0	[%]
DO Sensor:	Installed	Target Value	1	[ug/L]	Target Percent	0	[%]
Cond Sensor:	Installed	Target Value	200	[uS/cm @25C]	Target Percent	0	[%]
Turb Sensor:	Installed	Target Value	200	[NTU]	Target Percent	0	[%]

Pump Model/Type:	BLADDER	
Tubing Type:	PVC	
Tubing Diam:	0.25	[in]
Tubing Length:	38	[ft]
Well Depth:	38.71	[ft]
Well Diam:	2	[in]
Screen Len:	180	[in]
Screen Depth:	23.5	[ft]
Pump Inlet Depth:	0	[in]
Depth to Water:	24.64	[ft]
Pump Level (TOC):	31.5	[ft]
Final Pumping Rate:	200	[mL/min]
Stable Draw Down:	0	[in]
Total Volume Formula:	Volume = cup (200 mL) + tubing (366.8 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)	
Calculated Total Volume:	483.81	[mL]
Actual Total Volume:	483.81	[mL]
Calculated Measurement Interval:	146	[sec]
Actual Measurement Interval:	30	[sec]
Start date/time:	1/21/2005	9:28:43
End date/time:	1/21/2005	9:39:45
Total Time:	0:11:02	

Reading #	pH	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm @25C]	Variance	Turb [NTU]	Variance	Temp [F]	Variance	Time
4	6.69	0	51.1	-1.62	564.38	-37.24	1099.35	-1.12	42.81	-1.77	54.54	0.35	9:37:20
3	6.69	0	49.26	-1.84	535.21	-29.17	1100	0.65	45.8	2.99	54.44	-0.11	9:37:50
2	6.69	0	47.17	-2.09	512.08	-23.13	1097.13	-2.87	41.76	-4.03	54.92	0.49	9:38:20
1	6.69	0	45.46	-1.71	507.9	-4.17	1098.3	1.17	41.96	0.2	55.2	0.28	9:38:51
0	6.7	0	43.83	-1.62	512.87	4.97	1104.21	5.91	42.95	0.98	54.9	-0.31	9:39:20

pH Min:	6.69
pH Max:	6.7
ORP Min:	43.83
ORP Max:	51.1

DO Min:	507.9
DO Max:	564.38
Cond Min:	1097.13
Cond Max:	1104.21
Turb Min:	41.76
Turb Max:	45.8
Temp Min:	54.44
Temp Max:	55.2

Notes:
Device Record:

In-Situ Inc.	Troll 9000 Profiler XP	
Report generated:	3/7/2005	15:34:57
Report from file:	...\Premcor-Hartford Work Group-15-03095.12-002-HMW-25-1-21-2005.flo.bin	
Win-Situ Version	4.51	
Serial number:	31880	
Firmware Version	1.46	
Unit name:	MP Troll 9000	
Test name:	LowFlow	
Test defined on:	1/21/2005	9:28:43
Test started on:	1/21/2005	9:28:43
Test stopped on:	N/A	N/A

Data gathered using Event testing

Time between data points:	0.0 Seconds.	
Time between default storages:	0.0 Seconds.	
Monitoring data on channel [1]		
Data stored if delta value exceeds:	0	Fahrenheit
Number of data samples:	22	
TOTAL DATA SAMPLES	22	

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH pH	Chan[25] Clark DO ug/L	Chan[45] Conductivity mS/cm
1/21/2005	9:28:43	0	45.73	29.644	54.3	2.655	208	7.12	10440	470.03
1/21/2005	9:29:12	29	50.9	29.644	64.9	2.681	137	6.67	8283	720.04
1/21/2005	9:29:42	59	52.58	29.644	77.4	2.707	108	6.64	6112	786.83
1/21/2005	9:30:14	91	53.46	29.644	74.2	2.707	95	6.65	4162	817.79
1/21/2005	9:30:44	121	54.11	29.644	65.9	2.681	86	6.67	2884	831.64
1/21/2005	9:31:15	152	54.04	29.642	64.2	2.681	80	6.67	2160	834.5
1/21/2005	9:31:45	182	53.85	29.644	55.2	2.707	76	6.68	1697	831.04
1/21/2005	9:32:15	212	53.9	29.645	57.9	2.681	73	6.68	1425	829.99
1/21/2005	9:32:46	243	53.87	29.644	50.5	2.681	70	6.68	1241	829.84
1/21/2005	9:33:16	273	53.47	29.644	56.8	2.681	67	6.68	1107	827.32
1/21/2005	9:33:47	304	54.03	29.644	49.1	2.681	65	6.68	972	831.04
1/21/2005	9:34:16	333	54.18	29.643	50.6	2.707	62	6.69	863	833.74
1/21/2005	9:34:46	363	54.25	29.642	50.8	2.681	60	6.69	788	834.35
1/21/2005	9:35:18	395	54.44	29.644	49.5	2.707	58	6.69	716	836.47
1/21/2005	9:35:48	425	54.23	29.643	48.5	2.681	56	6.69	658	835.26
1/21/2005	9:36:19	456	54.06	29.644	41.7	2.681	54	6.69	625	833.15
1/21/2005	9:36:49	486	54.2	29.645	44.6	2.681	53	6.69	602	834.2
1/21/2005	9:37:20	517	54.54	29.645	42.8	2.681	51	6.69	564	837.38
1/21/2005	9:37:50	547	54.44	29.648	45.8	2.681	49	6.69	535	836.63
1/21/2005	9:38:20	577	54.93	29.648	41.8	2.707	47	6.69	512	840.13
1/21/2005	9:38:51	608	55.2	29.649	42	2.681	45	6.69	508	844.28
1/21/2005	9:39:20	637	54.9	29.65	42.9	2.681	44	6.7	513	845.22

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:Hartford Working Group-15-03095.15.003-HMW-26-1-21-2005.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name:	Bret Hoekman
Company Name:	CLAYTON GROUP SERVICES
Project Name:	Hartford Working Group
Site Name:	15-03095.15.003
Well ID:	HMW-26

pH Sensor:	Installed	Target Value	0.1	[pH]	Target Percent	0	[%]
ORP Sensor:	Installed	Target Value	200	[mV]	Target Percent	0	[%]
DO Sensor:	Installed	Target Value	1	[ug/L]	Target Percent	0	[%]
Cond Sensor:	Installed	Target Value	200	[uS/cm @25C]	Target Percent	0	[%]
Turb Sensor:	Installed	Target Value	200	[NTU]	Target Percent	0	[%]

Pump Model/Type:	BLADDER	
Tubing Type:	PVC	
Tubing Diam:	0.25	[in]
Tubing Length:	39	[ft]
Well Depth:	40	[ft]
Well Diam:	2	[in]
Screen Len:	180	[in]
Screen Depth:	25	[ft]
Pump Inlet Depth:	0	[in]
Depth to Water:	22.91	[ft]
Pump Level (TOC):	32.5	[ft]
Final Pumping Rate:	200	[mL/min]
Stable Draw Down:	0	[in]
Total Volume Formula:	Volume = cup (200 mL) + tubing (376.5 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)	
Calculated Total Volume:	493.46	[mL]
Actual Total Volume:	493.46	[mL]
Calculated Measurement Interval:	149	[sec]
Actual Measurement Interval:	30	[sec]
Start date/time:	1/21/2005	11:23:52
End date/time:	1/21/2005	11:35:53
Total Time:	0:12:01	

Reading #	pH	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm @25C]	Variance	Turb [NTU]	Variance	Temp [F]	Variance	Time
4	6.6	0	-81.7	-1.49	280.61	-5.41	1829.87	-2.62	10.91	0.68	57.85	0.13	11:33:29
3	6.6	0	-82.68	-0.98	276.42	-4.19	1826.57	-3.3	15.32	4.41	57.85	-0.01	11:33:59
2	6.6	0	-84.09	-1.41	278.48	2.06	1825.01	-1.56	11.99	-3.33	57.65	-0.19	11:34:29
1	6.6	0	-85.62	-1.54	282.13	3.66	1828.42	3.41	10.13	-1.85	57.82	0.17	11:34:59
0	6.6	0	-86.77	-1.15	284.23	2.1	1826.43	-1.99	10.87	0.74	57.62	-0.2	11:35:29

pH Min:	6.6
pH Max:	6.6
ORP Min:	-86.77
ORP Max:	-81.7
DO Min:	276.42
DO Max:	284.23
Cond Min:	1825.01

Cond Max:	1829.87
Turb Min:	10.13
Turb Max:	15.32
Temp Min:	57.62
Temp Max:	57.85

Notes:
Device Record:

In-Situ Inc.	Troll 9000 Profiler XP
Report generated:	3/7/2005 15:37:07
Report from file:	...\Hartford Working Group-15-03095.15.003-HMW-26-1-21-2005.flo.bin
Win-Situ Version	4.51
Serial number:	31880
Firmware Version	1.46
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	1/21/2005 11:23:52
Test started on:	1/21/2005 11:23:52
Test stopped on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0 seconds
Time between default storages:	0.0 seconds
Monitoring data on channel [1]	
Data stored if delta value exceeds:	0 Fahrenheit
Number of data samples:	24
TOTAL DATA SAMPLES	24

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temp F	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH	Chan[25] Clark DO ug/L	Chan[45] Conductivity mS/cm
1/21/2005	11:23:52	0	45.47	29.647	70.9	2.681	-52	6.76	10468	984.36
1/21/2005	11:24:21	29	50.93	29.647	50.6	2.707	-43	6.64	6761	1226.6
1/21/2005	11:24:51	59	53.81	29.647	37.2	2.681	-47	6.63	3769	1340.6
1/21/2005	11:25:22	90	55.05	29.647	33.3	2.707	-51	6.63	2156	1391.95
1/21/2005	11:25:52	120	55.77	29.648	31.5	2.655	-54	6.62	1391	1410.24
1/21/2005	11:26:22	150	56.3	29.648	26.1	2.681	-57	6.62	1021	1414.13
1/21/2005	11:26:53	181	56.65	29.648	21.7	2.707	-59	6.62	801	1418.49
1/21/2005	11:27:23	211	56.53	29.648	27.9	2.655	-61	6.61	619	1420.68
1/21/2005	11:27:54	242	56.97	29.647	22.4	2.655	-63	6.61	529	1427.28
1/21/2005	11:28:25	273	56.99	29.648	21.5	2.681	-65	6.61	457	1430.84
1/21/2005	11:28:56	304	57.14	29.648	25.5	2.655	-67	6.61	384	1435.74
1/21/2005	11:29:25	333	57.29	29.649	19.7	2.681	-69	6.61	354	1440.69
1/21/2005	11:29:56	364	57.7	29.649	19.4	2.681	-71	6.6	331	1451.58
1/21/2005	11:30:26	394	57.49	29.648	18.9	2.681	-73	6.61	291	1448.86
1/21/2005	11:30:56	424	57.4	29.649	10	2.707	-74	6.6	301	1445.25
1/21/2005	11:31:26	454	57.72	29.649	13.3	2.655	-75	6.6	304	1453.91
1/21/2005	11:31:57	485	57.92	29.648	10.9	2.681	-77	6.6	297	1461.29
1/21/2005	11:32:27	515	57.94	29.648	12.1	2.707	-79	6.6	274	1459.92
1/21/2005	11:32:57	545	57.72	29.648	10.2	2.681	-80	6.6	286	1457.64
1/21/2005	11:33:29	577	57.85	29.647	10.9	2.707	-82	6.6	281	1458.12
1/21/2005	11:33:59	607	57.85	29.646	15.3	2.681	-83	6.6	276	1455.38
1/21/2005	11:34:29	637	57.65	29.645	12	2.707	-84	6.6	278	1450.37
1/21/2005	11:34:59	667	57.82	29.644	10.1	2.707	-86	6.6	282	1456.34
1/21/2005	11:35:29	697	57.62	29.643	10.9	2.707	-87	6.6	284	1450.86

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:Hartford Working Group-15-03095.15.003-HMW-27-1-21-2005.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name:	Bret Hoekman
Company Name:	CLAYTON GROUP SERVICES
Project Name:	Hartford Working Group
Site Name:	15-03095.15.003
Well ID:	HMW-27

pH Sensor:	Installed	Target Value	0.1	[pH]	Target Percent	0	[%]
ORP Sensor:	Installed	Target Value	200	[mV]	Target Percent	0	[%]
DO Sensor:	Installed	Target Value	1	[ug/L]	Target Percent	0	[%]
Cond Sensor:	Installed	Target Value	200	[uS/cm @25C]	Target Percent	0	[%]
Turb Sensor:	Installed	Target Value	200	[NTU]	Target Percent	0	[%]

Pump Model/Type:	BLADDER	
Tubing Type:	PVC	
Tubing Diam:	0.25	[in]
Tubing Length:	39	[ft]
Well Depth:	40	[ft]
Well Diam:	2	[in]
Screen Len:	180	[in]
Screen Depth:	25	[ft]
Pump Inlet Depth:	0	[in]
Depth to Water:	28.29	[ft]
Pump Level (TOC):	32.5	[ft]
Final Pumping Rate:	200	[mL/min]
Stable Draw Down:	0	[in]
Total Volume Formula:	Volume = cup (200 mL) + tubing (376.5 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)	
Calculated Total Volume:	493.46	[mL]
Actual Total Volume:	493.46	[mL]
Calculated Measurement Interval:	149	[sec]
Actual Measurement Interval:	30	[sec]
Start date/time:	1/21/2005	13:27:15
End date/time:	1/21/2005	13:36:09
Total Time:	0:08:54	

Reading #	pH	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm @25C]	Variance	Turb [NTU]	Variance	Temp [F]	Variance	Time
4	6.59	0	-23.1	-0.47	7092.4	-147	1390.96	-1.97	16.87	0.09	58.37	0.27	13:33:50
3	6.59	0	-23.31	-0.21	7038.17	-54.23	1393.09	2.14	18.52	1.65	58.23	-0.13	13:34:21
2	6.59	0	-23.57	-0.26	6950.11	-88.05	1392.81	-0.28	19.37	0.85	58.21	-0.02	13:34:51
1	6.59	0	-23.74	-0.17	6800.14	-149.97	1390.89	-1.93	20.64	1.27	58.55	0.34	13:35:21
0	6.58	0	-23.74	0	6757.55	-42.59	1394.16	3.28	21.51	0.87	58.45	-0.1	13:35:53

pH Min:	6.58
pH Max:	6.59
ORP Min:	-23.74
ORP Max:	-23.1
DO Min:	6757.55
DO Max:	7092.4
Cond Min:	1390.89
Cond Max:	1394.16

Turb Min:	16.87
Turb Max:	21.51
Temp Min:	58.21
Temp Max:	58.55

Notes:
Device Record:

In-Situ Inc.	Troll 9000 Profiler XP
Report generated:	3/7/2005 15:37:41
Report from file:	...\Hartford Working Group-15-03095.15.003-HMW-27-1-21-2005.flo.bin
Win-Situ Version	4.51
Serial number:	31880
Firmware Version	1.46
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	1/21/2005 13:27:15
Test started on:	1/21/2005 13:27:15
Test stopped on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0 seconds
Time between default storages:	0.0 seconds
Monitoring data on channel [1]	
Data stored if delta value exceeds:	0 Fahrenheit
Number of data samples:	18
TOTAL DATA SAMPLES	18

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temp F	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH	Chan[25] Clark DO ug/L	Chan[45] Conductivity mS/cm
---	--	--	--	--	--	--	--	--	--	--
1/21/2005	13:27:15	0	52.74	29.576	22.4	2.681	-1	6.7	9485	956.22
1/21/2005	13:27:45	30	54.72	29.579	18.2	2.681	-5	6.65	9055	1054.77
1/21/2005	13:28:15	60	55.56	29.577	10.7	2.707	-9	6.63	8830	1073.4
1/21/2005	13:28:46	91	55.9	29.576	13	2.681	-12	6.62	8674	1078.41
1/21/2005	13:29:16	121	56.58	29.578	9	2.707	-14	6.61	8380	1088.07
1/21/2005	13:29:47	152	57.02	29.577	10.3	2.681	-16	6.61	8168	1093.48
1/21/2005	13:30:17	182	57.53	29.576	10.3	2.707	-17	6.6	7948	1103.94
1/21/2005	13:30:49	214	57.65	29.577	10.3	2.681	-18	6.59	7834	1106.58
1/21/2005	13:31:19	244	57.94	29.576	12.1	2.707	-19	6.59	7676	1108.18
1/21/2005	13:31:49	274	58.07	29.575	11.3	2.707	-20	6.59	7549	1112.18
1/21/2005	13:32:19	304	58.22	29.574	14	2.681	-21	6.59	7416	1117.3
1/21/2005	13:32:50	335	58.01	29.575	16.7	2.655	-22	6.59	7361	1115.41
1/21/2005	13:33:20	365	58.1	29.574	16.8	2.707	-23	6.59	7239	1113.52
1/21/2005	13:33:50	395	58.37	29.576	16.9	2.707	-23	6.59	7092	1115.95
1/21/2005	13:34:21	426	58.23	29.577	18.5	2.681	-23	6.59	7038	1115.68
1/21/2005	13:34:51	456	58.21	29.578	19.4	2.707	-24	6.59	6950	1115.14
1/21/2005	13:35:21	486	58.55	29.578	20.6	2.707	-24	6.59	6800	1118.66
1/21/2005	13:35:53	518	58.45	29.579	21.5	2.707	-24	6.58	6758	1119.75

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:Hartford Working Group-15-03095.15.003-HMW-28-1-21-2005.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name:	Bret Hoekman
Company Name:	CLAYTON GROUP SERVICES
Project Name:	Hartford Working Group
Site Name:	15-03095.15.003
Well ID:	HMW-28

pH Sensor:	Installed	Target Value	0.1	[pH]	Target Percent	0	[%]
ORP Sensor:	Installed	Target Value	200	[mV]	Target Percent	0	[%]
DO Sensor:	Installed	Target Value	1	[ug/L]	Target Percent	0	[%]
Cond Sensor:	Installed	Target Value	200	[uS/cm @25C]	Target Percent	0	[%]
Turb Sensor:	Installed	Target Value	200	[NTU]	Target Percent	0	[%]

Pump Model/Type:	BLADDER	
Tubing Type:	PVC	
Tubing Diam:	0.25	[in]
Tubing Length:	39	[ft]
Well Depth:	40	[ft]
Well Diam:	2	[in]
Screen Len:	160	[in]
Screen Depth:	25	[ft]
Pump Inlet Depth:	0	[in]
Depth to Water:	27.17	[ft]
Pump Level (TOC):	32.5	[ft]
Final Pumping Rate:	200	[mL/min]
Stable Draw Down:	0	[in]
Total Volume Formula:	Volume = cup (200 mL) + tubing (376.5 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)	
Calculated Total Volume:	493.46	[mL]
Actual Total Volume:	493.46	[mL]
Calculated Measurement Interval:	149	[sec]
Actual Measurement Interval:	30	[sec]
Start date/time:	1/21/2005	14:22:08
End date/time:	1/21/2005	14:31:18
Total Time:	0:09:10	

Reading #	pH	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm @25C]	Variance	Turb [NTU]	Variance	Temp [F]	Variance	Time
4	6.66	0	3.76	-0.98	194.92	5.58	1121.91	0.46	2.33	-0.37	57.16	-0.12	14:29:14
3	6.66	0	2.95	-0.81	203.94	9.02	1122.23	0.32	3.14	0.8	57.26	0.11	14:29:44
2	6.66	0	2.1	-0.85	207.54	3.6	1121.11	-1.13	2.28	-0.86	57.47	0.2	14:30:15
1	6.66	0	1.29	-0.81	213.73	6.19	1124.02	2.91	2.52	0.24	57.26	-0.21	14:30:46
0	6.66	0	0.39	-0.9	217.83	4.1	1122.69	-1.33	2.1	-0.42	57.38	0.12	14:31:16

pH Min:	6.66
pH Max:	6.66
ORP Min:	0.39
ORP Max:	3.76
DO Min:	194.92
DO Max:	217.83
Cond Min:	1121.11
Cond Max:	1124.02

Turb Min:	2.1
Turb Max:	3.14
Temp Min:	57.16
Temp Max:	57.47

Notes:
Device Record:

In-Situ Inc.	Troll 9000 Profiler XP	
Report generated:	3/7/2005	15:38:25
Report from file:	...\Hartford Working Group-15-03095.15.003-HMW-28-1-21-2005.flo.bin	
Win-Situ Version	4.51	
Serial number:	31880	
Firmware Version	1.46	
Unit name:	MP Troll 9000	
Test name:	LowFlow	
Test defined on:	1/21/2005	14:22:08
Test started on:	1/21/2005	14:22:08
Test stopped on:	N/A	N/A

Data gathered using Event testing

Time between data points:	0.0 seconds
Time between default storages:	0.0 seconds
Monitoring data on channel [1]	
Data stored if delta value exceeds:	0 Fahrenheit
Number of data samples:	19
TOTAL DATA SAMPLES	19

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temp F	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH	Chan[25] Clark DO ug/L	Chan[45] Conductivity mS/cm
---	--	--	--	--	--	--	--	--	--	--
1/21/2005	14:22:08	0	50.29	29.538	11.7	2.707	14	6.78	7282	784.48
1/21/2005	14:22:38	30	53.1	29.537	7.5	2.681	17	6.72	3801	839.87
1/21/2005	14:23:08	60	54.53	29.537	8.3	2.681	16	6.71	2059	855.28
1/21/2005	14:23:39	91	55.52	29.537	6.7	2.681	16	6.7	1208	864.74
1/21/2005	14:24:09	121	55.81	29.536	6.3	2.707	15	6.69	784	870.61
1/21/2005	14:24:40	152	56.34	29.536	7	2.707	13	6.68	551	876.73
1/21/2005	14:25:10	182	56.89	29.537	3.6	2.707	12	6.68	407	881.43
1/21/2005	14:25:42	214	56.85	29.535	4.2	2.707	11	6.68	321	882.27
1/21/2005	14:26:12	244	56.74	29.535	4	2.707	10	6.67	259	880.43
1/21/2005	14:26:42	274	56.96	29.535	4.3	2.707	9	6.67	229	882.79
1/21/2005	14:27:12	304	56.95	29.535	3.2	2.707	8	6.67	215	883.98
1/21/2005	14:27:43	335	57.06	29.535	6.6	2.655	7	6.67	205	884.49
1/21/2005	14:28:13	365	57.17	29.534	2.6	2.707	6	6.67	195	884.83
1/21/2005	14:28:43	395	57.27	29.534	2.7	2.681	5	6.67	189	886.7
1/21/2005	14:29:14	426	57.16	29.534	2.3	2.707	4	6.66	195	885.68
1/21/2005	14:29:44	456	57.26	29.533	3.1	2.707	3	6.66	204	887.22
1/21/2005	14:30:15	487	57.47	29.533	2.3	2.707	2	6.66	208	888.76
1/21/2005	14:30:46	518	57.26	29.532	2.5	2.681	1	6.66	214	888.59
1/21/2005	14:31:16	548	57.38	29.532	2.1	2.707	0	6.66	218	888.93

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:Hartford Working Group-15-03095.15.003-HMW-29-1-21-2005.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name:	Bret Hoekman
Company Name:	CLAYTON GROUP SERVICES
Project Name:	Hartford Working Group
Site Name:	15-03095.15.003
Well ID:	HMW-29

pH Sensor:	Installed	Target Value	0.1	[pH]	Target Percent	0	[%]
ORP Sensor:	Installed	Target Value	200	[mV]	Target Percent	0	[%]
DO Sensor:	Installed	Target Value	1	[ug/L]	Target Percent	0	[%]
Cond Sensor:	Installed	Target Value	200	[uS/cm @25C]	Target Percent	0	[%]
Turb Sensor:	Installed	Target Value	200	[NTU]	Target Percent	0	[%]

Pump Model/Type:	BLADDER	
Tubing Type:	PVC	
Tubing Diam:	0.25	[in]
Tubing Length:	39	[ft]
Well Depth:	40	[ft]
Well Diam:	2	[in]
Screen Len:	160	[in]
Screen Depth:	25	[ft]
Pump Inlet Depth:	0	[in]
Depth to Water:	27.15	[ft]
Pump Level (TOC):	32.5	[ft]
Final Pumping Rate:	200	[mL/min]
Stable Draw Down:	0	[in]
Total Volume Formula:	Volume = cup (200 mL) + tubing (376.5 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)	
Calculated Total Volume:	493.46	[mL]
Actual Total Volume:	493.46	[mL]
Calculated Measurement Interval:	149	[sec]
Actual Measurement Interval:	30	[sec]
Start date/time:	1/21/2005	16:59:55
End date/time:	1/21/2005	17:09:03
Total Time:	0:09:08	

Reading #	pH	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm @25C]	Variance	Turb [NTU]	Variance	Temp [F]	Variance	Time
4	6.5	-0.02	-17.03	-0.42	132.93	-4.59	1036.48	0.44	280.17	-9.36	57.98	0.08	17:07:00
3	6.48	-0.01	-16.94	0.09	118.88	-14.05	1036.77	0.29	277.78	-2.39	58.09	0.11	17:07:32
2	6.5	0.02	-18.94	-2.01	128.17	9.29	1037.69	0.92	262.89	-14.88	58.19	0.1	17:08:02
1	6.5	0	-20.01	-1.07	132.2	4.04	1038.88	1.19	256.07	-6.83	58.43	0.24	17:08:32
0	6.48	-0.02	-20.26	-0.25	133.42	1.22	1042.17	3.28	237.52	-18.54	58.22	-0.21	17:09:03

pH Min:	6.48
pH Max:	6.5
ORP Min:	-20.26
ORP Max:	-16.94
DO Min:	118.88
DO Max:	133.42
Cond Min:	1036.48
Cond Max:	1042.17

Turb Min:	237.52
Turb Max:	280.17
Temp Min:	57.98
Temp Max:	58.43

Notes:
Device Record:

In-Situ Inc.	Troll 9000 Profiler XP
Report generated:	3/7/2005 15:28:32
Report from file:	...\Hartford Working Group-15-03095.15.003-HMW-29-1-21-2005.flo.bin
Win-Situ Version	4.51
Serial number:	31880
Firmware Version	1.46
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	1/21/2005 16:59:55
Test started on:	1/21/2005 16:59:55
Test stopped on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0 seconds
Time between default storages:	0.0 seconds
Monitoring data on channel [1]	
Data stored if delta value exceeds:	0 Fahrenheit
Number of data samples:	19
TOTAL DATA SAMPLES	19

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temp F	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH	Chan[25] Clark DO ug/L	Chan[45] Conductivity mS/cm
---	---	---	---	---	---	---	---	---	---	---
1/21/2005	16:59:55	0	49.62	29.468	470.2	2.655	-16	6.87	8894	715.62
1/21/2005	17:00:24	29	53.19	29.468	467.8	2.681	-14	6.8	5006	763.33
1/21/2005	17:00:54	59	54.83	29.468	485.4	2.655	-15	6.76	2647	778.13
1/21/2005	17:01:25	90	55.72	29.47	476.3	2.707	-14	6.7	1497	791.48
1/21/2005	17:01:55	120	56.25	29.471	486.6	2.655	-13	6.66	967	798.74
1/21/2005	17:02:26	151	56.72	29.472	445.3	2.707	-13	6.62	711	802.64
1/21/2005	17:02:57	182	57.31	29.472	445.7	2.681	-13	6.6	561	808.69
1/21/2005	17:03:28	213	57.38	29.472	393.2	2.655	-12	6.57	446	814.11
1/21/2005	17:03:58	243	57.45	29.472	390.8	2.655	-12	6.54	351	814.84
1/21/2005	17:04:29	274	57.65	29.472	334.4	2.655	-14	6.56	274	820.49
1/21/2005	17:04:59	304	57.81	29.473	309.1	2.655	-15	6.55	202	822.11
1/21/2005	17:05:29	334	57.84	29.473	322.1	2.707	-16	6.54	156	822.26
1/21/2005	17:05:59	364	58.01	29.474	323.1	2.707	-15	6.51	137	827.28
1/21/2005	17:06:30	395	57.9	29.474	289.5	2.655	-17	6.52	138	826.1
1/21/2005	17:07:00	425	57.98	29.476	280.2	2.655	-17	6.5	133	827.29
1/21/2005	17:07:32	457	58.09	29.478	277.8	2.707	-17	6.48	119	828.78
1/21/2005	17:08:02	487	58.19	29.481	262.9	2.681	-19	6.5	128	830.58
1/21/2005	17:08:32	517	58.43	29.484	256.1	2.655	-20	6.5	132	834.19
1/21/2005	17:09:03	548	58.22	29.49	237.5	2.655	-20	6.48	133	834.5

Clayton
GROUP SERVICES

APPENDIX B-2

FEBRUARY 2005

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:HARTFORD WORKING GROUP-HARTFORD-HMW-25-2-3-2005.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name:	NORMAN BOLIVAR
Company Name:	CLAYTON GROUP
Project Name:	HARTFORD WORKING GROUP
Site Name:	HARTFORD
Well ID:	HMW-25

pH Sensor:	Installed	Target Value	0	[pH]	Target Percent	0	[%]
ORP Sensor:	Installed	Target Value	0	[mV]	Target Percent	0	[%]
DO Sensor:	Installed	Target Value	0	[ug/L]	Target Percent	0	[%]
Cond Sensor:	Installed	Target Value	0	[uS/cm]	Target Percent	0	[%]
Turb Sensor:	Installed	Target Value	0	[NTU]	Target Percent	0	[%]

Pump Model/Type:	MICRO-PURGE	
Tubing Type:	POLY	
Tubing Diam:	0.17	[in]
Tubing Length:	40.87	[ft]
Well Depth:	38.87	[ft]
Well Diam:	2	[in]
Screen Len:	180	[in]
Screen Depth:	23.7	[ft]
Pump Inlet Depth:	0	[in]
Depth to Water:	25.66	[ft]
Pump Level (TOC):	31	[ft]
Final Pumping Rate:	0	[mL/min]
Stable Draw Down:	0	[in]
Total Volume Formula:	Volume is user calculated.	
Calculated Total Volume:	299.42	[mL]
Actual Total Volume:	30	[mL]
Calculated Measurement Interval:	900	[sec]
Actual Measurement Interval:	900	[sec]
Start date/time:	2/3/2005	17:38:35
End date/time:	2/3/2005	17:49:16
Total Time:	0:10:41	

Reading #	pH	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.36	0	35.3	0.09	1923.32	42.12	1010.07	0.78	24.73	-1.34	14.51	0.01	17:45:57
3	6.37	0	35.51	0.21	1758.65	-164.67	1009.67	-0.4	27.46	2.72	14.53	0.02	17:46:33
2	6.37	0	35.81	0.3	1803.31	44.66	1009.66	-0.01	24.47	-2.99	14.51	-0.02	17:47:07
1	6.37	0	36.02	0.21	1777.33	-25.98	1006.52	-3.15	25.11	0.64	14.49	-0.02	17:47:40
0	6.38	0	36.45	0.43	1657.78	-119.56	1008.08	1.56	24.19	-0.92	14.49	0	17:48:30

pH Min:	6.36
pH Max:	6.38
ORP Min:	35.3
ORP Max:	36.45
DO Min:	1657.78
DO Max:	1923.32
Cond Min:	1006.52
Cond Max:	1010.07

Turb Min:	24.19
Turb Max:	27.46
Temp Min:	14.49
Temp Max:	14.53

Notes:
Device Record:

In-Situ Inc.	Troll 9000 Pro XP
Report generated:	3/7/2005 15:24:33
Report from file:	...\HARTFORD WORKING GROUP-HARTFORD-HMW-25-2-3-2005.flo.bin
Win-Situ Version	4.51
Serial number:	31923
Firmware Version	1.46
Unit name:	MP Troll 9000
Test name:	LowFlow
Test defined on:	2/3/2005 17:38:35
Test started on:	2/3/2005 17:38:35
Test stopped on:	N/A N/A

Data gathered using Event testing

Time between data points:	0.0 seconds	
Time between default storages:	0.0 seconds	
Monitoring data on channel [1]		
Data stored if delta value exceeds:	0	Fahrenheit
Number of data samples:	15	
TOTAL DATA SAMPLES	15	

Channel number [1]

Measurement type:	Temperature
Channel name:	

Channel number [2]

Measurement type:	Pressure	
Channel name:	Pressure	
Sensor Range:	30 PSIG.	
Specific gravity:	1	
Mode:	TOC	
User-defined reference:	0	Feet H2O
Referenced on:	test start	
Pressure head at reference:	0.351	Feet H2O

Channel number [3]

Measurement type:	Barometric Pressure
Channel name:	

Channel number [4]

Measurement type:	Turbidity
Channel name:	

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [45]
Measurement type: Conductivity
Channel name:

Date	Time	ET (sec)	Chan[1] Temp Fahrenheit	Chan[2] Pressure Feet H2O	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH	Chan[25] Clark DO ug/L	Chan[45] Conductivity mS/cm
2/3/2005	17:38:35	0	52.47	0	29.891	27.1	2.785	60	5.96	8378	940.27
2/3/2005	17:39:53	78	56.47	-0.006	29.89	40.7	2.759	44	6.22	3531	999.22
2/3/2005	17:40:45	130	56.99	-0.023	29.891	39.5	2.759	40	6.28	2782	995.95
2/3/2005	17:41:25	170	57.72	-0.01	29.891	35.4	2.785	38	6.31	2480	997.86
2/3/2005	17:41:56	201	57.87	-0.01	29.891	42.7	2.759	37	6.32	2205	1002.29
2/3/2005	17:42:54	259	57.96	-0.01	29.892	38.3	2.759	36	6.34	1991	1005.2
2/3/2005	17:43:31	296	57.91	-0.002	29.892	34.3	2.759	35	6.35	2041	1011.87
2/3/2005	17:44:03	328	58.01	-0.001	29.893	28.1	2.759	35	6.35	1883	1009.5
2/3/2005	17:44:33	358	58.03	0.033	29.893	27.9	2.759	35	6.36	1926	1008.31
2/3/2005	17:45:24	409	58.1	0.059	29.893	26.1	2.759	35	6.36	1881	1009.29
2/3/2005	17:45:57	442	58.11	0.056	29.893	24.7	2.759	35	6.36	1923	1010.07
2/3/2005	17:46:33	478	58.15	-0.019	29.893	27.5	2.759	36	6.37	1759	1009.67
2/3/2005	17:47:07	512	58.12	-0.019	29.894	24.5	2.759	36	6.37	1803	1009.66
2/3/2005	17:47:40	545	58.08	-0.017	29.893	25.1	2.759	36	6.37	1777	1006.52
2/3/2005	17:48:30	595	58.08	0.005	29.894	24.2	2.759	36	6.38	1658	1008.08

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:15-03095.14.007-Hartford Working Group-HMW-29-2-6-2005.flo To Generate a report insert a new sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name:	Darren Lamsma
Company Name:	CLAYTON GROUP SERVICES
Project Name:	15-03095.14.007
Site Name:	Hartford Working Group
Well ID:	HMW-29

pH Sensor:	Installed	Target Value	0.1	[pH]	Target Percent	0	[%]
ORP Sensor:	Installed	Target Value	10	[mV]	Target Pecent	0	[%]
DO Sensor:	Installed	Target Value	200	[mg/L]	Target Pecent	0	[%]
Cond Sensor:	Installed	Target Value	10	[uS/cm]	Target Pecent	0	[%]
Turb Sensor:	Installed	Target Value	200	[NTU]	Target Pecent	0	[%]

Pump Model/Type:	BLADDER PUMP	
Tubing Type:	PVC	
Tubing Diam:	0.17	[in]
Tubing Length:	35	[ft]
Well Depth:	40	[ft]
Well Diam:	2	[in]
Screen Len:	176.4	[in]
Screen Depth:	25	[ft]
Pump Inlet Depth:	0	[in]
Depth to Water:	26	[ft]
Pump Level (TOC):	30	[ft]
Final Pumping Rate:	0	[mL/min]
Stable Draw Down:	0	[in]
Total Volume Formula:	Volume = cup (200 mL) + tubing (156.2 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)	
Calculated Total Volume:	273.22	[mL]
Actual Total Volume:	273.22	[mL]
Calculated Measurement Interval:	8197	[sec]
Actual Measurement Interval:	30	[sec]
Start date/time:	2/6/2005	11:14:42
End date/time:	2/6/2005	11:21:13
Total Time:	0:06:31	

Reading #	pH	Variance	ORP [mV]	Variance	DO [mg/L]	Variance	Cond [uS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	7.34	0	230.51	0.73	1.41	-0.15	900.52	0.81	366.12	-5.51	14.63	0.03	11:18:45
3	7.34	0	231.15	0.64	1.32	-0.09	901.83	1.3	348.21	-17.92	14.66	0.02	11:19:16
2	7.34	0	231.75	0.6	1.25	-0.07	902.15	0.33	331.49	-16.72	14.65	0	11:19:46
1	7.34	0	232.31	0.56	1.2	-0.05	903.13	0.98	331.22	-0.27	14.67	0.02	11:20:17
0	7.34	0	233.46	1.15	1.18	-0.02	903.13	0	312.02	-19.2	14.66	-0.01	11:20:47

pH Min:	7.34
pH Max:	7.34
ORP Min:	230.51
ORP Max:	233.46
DO Min:	1.18
DO Max:	1.41
Cond Min:	900.52
Cond Max:	903.13

Turb Min:	312.02
Turb Max:	366.12
Temp Min:	14.63
Temp Max:	14.67

Notes:
Device Record:

In-Situ Inc.	Troll 9000 Pro XP	
Report generated:	3/2/2005	8:41:59
Report from file:	...\15-03095.14.007-Hartford Working Group-HMW-29-2-6-2005.flo.bin	
Win-Situ Version	4.51	
Serial number:	31923	
Firmware Version	1.46	
Unit name:	MP Troll 9000	
Test name:	LowFlow	
Test defined on:	2/6/2005	11:14:42
Test started on:	2/6/2005	11:14:42
Test stopped on:	N/A	N/A

Data gathered using Event testing

Time between data points:	0.0 seconds	
Time between default storages:	0.0 seconds	
Monitoring data on channel [1]		
Data stored if delta value exceeds:	0	Fahrenheit
Number of data samples:	13	
TOTAL DATA SAMPLES	13	

Channel number [1]

Measurement type:	Temperature
Channel name:	

Channel number [2]

Measurement type:	Pressure	
Channel name:	Pressure	
Sensor Range:	30 PSIG.	
Specific gravity:	1	
Mode:	TOC	
User-defined reference:	0	Feet H2O
Referenced on:	test start	
Pressure head at reference:	0.321	Feet H2O

Channel number [3]

Measurement type:	Barometric Pressure
Channel name:	

Channel number [4]

Measurement type:	Turbidity
Channel name:	

Channel number [5]

Measurement type:	Battery Voltage
Channel name:	

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [45]
Measurement type: Conductivity
Channel name:

Date	Time	ET (sec)	Chan[1] Temp F	Chan[2] Pressure Feet H2O	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH	Chan[25] Clark DO ug/L	Chan[45] Conductivity mS/cm
---	---	---	---	---	---	---	---	---	---	---	---
2/6/2005	11:14:42	0	54.75	0	29.775	155.3	2.811	219	7.17	10804	861.73
2/6/2005	11:15:12	30	56.79	-0.006	29.775	252.4	2.811	221	7.27	7655	872.6
2/6/2005	11:15:42	60	57.5	-0.005	29.775	281.7	2.811	223	7.3	4766	882.18
2/6/2005	11:16:12	90	57.72	-0.006	29.775	321.9	2.785	226	7.31	3234	888.63
2/6/2005	11:16:43	121	57.86	-0.002	29.775	369.3	2.811	227	7.32	2437	892.78
2/6/2005	11:17:14	152	58.01	-0.003	29.774	371.8	2.785	228	7.33	1999	895.83
2/6/2005	11:17:44	182	58.22	-0.002	29.775	381.2	2.811	229	7.34	1736	897.6
2/6/2005	11:18:15	213	58.29	-0.003	29.774	371.6	2.785	230	7.34	1559	899.71
2/6/2005	11:18:45	243	58.34	-0.003	29.774	366.1	2.785	231	7.34	1413	900.52
2/6/2005	11:19:16	274	58.39	-0.001	29.774	348.2	2.811	231	7.34	1320	901.83
2/6/2005	11:19:46	304	58.38	0	29.774	331.5	2.811	232	7.34	1254	902.15
2/6/2005	11:20:17	335	58.41	-0.001	29.773	331.2	2.785	232	7.34	1204	903.13
2/6/2005	11:20:47	365	58.39	-0.001	29.772	312	2.811	233	7.34	1181	903.13

Clayton
GROUP SERVICES

APPENDIX B-3

MARCH 2005

INSTRUCTIONS: This is the raw data export format from the Win-Situ Low Flow Cell data file:HARTFORT WORKING GROUPS -15-03095.15-004-HMW-25_-3-2-2005.flo *To Generate a report insert a new* sheet based on a sheet template. See 'Sheet Template' and 'Insert a new sheet thats based on a custom template' in Excel help. An example template, InSituLowFlow.xlt, is provided by the Win-Situ Installation. You may copy this template from the templates subfolder in the folder where Win-Situ is installed to your Excel templates directory.

Operator Name:	NORMAN BOLIVAR
Company Name:	CLAYTON GROUP
Project Name:	HARTFORT WORKING GROUPS
Site Name:	15-03095.15-004
Well ID:	HMW-25_

pH Sensor:	Installed	Target Value	0	[pH]	Target Percent	0	[%]
ORP Sensor:	Installed	Target Value	0	[mV]	Target Percent	0	[%]
DO Sensor:	Installed	Target Value	0	[ug/L]	Target Percent	0	[%]
Cond Sensor:	Installed	Target Value	0	[uS/cm]	Target Percent	0	[%]
Turb Sensor:	Installed	Target Value	0	[NTU]	Target Percent	0	[%]

Pump Model/Type:	MICRO-PURGE	
Tubing Type:	POLY	
Tubing Diam:	0.17	[in]
Tubing Length:	38.89	[ft]
Well Depth:	38.89	[ft]
Well Diam:	2	[in]
Screen Len:	176.4	[in]
Screen Depth:	23.7	[ft]
Pump Inlet Depth:	0	[in]
Depth to Water:	24.79	[ft]
Pump Level (TOC):	31.39	[ft]
Final Pumping Rate:	0	[mL/min]
Stable Draw Down:	0	[in]
Total Volume Formula:	Volume = cup (200 mL) + tubing (173.6 mL) - pH_ORP (16 mL) - DO (14 mL) - Cond (13 mL) - Turb (40 mL)	
Calculated Total Volume:	290.58	[mL]
Actual Total Volume:	290.58	[mL]
Calculated Measurement Interval:	8718	[sec]
Actual Measurement Interval:	8718	[sec]
Start date/time:	3/2/2005	10:07:25
End date/time:	3/2/2005	10:16:21
Total Time:	0:08:56	

Reading #	pH	Variance	ORP [mV]	Variance	DO [ug/L]	Variance	Cond [uS/cm]	Variance	Turb [NTU]	Variance	Temp [C]	Variance	Time
4	6.52	0	84.87	-1.02	1084.59	-92.88	1014.37	1.7	14.79	0.36	13.53	0.01	10:12:56
3	6.52	0	84.02	-0.85	1030.27	-54.31	1014.37	0	14.49	-0.3	13.55	0.02	10:13:32
2	6.51	0	83.34	-0.68	980.88	-49.39	1015.01	0.64	16.15	1.65	13.56	0.02	10:14:11
1	6.52	0	82.44	-0.89	929.1	-51.78	1016.5	1.49	14.09	-2.05	13.63	0.07	10:14:50
0	6.52	0.01	81.55	-0.89	895.03	-34.07	1016.07	-0.42	15.35	1.25	13.64	0.01	10:15:29

pH Min:	6.51
pH Max:	6.52
ORP Min:	81.55
ORP Max:	84.87
DO Min:	895.03
DO Max:	1084.59
Cond Min:	1014.37

Cond Max:	1016.5
Turb Min:	14.09
Turb Max:	16.15
Temp Min:	13.53
Temp Max:	13.64

Notes:
Device Record:

In-Situ Inc.	Troll 9000 Profiler XP	
Report generated:	3/28/2005	13:29:58
Report from file:	...\HARTFORT WORKING GROUPS -15-03095.15-004-HMW-25_-3-2-2005.flo.bin	
Win-Situ Version	4.51	
Serial number:	31949	
Firmware Version	1.46	
Unit name:	MP Troll 9000	
Test name:	LowFlow	
Test defined on:	3/2/2005	10:07:25
Test started on:	3/2/2005	10:07:25
Test stopped on:	N/A	N/A

Data gathered using Event testing

Time between data points:	0.0 seconds	
Time between default storages:	0.0 seconds	
Monitoring data on channel [1]		
Data stored if delta value exceeds:	0	Fahrenheit
Number of data samples:	9	
TOTAL DATA SAMPLES	9	

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [3]
Measurement type: Barometric Pressure
Channel name:

Channel number [4]
Measurement type: Turbidity
Channel name:

Channel number [5]
Measurement type: Battery Voltage
Channel name:

Channel number [11]
Measurement type: ORP
Channel name:

Channel number [12]
Measurement type: pH
Channel name:

Channel number [25]
Measurement type: Dissolved Oxygen
Channel name:

Channel number [45]
Measurement type: Conductivity, Low Range
Channel name:

Date	Time	ET (sec)	Chan[1] Temp F	Chan[3] Barometric Inches Hg	Chan[4] Turbidity NTU	Chan[5] Battery Volts	Chan[11] ORP millivolts	Chan[12] pH	Chan[25] Clark DO ug/L	Chan[45] Conductivity mS/cm
---	---	---	---	---	---	---	---	---	---	---
3/2/2005	10:07:25	0	50.46	29.705	18.1	2.707	94	6.91	7865	962.64
3/2/2005	10:10:07	162	55.49	29.705	15.9	2.681	90	6.57	1738	1005.74
3/2/2005	10:11:21	236	56.17	29.705	16.5	2.681	87	6.54	1326	1013.72
3/2/2005	10:12:13	288	56.35	29.705	14.4	2.681	86	6.52	1177	1012.67
3/2/2005	10:12:56	331	56.36	29.705	14.8	2.681	85	6.52	1085	1014.37
3/2/2005	10:13:32	367	56.39	29.705	14.5	2.681	84	6.52	1030	1014.37
3/2/2005	10:14:11	406	56.42	29.705	16.1	2.707	83	6.51	981	1015.01
3/2/2005	10:14:50	445	56.53	29.705	14.1	2.655	82	6.52	929	1016.5
3/2/2005	10:15:29	484	56.55	29.705	15.3	2.681	82	6.52	895	1016.08

Appendix C

APPENDIX C

LABORATORY ANALYTICAL REPORTS

Clayton
GROUP SERVICES

APPENDIX C-1

TEKLAB, INC.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

February 02, 2005

Ken Comire
Clayton Group Services
3140 Finley Road
Downers Grove, IL 60515
TEL: (630) 795-3203
FAX: (630) 795-1130

ACCREDITED IN ACCORDANCE WITH nelac

NELAP Accredited #100226

RE: Sentinel Wells/ 15-03095-15.004

OrderNo. 05010552

Dear Ken Comire:

TEKLAB, INC received 5 samples on 1/21/05 5:12:00 PM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
LabOrder: 05010552
Report Date: February 02, 2005

REPORT CONTENTS

This reporting package includes the following:

Analysis Results (this document) ..... 23 *pages*

Chain of Custody ..... 1 *pages*

Associated Information ..... 1 *pages*

Sample Summary ..... 2 *pages*

Dates Report ..... 4 *pages*

QC Report ..... 38 *pages*

Sub Contracted Lab Report ..... NA *pages*

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
LabOrder: 05010552
Report Date: February 02, 2005

CASE NARRATIVE

Samples received did not meet hold time requirements for pH analysis. Additional nitric acid preservative was added to sample HMW-28 upon arrival; additional sodium hydroxide preservative was added to sample HMW-27 and HMW-26 upon arrival at the laboratory.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	***** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	Dup-001/050121
Lab ID:	05010552-001	**Collection Date:**	1/21/05
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
STANDARD METHODS 18TH ED. 2320 B									
Alkalinity, Total (as CaCO3)		NELAP	0		480	mg/L	1	1/27/05	DLY
STANDARD METHODS 18TH ED. 2340 C									
Hardness, as (CaCO3)		NELAP	5		492	mg/L	1	1/26/05	MLD
STANDARD METHODS 18TH ED. 2540 C (TOTAL)									
Total Dissolved Solids		NELAP	20		654	mg/L	1	1/27/05	JRS
STANDARD METHODS 18TH ED. 2540 D									
Total Suspended Solids		NELAP	6		10	mg/L	1	1/26/05	JRS
STANDARD METHODS 18TH ED. 4500-S D (TOTAL)									
Sulfide, Total - Colorimetric		NELAP	0.05		< 0.05	mg/L	1	1/26/05 2:50:00 PM	NNH
STANDARD METHODS 18TH ED. 5220 D (TOTAL)									
Chemical Oxygen Demand		NELAP	20		< 20	mg/L	1	1/25/05	NNH
SW-846 9012A (TOTAL)									
Cyanide			0.050		< 0.050	mg/L	1	1/25/05	SMR
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)									
Barium		NELAP	0.0050		0.233	mg/L	1	1/26/05 6:22:30 PM	SAM
Beryllium		NELAP	0.0010		< 0.0010	mg/L	1	1/26/05 6:22:30 PM	SAM
Cadmium		NELAP	0.0020		< 0.0020	mg/L	1	1/26/05 6:22:30 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:22:30 PM	SAM
Cobalt		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:22:30 PM	SAM
Nickel		NELAP	0.0100		0.0105	mg/L	1	1/26/05 6:22:30 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:22:30 PM	SAM
Vanadium		NELAP	0.0100	J	0.0050	mg/L	1	1/26/05 6:22:30 PM	SAM
Zinc		NELAP	0.0100		0.0117	mg/L	1	1/28/05 12:56:22 PM	JMW
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium		NELAP	0.0050		0.254	mg/L	1	1/26/05 4:57:40 PM	SAM
Beryllium		NELAP	0.0010		< 0.0010	mg/L	1	1/26/05 4:57:40 PM	SAM
Cadmium		NELAP	0.0020	J	0.0009	mg/L	1	1/26/05 4:57:40 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 4:57:40 PM	SAM
Cobalt		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 4:57:40 PM	SAM
Nickel		NELAP	0.0100		0.0106	mg/L	1	1/26/05 4:57:40 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 4:57:40 PM	SAM
Vanadium		NELAP	0.0100	J	0.0040	mg/L	1	1/26/05 4:57:40 PM	SAM
Zinc		NELAP	0.0100		0.0141	mg/L	1	1/26/05 4:57:40 PM	SAM
SW-846 3005A, METALS BY GFAA (DISSOLVED)									
Antimony	7041	NELAP	0.0050		< 0.0050	mg/L	1	1/28/05	JMF
Arsenic	7060A	NELAP	0.0030		< 0.0030	mg/L	1	1/27/05	SRS

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	Dup-001/050121
Lab ID:	05010552-001	**Collection Date:**	1/21/05
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Lead	7421	NELAP	0.0020		< 0.0020	mg/L	1	1/27/05	SRS
Selenium	7740	NELAP	0.0060		< 0.0060	mg/L	1	1/28/05	JMF
SW-846 3020A, METALS BY GFAA (TOTAL)									
Antimony	7041	NELAP	0.0050		< 0.0050	mg/L	1	1/28/05	JMF
Arsenic	7060A	NELAP	0.0030		< 0.0030	mg/L	1	1/30/05	SRS
Lead	7421	NELAP	0.0020		< 0.0020	mg/L	1	1/27/05	SRS
Selenium	7740	NELAP	0.0060		< 0.0060	mg/L	1	1/28/05	JMF
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
2,4-Dimethylphenol		NELAP	0.010		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
2,4-Dinitrophenol		NELAP	0.020		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
4-Nitrophenol		NELAP	0.020		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
Bis(2-ethylhexyl)phthalate		NELAP	0.006		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
Di-n-butyl phthalate		NELAP	0.010		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
Diethyl phthalate		NELAP	0.010		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
Dimethyl phthalate		NELAP	0.010		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
m,p-Cresol		NELAP	0.010		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
o-Cresol		NELAP	0.010		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
Phenol		NELAP	0.005		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
Pyridine		NELAP	0.020		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
Quinoline			0.005		ND	mg/L	1	1/25/05 6:35:00 PM	DMH
Surr: 2,4,6-Tribromophenol			15.5-156		88.0	%REC	1	1/25/05 6:35:00 PM	DMH
Surr: 2-Fluorobiphenyl			41.1-130		78.0	%REC	1	1/25/05 6:35:00 PM	DMH
Surr: 2-Fluorophenol			7.57-80		39.0	%REC	1	1/25/05 6:35:00 PM	DMH
Surr: Nitrobenzene-d5			28.2-128		64.0	%REC	1	1/25/05 6:35:00 PM	DMH
Surr: p-Terphenyl-d14			26.3-121		54.0	%REC	1	1/25/05 6:35:00 PM	DMH
Surr: Phenol-d5			7.76-55.5		30.0	%REC	1	1/25/05 6:35:00 PM	DMH
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC									
Acenaphthene		NELAP	0.00300		ND	mg/L	1	1/25/05	TDN
Anthracene		NELAP	0.00030		ND	mg/L	1	1/25/05	TDN
Benzo(a)anthracene		NELAP	0.00009		ND	mg/L	1	1/25/05	TDN
Benzo(a)pyrene		NELAP	0.00012		ND	mg/L	1	1/25/05	TDN
Benzo(b)fluoranthene		NELAP	0.00015		ND	mg/L	1	1/25/05	TDN
Benzo(k)fluoranthene		NELAP	0.00015		ND	mg/L	1	1/25/05	TDN
Chrysene		NELAP	0.00045		ND	mg/L	1	1/25/05	TDN
Dibenzo(a,h)anthracene		NELAP	0.00018		ND	mg/L	1	1/25/05	TDN
Fluoranthene		NELAP	0.00090		ND	mg/L	1	1/25/05	TDN
Fluorene		NELAP	0.00030		ND	mg/L	1	1/25/05	TDN

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	Dup-001/050121
Lab ID:	05010552-001	**Collection Date:**	1/21/05
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	NELAP	0.00075		ND	mg/L	1	1/27/05	TDN
Naphthalene	NELAP	0.00300		ND	mg/L	1	1/25/05	TDN
Phenanthrene	NELAP	0.00060		ND	mg/L	1	1/25/05	TDN
Pyrene	NELAP	0.00030		ND	mg/L	1	1/25/05	TDN
Surr: Terphenyl-d14		62.5-135		68.6	%REC	1	1/25/05	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
2-Butanone	NELAP	25.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
Benzene	NELAP	2.0	J	0.6	µg/L	1	1/26/05 10:45:00 AM	GEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
Chloroform	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
Styrene	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
Toluene	NELAP	5.0	J	2.4	µg/L	1	1/26/05 10:45:00 AM	GEK
Trichloroethene	NELAP	5.0		ND	µg/L	1	1/26/05 10:45:00 AM	GEK
Xylenes, Total	NELAP	5.0	J	3.9	µg/L	1	1/26/05 10:45:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		93.4	%REC	1	1/26/05 10:45:00 AM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		98.2	%REC	1	1/26/05 10:45:00 AM	GEK
Surr: Dibromofluoromethane		88.9-121.2		98.8	%REC	1	1/26/05 10:45:00 AM	GEK
Surr: Toluene-d8		84.1-114.5		103	%REC	1	1/26/05 10:45:00 AM	GEK
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	1/26/05	JMW
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	1/26/05	JMW
SW-846 8015B MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		0.50		ND	mg/L	1	1/24/05 2:33:00 PM	MAM
SW-846 9036 (TOTAL)								
Sulfate		40		69	mg/L	1	1/30/05	JSR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	Dup-001/050121
Lab ID:	05010552-001	**Collection Date:**	1/21/05
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 9040B								
pH	NELAP	1.00	H	**6.96**		1	1/24/05 9:40:00 AM	EAW
SW-846 9251 (TOTAL)								
Chloride		1		**66**	mg/L	1	1/29/05	JSR

Sample Narrative

Standard Methods 18th Ed. 2540 D

DUP % RPD was outside the QC limits due to low level results. When duplicate results for TSS are 20 mg/L or less and have a difference of no greater than the PQL, the results are considered within the precision of the test method and are reportable.

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-28/050121
Lab ID:	05010552-002	**Collection Date:**	1/21/05 2:30:00 PM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
STANDARD METHODS 18TH ED. 2320 B									
Alkalinity, Total (as CaCO3)		NELAP	0		540	mg/L	1	1/27/05	DLY
STANDARD METHODS 18TH ED. 2340 C									
Hardness, as (CaCO3)		NELAP	5		610	mg/L	1	1/26/05	MLD
STANDARD METHODS 18TH ED. 2540 C (TOTAL)									
Total Dissolved Solids		NELAP	20		678	mg/L	1	1/27/05	JRS
STANDARD METHODS 18TH ED. 2540 D									
Total Suspended Solids		NELAP	6		6	mg/L	1	1/26/05	JRS
STANDARD METHODS 18TH ED. 4500-S D (TOTAL)									
Sulfide, Total - Colorimetric		NELAP	0.05		< 0.05	mg/L	1	1/26/05 4:00:00 PM	NNH
STANDARD METHODS 18TH ED. 5220 D (TOTAL)									
Chemical Oxygen Demand		NELAP	20		< 20	mg/L	1	1/25/05	NNH
SW-846 9012A (TOTAL)									
Cyanide			0.050		< 0.050	mg/L	1	1/25/05	SMR
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)									
Barium		NELAP	0.0050		0.0764	mg/L	1	1/26/05 6:38:31 PM	SAM
Beryllium		NELAP	0.0010		< 0.0010	mg/L	1	1/26/05 6:38:31 PM	SAM
Cadmium		NELAP	0.0020	J	0.0008	mg/L	1	1/26/05 6:38:31 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:38:31 PM	SAM
Cobalt		NELAP	0.0100	J	0.0059	mg/L	1	1/26/05 6:38:31 PM	SAM
Nickel		NELAP	0.0100		0.0180	mg/L	1	1/26/05 6:38:31 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:38:31 PM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:38:31 PM	SAM
Zinc		NELAP	0.0100	J	0.0058	mg/L	1	1/26/05 6:38:31 PM	SAM
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium		NELAP	0.0050		0.0848	mg/L	1	1/26/05 5:03:03 PM	SAM
Beryllium		NELAP	0.0010	J	0.0003	mg/L	1	1/26/05 5:03:03 PM	SAM
Cadmium		NELAP	0.0020	J	0.0003	mg/L	1	1/26/05 5:03:03 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:03:03 PM	SAM
Cobalt		NELAP	0.0100	J	0.0054	mg/L	1	1/26/05 5:03:03 PM	SAM
Nickel		NELAP	0.0100		0.0186	mg/L	1	1/26/05 5:03:03 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:03:03 PM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:03:03 PM	SAM
Zinc		NELAP	0.0100	J	0.0080	mg/L	1	1/26/05 5:03:03 PM	SAM
SW-846 3005A, METALS BY GFAA (DISSOLVED)									
Antimony	7041	NELAP	0.0050		< 0.0050	mg/L	1	1/28/05	JMF
Arsenic	7060A	NELAP	0.0030		< 0.0030	mg/L	1	1/27/05	SRS

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-28/050121
Lab ID:	05010552-002	**Collection Date:**	1/21/05 2:30:00 PM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Lead	7421	NELAP	0.0020		< 0.0020	mg/L	1	1/27/05	SRS
Selenium	7740	NELAP	0.0060		< 0.0060	mg/L	1	1/28/05	JMF
SW-846 3020A, METALS BY GFAA (TOTAL)									
Antimony	7041	NELAP	0.0050		< 0.0050	mg/L	1	1/28/05	JMF
Arsenic	7060A	NELAP	0.0030		< 0.0030	mg/L	1	1/29/05	SRS
Lead	7421	NELAP	0.0020		< 0.0020	mg/L	1	1/27/05	SRS
Selenium	7740	NELAP	0.0060		< 0.0060	mg/L	1	1/28/05	JMF
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
2,4-Dimethylphenol		NELAP	0.010		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
2,4-Dinitrophenol		NELAP	0.020		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
4-Nitrophenol		NELAP	0.020		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
Bis(2-ethylhexyl)phthalate		NELAP	0.006		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
Di-n-butyl phthalate		NELAP	0.010		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
Diethyl phthalate		NELAP	0.010		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
Dimethyl phthalate		NELAP	0.010		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
m,p-Cresol		NELAP	0.010		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
o-Cresol		NELAP	0.010		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
Phenol		NELAP	0.005		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
Pyridine		NELAP	0.020		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
Quinoline			0.005		ND	mg/L	1	1/25/05 7:11:00 PM	DMH
Surr: 2,4,6-Tribromophenol			15.5-156		80.0	%REC	1	1/25/05 7:11:00 PM	DMH
Surr: 2-Fluorobiphenyl			41.1-130		76.0	%REC	1	1/25/05 7:11:00 PM	DMH
Surr: 2-Fluorophenol			7.57-80		40.0	%REC	1	1/25/05 7:11:00 PM	DMH
Surr: Nitrobenzene-d5			28.2-128		64.0	%REC	1	1/25/05 7:11:00 PM	DMH
Surr: p-Terphenyl-d14			26.3-121		62.0	%REC	1	1/25/05 7:11:00 PM	DMH
Surr: Phenol-d5			7.76-55.5		30.0	%REC	1	1/25/05 7:11:00 PM	DMH
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC									
Acenaphthene		NELAP	0.00300		ND	mg/L	1	1/25/05	TDN
Anthracene		NELAP	0.00030		ND	mg/L	1	1/25/05	TDN
Benzo(a)anthracene		NELAP	0.00009		ND	mg/L	1	1/25/05	TDN
Benzo(a)pyrene		NELAP	0.00012		ND	mg/L	1	1/25/05	TDN
Benzo(b)fluoranthene		NELAP	0.00015		ND	mg/L	1	1/25/05	TDN
Benzo(k)fluoranthene		NELAP	0.00015		ND	mg/L	1	1/25/05	TDN
Chrysene		NELAP	0.00045		ND	mg/L	1	1/25/05	TDN
Dibenzo(a,h)anthracene		NELAP	0.00018		ND	mg/L	1	1/25/05	TDN
Fluoranthene		NELAP	0.00090		ND	mg/L	1	1/25/05	TDN
Fluorene		NELAP	0.00030		ND	mg/L	1	1/25/05	TDN

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-28/050121
Lab ID:	05010552-002	**Collection Date:**	1/21/05 2:30:00 PM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	NELAP	0.00045		ND	mg/L	1	1/27/05	TDN
Naphthalene	NELAP	0.00300		ND	mg/L	1	1/25/05	TDN
Phenanthrene	NELAP	0.00060		ND	mg/L	1	1/25/05	TDN
Pyrene	NELAP	0.00030		ND	mg/L	1	1/25/05	TDN
Surr: Terphenyl-d14		62.5-135		72.8	%REC	1	1/25/05	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
2-Butanone	NELAP	25.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Benzene	NELAP	2.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Chloroform	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Styrene	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Trichloroethene	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	1/26/05 11:16:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		92.2	%REC	1	1/26/05 11:16:00 AM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		96.6	%REC	1	1/26/05 11:16:00 AM	GEK
Surr: Dibromofluoromethane		88.9-121.2		99.4	%REC	1	1/26/05 11:16:00 AM	GEK
Surr: Toluene-d8		84.1-114.5		101	%REC	1	1/26/05 11:16:00 AM	GEK
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	1/26/05	JMW
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	1/26/05	JMW
SW-846 8015B MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		0.50		ND	mg/L	1	1/24/05 2:57:00 PM	MAM
SW-846 9036 (TOTAL)								
Sulfate		40		79	mg/L	1	1/30/05	JSR

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-28/050121
Lab ID:	05010552-002	**Collection Date:**	1/21/05 2:30:00 PM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 9040B								
pH	NELAP	1.00	H	6.89		1	1/24/05 9:41:00 AM	EAW
SW-846 9251 (TOTAL)								
Chloride		1		35	mg/L	1	1/29/05	JSR

Sample Narrative

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-27/050121
Lab ID:	05010552-003	**Collection Date:**	1/21/05 1:35:00 PM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
STANDARD METHODS 18TH ED. 2320 B									
Alkalinity, Total (as CaCO3)		NELAP	0		602	mg/L	1	1/27/05	DLY
STANDARD METHODS 18TH ED. 2340 C									
Hardness, as (CaCO3)		NELAP	5		780	mg/L	1	1/26/05	MLD
STANDARD METHODS 18TH ED. 2540 C (TOTAL)									
Total Dissolved Solids		NELAP	20		888	mg/L	1	1/27/05	JRS
STANDARD METHODS 18TH ED. 2540 D									
Total Suspended Solids		NELAP	6		9	mg/L	1	1/26/05	JRS
STANDARD METHODS 18TH ED. 4500-S D (TOTAL)									
Sulfide, Total - Colorimetric		NELAP	0.05		< 0.05	mg/L	1	1/26/05 4:00:00 PM	NNH
STANDARD METHODS 18TH ED. 5220 D (TOTAL)									
Chemical Oxygen Demand		NELAP	20		< 20	mg/L	1	1/25/05	NNH
SW-846 9012A (TOTAL)									
Cyanide			0.050		< 0.050	mg/L	1	1/25/05	SMR
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)									
Barium		NELAP	0.0050		0.130	mg/L	1	1/26/05 6:43:54 PM	SAM
Beryllium		NELAP	0.0010		< 0.0010	mg/L	1	1/26/05 6:43:54 PM	SAM
Cadmium		NELAP	0.0020		< 0.0020	mg/L	1	1/26/05 6:43:54 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:43:54 PM	SAM
Cobalt		NELAP	0.0100	J	0.0046	mg/L	1	1/26/05 6:43:54 PM	SAM
Nickel		NELAP	0.0100	J	0.0094	mg/L	1	1/28/05 11:02:58 AM	JMW
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:43:54 PM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:43:54 PM	SAM
Zinc		NELAP	0.0100	J	0.0066	mg/L	1	1/28/05 12:58:03 PM	JMW
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium		NELAP	0.0050		0.142	mg/L	1	1/26/05 5:19:04 PM	SAM
Beryllium		NELAP	0.0010		< 0.0010	mg/L	1	1/26/05 5:19:04 PM	SAM
Cadmium		NELAP	0.0020	J	0.0005	mg/L	1	1/26/05 5:19:04 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:19:04 PM	SAM
Cobalt		NELAP	0.0100	J	0.0056	mg/L	1	1/26/05 5:19:04 PM	SAM
Nickel		NELAP	0.0100	J	0.0093	mg/L	1	1/28/05 10:44:49 AM	JMW
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:19:04 PM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:19:04 PM	SAM
Zinc		NELAP	0.0100	J	0.0075	mg/L	1	1/26/05 5:19:04 PM	SAM
SW-846 3005A, METALS BY GFAA (DISSOLVED)									
Antimony	7041	NELAP	0.0050		< 0.0050	mg/L	1	1/28/05	JMF
Arsenic	7060A	NELAP	0.0030		< 0.0030	mg/L	1	1/27/05	SRS

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-27/050121
Lab ID:	05010552-003	**Collection Date:**	1/21/05 1:35:00 PM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Lead	7421	NELAP	0.0020		**< 0.0020**	mg/L	1	1/27/05	SRS
Selenium	7740	NELAP	0.0060		**< 0.0060**	mg/L	1	1/31/05	JMF
SW-846 3020A, METALS BY GFAA (TOTAL)									
Antimony	7041	NELAP	0.0050		**< 0.0050**	mg/L	1	1/28/05	JMF
Arsenic	7060A	NELAP	0.0030		**< 0.0030**	mg/L	1	1/29/05	SRS
Lead	7421	NELAP	0.0020		**< 0.0020**	mg/L	1	1/27/05	SRS
Selenium	7740	NELAP	0.0060		**< 0.0060**	mg/L	1	1/28/05	JMF
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
2,4-Dimethylphenol		NELAP	0.010		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
2,4-Dinitrophenol		NELAP	0.020		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
4-Nitrophenol		NELAP	0.020		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
Bis(2-ethylhexyl)phthalate		NELAP	0.006		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
Di-n-butyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
Diethyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
Dimethyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
m,p-Cresol		NELAP	0.010		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
o-Cresol		NELAP	0.010		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
Phenol		NELAP	0.005		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
Pyridine		NELAP	0.020		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
Quinoline			0.005		**ND**	mg/L	1	1/25/05 7:46:00 PM	DMH
Surr: 2,4,6-Tribromophenol			15.5-156		**76.0**	%REC	1	1/25/05 7:46:00 PM	DMH
Surr: 2-Fluorobiphenyl			41.1-130		**72.0**	%REC	1	1/25/05 7:46:00 PM	DMH
Surr: 2-Fluorophenol			7.57-80		**37.0**	%REC	1	1/25/05 7:46:00 PM	DMH
Surr: Nitrobenzene-d5			28.2-128		**60.0**	%REC	1	1/25/05 7:46:00 PM	DMH
Surr: p-Terphenyl-d14			26.3-121		**60.0**	%REC	1	1/25/05 7:46:00 PM	DMH
Surr: Phenol-d5			7.76-55.5		**28.0**	%REC	1	1/25/05 7:46:00 PM	DMH
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC									
Acenaphthene		NELAP	0.00300		**ND**	mg/L	1	1/25/05	TDN
Anthracene		NELAP	0.00030		**ND**	mg/L	1	1/25/05	TDN
Benzo(a)anthracene		NELAP	0.00009		**ND**	mg/L	1	1/25/05	TDN
Benzo(a)pyrene		NELAP	0.00012		**ND**	mg/L	1	1/25/05	TDN
Benzo(b)fluoranthene		NELAP	0.00015		**ND**	mg/L	1	1/25/05	TDN
Benzo(k)fluoranthene		NELAP	0.00015		**ND**	mg/L	1	1/25/05	TDN
Chrysene		NELAP	0.00045		**ND**	mg/L	1	1/25/05	TDN
Dibenzo(a,h)anthracene		NELAP	0.00018		**ND**	mg/L	1	1/25/05	TDN
Fluoranthene		NELAP	0.00090		**ND**	mg/L	1	1/25/05	TDN
Fluorene		NELAP	0.00030		**ND**	mg/L	1	1/25/05	TDN

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-27/050121
Lab ID:	05010552-003	**Collection Date:**	1/21/05 1:35:00 PM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	NELAP	0.00050		**ND**	mg/L	1	1/27/05	TDN
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	1/25/05	TDN
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	1/25/05	TDN
Pyrene	NELAP	0.00030		**ND**	mg/L	1	1/25/05	TDN
Surr: Terphenyl-d14		62.5-135		**80.7**	%REC	1	1/25/05	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
1,1-Dichloroethane	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
1,2-Dibromoethane	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
1,2-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
1,2-Dichloroethane	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
1,3-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
1,4-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
2-Butanone	NELAP	25.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Benzene	NELAP	2.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Carbon disulfide	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Chlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Chloroform	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Methyl tert-butyl ether	NELAP	2.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Styrene	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Tetrachloroethene	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Trichloroethene	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	1/26/05 12:49:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**92.4**	%REC	1	1/26/05 12:49:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**97.0**	%REC	1	1/26/05 12:49:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**100**	%REC	1	1/26/05 12:49:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**104**	%REC	1	1/26/05 12:49:00 PM	GEK
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	1/26/05	JMW
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	1/26/05	JMW
SW-846 8015B MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		0.50		**ND**	mg/L	1	1/24/05 3:14:00 PM	MAM
SW-846 9036 (TOTAL)								
Sulfate		40		**146**	mg/L	1	1/30/05	JSR

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ENVIRONMENTAL TESTING LABORATORY

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FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-27/050121
Lab ID:	05010552-003	**Collection Date:**	1/21/05 1:35:00 PM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 9040B								
pH	NELAP	1.00	H	6.79		1	1/24/05 9:42:00 AM	EAW
SW-846 9251 (TOTAL)								
Chloride		1		45	mg/L	1	1/29/05	JSR

Sample Narrative

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-26/050121
Lab ID:	05010552-004	**Collection Date:**	1/21/05 11:33:00 AM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
STANDARD METHODS 18TH ED. 2320 B									
Alkalinity, Total (as CaCO3)		NELAP	0		578	mg/L	1	1/27/05	DLY
STANDARD METHODS 18TH ED. 2340 C									
Hardness, as (CaCO3)		NELAP	5		990	mg/L	1	1/26/05	MLD
STANDARD METHODS 18TH ED. 2540 C (TOTAL)									
Total Dissolved Solids		NELAP	20		1230	mg/L	1	1/27/05	JRS
STANDARD METHODS 18TH ED. 2540 D									
Total Suspended Solids		NELAP	6		58	mg/L	1	1/26/05	JRS
STANDARD METHODS 18TH ED. 4500-S D (TOTAL)									
Sulfide, Total - Colorimetric		NELAP	0.05		< 0.05	mg/L	1	1/26/05 4:00:00 PM	NNH
STANDARD METHODS 18TH ED. 5220 D (TOTAL)									
Chemical Oxygen Demand		NELAP	20	J	12	mg/L	1	1/25/05	NNH
SW-846 9012A (TOTAL)									
Cyanide			0.050		< 0.050	mg/L	1	1/25/05	SMR
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)									
Barium		NELAP	0.0050		0.159	mg/L	1	1/26/05 6:59:34 PM	SAM
Beryllium		NELAP	0.0010		< 0.0010	mg/L	1	1/26/05 6:59:34 PM	SAM
Cadmium		NELAP	0.0020	J	0.0003	mg/L	1	1/26/05 6:59:34 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:59:34 PM	SAM
Cobalt		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:59:34 PM	SAM
Nickel		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:59:34 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:59:34 PM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:59:34 PM	SAM
Zinc		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 6:59:34 PM	SAM
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium		NELAP	0.0050		0.177	mg/L	1	1/26/05 5:24:25 PM	SAM
Beryllium		NELAP	0.0010		< 0.0010	mg/L	1	1/26/05 5:24:25 PM	SAM
Cadmium		NELAP	0.0020	J	0.0005	mg/L	1	1/26/05 5:24:25 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:24:25 PM	SAM
Cobalt		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:24:25 PM	SAM
Nickel		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:24:25 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:24:25 PM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:24:25 PM	SAM
Zinc		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:24:25 PM	SAM
SW-846 3005A, METALS BY GFAA (DISSOLVED)									
Antimony	7041	NELAP	0.0050		< 0.0050	mg/L	1	1/28/05	JMF
Arsenic	7060A	NELAP	0.0030	J	0.0018	mg/L	1	1/27/05	SRS

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-26/050121
Lab ID:	05010552-004	**Collection Date:**	1/21/05 11:33:00 AM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Lead	7421	NELAP	0.0020		**< 0.0020**	mg/L	1	1/27/05	SRS
Selenium	7740	NELAP	0.0060		**< 0.0060**	mg/L	1	1/31/05	JMF
SW-846 3020A, METALS BY GFAA (TOTAL)									
Antimony	7041	NELAP	0.0050		**< 0.0050**	mg/L	1	1/28/05	JMF
Arsenic	7060A	NELAP	0.0030	J	**0.0016**	mg/L	1	1/30/05	SRS
Lead	7421	NELAP	0.0020		**< 0.0020**	mg/L	1	1/27/05	SRS
Selenium	7740	NELAP	0.0060		**< 0.0060**	mg/L	1	1/28/05	JMF
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
2,4-Dimethylphenol		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
2,4-Dinitrophenol		NELAP	0.020		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
4-Nitrophenol		NELAP	0.020		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
Bis(2-ethylhexyl)phthalate		NELAP	0.006		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
Di-n-butyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
Diethyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
Dimethyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
m,p-Cresol		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
o-Cresol		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
Phenol		NELAP	0.005		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
Pyridine		NELAP	0.020		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
Quinoline			0.005		**ND**	mg/L	1	1/25/05 8:22:00 PM	DMH
Surr: 2,4,6-Tribromophenol			15.5-156		**89.0**	%REC	1	1/25/05 8:22:00 PM	DMH
Surr: 2-Fluorobiphenyl			41.1-130		**84.0**	%REC	1	1/25/05 8:22:00 PM	DMH
Surr: 2-Fluorophenol			7.57-80		**47.0**	%REC	1	1/25/05 8:22:00 PM	DMH
Surr: Nitrobenzene-d5			28.2-128		**70.0**	%REC	1	1/25/05 8:22:00 PM	DMH
Surr: p-Terphenyl-d14			26.3-121		**74.0**	%REC	1	1/25/05 8:22:00 PM	DMH
Surr: Phenol-d5			7.76-55.5		**35.0**	%REC	1	1/25/05 8:22:00 PM	DMH
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC									
Acenaphthene		NELAP	0.00300		**ND**	mg/L	1	1/25/05	TDN
Anthracene		NELAP	0.00030		**ND**	mg/L	1	1/25/05	TDN
Benzo(a)anthracene		NELAP	0.00009		**ND**	mg/L	1	1/25/05	TDN
Benzo(a)pyrene		NELAP	0.00012		**ND**	mg/L	1	1/25/05	TDN
Benzo(b)fluoranthene		NELAP	0.00015		**ND**	mg/L	1	1/25/05	TDN
Benzo(k)fluoranthene		NELAP	0.00015		**ND**	mg/L	1	1/25/05	TDN
Chrysene		NELAP	0.00045		**ND**	mg/L	1	1/25/05	TDN
Dibenzo(a,h)anthracene		NELAP	0.00018		**ND**	mg/L	1	1/25/05	TDN
Fluoranthene		NELAP	0.00090		**ND**	mg/L	1	1/25/05	TDN
Fluorene		NELAP	0.00030		**ND**	mg/L	1	1/25/05	TDN

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-26/050121
Lab ID:	05010552-004	**Collection Date:**	1/21/05 11:33:00 AM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	NELAP	0.00048		ND	mg/L	1	1/27/05	TDN
Naphthalene	NELAP	0.00300		ND	mg/L	1	1/25/05	TDN
Phenanthrene	NELAP	0.00060		ND	mg/L	1	1/25/05	TDN
Pyrene	NELAP	0.00030		ND	mg/L	1	1/25/05	TDN
Surr: Terphenyl-d14		62.5-135		81.9	%REC	1	1/25/05	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
2-Butanone	NELAP	25.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Benzene	NELAP	2.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Chloroform	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Styrene	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Trichloroethene	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	1/26/05 1:20:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		95.2	%REC	1	1/26/05 1:20:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		95.2	%REC	1	1/26/05 1:20:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		102	%REC	1	1/26/05 1:20:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		105	%REC	1	1/26/05 1:20:00 PM	GEK
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	1/26/05	JMW
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	1/26/05	JMW
SW-846 8015B MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		0.50		ND	mg/L	1	1/24/05 3:32:00 PM	MAM
SW-846 9036 (TOTAL)								
Sulfate		40		298	mg/L	1	1/30/05	JSR

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-26/050121
Lab ID:	05010552-004	**Collection Date:**	1/21/05 11:33:00 AM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 9040B								
pH	NELAP	1.00	H	**6.80**		1	1/24/05 9:43:00 AM	EAW
SW-846 9251 (TOTAL)								
Chloride		1		**93**	mg/L	1	1/29/05	JSR

Sample Narrative

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-25/050121
Lab ID:	05010552-005	**Collection Date:**	1/21/05 9:37:00 AM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
STANDARD METHODS 18TH ED. 2320 B									
Alkalinity, Total (as CaCO3)		NELAP	0		476	mg/L	1	1/27/05	DLY
STANDARD METHODS 18TH ED. 2340 C									
Hardness, as (CaCO3)		NELAP	5		490	mg/L	1	1/26/05	MLD
STANDARD METHODS 18TH ED. 2540 C (TOTAL)									
Total Dissolved Solids		NELAP	20		650	mg/L	1	1/27/05	JRS
STANDARD METHODS 18TH ED. 2540 D									
Total Suspended Solids		NELAP	6		13	mg/L	1	1/26/05	JRS
STANDARD METHODS 18TH ED. 4500-S D (TOTAL)									
Sulfide, Total - Colorimetric		NELAP	0.05		< 0.05	mg/L	1	1/26/05 4:00:00 PM	NNH
STANDARD METHODS 18TH ED. 5220 D (TOTAL)									
Chemical Oxygen Demand		NELAP	20		< 20	mg/L	1	1/25/05	NNH
SW-846 9012A (TOTAL)									
Cyanide			0.050		< 0.050	mg/L	1	1/27/05	SMR
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)									
Barium		NELAP	0.0050		0.229	mg/L	1	1/26/05 7:04:57 PM	SAM
Beryllium		NELAP	0.0010	J	0.0007	mg/L	1	1/26/05 7:04:57 PM	SAM
Cadmium		NELAP	0.0020	J	0.0005	mg/L	1	1/26/05 7:04:57 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 7:04:57 PM	SAM
Cobalt		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 7:04:57 PM	SAM
Nickel		NELAP	0.0100		0.0134	mg/L	1	1/26/05 7:04:57 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 7:04:57 PM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 7:04:57 PM	SAM
Zinc		NELAP	0.0100		0.0271	mg/L	1	1/26/05 7:04:57 PM	SAM
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium		NELAP	0.0050		0.248	mg/L	1	1/26/05 5:29:48 PM	SAM
Beryllium		NELAP	0.0010		< 0.0010	mg/L	1	1/26/05 5:29:48 PM	SAM
Cadmium		NELAP	0.0020	J	0.0007	mg/L	1	1/26/05 5:29:48 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:29:48 PM	SAM
Cobalt		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:29:48 PM	SAM
Nickel		NELAP	0.0100		0.0131	mg/L	1	1/26/05 5:29:48 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:29:48 PM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/26/05 5:29:48 PM	SAM
Zinc		NELAP	0.0100		0.0201	mg/L	1	1/26/05 5:29:48 PM	SAM
SW-846 3005A, METALS BY GFAA (DISSOLVED)									
Antimony	7041	NELAP	0.0050		< 0.0050	mg/L	1	1/28/05	JMF
Arsenic	7060A	NELAP	0.0030	J	0.0007	mg/L	1	1/27/05	SRS

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-25/050121
Lab ID:	05010552-005	**Collection Date:**	1/21/05 9:37:00 AM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Lead	7421	NELAP	0.0020		**< 0.0020**	mg/L	1	1/27/05	SRS
Selenium	7740	NELAP	0.0060		**< 0.0060**	mg/L	1	1/31/05	JMF
SW-846 3020A, METALS BY GFAA (TOTAL)									
Antimony	7041	NELAP	0.0050		**< 0.0050**	mg/L	1	1/28/05	JMF
Arsenic	7060A	NELAP	0.0030	J	**0.0015**	mg/L	1	1/29/05	SRS
Lead	7421	NELAP	0.0020		**< 0.0020**	mg/L	1	1/27/05	SRS
Selenium	7740	NELAP	0.0060		**< 0.0060**	mg/L	1	1/28/05	JMF
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
2,4-Dimethylphenol		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
2,4-Dinitrophenol		NELAP	0.020		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
4-Nitrophenol		NELAP	0.020		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
Bis(2-ethylhexyl)phthalate		NELAP	0.006		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
Di-n-butyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
Diethyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
Dimethyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
m,p-Cresol		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
o-Cresol		NELAP	0.010		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
Phenol		NELAP	0.005		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
Pyridine		NELAP	0.020		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
Quinoline			0.005		**ND**	mg/L	1	1/25/05 8:57:00 PM	DMH
Surr: 2,4,6-Tribromophenol			15.5-156		**85.0**	%REC	1	1/25/05 8:57:00 PM	DMH
Surr: 2-Fluorobiphenyl			41.1-130		**80.0**	%REC	1	1/25/05 8:57:00 PM	DMH
Surr: 2-Fluorophenol			7.57-80		**41.0**	%REC	1	1/25/05 8:57:00 PM	DMH
Surr: Nitrobenzene-d5			28.2-128		**70.0**	%REC	1	1/25/05 8:57:00 PM	DMH
Surr: p-Terphenyl-d14			26.3-121		**74.0**	%REC	1	1/25/05 8:57:00 PM	DMH
Surr: Phenol-d5			7.76-55.5		**31.0**	%REC	1	1/25/05 8:57:00 PM	DMH
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC									
Acenaphthene		NELAP	0.00300		**ND**	mg/L	1	1/25/05	TDN
Anthracene		NELAP	0.00030		**ND**	mg/L	1	1/25/05	TDN
Benzo(a)anthracene		NELAP	0.00009		**ND**	mg/L	1	1/25/05	TDN
Benzo(a)pyrene		NELAP	0.00012		**ND**	mg/L	1	1/25/05	TDN
Benzo(b)fluoranthene		NELAP	0.00015		**ND**	mg/L	1	1/25/05	TDN
Benzo(k)fluoranthene		NELAP	0.00015		**ND**	mg/L	1	1/25/05	TDN
Chrysene		NELAP	0.00045		**ND**	mg/L	1	1/25/05	TDN
Dibenzo(a,h)anthracene		NELAP	0.00018		**ND**	mg/L	1	1/25/05	TDN
Fluoranthene		NELAP	0.00090		**ND**	mg/L	1	1/25/05	TDN
Fluorene		NELAP	0.00030		**ND**	mg/L	1	1/25/05	TDN

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-25/050121
Lab ID:	05010552-005	**Collection Date:**	1/21/05 9:37:00 AM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	NELAP	0.00060		**ND**	mg/L	1	1/27/05	TDN
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	1/25/05	TDN
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	1/25/05	TDN
Pyrene	NELAP	0.00030		**ND**	mg/L	1	1/25/05	TDN
Surr: Terphenyl-d14		62.5-135		**77.7**	%REC	1	1/25/05	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
1,1-Dichloroethane	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
1,2-Dibromoethane	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
1,2-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
1,2-Dichloroethane	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
1,3-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
1,4-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
2-Butanone	NELAP	25.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
Benzene	NELAP	2.0	J	**0.6**	µg/L	1	1/26/05 1:51:00 PM	GEK
Carbon disulfide	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
Chlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
Chloroform	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
Methyl tert-butyl ether	NELAP	2.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
Styrene	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
Tetrachloroethene	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
Toluene	NELAP	5.0	J	**2.7**	µg/L	1	1/26/05 1:51:00 PM	GEK
Trichloroethene	NELAP	5.0		**ND**	µg/L	1	1/26/05 1:51:00 PM	GEK
Xylenes, Total	NELAP	5.0	J	**4.1**	µg/L	1	1/26/05 1:51:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**95.0**	%REC	1	1/26/05 1:51:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**97.2**	%REC	1	1/26/05 1:51:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**102**	%REC	1	1/26/05 1:51:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**104**	%REC	1	1/26/05 1:51:00 PM	GEK
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	1/26/05	JMW
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	1/26/05	JMW
SW-846 8015B MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		0.50		**ND**	mg/L	1	1/24/05 3:50:00 PM	MAM
SW-846 9036 (TOTAL)								
Sulfate		40		**66**	mg/L	1	1/30/05	JSR

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010552	**Client Sample ID:**	HMW-25/050121
Lab ID:	05010552-005	**Collection Date:**	1/21/05 9:37:00 AM
Report Date:	02-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 9040B								
pH	NELAP	1.00	H	**6.90**		1	1/24/05 9:43:00 AM	EAW
SW-846 9251 (TOTAL)								
Chloride		1		**69**	mg/L	1	1/29/05	JSR

Sample Narrative

SW-846 3005A, 6010B, Metals by ICP (Total)

SAMP The zinc result on the nitric acid preserved dissolved bottle is greater than the total nitric acid preserved bottle.The nitric acid preserved dissolved bottle was rechecked yielding the same results as the original run. The unpreserved total bottle sample read 0.0303 mg/L.

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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WORK ORDER SAMPLE SUMMARY

Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
Lab Order: 05010552
Date Received: 1/21/05

Date: *02-Feb-05*

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
05010552-001A	Dup-001/050121		1/21/05
05010552-001B	Dup-001/050121		1/21/05
05010552-001C	Dup-001/050121		1/21/05
05010552-001D	Dup-001/050121		1/21/05
05010552-001E	Dup-001/050121		1/21/05
05010552-001F	Dup-001/050121		1/21/05
05010552-001G	Dup-001/050121		1/21/05
05010552-001H	Dup-001/050121		1/21/05
05010552-001I	Dup-001/050121		1/21/05
05010552-002A	HMW-28/050121		1/21/05 2:30:00 PM
05010552-002B	HMW-28/050121		1/21/05 2:30:00 PM
05010552-002C	HMW-28/050121		1/21/05 2:30:00 PM
05010552-002D	HMW-28/050121		1/21/05 2:30:00 PM
05010552-002E	HMW-28/050121		1/21/05 2:30:00 PM
05010552-002F	HMW-28/050121		1/21/05 2:30:00 PM
05010552-002G	HMW-28/050121		1/21/05 2:30:00 PM
05010552-002H	HMW-28/050121		1/21/05 2:30:00 PM
05010552-002I	HMW-28/050121		1/21/05 2:30:00 PM
05010552-003A	HMW-27/050121		1/21/05 1:35:00 PM
05010552-003B	HMW-27/050121		1/21/05 1:35:00 PM
05010552-003C	HMW-27/050121		1/21/05 1:35:00 PM
05010552-003D	HMW-27/050121		1/21/05 1:35:00 PM
05010552-003E	HMW-27/050121		1/21/05 1:35:00 PM
05010552-003F	HMW-27/050121		1/21/05 1:35:00 PM
05010552-003G	HMW-27/050121		1/21/05 1:35:00 PM
05010552-003H	HMW-27/050121		1/21/05 1:35:00 PM
05010552-003I	HMW-27/050121		1/21/05 1:35:00 PM
05010552-004A	HMW-26/050121		1/21/05 11:33:00 AM
05010552-004B	HMW-26/050121		1/21/05 11:33:00 AM
05010552-004C	HMW-26/050121		1/21/05 11:33:00 AM
05010552-004D	HMW-26/050121		1/21/05 11:33:00 AM
05010552-004E	HMW-26/050121		1/21/05 11:33:00 AM
05010552-004F	HMW-26/050121		1/21/05 11:33:00 AM
05010552-004G	HMW-26/050121		1/21/05 11:33:00 AM
05010552-004H	HMW-26/050121		1/21/05 11:33:00 AM

TEKLAB, INC.

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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WORK ORDER SAMPLE SUMMARY

Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
Lab Order: 05010552
Date Received: 1/21/05

Date: *02-Feb-05*

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
05010552-004I	HMW-26/050121		1/21/05 11:33:00 AM
05010552-005A	HMW-25/050121		1/21/05 9:37:00 AM
05010552-005B	HMW-25/050121		1/21/05 9:37:00 AM
05010552-005C	HMW-25/050121		1/21/05 9:37:00 AM
05010552-005D	HMW-25/050121		1/21/05 9:37:00 AM
05010552-005E	HMW-25/050121		1/21/05 9:37:00 AM
05010552-005F	HMW-25/050121		1/21/05 9:37:00 AM
05010552-005G	HMW-25/050121		1/21/05 9:37:00 AM
05010552-005H	HMW-25/050121		1/21/05 9:37:00 AM
05010552-005I	HMW-25/050121		1/21/05 9:37:00 AM

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
Lab Order: 05010552
Date Received: 1/21/05 5:12:00 PM

DATES REPORT

Date: *02-Feb-05*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
05010552-001A	Dup-001/050121	1/21/05	Groundwater	BNAs, Aqueous, by GC/MS		1/25/05	1/25/05
				PNAs, Aqueous, by HPLC		1/25/05	1/25/05
				PNAs, Aqueous, by HPLC		1/27/05	1/27/05
05010552-001B				Alkalinity, Total (as CaCO3), Aqueous			1/27/05
				Chloride, Aqueous (Total)			1/29/05
				Hardness, (as CaCO3), Aqueous			1/26/05
				pH, Aqueous			1/24/05
				Sulfate, Aqueous (Total)			1/30/05
				Total Dissoved Solids, Aqueous			1/27/05
				Total Suspended solids, Aqueous			1/26/05
05010552-001C				Mercury, Aqueous, (Total)		1/25/05	1/26/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/28/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/28/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/30/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/27/05
				Metals, Aqueous, by ICP (Total)		1/25/05	1/26/05
05010552-001D				Mercury, Aqueous,(Dissolved)		1/25/05	1/26/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/27/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/28/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/27/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/28/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	1/26/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	1/28/05
05010552-001E				Cyanide, Aqueous (Total)			1/25/05
05010552-001F				Sulfide, Colorimetric, Aqueous (Total)			1/26/05
05010552-001G				COD, Aqueous (Total)			1/25/05
05010552-001H				1,4-Dioxane, Aqueous, by GC/FID			1/24/05
05010552-001I				Volatile Organics, Aqueous, by GC/MS		1/26/05	1/26/05
05010552-002A	HMW-28/050121			BNAs, Aqueous, by GC/MS		1/25/05	1/25/05
				PNAs, Aqueous, by HPLC		1/25/05	1/25/05
				PNAs, Aqueous, by HPLC		1/27/05	1/27/05
05010552-002B				Alkalinity, Total (as CaCO3), Aqueous			1/27/05
				Chloride, Aqueous (Total)			1/29/05
				Hardness, (as CaCO3), Aqueous			1/26/05
				pH, Aqueous			1/24/05
				Sulfate, Aqueous (Total)			1/30/05

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
Lab Order: 05010552
Date Received: 1/21/05 5:12:00 PM

DATES REPORT

Date: *02-Feb-05*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
05010552-002B	HMW-28/050121	1/21/05	Groundwater	Total Dissoved Solids, Aqueous			1/27/05
				Total Suspended solids, Aqueous			1/26/05
05010552-002C				Mercury, Aqueous, (Total)		1/25/05	1/26/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/27/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/28/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/28/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/29/05
				Metals, Aqueous, by ICP (Total)		1/25/05	1/26/05
05010552-002D				Mercury, Aqueous,(Dissolved)		1/25/05	1/26/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/28/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/28/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/27/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/27/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	1/26/05
05010552-002E				Cyanide, Aqueous (Total)			1/25/05
05010552-002F				Sulfide, Colorimetric, Aqueous (Total)			1/26/05
05010552-002G				COD, Aqueous (Total)			1/25/05
05010552-002H				1,4-Dioxane, Aqueous, by GC/FID			1/24/05
05010552-002I				Volatile Organics, Aqueous, by GC/MS		1/26/05	1/26/05
05010552-003A	HMW-27/050121			BNAs, Aqueous, by GC/MS		1/25/05	1/25/05
				PNAs, Aqueous, by HPLC		1/25/05	1/25/05
				PNAs, Aqueous, by HPLC		1/27/05	1/27/05
05010552-003B				Alkalinity, Total (as CaCO3), Aqueous			1/27/05
				Chloride, Aqueous (Total)			1/29/05
				Hardness, (as CaCO3), Aqueous			1/26/05
				pH, Aqueous			1/24/05
				Sulfate, Aqueous (Total)			1/30/05
				Total Dissoved Solids, Aqueous			1/27/05
				Total Suspended solids, Aqueous			1/26/05
05010552-003C				Mercury, Aqueous, (Total)		1/25/05	1/26/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/29/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/27/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/28/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/28/05
				Metals, Aqueous, by ICP (Total)		1/25/05	1/26/05
				Metals, Aqueous, by ICP (Total)		1/25/05	1/28/05

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
Lab Order: 05010552
Date Received: 1/21/05 5:12:00 PM

DATES REPORT

Date: *02-Feb-05*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
05010552-003D	HMW-27/050121	1/21/05	Groundwater	Mercury, Aqueous,(Dissolved)		1/25/05	1/26/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/27/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/27/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/28/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/31/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	1/28/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	1/26/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	1/28/05
05010552-003E				Cyanide, Aqueous (Total)			1/25/05
05010552-003F				Sulfide, Colorimetric, Aqueous (Total)			1/26/05
05010552-003G				COD, Aqueous (Total)			1/25/05
05010552-003H				1,4-Dioxane, Aqueous, by GC/FID			1/24/05
05010552-003I				Volatile Organics, Aqueous, by GC/MS		1/26/05	1/26/05
05010552-004A	HMW-26/050121			BNAs, Aqueous, by GC/MS		1/25/05	1/25/05
				PNAs, Aqueous, by HPLC		1/25/05	1/25/05
				PNAs, Aqueous, by HPLC		1/27/05	1/27/05
05010552-004B				Alkalinity, Total (as CaCO3), Aqueous			1/27/05
				Chloride, Aqueous (Total)			1/29/05
				Hardness, (as CaCO3), Aqueous			1/26/05
				pH, Aqueous			1/24/05
				Sulfate, Aqueous (Total)			1/30/05
				Total Dissoved Solids, Aqueous			1/27/05
				Total Suspended solids, Aqueous			1/26/05
05010552-004C				Mercury, Aqueous, (Total)		1/25/05	1/26/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/30/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/28/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/27/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/28/05
				Metals, Aqueous, by ICP (Total)		1/25/05	1/26/05
05010552-004D				Mercury, Aqueous,(Dissolved)		1/25/05	1/26/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/28/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/31/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/27/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/27/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	1/26/05
05010552-004E				Cyanide, Aqueous (Total)			1/25/05

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
Lab Order: 05010552
Date Received: 1/21/05 5:12:00 PM

DATES REPORT

Date: *02-Feb-05*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
05010552-004F	HMW-26/050121	1/21/05	Groundwater	Sulfide, Colorimetric, Aqueous (Total)			1/26/05
05010552-004G				COD, Aqueous (Total)			1/25/05
05010552-004H				1,4-Dioxane, Aqueous, by GC/FID			1/24/05
05010552-004I				Volatile Organics, Aqueous, by GC/MS		1/26/05	1/26/05
05010552-005A	HMW-25/050121			BNAs, Aqueous, by GC/MS		1/25/05	1/25/05
				PNAs, Aqueous, by HPLC		1/27/05	1/27/05
				PNAs, Aqueous, by HPLC		1/25/05	1/25/05
05010552-005B				Alkalinity, Total (as CaCO3), Aqueous			1/27/05
				Chloride, Aqueous (Total)			1/29/05
				Hardness, (as CaCO3), Aqueous			1/26/05
				pH, Aqueous			1/24/05
				Sulfate, Aqueous (Total)			1/30/05
				Total Dissoved Solids, Aqueous			1/27/05
				Total Suspended solids, Aqueous			1/26/05
05010552-005C				Mercury, Aqueous, (Total)		1/25/05	1/26/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/28/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/28/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/29/05
				Metals, Aqueous, by GFAA (Total)		1/24/05	1/27/05
				Metals, Aqueous, by ICP (Total)		1/25/05	1/26/05
05010552-005D				Mercury, Aqueous,(Dissolved)		1/25/05	1/26/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/27/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/28/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/27/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/31/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	1/26/05
05010552-005E				Cyanide, Aqueous (Total)			1/27/05
05010552-005F				Sulfide, Colorimetric, Aqueous (Total)			1/26/05
05010552-005G				COD, Aqueous (Total)			1/25/05
05010552-005H				1,4-Dioxane, Aqueous, by GC/FID			1/24/05
05010552-005I				Volatile Organics, Aqueous, by GC/MS		1/26/05	1/26/05

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: A_CHLORIDE_S_AT

Sample ID: **MB-R60510** SampType: **MBLK** TestCode: **A_CHLORIDE_S_** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 2_050**
Client ID: **ZZZZZ** Batch ID: **R60510** TestNo: **SW9251** Analysis Date: **1/29/05** SeqNo: **918876**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1	0.5	1									

Sample ID: **LCS-R60510** SampType: **LCS** TestCode: **A_CHLORIDE_S_** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 2_050**
Client ID: **ZZZZZ** Batch ID: **R60510** TestNo: **SW9251** Analysis Date: **1/29/05** SeqNo: **918875**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	42	0.5	1	40	1	102.5	90	110	0	0		

Sample ID: **05010552-002B MS** SampType: **MS** TestCode: **A_CHLORIDE_S_** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 2_050**
Client ID: **HMW-28/050121** Batch ID: **R60510** TestNo: **SW9251** Analysis Date: **1/29/05** SeqNo: **918830**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	71	0.5	1	40	35	90	85	115	0	0		

Sample ID: **05010552-002B MSD** SampType: **MSD** TestCode: **A_CHLORIDE_S_** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 2_050**
Client ID: **HMW-28/050121** Batch ID: **R60510** TestNo: **SW9251** Analysis Date: **1/29/05** SeqNo: **918831**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	71	0.5	1	40	35	90	85	115	71	0	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: A_SO4_S_AT

Sample ID: **MB-R60514** SampType: **MBLK** TestCode: **A_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 3_050**
Client ID: **ZZZZZ** Batch ID: **R60514** TestNo: **SW9036** Analysis Date: **1/30/05** SeqNo: **919046**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 40	40	40									

Sample ID: **LCS-R60514** SampType: **LCS** TestCode: **A_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 3_050**
Client ID: **ZZZZZ** Batch ID: **R60514** TestNo: **SW9036** Analysis Date: **1/30/05** SeqNo: **919045**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	276	20	40	300	0	92	90	110	0	0		

Sample ID: **05010552-002B MS** SampType: **MS** TestCode: **A_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 3_050**
Client ID: **HMW-28/050121** Batch ID: **R60514** TestNo: **SW9036** Analysis Date: **1/30/05** SeqNo: **919013**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	366	22	44	330	79	87	85	115	0	0		

Sample ID: **05010552-002B MSD** SampType: **MSD** TestCode: **A_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 3_050**
Client ID: **HMW-28/050121** Batch ID: **R60514** TestNo: **SW9036** Analysis Date: **1/30/05** SeqNo: **919014**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	373	22	44	330	79	89.1	85	115	366	1.90	10	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: A_TCN_S_AT

Sample ID: **LCSQC** SampType: **LCSQC** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **ZZZZZ** Batch ID: **R60398** TestNo: **SW9012A** Analysis Date: **1/25/05** SeqNo: **916684**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.079	0.0026	0.007	0.1	0	79	70	100	0	0		

Sample ID: **LCSQC** SampType: **LCSQC** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **ZZZZZ** Batch ID: **R60515** TestNo: **SW9012A** Analysis Date: **1/27/05** SeqNo: **919102**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.079	0.0026	0.007	0.1	0	79	70	100	0	0		

Sample ID: **MB-R60398** SampType: **MBLK** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **ZZZZZ** Batch ID: **R60398** TestNo: **SW9012A** Analysis Date: **1/25/05** SeqNo: **916632**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	< 0.007	0.0026	0.007									

Sample ID: **MB-R60515** SampType: **MBLK** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **ZZZZZ** Batch ID: **R60515** TestNo: **SW9012A** Analysis Date: **1/27/05** SeqNo: **919049**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	< 0.007	0.0026	0.007									

Sample ID: **LCS-R60398** SampType: **LCS** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **ZZZZZ** Batch ID: **R60398** TestNo: **SW9012A** Analysis Date: **1/25/05** SeqNo: **916633**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.095	0.0026	0.007	0.1	0	95	85	115	0	0		

Sample ID: **LCS-R60515** SampType: **LCS** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **ZZZZZ** Batch ID: **R60515** TestNo: **SW9012A** Analysis Date: **1/27/05** SeqNo: **919050**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: A_TCN_S_AT

Sample ID: **LCS-R60515** SampType: **LCS** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **ZZZZZ** Batch ID: **R60515** TestNo: **SW9012A** Analysis Date: **1/27/05** SeqNo: **919050**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.1	0.0026	0.007	0.1	0	100	85	115	0	0		

Sample ID: **05010552-001E MS** SampType: **MS** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **Dup-001/050121** Batch ID: **R60398** TestNo: **SW9012A** Analysis Date: **1/25/05** SeqNo: **916655**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.088	0.0026	0.007	0.1	0	88	75	125	0	0		

Sample ID: **05010552-001E MSD** SampType: **MSD** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **Dup-001/050121** Batch ID: **R60398** TestNo: **SW9012A** Analysis Date: **1/25/05** SeqNo: **916656**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.091	0.0026	0.007	0.1	0	91	75	125	0.088	3.35	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_ALK_M_AT

Sample ID: **MB-R60443** SampType: **MBLK** TestCode: **I_ALK_M_AT** Units: **mg/L** Prep Date: Run ID: **PH METER- ING._05012**
Client ID: **ZZZZZ** Batch ID: **R60443** TestNo: **M2320 B (T)** Analysis Date: **1/27/05** SeqNo: **917726**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (as CaCO3)	< 0	0	0									

Sample ID: **LCS-R60443** SampType: **LCS** TestCode: **I_ALK_M_AT** Units: **mg/L** Prep Date: Run ID: **PH METER- ING._05012**
Client ID: **ZZZZZ** Batch ID: **R60443** TestNo: **M2320 B (T)** Analysis Date: **1/27/05** SeqNo: **917727**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (as CaCO3)	237	0	0	239	0	99.2	90	110	0	0		

Sample ID: **05010552-002B MS** SampType: **MS** TestCode: **I_ALK_M_AT** Units: **mg/L** Prep Date: Run ID: **PH METER- ING._05012**
Client ID: **HMW-28/050121** Batch ID: **R60443** TestNo: **M2320 B (T)** Analysis Date: **1/27/05** SeqNo: **917738**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (as CaCO3)	630	0	0	96	540	93.8	85	115	0	0		

Sample ID: **05010552-002B MSD** SampType: **MSD** TestCode: **I_ALK_M_AT** Units: **mg/L** Prep Date: Run ID: **PH METER- ING._05012**
Client ID: **HMW-28/050121** Batch ID: **R60443** TestNo: **M2320 B (T)** Analysis Date: **1/27/05** SeqNo: **917739**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (as CaCO3)	634	0	0	96	540	97.9	85	115	630	0.633	10	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_COD_M_AT

Sample ID: **MB-R60347** SampType: **MBLK** TestCode: **I_COD_M_AT** Units: **mg/L** Prep Date: Run ID: **DR2010_050125B**
Client ID: **ZZZZZ** Batch ID: **R60347** TestNo: **M5220 D** Analysis Date: **1/25/05** SeqNo: **915782**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	< 20	7.3	20									

Sample ID: **LCS-R60347** SampType: **LCS** TestCode: **I_COD_M_AT** Units: **mg/L** Prep Date: Run ID: **DR2010_050125B**
Client ID: **ZZZZZ** Batch ID: **R60347** TestNo: **M5220 D** Analysis Date: **1/25/05** SeqNo: **915783**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	60	7.3	20	74	0	81.1	74	118	0	0		

Sample ID: **05010552-001GMS** SampType: **MS** TestCode: **I_COD_M_AT** Units: **mg/L** Prep Date: Run ID: **DR2010_050125B**
Client ID: **Dup-001/050121** Batch ID: **R60347** TestNo: **M5220 D** Analysis Date: **1/25/05** SeqNo: **915793**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	978	14.6	40	1000	0	97.8	85	115	0	0		

Sample ID: **05010552-001GMSD** SampType: **MSD** TestCode: **I_COD_M_AT** Units: **mg/L** Prep Date: Run ID: **DR2010_050125B**
Client ID: **Dup-001/050121** Batch ID: **R60347** TestNo: **M5220 D** Analysis Date: **1/25/05** SeqNo: **915794**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	983	14.6	40	1000	0	98.3	85	115	978	0.510	10	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_HARD_M_AT

Sample ID: **MB-R60485** SampType: **MBLK** TestCode: **I_HARD_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050126I**
Client ID: **ZZZZZ** Batch ID: **R60485** TestNo: **M2340C** Analysis Date: **1/26/05** SeqNo: **918486**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness, as (CaCO3)	< 5	3	5									

Sample ID: **LCS-R60485** SampType: **LCS** TestCode: **I_HARD_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050126I**
Client ID: **ZZZZZ** Batch ID: **R60485** TestNo: **M2340C** Analysis Date: **1/26/05** SeqNo: **918487**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness, as (CaCO3)	1000	3	5	1000	0	100	90	110	0	0		

Sample ID: **05010552-001BMS** SampType: **MS** TestCode: **I_HARD_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050126I**
Client ID: **Dup-001/050121** Batch ID: **R60485** TestNo: **M2340C** Analysis Date: **1/26/05** SeqNo: **918489**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness, as (CaCO3)	584	3	5	80	492	115	85	115	0	0		

Sample ID: **05010552-001BMSD** SampType: **MSD** TestCode: **I_HARD_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050126I**
Client ID: **Dup-001/050121** Batch ID: **R60485** TestNo: **M2340C** Analysis Date: **1/26/05** SeqNo: **918490**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness, as (CaCO3)	564	3	5	80	492	90	85	115	584	3.48	10	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_SUL_M_AT

Sample ID: MB-R60460 | SampType: MBLK | TestCode: I_SUL_M_AT | Units: mg/L | Prep Date: | Run ID: DR2010_050126D
Client ID: ZZZZZ | Batch ID: R60460 | TestNo: M4500-S D | Analysis Date: 1/26/05 | SeqNo: 918029

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	< 0.05	0.013	0.05									

Sample ID: LCS-R60460 | SampType: LCS | TestCode: I_SUL_M_AT | Units: mg/L | Prep Date: | Run ID: DR2010_050126D
Client ID: ZZZZZ | Batch ID: R60460 | TestNo: M4500-S D | Analysis Date: 1/26/05 | SeqNo: 918030

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	0.62	0.013	0.05	0.67	0	92.5	85	115	0	0		

Sample ID: 05010552-001FMS | SampType: MS | TestCode: I_SUL_M_AT | Units: mg/L | Prep Date: | Run ID: DR2010_050126D
Client ID: Dup-001/050121 | Batch ID: R60460 | TestNo: M4500-S D | Analysis Date: 1/26/05 | SeqNo: 918084

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	0.59	0.013	0.05	0.67	0	88.1	80	120	0	0		

Sample ID: 05010552-002FMS | SampType: MS | TestCode: I_SUL_M_AT | Units: mg/L | Prep Date: | Run ID: DR2010_050126D
Client ID: HMW-28/050121 | Batch ID: R60460 | TestNo: M4500-S D | Analysis Date: 1/26/05 | SeqNo: 918479

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	0.55	0.013	0.05	0.67	0	82.1	80	120	0	0		

Sample ID: 05010552-003FMS | SampType: MS | TestCode: I_SUL_M_AT | Units: mg/L | Prep Date: | Run ID: DR2010_050126D
Client ID: HMW-27/050121 | Batch ID: R60460 | TestNo: M4500-S D | Analysis Date: 1/26/05 | SeqNo: 918481

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	0.61	0.013	0.05	0.67	0	91	80	120	0	0		

Sample ID: 05010552-004FMS | SampType: MS | TestCode: I_SUL_M_AT | Units: mg/L | Prep Date: | Run ID: DR2010_050126D
Client ID: HMW-26/050121 | Batch ID: R60460 | TestNo: M4500-S D | Analysis Date: 1/26/05 | SeqNo: 918483

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit | S - Spike Recovery outside accepted recovery limits | NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits | B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_SUL_M_AT

Sample ID: **05010552-004FMS** SampType: **MS** TestCode: **I_SUL_M_AT** Units: **mg/L** Prep Date: Run ID: **DR2010_050126D**
Client ID: **HMW-26/050121** Batch ID: **R60460** TestNo: **M4500-S D** Analysis Date: **1/26/05** SeqNo: **918483**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	0.66	0.013	0.05	0.67	0	98.5	80	120	0	0		

Sample ID: **05010552-005FMS** SampType: **MS** TestCode: **I_SUL_M_AT** Units: **mg/L** Prep Date: Run ID: **DR2010_050126D**
Client ID: **HMW-25/050121** Batch ID: **R60460** TestNo: **M4500-S D** Analysis Date: **1/26/05** SeqNo: **918498**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	0.59	0.013	0.05	0.67	0	88.1	80	120	0	0		

Sample ID: **05010552-001FMSD** SampType: **MSD** TestCode: **I_SUL_M_AT** Units: **mg/L** Prep Date: Run ID: **DR2010_050126D**
Client ID: **Dup-001/050121** Batch ID: **R60460** TestNo: **M4500-S D** Analysis Date: **1/26/05** SeqNo: **918085**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	0.59	0.013	0.05	0.67	0	88.1	80	120	0.59	0	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_TDS_M_AT

Sample ID: **MB-R60529** SampType: **MBLK** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **ZZZZZ** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919319**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	< 20	10	20									

Sample ID: **MB-R60529** SampType: **MBLK** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **ZZZZZ** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919425**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	< 20	10	20									

Sample ID: **LCS-R60529** SampType: **LCS** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **ZZZZZ** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919320**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	998	10	20	1000	0	99.8	85	115	0	0		

Sample ID: **LCS-R60529** SampType: **LCS** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **ZZZZZ** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919424**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	946	10	20	1000	0	94.6	85	115	998	5.35	0	

Sample ID: **05010552-002B MS** SampType: **MS** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **HMW-28/050121** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919344**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	1160	10	20	500	678	96.4	85	115	0	0		

Sample ID: **05010552-002B MSD** SampType: **MSD** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **HMW-28/050121** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919345**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_TDS_M_AT

Sample ID: **05010552-002B MSD** SampType: **MSD** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **HMW-28/050121** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919345**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	1160	10	20	500	678	96.4	85	115	1160	0	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_TSS_M_AT

Sample ID: **MB-R60417** SampType: **MBLK** TestCode: **I_TSS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050126B**
Client ID: **ZZZZZ** Batch ID: **R60417** TestNo: **M2540 D** Analysis Date: **1/26/05** SeqNo: **917088**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	< 6	5	6									

Sample ID: **LCS-R60417** SampType: **LCS** TestCode: **I_TSS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050126B**
Client ID: **ZZZZZ** Batch ID: **R60417** TestNo: **M2540 D** Analysis Date: **1/26/05** SeqNo: **917089**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	99	5	6	100	0	99	85	115	0	0		

Sample ID: **05010552-001B DUP** SampType: **DUP** TestCode: **I_TSS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050126B**
Client ID: **Dup-001/050121** Batch ID: **R60417** TestNo: **M2540 D** Analysis Date: **1/26/05** SeqNo: **917113**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	8	5	6	0	0	0	0	0	10	22.2	15	R

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: L_PH_S_A

Sample ID: **LCS-R60312** SampType: **LCS** TestCode: **L_PH_S_A** Units: Prep Date: Run ID: **PH METER - LOG IN_05**
Client ID: **ZZZZZ** Batch ID: **R60312** TestNo: **SW9040 B** Analysis Date: **1/24/05** SeqNo: **915101**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.04	0	1.00	7	0	100.6	99.1	100.9	0	0		

Sample ID: **05010552-001B DUP** SampType: **DUP** TestCode: **L_PH_S_A** Units: Prep Date: Run ID: **PH METER - LOG IN_05**
Client ID: **Dup-001/050121** Batch ID: **R60312** TestNo: **SW9040 B** Analysis Date: **1/24/05** SeqNo: **915064**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.93	0	1.00	0	0	0	0	0	6.96	0.432	10	H

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_SD

Sample ID: **MB-23692** SampType: **MBLK** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050128A**
Client ID: **ZZZZZ** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918298**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	< 0.0050	0.0017	0.0050	0.005	0	0	-100	100	0	0		

Sample ID: **MB-23692** SampType: **MBLK** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050128B**
Client ID: **ZZZZZ** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918802**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	< 0.0060	0.0035	0.0060	0.006	0	0	-100	100	0	0		

Sample ID: **MB-23692** SampType: **MBLK** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050127C**
Client ID: **ZZZZZ** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/27/05** SeqNo: **920682**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	< 0.0020	0.0004	0.0020	0.002	0	0	-100	100	0	0		

Sample ID: **MB-23692** SampType: **MBLK** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050127B**
Client ID: **ZZZZZ** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/27/05** SeqNo: **920757**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	< 0.0030	0.0007	0.0030	0.003	0	0	-100	100	0	0		

Sample ID: **LCS-23692** SampType: **LCS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050128A**
Client ID: **ZZZZZ** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918297**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0335	0.0017	0.0050	0.03	0	111.7	85	115	0	0		

Sample ID: **LCS-23692** SampType: **LCS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050128B**
Client ID: **ZZZZZ** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918801**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_SD

Sample ID: **LCS-23692** SampType: **LCS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050128B**
Client ID: **ZZZZZ** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918801**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0281	0.0035	0.0060	0.03	0	93.7	85	115	0	0		

Sample ID: **LCS-23692** SampType: **LCS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050127B**
Client ID: **ZZZZZ** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/27/05** SeqNo: **920756**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0159	0.0007	0.0030	0.015	0	106	85	115	0	0		

Sample ID: **05010552-003DMS** SampType: **MS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050127B**
Client ID: **HMW-27/050121** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/27/05** SeqNo: **917523**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.016	0.0007	0.0030	0.015	0	106.7	70	130	0	0		

Sample ID: **05010552-003DMS** SampType: **MS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050127C**
Client ID: **HMW-27/050121** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/27/05** SeqNo: **918064**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0136	0.0004	0.0020	0.015	0	90.7	70	130	0	0		

Sample ID: **05010552-003DMS** SampType: **MS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050128A**
Client ID: **HMW-27/050121** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918302**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0336	0.0017	0.0050	0.03	0	112	70	130	0	0		

Sample ID: **05010552-003DMS** SampType: **MS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050131B**
Client ID: **HMW-27/050121** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/31/05** SeqNo: **920303**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_SD

Sample ID: **05010552-003DMS** SampType: **MS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050131B**
Client ID: **HMW-27/050121** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/31/05** SeqNo: **920303**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0308	0.0035	0.0060	0.03	0	102.7	70	130	0	0		

Sample ID: **05010552-003DMSD** SampType: **MSD** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050127B**
Client ID: **HMW-27/050121** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/27/05** SeqNo: **917524**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0159	0.0007	0.0030	0.015	0	106	70	130	0.016	0.626	15	

Sample ID: **05010552-003DMSD** SampType: **MSD** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050127C**
Client ID: **HMW-27/050121** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/27/05** SeqNo: **918065**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0136	0.0004	0.0020	0.015	0	90.7	70	130	0.0136	0	15	

Sample ID: **05010552-003DMSD** SampType: **MSD** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050128A**
Client ID: **HMW-27/050121** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918303**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0358	0.0017	0.0050	0.03	0	119.3	70	130	0.0336	6.34	15	

Sample ID: **05010552-003DMSD** SampType: **MSD** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050131B**
Client ID: **HMW-27/050121** Batch ID: **23692** TestNo: **SW7000 G** Analysis Date: **1/31/05** SeqNo: **920318**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0274	0.0035	0.0060	0.03	0	91.3	70	130	0.0308	11.7	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: MB-23652	SampType: MBLK	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 1/24/05	Run ID: GFAA-2_050126A
Client ID: ZZZZZ	Batch ID: 23652	TestNo: SW7000 G		Analysis Date: 1/26/05	SeqNo: 916407

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	< 0.0060	0.0035	0.0060	0.006	0	0	-100	100	0	0		

Sample ID: MB-23652	SampType: MBLK	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 1/24/05	Run ID: GFAA_050127B
Client ID: ZZZZZ	Batch ID: 23652	TestNo: SW7000 G		Analysis Date: 1/27/05	SeqNo: 917537

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	< 0.0030	0.0007	0.0030	0.003	0	0	-100	100	0	0		

Sample ID: MB-23652	SampType: MBLK	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 1/24/05	Run ID: GFAA-2_050127A
Client ID: ZZZZZ	Batch ID: 23652	TestNo: SW7000 G		Analysis Date: 1/27/05	SeqNo: 917725

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	< 0.0050	0.0017	0.0050	0.005	0	0	-100	100	0	0		

Sample ID: MB-23652	SampType: MBLK	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 1/24/05	Run ID: GFAA_050127C
Client ID: ZZZZZ	Batch ID: 23652	TestNo: SW7000 G		Analysis Date: 1/27/05	SeqNo: 917783

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.00053	0.0004	0.0020	0.002	0	25	-100	100	0	0		J

Sample ID: LCS-23652	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 1/24/05	Run ID: GFAA-2_050126A
Client ID: ZZZZZ	Batch ID: 23652	TestNo: SW7000 G		Analysis Date: 1/26/05	SeqNo: 916406

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0311	0.0035	0.0060	0.03	0	103.7	85	115	0	0		

Sample ID: LCS-23652	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 1/24/05	Run ID: GFAA_050127B
Client ID: ZZZZZ	Batch ID: 23652	TestNo: SW7000 G		Analysis Date: 1/27/05	SeqNo: 917536

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: LCS-23652	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 1/24/05	Run ID: GFAA_050127B
Client ID: ZZZZZ	Batch ID: 23652	TestNo: SW7000 G		Analysis Date: 1/27/05	SeqNo: 917536

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0143	0.0007	0.0030	0.015	0	95.3	85	115	0	0		

Sample ID: LCS-23652	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 1/24/05	Run ID: GFAA-2_050127A
Client ID: ZZZZZ	Batch ID: 23652	TestNo: SW7000 G		Analysis Date: 1/27/05	SeqNo: 917724

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0322	0.0017	0.0050	0.03	0	107.3	85	115	0	0		

Sample ID: LCS-23652	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 1/24/05	Run ID: GFAA_050127C
Client ID: ZZZZZ	Batch ID: 23652	TestNo: SW7000 G		Analysis Date: 1/27/05	SeqNo: 917782

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0142	0.0004	0.0020	0.015	0	94.7	85	115	0	0		

Sample ID: LCS-23692	SampType: LCS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date:	Run ID: GFAA_050131A
Client ID: ZZZZZ	Batch ID: 23692	TestNo: SW7000 G		Analysis Date: 1/31/05	SeqNo: 921322

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0154	0.0004	0.0020	0.015	0	102.7	85	115	0	0		

Sample ID: 05010552-001CMS	SampType: MS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 1/24/05	Run ID: GFAA_050127C
Client ID: Dup-001/050121	Batch ID: 23652	TestNo: SW7000 G		Analysis Date: 1/27/05	SeqNo: 918021

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.015	0.0004	0.0020	0.015	0	100	70	130	0	0		

Sample ID: 05010552-001CMS	SampType: MS	TestCode: M_AQ_GF_ST	Units: mg/L	Prep Date: 1/24/05	Run ID: GFAA-2_050128A
Client ID: Dup-001/050121	Batch ID: 23652	TestNo: SW7000 G		Analysis Date: 1/28/05	SeqNo: 918289

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: **05010552-001CMS** SampType: **MS** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/24/05** Run ID: **GFAA-2_050128A**
Client ID: **Dup-001/050121** Batch ID: **23652** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918289**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0348	0.0017	0.0050	0.03	0	116	70	130	0	0		

Sample ID: **05010552-001CMS** SampType: **MS** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/24/05** Run ID: **GFAA-2_050128B**
Client ID: **Dup-001/050121** Batch ID: **23652** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918795**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0365	0.0035	0.0060	0.03	0	121.7	70	130	0	0		

Sample ID: **05010552-001CMS** SampType: **MS** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/24/05** Run ID: **GFAA_050130A**
Client ID: **Dup-001/050121** Batch ID: **23652** TestNo: **SW7000 G** Analysis Date: **1/30/05** SeqNo: **919539**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0161	0.0007	0.0030	0.015	0	107.3	70	130	0	0		

Sample ID: **05010552-001CMSD** SampType: **MSD** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/24/05** Run ID: **GFAA_050127C**
Client ID: **Dup-001/050121** Batch ID: **23652** TestNo: **SW7000 G** Analysis Date: **1/27/05** SeqNo: **918022**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0158	0.0004	0.0020	0.015	0	105.3	70	130	0.015	5.20	15	

Sample ID: **05010552-001CMSD** SampType: **MSD** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/24/05** Run ID: **GFAA-2_050128A**
Client ID: **Dup-001/050121** Batch ID: **23652** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918290**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0377	0.0017	0.0050	0.03	0	125.7	70	130	0.0348	8.01	15	

Sample ID: **05010552-001CMSD** SampType: **MSD** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/24/05** Run ID: **GFAA-2_050128B**
Client ID: **Dup-001/050121** Batch ID: **23652** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918796**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: **05010552-001CMSD** SampType: **MSD** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/24/05** Run ID: **GFAA-2_050128B**
Client ID: **Dup-001/050121** Batch ID: **23652** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918796**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0354	0.0035	0.0060	0.03	0	118	70	130	0.0365	3.06	15	

Sample ID: **05010552-001CMSD** SampType: **MSD** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/24/05** Run ID: **GFAA_050130A**
Client ID: **Dup-001/050121** Batch ID: **23652** TestNo: **SW7000 G** Analysis Date: **1/30/05** SeqNo: **919540**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0171	0.0007	0.0030	0.015	0	114	70	130	0.0161	6.02	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_SD

Sample ID: MB-23694 | SampType: MBLK | TestCode: M_AQ_ICP_SD | Units: mg/L | Prep Date: 1/26/05 | Run ID: ICP_050126E
Client ID: ZZZZZ | Batch ID: 23694 | TestNo: SW6010B | Analysis Date: 1/26/05 | SeqNo: 916899

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	< 0.0050	0.0024	0.0050	0.005	0	0	-100	100	0	0		
Beryllium	0.0007	0.0003	0.0010	0.001	0	70	-100	100	0	0		J
Cadmium	< 0.0020	0.0003	0.0020	0.002	0	0	-100	100	0	0		
Chromium	0.0054	0.004	0.0100	0.01	0	54	-100	100	0	0		J
Cobalt	< 0.0100	0.0022	0.0100	0.01	0	0	-100	100	0	0		
Nickel	< 0.0100	0.0033	0.0100	0.01	0	0	-100	100	0	0		
Silver	< 0.0100	0.0032	0.0100	0.01	0	0	-100	100	0	0		
Vanadium	< 0.0100	0.0032	0.0100	0.01	0	0	-100	100	0	0		
Zinc	< 0.0100	0.0021	0.0100	0.01	0	0	-100	100	0	0		

Sample ID: MB-23694 | SampType: MBLK | TestCode: M_AQ_ICP_SD | Units: mg/L | Prep Date: 1/26/05 | Run ID: ICP 2_050128A
Client ID: ZZZZZ | Batch ID: 23694 | TestNo: SW6010B | Analysis Date: 1/28/05 | SeqNo: 918248

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	< 0.0100	0.0033	0.0100	0.01	0	0	-100	100	0	0		
Zinc	< 0.0100	0.0021	0.0100	0.01	0	0	-100	100	0	0		

Sample ID: LCS-23694 | SampType: LCS | TestCode: M_AQ_ICP_SD | Units: mg/L | Prep Date: 1/26/05 | Run ID: ICP_050126E
Client ID: ZZZZZ | Batch ID: 23694 | TestNo: SW6010B | Analysis Date: 1/26/05 | SeqNo: 916848

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.88	0.0024	0.0050	2	0	94	85	115	0	0		
Beryllium	0.0483	0.0003	0.0010	0.05	0	96.6	85	115	0	0		
Cadmium	0.0461	0.0003	0.0020	0.05	0	92.2	85	115	0	0		
Chromium	0.198	0.004	0.0100	0.2	0	99	85	115	0	0		
Cobalt	0.457	0.0022	0.0100	0.5	0	91.4	85	115	0	0		
Nickel	0.479	0.0033	0.0100	0.5	0	95.8	85	115	0	0		
Silver	0.0535	0.0032	0.0100	0.05	0	107	85	115	0	0		
Vanadium	0.467	0.0032	0.0100	0.5	0	93.4	85	115	0	0		
Zinc	0.477	0.0021	0.0100	0.5	0	95.4	85	115	0	0		

Qual: ND - Not Detected at the Reporting Limit | S - Spike Recovery outside accepted recovery limits | NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits | B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_SD

Sample ID: LCS-23694 | SampType: LCS | TestCode: M_AQ_ICP_SD | Units: mg/L | Prep Date: 1/26/05 | Run ID: ICP 2_050128A
Client ID: ZZZZZ | Batch ID: 23694 | TestNo: SW6010B | Analysis Date: 1/28/05 | SeqNo: 918249

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.489	0.0033	0.0100	0.5	0	97.8	85	115	0	0		
Zinc	0.506	0.0021	0.0100	0.5	0	101.2	85	115	0	0		

Sample ID: 05010552-001DMS | SampType: MS | TestCode: M_AQ_ICP_SD | Units: mg/L | Prep Date: 1/26/05 | Run ID: ICP_050126E
Client ID: Dup-001/050121 | Batch ID: 23694 | TestNo: SW6010B | Analysis Date: 1/26/05 | SeqNo: 916901

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	2.01	0.0024	0.0050	2	0.233	88.9	75	125	0	0		
Beryllium	0.0479	0.0003	0.0010	0.05	0	95.8	75	125	0	0		
Cadmium	0.0441	0.0003	0.0020	0.05	0	88.2	75	125	0	0		
Chromium	0.22	0.004	0.0100	0.2	0	110	75	125	0	0		
Cobalt	0.422	0.0022	0.0100	0.5	0	84.4	75	125	0	0		
Nickel	0.456	0.0033	0.0100	0.5	0.0105	89.1	75	125	0	0		
Silver	0.0571	0.0032	0.0100	0.05	0	114.2	75	125	0	0		
Vanadium	0.494	0.0032	0.0100	0.5	0	98.8	75	125	0	0		

Sample ID: 05010552-001DMS | SampType: MS | TestCode: M_AQ_ICP_SD | Units: mg/L | Prep Date: 1/26/05 | Run ID: ICP 2_050128A
Client ID: Dup-001/050121 | Batch ID: 23694 | TestNo: SW6010B | Analysis Date: 1/28/05 | SeqNo: 918260

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.49	0.0021	0.0100	0.5	0.0117	95.7	75	125	0	0		

Sample ID: 05010552-001DMSD | SampType: MSD | TestCode: M_AQ_ICP_SD | Units: mg/L | Prep Date: 1/26/05 | Run ID: ICP_050126E
Client ID: Dup-001/050121 | Batch ID: 23694 | TestNo: SW6010B | Analysis Date: 1/26/05 | SeqNo: 916902

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.99	0.0024	0.0050	2	0.233	87.8	75	125	2.01	0.999	15	
Beryllium	0.0486	0.0003	0.0010	0.05	0	97.2	75	125	0.0479	1.45	15	
Cadmium	0.043	0.0003	0.0020	0.05	0	86	75	125	0.0441	2.53	15	
Chromium	0.214	0.004	0.0100	0.2	0	107	75	125	0.22	2.77	15	
Cobalt	0.42	0.0022	0.0100	0.5	0	84	75	125	0.422	0.475	15	

Qual: ND - Not Detected at the Reporting Limit | S - Spike Recovery outside accepted recovery limits | NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits | B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_SD

Sample ID: **05010552-001DMSD** SampType: **MSD** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP_050126E**
Client ID: **Dup-001/050121** Batch ID: **23694** TestNo: **SW6010B** Analysis Date: **1/26/05** SeqNo: **916902**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.45	0.0033	0.0100	0.5	0.0105	87.9	75	125	0.456	1.32	15	
Silver	0.0576	0.0032	0.0100	0.05	0	115.2	75	125	0.0571	0.872	15	
Vanadium	0.481	0.0032	0.0100	0.5	0	96.2	75	125	0.494	2.67	15	

Sample ID: **05010552-001DMSD** SampType: **MSD** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP 2_050128A**
Client ID: **Dup-001/050121** Batch ID: **23694** TestNo: **SW6010B** Analysis Date: **1/28/05** SeqNo: **918261**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.497	0.0021	0.0100	0.5	0.0117	97.1	75	125	0.49	1.42	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: **MB-23654** SampType: **MBLK** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP_050126E**
Client ID: **ZZZZZ** Batch ID: **23654** TestNo: **SW6010B** Analysis Date: **1/26/05** SeqNo: **916820**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	< 0.0050	0.0024	0.0050	0.005	0	0	-100	100	0	0		
Beryllium	0.0003	0.0003	0.0010	0.001	0	30	-100	100	0	0		J
Cadmium	< 0.0020	0.0003	0.0020	0.002	0	0	-100	100	0	0		
Chromium	< 0.0100	0.004	0.0100	0.01	0	0	-100	100	0	0		
Cobalt	< 0.0100	0.0022	0.0100	0.01	0	0	-100	100	0	0		
Nickel	< 0.0100	0.0033	0.0100	0.01	0	0	-100	100	0	0		
Silver	< 0.0100	0.0032	0.0100	0.01	0	0	-100	100	0	0		
Vanadium	< 0.0100	0.0032	0.0100	0.01	0	0	-100	100	0	0		
Zinc	< 0.0100	0.0021	0.0100	0.01	0	0	-100	100	0	0		

Sample ID: **MB-23654** SampType: **MBLK** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP 2_050128A**
Client ID: **ZZZZZ** Batch ID: **23654** TestNo: **SW6010B** Analysis Date: **1/28/05** SeqNo: **918243**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	< 0.0100	0.0033	0.0100	0.01	0	0	-100	100	0	0		

Sample ID: **LCS-23654** SampType: **LCS** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP_050126E**
Client ID: **ZZZZZ** Batch ID: **23654** TestNo: **SW6010B** Analysis Date: **1/26/05** SeqNo: **916819**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.96	0.0024	0.0050	2	0	98	85	115	0	0		
Beryllium	0.0494	0.0003	0.0010	0.05	0.0003	98.2	85	115	0	0		
Cadmium	0.0487	0.0003	0.0020	0.05	0	97.4	85	115	0	0		
Chromium	0.182	0.004	0.0100	0.2	0	91	85	115	0	0		
Cobalt	0.484	0.0022	0.0100	0.5	0	96.8	85	115	0	0		
Nickel	0.493	0.0033	0.0100	0.5	0	98.6	85	115	0	0		
Silver	0.0514	0.0032	0.0100	0.05	0	102.8	85	115	0	0		
Vanadium	0.489	0.0032	0.0100	0.5	0	97.8	85	115	0	0		
Zinc	0.483	0.0021	0.0100	0.5	0	96.6	85	115	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: **LCS-23654** SampType: **LCS** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP 2_050128A**
Client ID: **ZZZZZ** Batch ID: **23654** TestNo: **SW6010B** Analysis Date: **1/28/05** SeqNo: **918244**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.488	0.0033	0.0100	0.5	0	97.6	85	115	0	0		

Sample ID: **05010552-002CMS** SampType: **MS** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP_050126E**
Client ID: **HMW-28/050121** Batch ID: **23654** TestNo: **SW6010B** Analysis Date: **1/26/05** SeqNo: **916834**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.89	0.0024	0.0050	2	0.0848	90.3	75	125	0	0		
Beryllium	0.048	0.0003	0.0010	0.05	0	96	75	125	0	0		
Cadmium	0.0445	0.0003	0.0020	0.05	0	89	75	125	0	0		
Chromium	0.171	0.004	0.0100	0.2	0	85.5	75	125	0	0		
Cobalt	0.434	0.0022	0.0100	0.5	0	86.8	75	125	0	0		
Nickel	0.464	0.0033	0.0100	0.5	0.0186	89.1	75	125	0	0		
Silver	0.0539	0.0032	0.0100	0.05	0	107.8	75	125	0	0		
Vanadium	0.473	0.0032	0.0100	0.5	0	94.6	75	125	0	0		
Zinc	0.477	0.0021	0.0100	0.5	0.008	93.8	75	125	0	0		

Sample ID: **05010552-002CMSD** SampType: **MSD** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP_050126E**
Client ID: **HMW-28/050121** Batch ID: **23654** TestNo: **SW6010B** Analysis Date: **1/26/05** SeqNo: **916835**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.88	0.0024	0.0050	2	0.0848	89.8	75	125	1.89	0.531	15	
Beryllium	0.0476	0.0003	0.0010	0.05	0	95.2	75	125	0.048	0.837	15	
Cadmium	0.0442	0.0003	0.0020	0.05	0	88.4	75	125	0.0445	0.676	15	
Chromium	0.178	0.004	0.0100	0.2	0	89	75	125	0.171	4.01	15	
Cobalt	0.431	0.0022	0.0100	0.5	0	86.2	75	125	0.434	0.694	15	
Nickel	0.458	0.0033	0.0100	0.5	0.0186	87.9	75	125	0.464	1.30	15	
Silver	0.0549	0.0032	0.0100	0.05	0	109.8	75	125	0.0539	1.84	15	
Vanadium	0.463	0.0032	0.0100	0.5	0	92.6	75	125	0.473	2.14	15	
Zinc	0.476	0.0021	0.0100	0.5	0.008	93.6	75	125	0.477	0.210	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_HG_AQ_S

Sample ID: **MB-23689** SampType: **MBLK** TestCode: **M_HG_AQ_S** Units: **mg/L** Prep Date: **1/25/05** Run ID: **CVAA_050126A**
Client ID: **ZZZZZ** Batch ID: **23689** TestNo: **SW7470 A** Analysis Date: **1/26/05** SeqNo: **916324**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00020	0.000051	0.00020	0.0002	0	0	-100	100	0	0		

Sample ID: **LCS-23689** SampType: **LCS** TestCode: **M_HG_AQ_S** Units: **mg/L** Prep Date: **1/25/05** Run ID: **CVAA_050126A**
Client ID: **ZZZZZ** Batch ID: **23689** TestNo: **SW7470 A** Analysis Date: **1/26/05** SeqNo: **916323**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0052	0.000051	0.00020	0.005	0	104	85	115	0	0		

Sample ID: **05010552-005CMS** SampType: **MS** TestCode: **M_HG_AQ_S** Units: **mg/L** Prep Date: **1/25/05** Run ID: **CVAA_050126A**
Client ID: **HMW-25/050121** Batch ID: **23689** TestNo: **SW7470 A** Analysis Date: **1/26/05** SeqNo: **916347**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00497	0.000051	0.00020	0.005	0	99.4	75	125	0	0		

Sample ID: **05010552-005CMSD** SampType: **MSD** TestCode: **M_HG_AQ_S** Units: **mg/L** Prep Date: **1/25/05** Run ID: **CVAA_050126A**
Client ID: **HMW-25/050121** Batch ID: **23689** TestNo: **SW7470 A** Analysis Date: **1/26/05** SeqNo: **916348**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00502	0.000051	0.00020	0.005	0	100.4	75	125	0.00497	1.00	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_HG_AQ_SD

Sample ID: **MB-23689** SampType: **MBLK** TestCode: **M_HG_AQ_SD** Units: **mg/L** Prep Date: **1/25/05** Run ID: **CVAA_050126A**
Client ID: **ZZZZZ** Batch ID: **23689** TestNo: **SW7470 A** Analysis Date: **1/26/05** SeqNo: **916326**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00020	0.000051	0.00020	0.0002	0	0	-100	100	0	0		

Sample ID: **LCS-23689** SampType: **LCS** TestCode: **M_HG_AQ_SD** Units: **mg/L** Prep Date: **1/25/05** Run ID: **CVAA_050126A**
Client ID: **ZZZZZ** Batch ID: **23689** TestNo: **SW7470 A** Analysis Date: **1/26/05** SeqNo: **916325**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0052	0.000051	0.00020	0.005	0	104	85	115	0	0		

Sample ID: **05010552-001DMS** SampType: **MS** TestCode: **M_HG_AQ_SD** Units: **mg/L** Prep Date: **1/25/05** Run ID: **CVAA_050126A**
Client ID: **Dup-001/050121** Batch ID: **23689** TestNo: **SW7470 A** Analysis Date: **1/26/05** SeqNo: **916336**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00496	0.000051	0.00020	0.005	0	99.2	75	125	0	0		

Sample ID: **05010552-001DMSD** SampType: **MSD** TestCode: **M_HG_AQ_SD** Units: **mg/L** Prep Date: **1/25/05** Run ID: **CVAA_050126A**
Client ID: **Dup-001/050121** Batch ID: **23689** TestNo: **SW7470 A** Analysis Date: **1/26/05** SeqNo: **916337**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00498	0.000051	0.00020	0.005	0	99.6	75	125	0.00496	0.402	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W

Sample ID: **MB-23658** SampType: **MBLK** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/25/05** Run ID: **5972 INST. M_050125A**
Client ID: **ZZZZZ** Batch ID: **23658** TestNo: **SW8270C** Analysis Date: **1/25/05** SeqNo: **915842**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dimethylphenol	ND	0.001	0.010									
2,4-Dinitrophenol	ND	0.01	0.020									
4-Nitrophenol	ND	0.004	0.020									
Bis(2-ethylhexyl)phthalate	ND	0.004	0.006									
Di-n-butyl phthalate	ND	0.003	0.010									
Diethyl phthalate	ND	0.002	0.010									
Dimethyl phthalate	ND	0.001	0.010									
m,p-Cresol	ND	0.001	0.010									
o-Cresol	ND	0.001	0.010									
Phenol	ND	0.0025	0.005									
Pyridine	ND	0.01	0.020									
Quinoline	ND	0.001	0.005									
Surr: 2,4,6-Tribromophenol	0.079	0	0	0.1	0	79	61.2	118	0	0		
Surr: 2-Fluorobiphenyl	0.039	0	0	0.05	0	78	52	111	0	0		
Surr: 2-Fluorophenol	0.042	0	0	0.1	0	42	27.8	70.1	0	0		
Surr: Nitrobenzene-d5	0.033	0	0	0.05	0	66	43.8	109	0	0		
Surr: p-Terphenyl-d14	0.04	0	0	0.05	0	80	66.8	116	0	0		
Surr: Phenol-d5	0.032	0	0	0.1	0	32	19.9	48.5	0	0		

Sample ID: **MB-23658** SampType: **MBLK** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/25/05** Run ID: **5972 INST. M_050126A**
Client ID: **ZZZZZ** Batch ID: **23658** TestNo: **SW8270C** Analysis Date: **1/26/05** SeqNo: **917268**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dimethylphenol	ND	0.001	0.010									
2,4-Dinitrophenol	ND	0.01	0.020									
4-Nitrophenol	ND	0.004	0.020									
Bis(2-ethylhexyl)phthalate	ND	0.004	0.006									
Di-n-butyl phthalate	ND	0.003	0.010									
Diethyl phthalate	ND	0.002	0.010									
Dimethyl phthalate	ND	0.001	0.010									
m,p-Cresol	ND	0.001	0.010									

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W

Sample ID: **MB-23658** SampType: **MBLK** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/25/05** Run ID: **5972 INST. M_050126A**
Client ID: **ZZZZZ** Batch ID: **23658** TestNo: **SW8270C** Analysis Date: **1/26/05** SeqNo: **917268**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Cresol	ND	0.001	0.010									
Phenol	ND	0.0025	0.005									
Pyridine	ND	0.01	0.020									
Quinoline	ND	0.001	0.005									
Surr: 2,4,6-Tribromophenol	0.07	0	0	0.1	0	70	61.2	118	0	0		
Surr: 2-Fluorobiphenyl	0.032	0	0	0.05	0	64	52	111	0	0		
Surr: 2-Fluorophenol	0.041	0	0	0.1	0	41	27.8	70.1	0	0		
Surr: Nitrobenzene-d5	0.031	0	0	0.05	0	62	43.8	109	0	0		
Surr: p-Terphenyl-d14	0.034	0	0	0.05	0	68	66.8	116	0	0		
Surr: Phenol-d5	0.031	0	0	0.1	0	31	19.9	48.5	0	0		

Sample ID: **LCS-23658** SampType: **LCS** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/25/05** Run ID: **5972 INST. M_050125A**
Client ID: **ZZZZZ** Batch ID: **23658** TestNo: **SW8270C** Analysis Date: **1/25/05** SeqNo: **915843**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	0.029	0.004	0.020	0.1	0	29	18.5	49.2	0	0		
Phenol	0.029	0.0025	0.005	0.1	0	29	19.7	45.6	0	0		
Surr: 2,4,6-Tribromophenol	0.084	0	0	0.1	0	84	56.6	127	0	0		
Surr: 2-Fluorobiphenyl	0.037	0	0	0.05	0	74	50.1	112	0	0		
Surr: 2-Fluorophenol	0.046	0	0	0.1	0	46	28.2	70.1	0	0		
Surr: Nitrobenzene-d5	0.033	0	0	0.05	0	66	46.6	108	0	0		
Surr: p-Terphenyl-d14	0.04	0	0	0.05	0	80	64.9	119	0	0		
Surr: Phenol-d5	0.035	0	0	0.1	0	35	20.8	48.6	0	0		

Sample ID: **LCSDUP-23658** SampType: **LCSD** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/25/05** Run ID: **5972 INST. M_050126A**
Client ID: **ZZZZZ** Batch ID: **23658** TestNo: **SW8270C** Analysis Date: **1/26/05** SeqNo: **917269**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	0.028	0.004	0.020	0.1	0	28	18.5	49.2	0.029	3.53	24.9	
Phenol	0.028	0.0025	0.005	0.1	0	28	19.7	45.6	0.029	3.50	25.5	
Surr: 2,4,6-Tribromophenol	0.081	0	0	0.1	0	81	56.6	127	0	0	0	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W

Sample ID: **LCSDUP-23658** SampType: **LCSD** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/25/05** Run ID: **5972 INST. M_050126A**
Client ID: **ZZZZZ** Batch ID: **23658** TestNo: **SW8270C** Analysis Date: **1/26/05** SeqNo: **917269**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.035	0	0	0.05	0	70	50.1	112	0	0	0	
Surr: 2-Fluorophenol	0.047	0	0	0.1	0	47	28.2	70.1	0	0	0	
Surr: Nitrobenzene-d5	0.035	0	0	0.05	0	70	46.6	108	0	0	0	
Surr: p-Terphenyl-d14	0.036	0	0	0.05	0	72	64.9	119	0	0	0	
Surr: Phenol-d5	0.035	0	0	0.1	0	35	20.8	48.6	0	0	0	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **MB-23659** SampType: **MBLK** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/25/05** Run ID: **HPLC INST. C_050125A**
Client ID: **ZZZZZ** Batch ID: **23659** TestNo: **SW8310** Analysis Date: **1/25/05** SeqNo: **915489**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.001	0.00300									
Anthracene	ND	0.0001	0.00030									
Benzo(a)anthracene	ND	0.00003	0.00009									
Benzo(a)pyrene	ND	0.00004	0.00012									
Benzo(b)fluoranthene	ND	0.00005	0.00015									
Benzo(k)fluoranthene	ND	0.00005	0.00015									
Chrysene	ND	0.00015	0.00045									
Dibenzo(a,h)anthracene	ND	0.00006	0.00018									
Fluoranthene	ND	0.0003	0.00090									
Fluorene	ND	0.0001	0.00030									
Naphthalene	ND	0.001	0.00300									
Phenanthrene	ND	0.0002	0.00060									
Pyrene	ND	0.0001	0.00030									
Surr: Terphenyl-d14	0.00827	0	0	0.01	0	82.7	71.4	126	0	0		

Sample ID: **MB-23714** SampType: **MBLK** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/27/05** Run ID: **HPLC INST. C_050127A**
Client ID: **ZZZZZ** Batch ID: **23714** TestNo: **SW8310** Analysis Date: **1/27/05** SeqNo: **918145**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.001	0.00300									
Anthracene	ND	0.0001	0.00030									
Benzo(a)anthracene	ND	0.00003	0.00009									
Benzo(a)pyrene	ND	0.00004	0.00012									
Benzo(b)fluoranthene	ND	0.00005	0.00015									
Benzo(k)fluoranthene	ND	0.00005	0.00015									
Chrysene	ND	0.00015	0.00045									
Dibenzo(a,h)anthracene	ND	0.00006	0.00018									
Fluoranthene	ND	0.0003	0.00090									
Fluorene	ND	0.0001	0.00030									
Indeno(1,2,3-cd)pyrene	ND	0.0001	0.00030									
Naphthalene	ND	0.001	0.00300									

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **MB-23714** SampType: **MBLK** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/27/05** Run ID: **HPLC INST. C_050127A**
Client ID: **ZZZZZ** Batch ID: **23714** TestNo: **SW8310** Analysis Date: **1/27/05** SeqNo: **918145**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	ND	0.0002	0.00060									
Pyrene	ND	0.0001	0.00030									
Surr: Terphenyl-d14	0.00832	0	0	0.01	0	83.2	71.4	126	0	0		

Sample ID: **LCS-23659** SampType: **LCS** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/25/05** Run ID: **HPLC INST. C_050125A**
Client ID: **ZZZZZ** Batch ID: **23659** TestNo: **SW8310** Analysis Date: **1/25/05** SeqNo: **915487**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.0318	0.001	0.00300	0.05	0	63.6	48.9	94	0	0		
Anthracene	0.00392	0.0001	0.00030	0.005	0	78.4	68.9	102	0	0		
Benzo(a)anthracene	0.00384	0.00003	0.00009	0.005	0	76.8	66.3	95.6	0	0		
Benzo(a)pyrene	0.00406	0.00004	0.00012	0.005	0	81.2	62.3	102	0	0		
Benzo(b)fluoranthene	0.00764	0.00005	0.00015	0.01	0	76.4	66.9	98.1	0	0		
Benzo(k)fluoranthene	0.00397	0.00005	0.00015	0.005	0	79.4	66.3	102	0	0		
Chrysene	0.00399	0.00015	0.00045	0.005	0	79.8	64.1	96.3	0	0		
Dibenzo(a,h)anthracene	0.00783	0.00006	0.00018	0.01	0	78.3	65.1	113	0	0		
Fluoranthene	0.00782	0.0003	0.00090	0.01	0	78.2	66.7	98.7	0	0		
Fluorene	0.00654	0.0001	0.00030	0.01	0	65.4	45.8	103	0	0		
Naphthalene	0.0307	0.001	0.00300	0.05	0	61.4	41.9	91.7	0	0		
Phenanthrene	0.00355	0.0002	0.00060	0.005	0	71	58.9	96.2	0	0		
Pyrene	0.0037	0.0001	0.00030	0.005	0	74	60.3	87.3	0	0		
Surr: Terphenyl-d14	0.0077	0	0	0.01	0	77	74.1	109	0	0		

Sample ID: **LCS-23714** SampType: **LCS** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/27/05** Run ID: **HPLC INST. C_050127A**
Client ID: **ZZZZZ** Batch ID: **23714** TestNo: **SW8310** Analysis Date: **1/27/05** SeqNo: **918143**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.0356	0.001	0.00300	0.05	0	71.2	48.9	94	0	0		
Anthracene	0.00413	0.0001	0.00030	0.005	0	82.6	68.9	102	0	0		
Benzo(a)anthracene	0.00412	0.00003	0.00009	0.005	0	82.4	66.3	95.6	0	0		
Benzo(a)pyrene	0.00423	0.00004	0.00012	0.005	0	84.6	62.3	102	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **LCS-23714** SampType: **LCS** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/27/05** Run ID: **HPLC INST. C_050127A**
Client ID: **ZZZZZ** Batch ID: **23714** TestNo: **SW8310** Analysis Date: **1/27/05** SeqNo: **918143**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	0.00778	0.00005	0.00015	0.01	0	77.8	66.9	98.1	0	0		
Benzo(k)fluoranthene	0.00401	0.00005	0.00015	0.005	0	80.2	66.3	102	0	0		
Chrysene	0.0039	0.00015	0.00045	0.005	0	78	64.1	96.3	0	0		
Dibenzo(a,h)anthracene	0.00749	0.00006	0.00018	0.01	0	74.9	65.1	113	0	0		
Fluoranthene	0.00785	0.0003	0.00090	0.01	0	78.5	66.7	98.7	0	0		
Fluorene	0.00667	0.0001	0.00030	0.01	0	66.7	45.8	103	0	0		
Indeno(1,2,3-cd)pyrene	0.0041	0.0001	0.00030	0.005	0	82	69.5	102	0	0		
Naphthalene	0.0339	0.001	0.00300	0.05	0	67.8	41.9	91.7	0	0		
Phenanthrene	0.004	0.0002	0.00060	0.005	0	80	58.9	96.2	0	0		
Pyrene	0.00357	0.0001	0.00030	0.005	0	71.4	60.3	87.3	0	0		
Surr: Terphenyl-d14	0.00776	0	0	0.01	0	77.6	74.1	109	0	0		

Sample ID: **LCSDUP-23659** SampType: **LCSD** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/25/05** Run ID: **HPLC INST. C_050125A**
Client ID: **ZZZZZ** Batch ID: **23659** TestNo: **SW8310** Analysis Date: **1/25/05** SeqNo: **915488**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.0302	0.001	0.00300	0.05	0	60.4	48.9	94	0.0318	5.16	21.9	
Anthracene	0.00377	0.0001	0.00030	0.005	0	75.4	68.9	102	0.00392	3.90	20	
Benzo(a)anthracene	0.00391	0.00003	0.00009	0.005	0	78.2	66.3	95.6	0.00384	1.81	18.8	
Benzo(a)pyrene	0.00409	0.00004	0.00012	0.005	0	81.8	62.3	102	0.00406	0.736	19.8	
Benzo(b)fluoranthene	0.00774	0.00005	0.00015	0.01	0	77.4	66.9	98.1	0.00764	1.30	19	
Benzo(k)fluoranthene	0.00404	0.00005	0.00015	0.005	0	80.8	66.3	102	0.00397	1.75	19.2	
Chrysene	0.00406	0.00015	0.00045	0.005	0	81.2	64.1	96.3	0.00399	1.74	18.2	
Dibenzo(a,h)anthracene	0.00792	0.00006	0.00018	0.01	0	79.2	65.1	113	0.00783	1.14	17.6	
Fluoranthene	0.00742	0.0003	0.00090	0.01	0	74.2	66.7	98.7	0.00782	5.25	18.1	
Fluorene	0.00584	0.0001	0.00030	0.01	0	58.4	45.8	103	0.00654	11.3	26.9	
Naphthalene	0.0273	0.001	0.00300	0.05	0	54.6	41.9	91.7	0.0307	11.7	30	
Phenanthrene	0.00348	0.0002	0.00060	0.005	0	69.6	58.9	96.2	0.00355	1.99	20	
Pyrene	0.00335	0.0001	0.00030	0.005	0	67	60.3	87.3	0.0037	9.92	18.9	
Surr: Terphenyl-d14	0.0077	0	0	0.01	0	77	74.1	109	0	0	20	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **LCSDUP-23714** SampType: **LCSD** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/27/05** Run ID: **HPLC INST. C_050127A**
Client ID: **ZZZZZ** Batch ID: **23714** TestNo: **SW8310** Analysis Date: **1/27/05** SeqNo: **918144**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.035	0.001	0.00300	0.05	0	70	48.9	94	0.0356	1.70	21.9	
Anthracene	0.00415	0.0001	0.00030	0.005	0	83	68.9	102	0.00413	0.483	20	
Benzo(a)anthracene	0.00422	0.00003	0.00009	0.005	0	84.4	66.3	95.6	0.00412	2.40	18.8	
Benzo(a)pyrene	0.00433	0.00004	0.00012	0.005	0	86.6	62.3	102	0.00423	2.34	19.8	
Benzo(b)fluoranthene	0.00812	0.00005	0.00015	0.01	0	81.2	66.9	98.1	0.00778	4.28	19	
Benzo(k)fluoranthene	0.00412	0.00005	0.00015	0.005	0	82.4	66.3	102	0.00401	2.71	19.2	
Chrysene	0.00407	0.00015	0.00045	0.005	0	81.4	64.1	96.3	0.0039	4.27	18.2	
Dibenzo(a,h)anthracene	0.00833	0.00006	0.00018	0.01	0	83.3	65.1	113	0.00749	10.6	17.6	
Fluoranthene	0.00821	0.0003	0.00090	0.01	0	82.1	66.7	98.7	0.00785	4.48	18.1	
Fluorene	0.00633	0.0001	0.00030	0.01	0	63.3	45.8	103	0.00667	5.23	26.9	
Indeno(1,2,3-cd)pyrene	0.00408	0.0001	0.00030	0.005	0	81.6	69.5	102	0.0041	0.489	19	
Naphthalene	0.0322	0.001	0.00300	0.05	0	64.4	41.9	91.7	0.0339	5.14	30	
Phenanthrene	0.0039	0.0002	0.00060	0.005	0	78	58.9	96.2	0.004	2.53	20	
Pyrene	0.00383	0.0001	0.00030	0.005	0	76.6	60.3	87.3	0.00357	7.03	18.9	
Surr: Terphenyl-d14	0.00837	0	0	0.01	0	83.7	74.1	109	0	0	20	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_DIOXANE_W

Sample ID: **MB-012405** SampType: **MBLK** TestCode: **SV_DIOXANE_W** Units: **mg/L** Prep Date: Run ID: **GC INST. I_050124A**
Client ID: **ZZZZZ** Batch ID: **R60318** TestNo: **SW8015** Analysis Date: **1/24/05** SeqNo: **915244**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.25	0.50									

Sample ID: **LCS-012405** SampType: **LCS** TestCode: **SV_DIOXANE_W** Units: **mg/L** Prep Date: Run ID: **GC INST. I_050124A**
Client ID: **ZZZZZ** Batch ID: **R60318** TestNo: **SW8015** Analysis Date: **1/24/05** SeqNo: **915245**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	46	0.25	0.50	50	0	92	80	120	0	0		

Sample ID: **05010552-005HMS** SampType: **MS** TestCode: **SV_DIOXANE_W** Units: **mg/L** Prep Date: Run ID: **GC INST. I_050124A**
Client ID: **HMW-25/050121** Batch ID: **R60318** TestNo: **SW8015** Analysis Date: **1/24/05** SeqNo: **915263**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	47	0.25	0.50	50	0	94	80	120	0	0		

Sample ID: **05010552-005HMSD** SampType: **MSD** TestCode: **SV_DIOXANE_W** Units: **mg/L** Prep Date: Run ID: **GC INST. I_050124A**
Client ID: **HMW-25/050121** Batch ID: **R60318** TestNo: **SW8015** Analysis Date: **1/24/05** SeqNo: **915264**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	46	0.25	0.50	50	0	92	80	120	47	2.15	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: **MBLK-A050126-1** SampType: **MBLK** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **1/26/05** Run ID: **5971 INST. A_050126A**
Client ID: **ZZZZZ** Batch ID: **23715** TestNo: **SW8260B** Analysis Date: **1/26/05** SeqNo: **917000**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1	5.0									
1,1-Dichloroethane	ND	1	5.0									
1,2-Dibromoethane	ND	1	5.0									
1,2-Dichlorobenzene	ND	1	5.0									
1,2-Dichloroethane	ND	1	5.0									
1,3-Dichlorobenzene	ND	1	5.0									
1,4-Dichlorobenzene	ND	1	5.0									
2-Butanone	ND	5	25.0									
Benzene	ND	0.5	2.0									
Carbon disulfide	ND	1	5.0									
Chlorobenzene	ND	1	5.0									
Chloroform	ND	1	5.0									
Ethylbenzene	ND	1	5.0									
Methyl tert-butyl ether	ND	0.5	2.0									
Styrene	ND	1	5.0									
Tetrachloroethene	ND	1	5.0									
Toluene	ND	1	5.0									
Trichloroethene	ND	1	5.0									
Xylenes, Total	ND	1	5.0									
Surr: 1,2-Dichloroethane-d4	47	0	0	50	0	94	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	48.4	0	0	50	0	96.8	81.1	113.3	0	0		
Surr: Dibromofluoromethane	49.6	0	0	50	0	99.2	88.9	121.2	0	0		
Surr: Toluene-d8	52	0	0	50	0	104	84.1	114.5	0	0		

Sample ID: **LCS-A050126-1** SampType: **LCS** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **1/26/05** Run ID: **5971 INST. A_050126A**
Client ID: **ZZZZZ** Batch ID: **23715** TestNo: **SW8260B** Analysis Date: **1/26/05** SeqNo: **916999**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	42.4	1	5.0	50	0	84.8	72.6	132	0	0		
1,2-Dibromoethane	52.3	1	5.0	50	0	104.6	70	130	0	0		
1,2-Dichlorobenzene	51.5	1	5.0	50	0	103	86.6	124	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: **LCS-A050126-1** SampType: **LCS** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **1/26/05** Run ID: **5971 INST. A_050126A**
Client ID: **ZZZZZ** Batch ID: **23715** TestNo: **SW8260B** Analysis Date: **1/26/05** SeqNo: **916999**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	49.4	1	5.0	50	0	98.8	83.5	128	0	0		
1,3-Dichlorobenzene	47.5	1	5.0	50	0	95	85.3	123	0	0		
1,4-Dichlorobenzene	47.3	1	5.0	50	0	94.6	87.7	122	0	0		
2-Butanone	41.1	5	25.0	50	0	82.2	72.8	129	0	0		
Benzene	46.5	0.5	2.0	50	0	93	77.4	120	0	0		
Chlorobenzene	47.6	1	5.0	50	0	95.2	87.2	117	0	0		
Chloroform	44.7	1	5.0	50	0	89.4	82.1	123	0	0		
Ethylbenzene	46.1	1	5.0	50	0	92.2	78.5	122	0	0		
Methyl tert-butyl ether	44.1	0.5	2.0	50	0	88.2	70	130	0	0		
Tetrachloroethene	35.5	1	5.0	50	0	71	66.7	117	0	0		
Toluene	46.3	1	5.0	50	0	92.6	81.6	118	0	0		
Trichloroethene	40.4	1	5.0	50	0	80.8	79.6	118	0	0		
Xylenes, Total	93.4	1	5.0	100	0	93.4	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	48.7	0	0	50	0	97.4	84.3	136	0	0		
Surr: 4-Bromofluorobenzene	49.3	0	0	50	0	98.6	81.1	113.3	0	0		
Surr: Dibromofluoromethane	49.9	0	0	50	0	99.8	88.9	121.2	0	0		
Surr: Toluene-d8	50.1	0	0	50	0	100.2	84.1	114.5	0	0		

Sample ID: **05010552-002IMS** SampType: **MS** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **1/26/05** Run ID: **5971 INST. A_050126A**
Client ID: **HMW-28/050121** Batch ID: **23715** TestNo: **SW8260B** Analysis Date: **1/26/05** SeqNo: **917005**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.9	0.5	2.0	56	0	90.9	70.8	122	0	0		
Chlorobenzene	53.2	1	5.0	56	0	95	85.6	111	0	0		
Ethylbenzene	52.8	1	5.0	56	0	94.3	81	113	0	0		
Toluene	56.4	1	5.0	56	0	100.7	77.2	117	0	0		
Trichloroethene	48.9	1	5.0	56	0	87.3	73.9	118	0	0		
Xylenes, Total	106	1	5.0	112	0	94.6	80.3	116	0	0		
Surr: 1,2-Dichloroethane-d4	48.1	0	0	50	0	96.2	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49.2	0	0	50	0	98.4	81.1	113.3	0	0		
Surr: Dibromofluoromethane	50.7	0	0	50	0	101.4	88.9	121.2	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010552
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: **05010552-002IMS** SampType: **MS** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **1/26/05** Run ID: **5971 INST. A_050126A**
Client ID: **HMW-28/050121** Batch ID: **23715** TestNo: **SW8260B** Analysis Date: **1/26/05** SeqNo: **917005**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	51.3	0	0	50	0	102.6	84.1	114.5	0	0		

Sample ID: **05010552-002IMSD** SampType: **MSD** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **1/26/05** Run ID: **5971 INST. A_050126A**
Client ID: **HMW-28/050121** Batch ID: **23715** TestNo: **SW8260B** Analysis Date: **1/26/05** SeqNo: **917006**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.7	0.5	2.0	56	0	88.8	70.8	122	50.9	2.39	15	
Chlorobenzene	53.3	1	5.0	56	0	95.2	85.6	111	53.2	0.188	15	
Ethylbenzene	53.3	1	5.0	56	0	95.2	81	113	52.8	0.943	15	
Toluene	56.7	1	5.0	56	0	101.2	77.2	117	56.4	0.531	15	
Trichloroethene	47.1	1	5.0	56	0	84.1	73.9	118	48.9	3.75	15	
Xylenes, Total	108	1	5.0	112	0	96.4	80.3	116	106	1.87	15	
Surr: 1,2-Dichloroethane-d4	47.2	0	0	50	0	94.4	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	50.1	0	0	50	0	100.2	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	50	0	0	50	0	100	88.9	121.2	0	0	0	
Surr: Toluene-d8	50.9	0	0	50	0	101.8	84.1	114.5	0	0	0	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

05010552

Clayton GROUP SERVICES

REQUEST FOR LABORATORY SERVICES

IMPORTANT
Date Results Requested:
Rush Charges Authorized? ☐ Yes ☐ No
☐ Phone or ☐ Fax Results

Page ____ of ____
Laboratory Project No.

REPORT RESULTS TO
Name: Ken Comike
Company: Clayton Group Services
Mailing Address: 3140 Finley Rd
City, State, Zip: Downers Grove IL 60515
Telephone No.: 630.795-3200 Fax No.: 630-795-1170
Client Job No.:
Dept.:

SEND INVOICE TO
Purchase Order No.:
Name: Clayton Group
Company: Attn: Ken
Dept.:
Address:
City, State, Zip:

Project ID: SENTINEL WELLS
15-03095.15-004 per Heidi Mendygral KAK 1/31/05

ANALYSIS REQUESTED

DATE SAMPLED	TIME SAMPLED	WELL/BORING NO. (SITE ID)	SAMPLE ID	MATRIX / MEDIA	Number of Containers	Skinner 1st	General # Chemistry						FOR LAB USE ONLY
1/21/05			DUP-001/050121	water		X	X						05010552-001
1/21/05	1430	HMW-28	HMW-28/050121	water		X	X						-002
1/21/05	1335	HMW-27	HMW-27/050121	water		X	X						-003
1/21/05	1133	HMW-26	HMW-26/050121	water		X	X						-004
1/21/05	937	HMW-25	HMW-25/050121	water		X	X						-005

CHAIN OF CUSTODY
Collected by: Bret Hoekman (Print)
Collector's Signature: [signature]
Relinquished by: Bret Hoekman Date/Time: 1/21/05 1712
Received by: [signature] Date/Time: 1/21/05 1712
Relinquished by: [signature] Date/Time:
Received by: Date/Time:
Method of Shipment:
Received at Lab by: Date/Time:
Authorized by: _____ Date: _____
(Client Signature Must Accompany Request)
Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain)
0.8°C real

received one total + dissolved container for metals analysis. HAB

HNO_3 added to 28; NaOH added to 27 + 26. HAB
Ø headspace

CHAIN OF CUSTODY

DISTRIBUTION:
White - Laboratory
Yellow - Clayton Copy

TEKLAB, INC

Sample Receipt Checklist

Client Name	CLAYTON GROUP	Date and Time Received:	1/21/05 5:12:00 PM
Work Order Number	05010552	Date Due:	1/28/05
QC Level	LVL3R+	Received by:	TAL

Checklist completed by Heather Barnes 1/24/05 (Signature / Date)

Reviewed by: SAO 1/24/05 (Initials / Date)

Matrix: Carrier name: Bret Hoekman

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shippping container/cooler?	☐	☐	☑
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☐	☑	
Container/Temp Blank temperature in compliance?	☑	☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? yes Checked by HAB

Any No and/or NA response must be detailed in the Case Narrative or on the COC.

Email PDF?	Yes ☑	No ☐	Completed:	Initials / Date
Email EDD?	Yes ☑	No ☐	Completed:	Initials / Date
Fax?	Yes ☐	No ☑	Completed:	Initials / Date

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: Per Heidi, containers for metals analysis with U+F are for total + dissolved metals - it is not marked on the chain of custody. SAO 1/24/05

05010552

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

February 04, 2005

Ken Comire
Clayton Group Services
3140 Finley Road
Downers Grove, IL 60515
TEL: (630) 795-3203
FAX: (630) 795-1130

ACCREDITED IN ACCORDANCE WITH nelac

NELAP Accredited #100226

RE: Sentinel Wells/ 15-03095-15.004 OrderNo. 05010564

Dear Ken Comire:

TEKLAB, INC received 3 samples on 1/24/05 10:20:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
LabOrder: 05010564
Report Date: February 04, 2005

REPORT CONTENTS

This reporting package includes the following:

Analysis Results (this document) ..... 12 *pages*

Chain of Custody ..... 1 *pages*

Associated Information ..... 4 *pages*

Sample Summary ..... 1 *pages*

Dates Report ..... 2 *pages*

QC Report ..... 41 *pages*

Sub Contracted Lab Report ..... NA *pages*

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
LabOrder: 05010564
Report Date: February 04, 2005

CASE NARRATIVE

Samples received did not meet hold time requirements for pH analysis. Continue with analysis per Ken Comire.

Additional nitric acid and sodium hydroxide preservative was needed to HMW-29 upon arrival at the laboratory.

MS/MSD for Hardness analyzed on workorder 05010560.
MS/MSD for Chloride analyzed on workorder 05010564.
MS/MSD for COD analyzed on workorder 05010562.
MS/MSD for V_8260S_W analyzed on workorder 05010562.

Autoanalyzer result was less than the lowest standard by Method SW846 9036. Sample required re-analysis using method SW846 9038 due to the low level result.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	***** - Value exceeds Maximum Contaminant Level	***DNI*** *Did Not Ignite*
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010564	**Client Sample ID:**	HMW-29/052101
Lab ID:	05010564-001	**Collection Date:**	1/21/05 5:10:00 PM
Report Date:	04-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
STANDARD METHODS 18TH ED. 2320 B									
Alkalinity, Total (as CaCO3)		NELAP	0		510	mg/L	1	2/1/05	DLY
STANDARD METHODS 18TH ED. 2340 C									
Hardness, as (CaCO3)		NELAP	5		570	mg/L	1	1/31/05	MLD
STANDARD METHODS 18TH ED. 2540 C (TOTAL)									
Total Dissolved Solids		NELAP	20		550	mg/L	1	1/27/05	JRS
STANDARD METHODS 18TH ED. 2540 D									
Total Suspended Solids		NELAP	6		91	mg/L	1	1/26/05	JRS
STANDARD METHODS 18TH ED. 4500-S D (TOTAL)									
Sulfide, Total - Colorimetric		NELAP	0.50		< 0.50	mg/L	10	1/28/05 9:25:00 AM	NNH
STANDARD METHODS 18TH ED. 5220 D (TOTAL)									
Chemical Oxygen Demand		NELAP	20		52	mg/L	1	1/28/05	NNH
SW-846 9012A (TOTAL)									
Cyanide		NELAP	0.050		< 0.050	mg/L	1	1/27/05	SMR
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)									
Barium		NELAP	0.0050		0.128	mg/L	1	2/1/05 10:23:13 AM	SAM
Beryllium		NELAP	0.0010	J	0.0005	mg/L	1	1/31/05 8:03:18 PM	SAM
Cadmium		NELAP	0.0020		< 0.0020	mg/L	1	1/31/05 8:03:18 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	2/1/05 10:23:13 AM	SAM
Cobalt		NELAP	0.0100	J	0.0048	mg/L	1	2/1/05 10:23:13 AM	SAM
Nickel		NELAP	0.0100	J	0.0048	mg/L	1	1/31/05 8:03:18 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	2/1/05 10:23:13 AM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/31/05 8:03:18 PM	SAM
Zinc		NELAP	0.0100		0.0325	mg/L	1	1/31/05 8:03:18 PM	SAM
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium		NELAP	0.0050		0.146	mg/L	1	2/1/05 5:01:02 PM	SAM
Beryllium		NELAP	0.0010	J	0.0005	mg/L	1	1/31/05 6:49:54 PM	SAM
Cadmium		NELAP	0.0020	J	0.0003	mg/L	1	1/31/05 6:49:54 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/31/05 6:49:54 PM	SAM
Cobalt		NELAP	0.0100		< 0.0100	mg/L	1	2/1/05 5:01:02 PM	SAM
Nickel		NELAP	0.0100	J	0.0098	mg/L	1	1/31/05 6:49:54 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/31/05 6:49:54 PM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/31/05 6:49:54 PM	SAM
Zinc		NELAP	0.0100		0.0523	mg/L	1	1/31/05 6:49:54 PM	SAM
SW-846 3005A, METALS BY GFAA (DISSOLVED)									
Antimony	7041	NELAP	0.0050		< 0.0050	mg/L	1	2/2/05	JMF
Arsenic	7060A	NELAP	0.0030	J	0.0014	mg/L	1	2/3/05	SRS

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010564	**Client Sample ID:**	HMW-29/052101
Lab ID:	05010564-001	**Collection Date:**	1/21/05 5:10:00 PM
Report Date:	04-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Lead	7421	NELAP	0.0020		**< 0.0020**	mg/L	1	2/1/05	SRS
Selenium	7740	NELAP	0.0060		**< 0.0060**	mg/L	1	1/31/05	JMF
SW-846 3020A. METALS BY GFAA (TOTAL)									
Antimony	7041	NELAP	0.0050		**< 0.0050**	mg/L	1	2/2/05	JMF
Arsenic	7060A	NELAP	0.0030	J	**0.0018**	mg/L	1	1/30/05	SRS
Lead	7421	NELAP	0.0020		**0.0028**	mg/L	1	2/1/05	SRS
Selenium	7740	NELAP	0.0060		**< 0.0060**	mg/L	1	2/3/05	JMF
SW-846 3510C. 8270C. SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
2,4-Dimethylphenol		NELAP	0.010		**ND**	mg/L	1	1/28/05 3:58:00 AM	DMH
2,4-Dinitrophenol		NELAP	0.020		**ND**	mg/L	1	1/28/05 3:58:00 AM	DMH
4-Nitrophenol		NELAP	0.020		**ND**	mg/L	1	1/28/05 3:58:00 AM	DMH
Bis(2-ethylhexyl)phthalate		NELAP	0.006		**ND**	mg/L	1	1/28/05 3:58:00 AM	DMH
Di-n-butyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/28/05 3:58:00 AM	DMH
Diethyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/28/05 3:58:00 AM	DMH
Dimethyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/28/05 3:58:00 AM	DMH
m,p-Cresol		NELAP	0.010		**ND**	mg/L	1	1/28/05 3:58:00 AM	DMH
o-Cresol		NELAP	0.010		**ND**	mg/L	1	1/28/05 3:58:00 AM	DMH
Phenol		NELAP	0.005		**ND**	mg/L	1	1/28/05 3:58:00 AM	DMH
Pyridine		NELAP	0.020		**ND**	mg/L	1	1/28/05 3:58:00 AM	DMH
Quinoline			0.005		**ND**	mg/L	1	1/28/05 4:02:00 PM	DMH
Surr: 2,4,6-Tribromophenol			15.5-156		**70.0**	%REC	1	1/28/05 3:58:00 AM	DMH
Surr: 2-Fluorobiphenyl			41.1-130		**76.0**	%REC	1	1/28/05 3:58:00 AM	DMH
Surr: 2-Fluorophenol			7.57-80		**43.0**	%REC	1	1/28/05 3:58:00 AM	DMH
Surr: Nitrobenzene-d5			28.2-128		**74.0**	%REC	1	1/28/05 3:58:00 AM	DMH
Surr: p-Terphenyl-d14			26.3-121		**56.0**	%REC	1	1/28/05 3:58:00 AM	DMH
Surr: Phenol-d5			7.76-55.5		**32.0**	%REC	1	1/28/05 3:58:00 AM	DMH
SW-846 3510C. 8310. POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC									
Acenaphthene		NELAP	0.00300		**ND**	mg/L	1	1/28/05	TDN
Anthracene		NELAP	0.00030		**ND**	mg/L	1	1/28/05	TDN
Benzo(a)anthracene		NELAP	0.00009		**ND**	mg/L	1	1/28/05	TDN
Benzo(a)pyrene		NELAP	0.00012		**ND**	mg/L	1	1/28/05	TDN
Benzo(b)fluoranthene		NELAP	0.00015		**ND**	mg/L	1	1/28/05	TDN
Benzo(k)fluoranthene		NELAP	0.00015		**ND**	mg/L	1	1/28/05	TDN
Chrysene		NELAP	0.00045		**ND**	mg/L	1	1/28/05	TDN
Dibenzo(a,h)anthracene		NELAP	0.00018		**ND**	mg/L	1	1/28/05	TDN
Fluoranthene		NELAP	0.00090		**ND**	mg/L	1	1/28/05	TDN
Fluorene		NELAP	0.00030		**ND**	mg/L	1	1/28/05	TDN

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010564	**Client Sample ID:**	HMW-29/052101
Lab ID:	05010564-001	**Collection Date:**	1/21/05 5:10:00 PM
Report Date:	04-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	1/28/05	TDN
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	1/28/05	TDN
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	1/28/05	TDN
Pyrene	NELAP	0.00030		**ND**	mg/L	1	1/28/05	TDN
Surr: Terphenyl-d14		62.5-135		**84.2**	%REC	1	1/28/05	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
1,1-Dichloroethane	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
1,2-Dibromoethane	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
1,2-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
1,2-Dichloroethane	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
1,3-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
1,4-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
2-Butanone	NELAP	25.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
Benzene	NELAP	2.0	J	**0.6**	µg/L	1	1/30/05 8:59:00 PM	GEK
Carbon disulfide	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
Chlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
Chloroform	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
Methyl tert-butyl ether	NELAP	2.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
Styrene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
Tetrachloroethene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
Trichloroethene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:59:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**89.8**	%REC	1	1/30/05 8:59:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**96.8**	%REC	1	1/30/05 8:59:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**94.2**	%REC	1	1/30/05 8:59:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**98.6**	%REC	1	1/30/05 8:59:00 PM	GEK
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	1/29/05	JMW
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	1/29/05	JMW
SW-846 8015B MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane	NELAP	0.50		**ND**	mg/L	1	1/26/05 12:41:00 PM	MAM
SW-846 9036 (TOTAL)								
Sulfate	NELAP	40		**99**	mg/L	1	1/31/05	JSR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010564	**Client Sample ID:**	HMW-29/052101
Lab ID:	05010564-001	**Collection Date:**	1/21/05 5:10:00 PM
Report Date:	04-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 9040B								
pH	NELAP	1.00	H	**6.67**		1	1/24/05 1:12:00 PM	EAW
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		**15**	mg/L	1	1/31/05	JSR

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010564	**Client Sample ID:**	EQB-01/052101
Lab ID:	05010564-002	**Collection Date:**	1/21/05 6:10:00 PM
Report Date:	04-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
STANDARD METHODS 18TH ED. 2320 B									
Alkalinity, Total (as CaCO3)		NELAP	0		39	mg/L	1	2/1/05	DLY
STANDARD METHODS 18TH ED. 2340 C									
Hardness, as (CaCO3)		NELAP	5		82	mg/L	1	1/31/05	MLD
STANDARD METHODS 18TH ED. 2540 C (TOTAL)									
Total Dissolved Solids		NELAP	20		62	mg/L	1	1/27/05	JRS
STANDARD METHODS 18TH ED. 2540 D									
Total Suspended Solids		NELAP	6	J	5	mg/L	1	1/26/05	JRS
STANDARD METHODS 18TH ED. 4500-S D (TOTAL)									
Sulfide, Total - Colorimetric		NELAP	0.05		< 0.05	mg/L	1	1/27/05 5:15:00 PM	NNH
STANDARD METHODS 18TH ED. 5220 D (TOTAL)									
Chemical Oxygen Demand		NELAP	20	J	7	mg/L	1	1/28/05	NNH
SW-846 9012A (TOTAL)									
Cyanide		NELAP	0.050		< 0.050	mg/L	1	1/27/05	SMR
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)									
Barium		NELAP	0.0050		0.0328	mg/L	1	2/1/05 11:50:27 AM	SAM
Beryllium		NELAP	0.0010	J	0.0004	mg/L	1	1/31/05 9:28:15 PM	SAM
Cadmium		NELAP	0.0020		< 0.0020	mg/L	1	1/31/05 9:28:15 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	2/1/05 11:50:27 AM	SAM
Cobalt		NELAP	0.0100	J	0.0032	mg/L	1	2/1/05 11:50:27 AM	SAM
Nickel		NELAP	0.0100		< 0.0100	mg/L	1	1/31/05 9:28:15 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	2/1/05 11:50:27 AM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/31/05 9:28:15 PM	SAM
Zinc		NELAP	0.0100		0.0286	mg/L	1	1/31/05 9:28:15 PM	SAM
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium		NELAP	0.0050		0.0299	mg/L	1	2/1/05 5:06:24 PM	SAM
Beryllium		NELAP	0.0010		< 0.0010	mg/L	1	1/31/05 6:55:17 PM	SAM
Cadmium		NELAP	0.0020		< 0.0020	mg/L	1	1/31/05 6:55:17 PM	SAM
Chromium		NELAP	0.0100		< 0.0100	mg/L	1	1/31/05 6:55:17 PM	SAM
Cobalt		NELAP	0.0100		< 0.0100	mg/L	1	2/1/05 5:06:24 PM	SAM
Nickel		NELAP	0.0100		< 0.0100	mg/L	1	1/31/05 6:55:17 PM	SAM
Silver		NELAP	0.0100		< 0.0100	mg/L	1	1/31/05 6:55:17 PM	SAM
Vanadium		NELAP	0.0100		< 0.0100	mg/L	1	1/31/05 6:55:17 PM	SAM
Zinc		NELAP	0.0100		0.0283	mg/L	1	1/31/05 6:55:17 PM	SAM
SW-846 3005A, METALS BY GFAA (DISSOLVED)									
Antimony	7041	NELAP	0.0050		< 0.0050	mg/L	1	2/2/05	JMF
Arsenic	7060A	NELAP	0.0030		< 0.0030	mg/L	1	2/2/05	SRS

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010564	**Client Sample ID:**	EQB-01/052101
Lab ID:	05010564-002	**Collection Date:**	1/21/05 6:10:00 PM
Report Date:	04-Feb-05	**Matrix:**	GROUNDWATER

Analyses		Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Lead	7421	NELAP	0.0020		**< 0.0020**	mg/L	1	2/1/05	SRS
Selenium	7740	NELAP	0.0060		**< 0.0060**	mg/L	1	1/31/05	JMF
SW-846 3020A, METALS BY GFAA (TOTAL)									
Antimony	7041	NELAP	0.0050		**< 0.0050**	mg/L	1	2/2/05	JMF
Arsenic	7060A	NELAP	0.0030		**< 0.0030**	mg/L	1	1/30/05	SRS
Lead	7421	NELAP	0.0020	J	**0.0012**	mg/L	1	2/1/05	SRS
Selenium	7740	NELAP	0.0060		**< 0.0060**	mg/L	1	2/3/05	JMF
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS									
2,4-Dimethylphenol		NELAP	0.010		**ND**	mg/L	1	1/28/05 1:45:00 AM	DMH
2,4-Dinitrophenol		NELAP	0.020		**ND**	mg/L	1	1/28/05 1:45:00 AM	DMH
4-Nitrophenol		NELAP	0.020		**ND**	mg/L	1	1/28/05 1:45:00 AM	DMH
Bis(2-ethylhexyl)phthalate		NELAP	0.006		**ND**	mg/L	1	1/28/05 1:45:00 AM	DMH
Di-n-butyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/28/05 1:45:00 AM	DMH
Diethyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/28/05 1:45:00 AM	DMH
Dimethyl phthalate		NELAP	0.010		**ND**	mg/L	1	1/28/05 1:45:00 AM	DMH
m,p-Cresol		NELAP	0.010		**ND**	mg/L	1	1/28/05 1:45:00 AM	DMH
o-Cresol		NELAP	0.010		**ND**	mg/L	1	1/28/05 1:45:00 AM	DMH
Phenol		NELAP	0.005		**ND**	mg/L	1	1/28/05 1:45:00 AM	DMH
Pyridine		NELAP	0.020		**ND**	mg/L	1	1/28/05 1:45:00 AM	DMH
Quinoline			0.005		**ND**	mg/L	1	1/28/05 4:36:00 PM	DMH
Surr: 2,4,6-Tribromophenol			15.5-156		**66.0**	%REC	1	1/28/05 1:45:00 AM	DMH
Surr: 2-Fluorobiphenyl			41.1-130		**72.0**	%REC	1	1/28/05 1:45:00 AM	DMH
Surr: 2-Fluorophenol			7.57-80		**41.0**	%REC	1	1/28/05 1:45:00 AM	DMH
Surr: Nitrobenzene-d5			28.2-128		**64.0**	%REC	1	1/28/05 1:45:00 AM	DMH
Surr: p-Terphenyl-d14			26.3-121		**58.0**	%REC	1	1/28/05 1:45:00 AM	DMH
Surr: Phenol-d5			7.76-55.5		**31.0**	%REC	1	1/28/05 1:45:00 AM	DMH
SW-846 3510C, 8310, POLYNUCLEAR AROMATIC HYDROCARBONS BY HPLC									
Acenaphthene		NELAP	0.00300		**ND**	mg/L	1	1/28/05	TDN
Anthracene		NELAP	0.00030		**ND**	mg/L	1	1/28/05	TDN
Benzo(a)anthracene		NELAP	0.00009		**ND**	mg/L	1	1/28/05	TDN
Benzo(a)pyrene		NELAP	0.00012		**ND**	mg/L	1	1/28/05	TDN
Benzo(b)fluoranthene		NELAP	0.00015		**ND**	mg/L	1	1/28/05	TDN
Benzo(k)fluoranthene		NELAP	0.00015		**ND**	mg/L	1	1/28/05	TDN
Chrysene		NELAP	0.00045		**ND**	mg/L	1	1/28/05	TDN
Dibenzo(a,h)anthracene		NELAP	0.00018		**ND**	mg/L	1	1/28/05	TDN
Fluoranthene		NELAP	0.00090		**ND**	mg/L	1	1/28/05	TDN
Fluorene		NELAP	0.00030		**ND**	mg/L	1	1/28/05	TDN

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010564	**Client Sample ID:**	EQB-01/052101
Lab ID:	05010564-002	**Collection Date:**	1/21/05 6:10:00 PM
Report Date:	04-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	NELAP	0.00030		**ND**	mg/L	1	1/28/05	TDN
Naphthalene	NELAP	0.00300		**ND**	mg/L	1	1/28/05	TDN
Phenanthrene	NELAP	0.00060		**ND**	mg/L	1	1/28/05	TDN
Pyrene	NELAP	0.00030		**ND**	mg/L	1	1/28/05	TDN
Surr: Terphenyl-d14		62.5-135		**65.8**	%REC	1	1/28/05	TDN
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
1,1-Dichloroethane	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
1,2-Dibromoethane	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
1,2-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
1,2-Dichloroethane	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
1,3-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
1,4-Dichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
2-Butanone	NELAP	25.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
Benzene	NELAP	2.0	J	**0.7**	µg/L	1	1/30/05 8:28:00 PM	GEK
Carbon disulfide	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
Chlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
Chloroform	NELAP	5.0	J	**3.3**	µg/L	1	1/30/05 8:28:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
Methyl tert-butyl ether	NELAP	2.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
Styrene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
Tetrachloroethene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
Trichloroethene	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	1/30/05 8:28:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**88.2**	%REC	1	1/30/05 8:28:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**97.4**	%REC	1	1/30/05 8:28:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**91.8**	%REC	1	1/30/05 8:28:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**98.6**	%REC	1	1/30/05 8:28:00 PM	GEK
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	1/29/05	JMW
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020	J	**0.00007**	mg/L	1	1/29/05	JMW
SW-846 8015B MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane	NELAP	0.50		**ND**	mg/L	1	1/26/05 12:50:00 PM	MAM
SW-846 9038 (TOTAL)								
Sulfate, Turbidimetric	NELAP	10		**42**	mg/L	2	2/2/05	SMR

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010564	**Client Sample ID:**	EQB-01/052101
Lab ID:	05010564-002	**Collection Date:**	1/21/05 6:10:00 PM
Report Date:	04-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 9040B								
pH	NELAP	1.00	H	7.48		1	1/24/05 1:14:00 PM	EAW
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		23	mg/L	1	1/31/05	JSR

Sample Narrative

SW-846 9038 (Total)

MS Insufficient sample to run MSD. Insufficient sample to reanalyze MS.

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Sentinel Wells/ 15-03095-15.004
WorkOrder:	05010564	**Client Sample ID:**	TB-01/052101
Lab ID:	05010564-003	**Collection Date:**	1/21/05
Report Date:	04-Feb-05	**Matrix:**	TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
2-Butanone	NELAP	25.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Benzene	NELAP	2.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Chloroform	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Styrene	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Trichloroethene	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	1/30/05 12:12:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		94.8	%REC	1	1/30/05 12:12:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		96.4	%REC	1	1/30/05 12:12:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		101	%REC	1	1/30/05 12:12:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		101	%REC	1	1/30/05 12:12:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

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WORK ORDER SAMPLE SUMMARY

Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
Lab Order: 05010564
Date Received: 1/24/05

Date: *04-Feb-05*

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
05010564-001A	HMW-29/052101		1/21/05 5:10:00 PM
05010564-001B	HMW-29/052101		1/21/05 5:10:00 PM
05010564-001C	HMW-29/052101		1/21/05 5:10:00 PM
05010564-001D	HMW-29/052101		1/21/05 5:10:00 PM
05010564-001E	HMW-29/052101		1/21/05 5:10:00 PM
05010564-001F	HMW-29/052101		1/21/05 5:10:00 PM
05010564-001G	HMW-29/052101		1/21/05 5:10:00 PM
05010564-001H	HMW-29/052101		1/21/05 5:10:00 PM
05010564-001I	HMW-29/052101		1/21/05 5:10:00 PM
05010564-002A	EQB-01/052101		1/21/05 6:10:00 PM
05010564-002B	EQB-01/052101		1/21/05 6:10:00 PM
05010564-002C	EQB-01/052101		1/21/05 6:10:00 PM
05010564-002D	EQB-01/052101		1/21/05 6:10:00 PM
05010564-002E	EQB-01/052101		1/21/05 6:10:00 PM
05010564-002F	EQB-01/052101		1/21/05 6:10:00 PM
05010564-002G	EQB-01/052101		1/21/05 6:10:00 PM
05010564-002H	EQB-01/052101		1/21/05 6:10:00 PM
05010564-002I	EQB-01/052101		1/21/05 6:10:00 PM
05010564-003A	TB-01/052101		1/21/05

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
Lab Order: 05010564
Date Received: 1/24/05 10:20:00 AM

DATES REPORT

Date: *04-Feb-05*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
05010564-001A	HMW-29/052101	1/21/05	Groundwater	BNAs, Aqueous, by GC/MS		1/26/05	1/28/05
				BNAs, Aqueous, by GC/MS		1/26/05	1/28/05
				PNAs, Aqueous, by HPLC		1/27/05	1/28/05
05010564-001B				Alkalinity, Total (as CaCO3), Aqueous			2/1/05
				Chloride, Aqueous (Total)			1/31/05
				Hardness, (as CaCO3), Aqueous			1/31/05
				pH, Aqueous			1/24/05
				Sulfate, Aqueous (Total)			1/31/05
				Total Dissoved Solids, Aqueous			1/27/05
				Total Suspended solids, Aqueous			1/26/05
05010564-001C				Mercury, Aqueous, (Total)		1/28/05	1/29/05
				Metals, Aqueous, by GFAA (Total)		1/27/05	2/3/05
				Metals, Aqueous, by GFAA (Total)		1/27/05	1/30/05
				Metals, Aqueous, by GFAA (Total)		1/27/05	2/1/05
				Metals, Aqueous, by GFAA (Total)		1/27/05	2/2/05
				Metals, Aqueous, by ICP (Total)		1/25/05	1/31/05
				Metals, Aqueous, by ICP (Total)		1/25/05	2/1/05
05010564-001D				Mercury, Aqueous,(Dissolved)		1/28/05	1/29/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/31/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	2/1/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	2/2/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	2/3/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	1/31/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	2/1/05
05010564-001E				Cyanide, Aqueous (Total)			1/27/05
05010564-001F				Sulfide, Colorimetric, Aqueous (Total)			1/28/05
05010564-001G				COD, Aqueous (Total)			1/28/05
05010564-001H				1,4-Dioxane, Aqueous, by GC/FID			1/26/05
05010564-001I				Volatile Organics, Aqueous, by GC/MS		1/30/05	1/30/05
05010564-002A	EQB-01/052101			BNAs, Aqueous, by GC/MS		1/26/05	1/28/05
				BNAs, Aqueous, by GC/MS		1/26/05	1/28/05
				PNAs, Aqueous, by HPLC		1/27/05	1/28/05
05010564-002B				Alkalinity, Total (as CaCO3), Aqueous			2/1/05
				Chloride, Aqueous (Total)			1/31/05
				Hardness, (as CaCO3), Aqueous			1/31/05
				pH, Aqueous			1/24/05

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TEL: 618-344-1004
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Client: Clayton Group Services
Project: Sentinel Wells/ 15-03095-15.004
Lab Order: 05010564
Date Received: 1/24/05 10:20:00 AM

DATES REPORT

Date: *04-Feb-05*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
05010564-002B	EQB-01/052101	1/21/05	Groundwater	Sulfate, Turbidimetric, Aqueous (Total)			2/2/05
				Total Dissoved Solids, Aqueous			1/27/05
				Total Suspended solids, Aqueous			1/26/05
05010564-002C				Mercury, Aqueous, (Total)		1/28/05	1/29/05
				Metals, Aqueous, by GFAA (Total)		1/27/05	1/30/05
				Metals, Aqueous, by GFAA (Total)		1/27/05	2/1/05
				Metals, Aqueous, by GFAA (Total)		1/27/05	2/2/05
				Metals, Aqueous, by GFAA (Total)		1/27/05	2/3/05
				Metals, Aqueous, by ICP (Total)		1/25/05	1/31/05
				Metals, Aqueous, by ICP (Total)		1/25/05	2/1/05
05010564-002D				Mercury, Aqueous,(Dissolved)		1/28/05	1/29/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	1/31/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	2/1/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	2/2/05
				Metals, Aqueous, by GFAA (Dissolved)		1/26/05	2/2/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	1/31/05
				Metals, Aqueous, by ICP (Dissolved)		1/26/05	2/1/05
05010564-002E				Cyanide, Aqueous (Total)			1/27/05
05010564-002F				Sulfide, Colorimetric, Aqueous (Total)			1/27/05
05010564-002G				COD, Aqueous (Total)			1/28/05
05010564-002H				1,4-Dioxane, Aqueous, by GC/FID			1/26/05
05010564-002I				Volatile Organics, Aqueous, by GC/MS		1/30/05	1/30/05
05010564-003A	TB-01/052101		Trip Blank	Volatile Organics, Aqueous, by GC/MS		1/30/05	1/30/05

TEKLAB, INC

Date: *04-Feb-05*

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: A_CHLORIDE_S_AT

Sample ID: **MB-R60648** SampType: **MBLK** TestCode: **A_CHLORIDE_S_** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 2_050**
Client ID: **ZZZZZ** Batch ID: **R60648** TestNo: **SW9251** Analysis Date: **1/31/05** SeqNo: **921918**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	< 1	0.5	1									

Sample ID: **LCS-R60648** SampType: **LCS** TestCode: **A_CHLORIDE_S_** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 2_050**
Client ID: **ZZZZZ** Batch ID: **R60648** TestNo: **SW9251** Analysis Date: **1/31/05** SeqNo: **921917**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	42	0.5	1	40	0	105	90	110	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: A_SO4_S_AT

Sample ID: **MB-R60646** SampType: **MBLK** TestCode: **A_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 3_050**
Client ID: **ZZZZZ** Batch ID: **R60646** TestNo: **SW9036** Analysis Date: **1/31/05** SeqNo: **921824**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 40	40	40									

Sample ID: **LCS-R60646** SampType: **LCS** TestCode: **A_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 3_050**
Client ID: **ZZZZZ** Batch ID: **R60646** TestNo: **SW9036** Analysis Date: **1/31/05** SeqNo: **921823**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	279	20	40	300	0	93	90	110	0	0		

Sample ID: **05010564-002BMS** SampType: **MS** TestCode: **A_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 3_050**
Client ID: **EQB-01/052101** Batch ID: **R60646** TestNo: **SW9036** Analysis Date: **1/31/05** SeqNo: **923952**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	311	20	40	300	0	103.7	85	115	0	0		

Sample ID: **05010564-002BMSD** SampType: **MSD** TestCode: **A_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 3_050**
Client ID: **EQB-01/052101** Batch ID: **R60646** TestNo: **SW9036** Analysis Date: **1/31/05** SeqNo: **923953**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	314	20	40	300	0	104.7	85	115	311	0.960	10	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: A_TCN_S_AT

Sample ID: **LCSQC** SampType: **LCSQC** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **ZZZZZ** Batch ID: **R60515** TestNo: **SW9012A** Analysis Date: **1/27/05** SeqNo: **919102**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.079	0.0026	0.007	0.1	0	79	70	100	0	0		

Sample ID: **MB-R60515** SampType: **MBLK** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **ZZZZZ** Batch ID: **R60515** TestNo: **SW9012A** Analysis Date: **1/27/05** SeqNo: **919049**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	< 0.007	0.0026	0.007									

Sample ID: **LCS-R60515** SampType: **LCS** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **ZZZZZ** Batch ID: **R60515** TestNo: **SW9012A** Analysis Date: **1/27/05** SeqNo: **919050**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.1	0.0026	0.007	0.1	0	100	85	115	0	0		

Sample ID: **05010564-001E MS** SampType: **MS** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **HMW-29/052101** Batch ID: **R60515** TestNo: **SW9012A** Analysis Date: **1/27/05** SeqNo: **919068**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.096	0.0026	0.007	0.1	0	96	75	125	0	0		

Sample ID: **05010564-001E MSD** SampType: **MSD** TestCode: **A_TCN_S_AT** Units: **mg/L** Prep Date: Run ID: **AUTOANALYZER 1_050**
Client ID: **HMW-29/052101** Batch ID: **R60515** TestNo: **SW9012A** Analysis Date: **1/27/05** SeqNo: **919069**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.1	0.0026	0.007	0.1	0	100	75	125	0.096	4.09	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_ALK_M_AT

Sample ID: **MB-R60600** SampType: **MBLK** TestCode: **I_ALK_M_AT** Units: **mg/L** Prep Date: Run ID: **PH METER- ING._05020**
Client ID: **ZZZZZ** Batch ID: **R60600** TestNo: **M2320 B (T)** Analysis Date: **2/1/05** SeqNo: **920928**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (as CaCO3)	< 0	0	0									

Sample ID: **LCS-R60600** SampType: **LCS** TestCode: **I_ALK_M_AT** Units: **mg/L** Prep Date: Run ID: **PH METER- ING._05020**
Client ID: **ZZZZZ** Batch ID: **R60600** TestNo: **M2320 B (T)** Analysis Date: **2/1/05** SeqNo: **920929**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (as CaCO3)	238	0	0	239	0	99.6	90	110	0	0		

Sample ID: **05010564-001B MS** SampType: **MS** TestCode: **I_ALK_M_AT** Units: **mg/L** Prep Date: Run ID: **PH METER- ING._05020**
Client ID: **HMW-29/052101** Batch ID: **R60600** TestNo: **M2320 B (T)** Analysis Date: **2/1/05** SeqNo: **921007**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (as CaCO3)	608	0	0	96	510	102.1	85	115	0	0		

Sample ID: **05010564-001B MSD** SampType: **MSD** TestCode: **I_ALK_M_AT** Units: **mg/L** Prep Date: Run ID: **PH METER- ING._05020**
Client ID: **HMW-29/052101** Batch ID: **R60600** TestNo: **M2320 B (T)** Analysis Date: **2/1/05** SeqNo: **921008**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (as CaCO3)	612	0	0	96	510	106.2	85	115	608	0.656	10	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_COD_M_AT

Sample ID: **MB-R60565** SampType: **MBLK** TestCode: **I_COD_M_AT** Units: **mg/L** Prep Date: Run ID: **DR2010_050128E**
Client ID: **ZZZZZ** Batch ID: **R60565** TestNo: **M5220 D** Analysis Date: **1/28/05** SeqNo: **920131**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	< 20	7.3	20									

Sample ID: **LCS-R60565** SampType: **LCS** TestCode: **I_COD_M_AT** Units: **mg/L** Prep Date: Run ID: **DR2010_050128E**
Client ID: **ZZZZZ** Batch ID: **R60565** TestNo: **M5220 D** Analysis Date: **1/28/05** SeqNo: **920155**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	62	7.3	20	74	0	83.8	74	118	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_HARD_M_AT

Sample ID: **MB-R60561** SampType: **MBLK** TestCode: **I_HARD_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050131A**
Client ID: **ZZZZZ** Batch ID: **R60561** TestNo: **M2340C** Analysis Date: **1/31/05** SeqNo: **920062**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness, as (CaCO3)	< 5	3	5									

Sample ID: **LCS-R60561** SampType: **LCS** TestCode: **I_HARD_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050131A**
Client ID: **ZZZZZ** Batch ID: **R60561** TestNo: **M2340C** Analysis Date: **1/31/05** SeqNo: **920063**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness, as (CaCO3)	1020	3	5	1000	0	102	90	110	0	0		

Sample ID: **05010564-002BMS** SampType: **MS** TestCode: **I_HARD_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050131A**
Client ID: **EQB-01/052101** Batch ID: **R60561** TestNo: **M2340C** Analysis Date: **1/31/05** SeqNo: **920088**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness, as (CaCO3)	120	3	5	40	82	95	85	115	0	0		

Sample ID: **05010564-002BMSD** SampType: **MSD** TestCode: **I_HARD_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050131A**
Client ID: **EQB-01/052101** Batch ID: **R60561** TestNo: **M2340C** Analysis Date: **1/31/05** SeqNo: **920089**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hardness, as (CaCO3)	122	3	5	40	82	100	85	115	120	1.65	10	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_SO4_S_AT

Sample ID: **MB-R60731** SampType: **MBLK** TestCode: **I_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **DR2000_050202C**
Client ID: **ZZZZZ** Batch ID: **R60731** TestNo: **SW9038** Analysis Date: **2/2/05** SeqNo: **923492**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	< 5	1	5									

Sample ID: **LCS-R60731** SampType: **LCS** TestCode: **I_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **DR2000_050202C**
Client ID: **ZZZZZ** Batch ID: **R60731** TestNo: **SW9038** Analysis Date: **2/2/05** SeqNo: **923493**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	22	1	5	20	0	110	90	110	0	0		

Sample ID: **05010564-002BMS** SampType: **MS** TestCode: **I_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **DR2000_050202C**
Client ID: **EQB-01/052101** Batch ID: **R60731** TestNo: **SW9038** Analysis Date: **2/2/05** SeqNo: **923517**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	72	2	10	40	42	75	85	115	0	0		S

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_SUL_M_AT

Sample ID: MB-R60528	SampType: MBLK	TestCode: I_SUL_M_AT	Units: mg/L	Prep Date:	Run ID: DR2010_050127E
Client ID: ZZZZZ	Batch ID: R60528	TestNo: M4500-S D		Analysis Date: 1/27/05	SeqNo: 919271

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	< 0.05	0.013	0.05									

Sample ID: MB-R60531	SampType: MBLK	TestCode: I_SUL_M_AT	Units: mg/L	Prep Date:	Run ID: DR2010_050128B
Client ID: ZZZZZ	Batch ID: R60531	TestNo: M4500-S D		Analysis Date: 1/28/05	SeqNo: 919446

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	< 0.05	0.013	0.05									

Sample ID: LCS-R60528	SampType: LCS	TestCode: I_SUL_M_AT	Units: mg/L	Prep Date:	Run ID: DR2010_050127E
Client ID: ZZZZZ	Batch ID: R60528	TestNo: M4500-S D		Analysis Date: 1/27/05	SeqNo: 919275

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	0.62	0.013	0.05	0.67	0	92.5	85	115	0	0		

Sample ID: LCS-R60531	SampType: LCS	TestCode: I_SUL_M_AT	Units: mg/L	Prep Date:	Run ID: DR2010_050128B
Client ID: ZZZZZ	Batch ID: R60531	TestNo: M4500-S D		Analysis Date: 1/28/05	SeqNo: 919447

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	0.64	0.013	0.05	0.67	0	95.5	85	115	0	0		

Sample ID: 05010564-002FMS	SampType: MS	TestCode: I_SUL_M_AT	Units: mg/L	Prep Date:	Run ID: DR2010_050127E
Client ID: EQB-01/052101	Batch ID: R60528	TestNo: M4500-S D		Analysis Date: 1/27/05	SeqNo: 919420

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	0.66	0.013	0.05	0.67	0	98.5	80	120	0	0		

Sample ID: 05010564-001FMS	SampType: MS	TestCode: I_SUL_M_AT	Units: mg/L	Prep Date:	Run ID: DR2010_050128B
Client ID: HMW-29/052101	Batch ID: R60531	TestNo: M4500-S D		Analysis Date: 1/28/05	SeqNo: 919466

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_SUL_M_AT

Sample ID: **05010564-001FMS** SampType: **MS** TestCode: **I_SUL_M_AT** Units: **mg/L** Prep Date: Run ID: **DR2010_050128B**
Client ID: **HMW-29/052101** Batch ID: **R60531** TestNo: **M4500-S D** Analysis Date: **1/28/05** SeqNo: **919466**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	6.1	0.13	0.50	6.7	0	91	80	120	0	0		

Sample ID: **05010564-002FMSD** SampType: **MSD** TestCode: **I_SUL_M_AT** Units: **mg/L** Prep Date: Run ID: **DR2010_050127E**
Client ID: **EQB-01/052101** Batch ID: **R60528** TestNo: **M4500-S D** Analysis Date: **1/27/05** SeqNo: **919421**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide, Total - Colorimetric	0.67	0.013	0.05	0.67	0	100	80	120	0.66	1.50	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_TDS_M_AT

Sample ID: **MB-R60529** SampType: **MBLK** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **ZZZZZ** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919319**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	< 20	10	20									

Sample ID: **MB-R60529** SampType: **MBLK** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **ZZZZZ** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919425**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	< 20	10	20									

Sample ID: **LCS-R60529** SampType: **LCS** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **ZZZZZ** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919320**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	998	10	20	1000	0	99.8	85	115	0	0		

Sample ID: **LCS-R60529** SampType: **LCS** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **ZZZZZ** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919424**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	946	10	20	1000	0	94.6	85	115	998	5.35	0	

Sample ID: **05010564-002B MS** SampType: **MS** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **EQB-01/052101** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919417**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	604	10	20	500	62	108.4	85	115	0	0		

Sample ID: **05010564-002B MSD** SampType: **MSD** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **EQB-01/052101** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919418**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_TDS_M_AT

Sample ID: **05010564-002B MSD** SampType: **MSD** TestCode: **I_TDS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050127F**
Client ID: **EQB-01/052101** Batch ID: **R60529** TestNo: **M2540 C** Analysis Date: **1/27/05** SeqNo: **919418**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	596	10	20	500	62	106.8	85	115	604	1.33	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: I_TSS_M_AT

Sample ID: **MB-R60417** SampType: **MBLK** TestCode: **I_TSS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050126B**
Client ID: **ZZZZZ** Batch ID: **R60417** TestNo: **M2540 D** Analysis Date: **1/26/05** SeqNo: **917088**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	< 6	5	6									

Sample ID: **LCS-R60417** SampType: **LCS** TestCode: **I_TSS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050126B**
Client ID: **ZZZZZ** Batch ID: **R60417** TestNo: **M2540 D** Analysis Date: **1/26/05** SeqNo: **917089**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	99	5	6	100	0	99	85	115	0	0		

Sample ID: **05010564-002B DUP** SampType: **DUP** TestCode: **I_TSS_M_AT** Units: **mg/L** Prep Date: Run ID: **INORGANICS_050126B**
Client ID: **EQB-01/052101** Batch ID: **R60417** TestNo: **M2540 D** Analysis Date: **1/26/05** SeqNo: **917155**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	< 6	5	6	0	0	0	0	0	5	0	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: L_PH_S_A

Sample ID: **LCS-R60312** SampType: **LCS** TestCode: **L_PH_S_A** Units: Prep Date: Run ID: **PH METER - LOG IN_05**
Client ID: **ZZZZZ** Batch ID: **R60312** TestNo: **SW9040 B** Analysis Date: **1/24/05** SeqNo: **915101**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.04	0	1.00	7	0	100.6	99.1	100.9	0	0		

Sample ID: **05010564-001B DUP** SampType: **DUP** TestCode: **L_PH_S_A** Units: Prep Date: Run ID: **PH METER - LOG IN_05**
Client ID: **HMW-29/052101** Batch ID: **R60312** TestNo: **SW9040 B** Analysis Date: **1/24/05** SeqNo: **915094**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.66	0	1.00	0	0	0	0	0	6.67	0.150	10	H

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_SD

Sample ID: **MB-23693** SampType: **MBLK** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050128A**
Client ID: **ZZZZZ** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918275**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	< 0.0050	0.0017	0.0050	0.005	0	0	-100	100	0	0		

Sample ID: **MB-23693** SampType: **MBLK** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050131B**
Client ID: **ZZZZZ** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **1/31/05** SeqNo: **921216**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	< 0.0060	0.0035	0.0060	0.006	0	0	-100	100	0	0		

Sample ID: **MB-23693** SampType: **MBLK** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050201A**
Client ID: **ZZZZZ** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/1/05** SeqNo: **921552**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	< 0.0050	0.0017	0.0050	0.005	0	0	-100	100	0	0		

Sample ID: **MB-23693** SampType: **MBLK** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050201B**
Client ID: **ZZZZZ** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/1/05** SeqNo: **922399**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	< 0.0030	0.0007	0.0030	0.003	0	0	-100	100	0	0		

Sample ID: **MB-23693** SampType: **MBLK** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050202B**
Client ID: **ZZZZZ** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/2/05** SeqNo: **922939**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.00048	0.0004	0.0020	0.002	0	25	-100	100	0	0		J

Sample ID: **LCS-23693** SampType: **LCS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050128A**
Client ID: **ZZZZZ** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918274**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_SD

Sample ID: **LCS-23693** SampType: **LCS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050128A**
Client ID: **ZZZZZ** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **1/28/05** SeqNo: **918274**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0335	0.0017	0.0050	0.03	0	111.7	85	115	0	0		

Sample ID: **LCS-23693** SampType: **LCS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050131B**
Client ID: **ZZZZZ** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **1/31/05** SeqNo: **921215**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0275	0.0035	0.0060	0.03	0	91.7	85	115	0	0		

Sample ID: **LCS-23693** SampType: **LCS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050201A**
Client ID: **ZZZZZ** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/1/05** SeqNo: **921551**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0345	0.0017	0.0050	0.03	0	115	85	115	0	0		S

Sample ID: **LCS-23693** SampType: **LCS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050201A**
Client ID: **ZZZZZ** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/1/05** SeqNo: **921738**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0158	0.0004	0.0020	0.015	0.0005	102.1	85	115	0	0		

Sample ID: **LCS-23693** SampType: **LCS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050201B**
Client ID: **ZZZZZ** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/1/05** SeqNo: **922398**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0165	0.0007	0.0030	0.015	0	110	85	115	0	0		

Sample ID: **05010564-001DMS** SampType: **MS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050201A**
Client ID: **HMW-29/052101** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/1/05** SeqNo: **921752**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_SD

Sample ID: **05010564-001DMS** SampType: **MS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050201A**
Client ID: **HMW-29/052101** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/1/05** SeqNo: **921752**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0172	0.0004	0.0020	0.015	0	114.7	70	130	0	0		

Sample ID: **05010564-001DMS** SampType: **MS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050202A**
Client ID: **HMW-29/052101** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/2/05** SeqNo: **922089**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0369	0.0017	0.0050	0.03	0	123	70	130	0	0		

Sample ID: **05010564-001DMS** SampType: **MS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050203A**
Client ID: **HMW-29/052101** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/3/05** SeqNo: **923368**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0159	0.0007	0.0030	0.015	0.0014	96.7	70	130	0	0		

Sample ID: **05010564-001DMS** SampType: **MS** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050203A**
Client ID: **HMW-29/052101** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/3/05** SeqNo: **923420**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.031	0.0035	0.0060	0.03	0	103.3	70	130	0	0		

Sample ID: **05010564-001DMSD** SampType: **MSD** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050201A**
Client ID: **HMW-29/052101** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/1/05** SeqNo: **921753**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0174	0.0004	0.0020	0.015	0	116	70	130	0.0172	1.16	15	

Sample ID: **05010564-001DMSD** SampType: **MSD** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050202A**
Client ID: **HMW-29/052101** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/2/05** SeqNo: **922090**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_SD

Sample ID: **05010564-001DMSD** SampType: **MSD** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050202A**
Client ID: **HMW-29/052101** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/2/05** SeqNo: **922090**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0375	0.0017	0.0050	0.03	0	125	70	130	0.0369	1.61	15	

Sample ID: **05010564-001DMSD** SampType: **MSD** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA_050203A**
Client ID: **HMW-29/052101** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/3/05** SeqNo: **923369**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0163	0.0007	0.0030	0.015	0.0014	99.3	70	130	0.0159	2.48	15	

Sample ID: **05010564-001DMSD** SampType: **MSD** TestCode: **M_AQ_GF_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **GFAA-2_050203A**
Client ID: **HMW-29/052101** Batch ID: **23693** TestNo: **SW7000 G** Analysis Date: **2/3/05** SeqNo: **923421**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0321	0.0035	0.0060	0.03	0	107	70	130	0.031	3.49	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: MB-23717 | SampType: MBLK | TestCode: M_AQ_GF_ST | Units: mg/L | Prep Date: 1/27/05 | Run ID: GFAA_050130A
Client ID: ZZZZZ | Batch ID: 23717 | TestNo: SW7000 G | Analysis Date: 1/30/05 | SeqNo: 919648

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	< 0.0030	0.0007	0.0030	0.003	0	0	-100	100	0	0		

Sample ID: MB-23717 | SampType: MBLK | TestCode: M_AQ_GF_ST | Units: mg/L | Prep Date: 1/27/05 | Run ID: GFAA_050201A
Client ID: ZZZZZ | Batch ID: 23717 | TestNo: SW7000 G | Analysis Date: 2/1/05 | SeqNo: 921783

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0004	0.0004	0.0020	0.002	0	20	-100	100	0	0		J

Sample ID: MB-23717 | SampType: MBLK | TestCode: M_AQ_GF_ST | Units: mg/L | Prep Date: 1/27/05 | Run ID: GFAA-2_050202A
Client ID: ZZZZZ | Batch ID: 23717 | TestNo: SW7000 G | Analysis Date: 2/2/05 | SeqNo: 922102

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	< 0.0050	0.0017	0.0050	0.005	0	0	-100	100	0	0		

Sample ID: MB-23717 | SampType: MBLK | TestCode: M_AQ_GF_ST | Units: mg/L | Prep Date: 1/27/05 | Run ID: GFAA-2_050203A
Client ID: ZZZZZ | Batch ID: 23717 | TestNo: SW7000 G | Analysis Date: 2/3/05 | SeqNo: 923240

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	< 0.0060	0.0035	0.0060	0.006	0	0	-100	100	0	0		

Sample ID: LCS-23717 | SampType: LCS | TestCode: M_AQ_GF_ST | Units: mg/L | Prep Date: 1/27/05 | Run ID: GFAA_050130A
Client ID: ZZZZZ | Batch ID: 23717 | TestNo: SW7000 G | Analysis Date: 1/30/05 | SeqNo: 919647

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0169	0.0007	0.0030	0.015	0	112.7	85	115	0	0		

Sample ID: LCS-23717 | SampType: LCS | TestCode: M_AQ_GF_ST | Units: mg/L | Prep Date: 1/27/05 | Run ID: GFAA-2_050202A
Client ID: ZZZZZ | Batch ID: 23717 | TestNo: SW7000 G | Analysis Date: 2/2/05 | SeqNo: 922101

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit | S - Spike Recovery outside accepted recovery limits | NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits | B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: **LCS-23717** SampType: **LCS** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/27/05** Run ID: **GFAA-2_050202A**
Client ID: **ZZZZZ** Batch ID: **23717** TestNo: **SW7000 G** Analysis Date: **2/2/05** SeqNo: **922101**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0327	0.0017	0.0050	0.03	0	109	85	115	0	0		

Sample ID: **LCS-23717** SampType: **LCS** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/27/05** Run ID: **GFAA-2_050203A**
Client ID: **ZZZZZ** Batch ID: **23717** TestNo: **SW7000 G** Analysis Date: **2/3/05** SeqNo: **923258**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0305	0.0035	0.0060	0.03	0	101.7	85	115	0	0		

Sample ID: **LCS-23717** SampType: **LCS** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/27/05** Run ID: **GFAA_050204A**
Client ID: **ZZZZZ** Batch ID: **23717** TestNo: **SW7000 G** Analysis Date: **2/4/05** SeqNo: **923877**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0162	0.0004	0.0020	0.015	0.0004	105.3	85	115	0	0		

Sample ID: **05010564-002CMS** SampType: **MS** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/27/05** Run ID: **GFAA_050130A**
Client ID: **EQB-01/052101** Batch ID: **23717** TestNo: **SW7000 G** Analysis Date: **1/30/05** SeqNo: **919651**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0179	0.0007	0.0030	0.015	0	119.3	70	130	0	0		

Sample ID: **05010564-002CMS** SampType: **MS** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/27/05** Run ID: **GFAA_050201A**
Client ID: **EQB-01/052101** Batch ID: **23717** TestNo: **SW7000 G** Analysis Date: **2/1/05** SeqNo: **921786**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0159	0.0004	0.0020	0.015	0.0012	98	70	130	0	0		

Sample ID: **05010564-002CMS** SampType: **MS** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/27/05** Run ID: **GFAA-2_050202A**
Client ID: **EQB-01/052101** Batch ID: **23717** TestNo: **SW7000 G** Analysis Date: **2/2/05** SeqNo: **922105**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: 05010564-002CMS SampType: MS TestCode: M_AQ_GF_ST Units: mg/L Prep Date: 1/27/05 Run ID: GFAA-2_050202A
Client ID: EQB-01/052101 Batch ID: 23717 TestNo: SW7000 G Analysis Date: 2/2/05 SeqNo: 922105

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0309	0.0017	0.0050	0.03	0	103	70	130	0	0		

Sample ID: 05010564-002CMS SampType: MS TestCode: M_AQ_GF_ST Units: mg/L Prep Date: 1/27/05 Run ID: GFAA-2_050203A
Client ID: EQB-01/052101 Batch ID: 23717 TestNo: SW7000 G Analysis Date: 2/3/05 SeqNo: 923243

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0312	0.0035	0.0060	0.03	0	104	70	130	0	0		

Sample ID: 05010564-002CMSD SampType: MSD TestCode: M_AQ_GF_ST Units: mg/L Prep Date: 1/27/05 Run ID: GFAA_050130A
Client ID: EQB-01/052101 Batch ID: 23717 TestNo: SW7000 G Analysis Date: 1/30/05 SeqNo: 919654

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7060A	0.0183	0.0007	0.0030	0.015	0	122	70	130	0.0179	2.21	15	

Sample ID: 05010564-002CMSD SampType: MSD TestCode: M_AQ_GF_ST Units: mg/L Prep Date: 1/27/05 Run ID: GFAA_050201A
Client ID: EQB-01/052101 Batch ID: 23717 TestNo: SW7000 G Analysis Date: 2/1/05 SeqNo: 921787

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7421	0.0169	0.0004	0.0020	0.015	0.0012	104.7	70	130	0.0159	6.10	15	

Sample ID: 05010564-002CMSD SampType: MSD TestCode: M_AQ_GF_ST Units: mg/L Prep Date: 1/27/05 Run ID: GFAA-2_050202A
Client ID: EQB-01/052101 Batch ID: 23717 TestNo: SW7000 G Analysis Date: 2/2/05 SeqNo: 922106

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	7041	0.0306	0.0017	0.0050	0.03	0	102	70	130	0.0309	0.975	15	

Sample ID: 05010564-002CMSD SampType: MSD TestCode: M_AQ_GF_ST Units: mg/L Prep Date: 1/27/05 Run ID: GFAA-2_050203A
Client ID: EQB-01/052101 Batch ID: 23717 TestNo: SW7000 G Analysis Date: 2/3/05 SeqNo: 923244

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_GF_ST

Sample ID: **05010564-002CMSD** SampType: **MSD** TestCode: **M_AQ_GF_ST** Units: **mg/L** Prep Date: **1/27/05** Run ID: **GFAA-2_050203A**
Client ID: **EQB-01/052101** Batch ID: **23717** TestNo: **SW7000 G** Analysis Date: **2/3/05** SeqNo: **923244**

Analyte		Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7740	0.0314	0.0035	0.0060	0.03	0	104.7	70	130	0.0312	0.638	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_SD

Sample ID: **MB-23695** SampType: **MBLK** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP_050131E**
Client ID: **ZZZZZ** Batch ID: **23695** TestNo: **SW6010B** Analysis Date: **1/31/05** SeqNo: **920365**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.0003	0.0003	0.0010	0.001	0	30	-100	100	0	0		J
Cadmium	< 0.0020	0.0003	0.0020	0.002	0	0	-100	100	0	0		
Nickel	< 0.0100	0.0033	0.0100	0.01	0	0	-100	100	0	0		
Vanadium	0.004	0.0032	0.0100	0.01	0	40	-100	100	0	0		J
Zinc	< 0.0100	0.0021	0.0100	0.01	0	0	-100	100	0	0		

Sample ID: **MB-23695** SampType: **MBLK** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP_050201A**
Client ID: **ZZZZZ** Batch ID: **23695** TestNo: **SW6010B** Analysis Date: **2/1/05** SeqNo: **920401**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	< 0.0050	0.0024	0.0050	0.005	0	0	-100	100	0	0		
Chromium	< 0.0100	0.004	0.0100	0.01	0	0	-100	100	0	0		
Cobalt	< 0.0100	0.0022	0.0100	0.01	0	0	-100	100	0	0		
Silver	< 0.0100	0.0032	0.0100	0.01	0	0	-100	100	0	0		
Vanadium	< 0.0100	0.0032	0.0100	0.01	0	0	-100	100	0	0		

Sample ID: **LCS-23695** SampType: **LCS** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP_050131E**
Client ID: **ZZZZZ** Batch ID: **23695** TestNo: **SW6010B** Analysis Date: **1/31/05** SeqNo: **920364**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.046	0.0003	0.0010	0.05	0.0003	91.4	85	115	0	0		
Cadmium	0.0457	0.0003	0.0020	0.05	0	91.4	85	115	0	0		
Nickel	0.467	0.0033	0.0100	0.5	0	93.4	85	115	0	0		
Vanadium	0.488	0.0032	0.0100	0.5	0.004	96.8	85	115	0	0		
Zinc	0.472	0.0021	0.0100	0.5	0	94.4	85	115	0	0		

Sample ID: **LCS-23695** SampType: **LCS** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP_050201A**
Client ID: **ZZZZZ** Batch ID: **23695** TestNo: **SW6010B** Analysis Date: **2/1/05** SeqNo: **920400**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	2	0.0024	0.0050	2	0	100	85	115	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_SD

Sample ID: **LCS-23695** SampType: **LCS** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP_050201A**
Client ID: **ZZZZZ** Batch ID: **23695** TestNo: **SW6010B** Analysis Date: **2/1/05** SeqNo: **920400**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.192	0.004	0.0100	0.2	0	96	85	115	0	0		
Cobalt	0.492	0.0022	0.0100	0.5	0	98.4	85	115	0	0		
Silver	0.0468	0.0032	0.0100	0.05	0	93.6	85	115	0	0		
Vanadium	0.506	0.0032	0.0100	0.5	0	101.2	85	115	0	0		

Sample ID: **05010564-002DMS** SampType: **MS** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP_050131E**
Client ID: **EQB-01/052101** Batch ID: **23695** TestNo: **SW6010B** Analysis Date: **1/31/05** SeqNo: **920389**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.0474	0.0003	0.0010	0.05	0.0004	94	75	125	0	0		
Cadmium	0.0437	0.0003	0.0020	0.05	0	87.4	75	125	0	0		
Nickel	0.448	0.0033	0.0100	0.5	0	89.6	75	125	0	0		
Vanadium	0.489	0.0032	0.0100	0.5	0	97.8	75	125	0	0		
Zinc	0.494	0.0021	0.0100	0.5	0.0286	93.1	75	125	0	0		

Sample ID: **05010564-002DMS** SampType: **MS** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP_050201A**
Client ID: **EQB-01/052101** Batch ID: **23695** TestNo: **SW6010B** Analysis Date: **2/1/05** SeqNo: **920425**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	2.15	0.0024	0.0050	2	0.0328	105.9	75	125	0	0		
Chromium	0.189	0.004	0.0100	0.2	0	94.5	75	125	0	0		
Cobalt	0.52	0.0022	0.0100	0.5	0.0032	103.4	75	125	0	0		
Silver	0.044	0.0032	0.0100	0.05	0	88	75	125	0	0		

Sample ID: **05010564-002DMSD** SampType: **MSD** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP_050131E**
Client ID: **EQB-01/052101** Batch ID: **23695** TestNo: **SW6010B** Analysis Date: **1/31/05** SeqNo: **920390**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.0475	0.0003	0.0010	0.05	0.0004	94.2	75	125	0.0474	0.211	15	
Cadmium	0.0444	0.0003	0.0020	0.05	0	88.8	75	125	0.0437	1.59	15	
Nickel	0.449	0.0033	0.0100	0.5	0	89.8	75	125	0.448	0.223	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_SD

Sample ID: **05010564-002DMSD** SampType: **MSD** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP_050131E**
Client ID: **EQB-01/052101** Batch ID: **23695** TestNo: **SW6010B** Analysis Date: **1/31/05** SeqNo: **920390**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vanadium	0.491	0.0032	0.0100	0.5	0	98.2	75	125	0.489	0.408	15	
Zinc	0.492	0.0021	0.0100	0.5	0.0286	92.7	75	125	0.494	0.406	15	

Sample ID: **05010564-002DMSD** SampType: **MSD** TestCode: **M_AQ_ICP_SD** Units: **mg/L** Prep Date: **1/26/05** Run ID: **ICP_050201A**
Client ID: **EQB-01/052101** Batch ID: **23695** TestNo: **SW6010B** Analysis Date: **2/1/05** SeqNo: **920426**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	2.13	0.0024	0.0050	2	0.0328	104.9	75	125	2.15	0.934	15	
Chromium	0.198	0.004	0.0100	0.2	0	99	75	125	0.189	4.65	15	
Cobalt	0.518	0.0022	0.0100	0.5	0.0032	103	75	125	0.52	0.385	15	
Silver	0.0428	0.0032	0.0100	0.05	0	85.6	75	125	0.044	2.76	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: **MB-23655** SampType: **MBLK** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP_050131E**
Client ID: **ZZZZZ** Batch ID: **23655** TestNo: **SW6010B** Analysis Date: **1/31/05** SeqNo: **920329**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	< 0.0050	0.0024	0.0050	0.005	0	0	-100	100	0	0		
Beryllium	< 0.0010	0.0003	0.0010	0.001	0	0	-100	100	0	0		
Cadmium	< 0.0020	0.0003	0.0020	0.002	0	0	-100	100	0	0		
Chromium	< 0.0100	0.004	0.0100	0.01	0	0	-100	100	0	0		
Cobalt	< 0.0100	0.0022	0.0100	0.01	0	0	-100	100	0	0		
Nickel	< 0.0100	0.0033	0.0100	0.01	0	0	-100	100	0	0		
Silver	< 0.0100	0.0032	0.0100	0.01	0	0	-100	100	0	0		
Vanadium	< 0.0100	0.0032	0.0100	0.01	0	0	-100	100	0	0		
Zinc	< 0.0100	0.0021	0.0100	0.01	0	0	-100	100	0	0		

Sample ID: **LCS-23655** SampType: **LCS** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP_050131E**
Client ID: **ZZZZZ** Batch ID: **23655** TestNo: **SW6010B** Analysis Date: **1/31/05** SeqNo: **920328**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.98	0.0024	0.0050	2	0	99	85	115	0	0		
Beryllium	0.0494	0.0003	0.0010	0.05	0	98.8	85	115	0	0		
Cadmium	0.0495	0.0003	0.0020	0.05	0	99	85	115	0	0		
Chromium	0.199	0.004	0.0100	0.2	0	99.5	85	115	0	0		
Cobalt	0.487	0.0022	0.0100	0.5	0	97.4	85	115	0	0		
Nickel	0.498	0.0033	0.0100	0.5	0	99.6	85	115	0	0		
Silver	0.049	0.0032	0.0100	0.05	0	98	85	115	0	0		
Vanadium	0.494	0.0032	0.0100	0.5	0	98.8	85	115	0	0		
Zinc	0.487	0.0021	0.0100	0.5	0	97.4	85	115	0	0		

Sample ID: **05010564-002CMS** SampType: **MS** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP_050131E**
Client ID: **EQB-01/052101** Batch ID: **23655** TestNo: **SW6010B** Analysis Date: **1/31/05** SeqNo: **920360**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.0484	0.0003	0.0010	0.05	0	96.8	75	125	0	0		
Cadmium	0.0451	0.0003	0.0020	0.05	0	90.2	75	125	0	0		
Chromium	0.201	0.004	0.0100	0.2	0	100.5	75	125	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_AQ_ICP_ST

Sample ID: **05010564-002CMS** SampType: **MS** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP_050131E**
Client ID: **EQB-01/052101** Batch ID: **23655** TestNo: **SW6010B** Analysis Date: **1/31/05** SeqNo: **920360**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.456	0.0033	0.0100	0.5	0	91.2	75	125	0	0		
Silver	0.0597	0.0032	0.0100	0.05	0	119.4	75	125	0	0		
Vanadium	0.494	0.0032	0.0100	0.5	0	98.8	75	125	0	0		
Zinc	0.497	0.0021	0.0100	0.5	0.0283	93.7	75	125	0	0		

Sample ID: **05010564-002CMS** SampType: **MS** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP_050201E**
Client ID: **EQB-01/052101** Batch ID: **23655** TestNo: **SW6010B** Analysis Date: **2/1/05** SeqNo: **920766**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.93	0.0024	0.0050	2	0.0299	95	75	125	0	0		
Cobalt	0.456	0.0022	0.0100	0.5	0	91.2	75	125	0	0		

Sample ID: **05010564-002CMSD** SampType: **MSD** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP_050131E**
Client ID: **EQB-01/052101** Batch ID: **23655** TestNo: **SW6010B** Analysis Date: **1/31/05** SeqNo: **920361**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.0475	0.0003	0.0010	0.05	0	95	75	125	0.0484	1.88	15	
Cadmium	0.045	0.0003	0.0020	0.05	0	90	75	125	0.0451	0.222	15	
Chromium	0.196	0.004	0.0100	0.2	0	98	75	125	0.201	2.52	15	
Nickel	0.452	0.0033	0.0100	0.5	0	90.4	75	125	0.456	0.881	15	
Silver	0.0582	0.0032	0.0100	0.05	0	116.4	75	125	0.0597	2.54	15	
Vanadium	0.492	0.0032	0.0100	0.5	0	98.4	75	125	0.494	0.406	15	
Zinc	0.488	0.0021	0.0100	0.5	0.0283	91.9	75	125	0.497	1.83	15	

Sample ID: **05010564-002CMSD** SampType: **MSD** TestCode: **M_AQ_ICP_ST** Units: **mg/L** Prep Date: **1/25/05** Run ID: **ICP_050201E**
Client ID: **EQB-01/052101** Batch ID: **23655** TestNo: **SW6010B** Analysis Date: **2/1/05** SeqNo: **920767**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.93	0.0024	0.0050	2	0.0299	95	75	125	1.93	0	15	
Cobalt	0.456	0.0022	0.0100	0.5	0	91.2	75	125	0.456	0	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_HG_AQ_S

Sample ID: **MB-23750** SampType: **MBLK** TestCode: **M_HG_AQ_S** Units: **mg/L** Prep Date: **1/28/05** Run ID: **CVAA_050129A**
Client ID: **ZZZZZ** Batch ID: **23750** TestNo: **SW7470 A** Analysis Date: **1/29/05** SeqNo: **919209**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00020	0.000051	0.00020	0.0002	0	0	-100	100	0	0		

Sample ID: **LCS-23750** SampType: **LCS** TestCode: **M_HG_AQ_S** Units: **mg/L** Prep Date: **1/28/05** Run ID: **CVAA_050129A**
Client ID: **ZZZZZ** Batch ID: **23750** TestNo: **SW7470 A** Analysis Date: **1/29/05** SeqNo: **919208**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00492	0.000051	0.00020	0.005	0	98.4	85	115	0	0		

Sample ID: **05010564-001CMS** SampType: **MS** TestCode: **M_HG_AQ_S** Units: **mg/L** Prep Date: **1/28/05** Run ID: **CVAA_050129A**
Client ID: **HMW-29/052101** Batch ID: **23750** TestNo: **SW7470 A** Analysis Date: **1/29/05** SeqNo: **919217**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00511	0.000051	0.00020	0.005	0	102.2	75	125	0	0		

Sample ID: **05010564-001CMSD** SampType: **MSD** TestCode: **M_HG_AQ_S** Units: **mg/L** Prep Date: **1/28/05** Run ID: **CVAA_050129A**
Client ID: **HMW-29/052101** Batch ID: **23750** TestNo: **SW7470 A** Analysis Date: **1/29/05** SeqNo: **919218**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00503	0.000051	0.00020	0.005	0	100.6	75	125	0.00511	1.58	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: M_HG_AQ_SD

Sample ID: **MB-23750** SampType: **MBLK** TestCode: **M_HG_AQ_SD** Units: **mg/L** Prep Date: **1/28/05** Run ID: **CVAA_050129A**
Client ID: **ZZZZZ** Batch ID: **23750** TestNo: **SW7470 A** Analysis Date: **1/29/05** SeqNo: **919318**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00020	0.000051	0.00020	0.0002	0	0	-100	100	0	0		

Sample ID: **LCS-23750** SampType: **LCS** TestCode: **M_HG_AQ_SD** Units: **mg/L** Prep Date: **1/28/05** Run ID: **CVAA_050129A**
Client ID: **ZZZZZ** Batch ID: **23750** TestNo: **SW7470 A** Analysis Date: **1/29/05** SeqNo: **919317**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00492	0.000051	0.00020	0.005	0	98.4	85	115	0	0		

Sample ID: **05010564-002DMS** SampType: **MS** TestCode: **M_HG_AQ_SD** Units: **mg/L** Prep Date: **1/28/05** Run ID: **CVAA_050129A**
Client ID: **EQB-01/052101** Batch ID: **23750** TestNo: **SW7470 A** Analysis Date: **1/29/05** SeqNo: **919224**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00506	0.000051	0.00020	0.005	0	101.2	75	125	0	0		

Sample ID: **05010564-002DMSD** SampType: **MSD** TestCode: **M_HG_AQ_SD** Units: **mg/L** Prep Date: **1/28/05** Run ID: **CVAA_050129A**
Client ID: **EQB-01/052101** Batch ID: **23750** TestNo: **SW7470 A** Analysis Date: **1/29/05** SeqNo: **919225**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00506	0.000051	0.00020	0.005	0	101.2	75	125	0.00506	0	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W

Sample ID: **MB-23681** SampType: **MBLK** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050126A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **917282**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dimethylphenol	ND	0.001	0.010									
2,4-Dinitrophenol	ND	0.01	0.020									
4-Nitrophenol	ND	0.004	0.020									
Bis(2-ethylhexyl)phthalate	ND	0.004	0.006									
Di-n-butyl phthalate	ND	0.003	0.010									
Diethyl phthalate	ND	0.002	0.010									
Dimethyl phthalate	ND	0.001	0.010									
m,p-Cresol	ND	0.001	0.010									
o-Cresol	ND	0.001	0.010									
Phenol	ND	0.0025	0.005									
Pyridine	ND	0.01	0.020									
Quinoline	ND	0.001	0.005									
Surr: 2,4,6-Tribromophenol	0.086	0	0	0.1	0	86	61.2	118	0	0		
Surr: 2-Fluorobiphenyl	0.033	0	0	0.05	0	66	52	111	0	0		
Surr: 2-Fluorophenol	0.048	0	0	0.1	0	48	27.8	70.1	0	0		
Surr: Nitrobenzene-d5	0.033	0	0	0.05	0	66	43.8	109	0	0		
Surr: p-Terphenyl-d14	0.038	0	0	0.05	0	76	66.8	116	0	0		
Surr: Phenol-d5	0.037	0	0	0.1	0	37	19.9	48.5	0	0		

Sample ID: **MB-23681** SampType: **MBLK** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050127A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **918081**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dimethylphenol	ND	0.001	0.010									
2,4-Dinitrophenol	ND	0.01	0.020									
4-Nitrophenol	ND	0.004	0.020									
Bis(2-ethylhexyl)phthalate	ND	0.004	0.006									
Di-n-butyl phthalate	ND	0.003	0.010									
Diethyl phthalate	ND	0.002	0.010									
Dimethyl phthalate	ND	0.001	0.010									
m,p-Cresol	ND	0.001	0.010									

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W

Sample ID: **MB-23681** SampType: **MBLK** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050127A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **918081**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Cresol	ND	0.001	0.010									
Phenol	ND	0.0025	0.005									
Pyridine	ND	0.01	0.020									
Quinoline	ND	0.001	0.005									
Surr: 2,4,6-Tribromophenol	0.086	0	0	0.1	0	86	61.2	118	0	0		
Surr: 2-Fluorobiphenyl	0.033	0	0	0.05	0	66	52	111	0	0		
Surr: 2-Fluorophenol	0.048	0	0	0.1	0	48	27.8	70.1	0	0		
Surr: Nitrobenzene-d5	0.033	0	0	0.05	0	66	43.8	109	0	0		
Surr: p-Terphenyl-d14	0.038	0	0	0.05	0	76	66.8	116	0	0		
Surr: Phenol-d5	0.037	0	0	0.1	0	37	19.9	48.5	0	0		

Sample ID: **MB-23681** SampType: **MBLK** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050130A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **919840**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dimethylphenol	ND	0.001	0.010									
2,4-Dinitrophenol	ND	0.01	0.020									
4-Nitrophenol	ND	0.004	0.020									
Bis(2-ethylhexyl)phthalate	ND	0.004	0.006									
Di-n-butyl phthalate	ND	0.003	0.010									
Diethyl phthalate	ND	0.002	0.010									
Dimethyl phthalate	ND	0.001	0.010									
m,p-Cresol	ND	0.001	0.010									
o-Cresol	ND	0.001	0.010									
Phenol	ND	0.0025	0.005									
Pyridine	ND	0.01	0.020									
Quinoline	ND	0.001	0.005									
Surr: 2,4,6-Tribromophenol	0.086	0	0	0.1	0	86	61.2	118	0	0		
Surr: 2-Fluorobiphenyl	0.033	0	0	0.05	0	66	52	111	0	0		
Surr: 2-Fluorophenol	0.048	0	0	0.1	0	48	27.8	70.1	0	0		
Surr: Nitrobenzene-d5	0.033	0	0	0.05	0	66	43.8	109	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W

Sample ID: **MB-23681** SampType: **MBLK** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050130A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **919840**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: p-Terphenyl-d14	0.038	0	0	0.05	0	76	66.8	116	0	0		
Surr: Phenol-d5	0.037	0	0	0.1	0	37	19.9	48.5	0	0		

Sample ID: **LCS-23681** SampType: **LCS** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050126A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **917283**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	0.03	0.004	0.020	0.1	0	30	18.5	49.2	0	0		
Phenol	0.029	0.0025	0.005	0.1	0	29	19.7	45.6	0	0		
Surr: 2,4,6-Tribromophenol	0.08	0	0	0.1	0	80	56.6	127	0	0		
Surr: 2-Fluorobiphenyl	0.033	0	0	0.05	0	66	50.1	112	0	0		
Surr: 2-Fluorophenol	0.043	0	0	0.1	0	43	28.2	70.1	0	0		
Surr: Nitrobenzene-d5	0.035	0	0	0.05	0	70	46.6	108	0	0		
Surr: p-Terphenyl-d14	0.036	0	0	0.05	0	72	64.9	119	0	0		
Surr: Phenol-d5	0.034	0	0	0.1	0	34	20.8	48.6	0	0		

Sample ID: **LCS-23681** SampType: **LCS** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050127A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **918082**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	0.03	0.004	0.020	0.1	0	30	18.5	49.2	0	0		
Phenol	0.029	0.0025	0.005	0.1	0	29	19.7	45.6	0	0		
Surr: 2,4,6-Tribromophenol	0.08	0	0	0.1	0	80	56.6	127	0	0		
Surr: 2-Fluorobiphenyl	0.033	0	0	0.05	0	66	50.1	112	0	0		
Surr: 2-Fluorophenol	0.043	0	0	0.1	0	43	28.2	70.1	0	0		
Surr: Nitrobenzene-d5	0.035	0	0	0.05	0	70	46.6	108	0	0		
Surr: p-Terphenyl-d14	0.036	0	0	0.05	0	72	64.9	119	0	0		
Surr: Phenol-d5	0.034	0	0	0.1	0	34	20.8	48.6	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W

Sample ID: **LCS-23681** SampType: **LCS** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050130A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **919841**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	0.03	0.004	0.020	0.1	0	30	18.5	49.2	0	0		
Phenol	0.029	0.0025	0.005	0.1	0	29	19.7	45.6	0	0		
Surr: 2,4,6-Tribromophenol	0.08	0	0	0.1	0	80	56.6	127	0	0		
Surr: 2-Fluorobiphenyl	0.033	0	0	0.05	0	66	50.1	112	0	0		
Surr: 2-Fluorophenol	0.043	0	0	0.1	0	43	28.2	70.1	0	0		
Surr: Nitrobenzene-d5	0.035	0	0	0.05	0	70	46.6	108	0	0		
Surr: p-Terphenyl-d14	0.036	0	0	0.05	0	72	64.9	119	0	0		
Surr: Phenol-d5	0.034	0	0	0.1	0	34	20.8	48.6	0	0		

Sample ID: **LCSDUP-23681** SampType: **LCSD** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050126A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **917284**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	0.031	0.004	0.020	0.1	0	31	18.5	49.2	0.03	3.26	24.9	
Phenol	0.029	0.0025	0.005	0.1	0	29	19.7	45.6	0.029	0	25.5	
Surr: 2,4,6-Tribromophenol	0.081	0	0	0.1	0	81	56.6	127	0	0	0	
Surr: 2-Fluorobiphenyl	0.034	0	0	0.05	0	68	50.1	112	0	0	0	
Surr: 2-Fluorophenol	0.043	0	0	0.1	0	43	28.2	70.1	0	0	0	
Surr: Nitrobenzene-d5	0.035	0	0	0.05	0	70	46.6	108	0	0	0	
Surr: p-Terphenyl-d14	0.034	0	0	0.05	0	68	64.9	119	0	0	0	
Surr: Phenol-d5	0.033	0	0	0.1	0	33	20.8	48.6	0	0	0	

Sample ID: **LCSDUP-23681** SampType: **LCSD** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050127A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **918083**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	0.031	0.004	0.020	0.1	0	31	18.5	49.2	0.03	3.26	24.9	
Phenol	0.029	0.0025	0.005	0.1	0	29	19.7	45.6	0.029	0	25.5	
Surr: 2,4,6-Tribromophenol	0.081	0	0	0.1	0	81	56.6	127	0	0	0	
Surr: 2-Fluorobiphenyl	0.034	0	0	0.05	0	68	50.1	112	0	0	0	
Surr: 2-Fluorophenol	0.043	0	0	0.1	0	43	28.2	70.1	0	0	0	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_W

Sample ID: **LCSDUP-23681** SampType: **LCSD** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050127A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **918083**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.035	0	0	0.05	0	70	46.6	108	0	0	0	
Surr: p-Terphenyl-d14	0.034	0	0	0.05	0	68	64.9	119	0	0	0	
Surr: Phenol-d5	0.033	0	0	0.1	0	33	20.8	48.6	0	0	0	

Sample ID: **LCSDUP-23681** SampType: **LCSD** TestCode: **SV_8270S_W** Units: **mg/L** Prep Date: **1/26/05** Run ID: **5972 INST. M_050130A**
Client ID: **ZZZZZ** Batch ID: **23681** TestNo: **SW8270C** Analysis Date: **1/27/05** SeqNo: **919842**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	0.031	0.004	0.020	0.1	0	31	18.5	49.2	0.03	3.26	24.9	
Phenol	0.029	0.0025	0.005	0.1	0	29	19.7	45.6	0.029	0	25.5	
Surr: 2,4,6-Tribromophenol	0.081	0	0	0.1	0	81	56.6	127	0	0	0	
Surr: 2-Fluorobiphenyl	0.034	0	0	0.05	0	68	50.1	112	0	0	0	
Surr: 2-Fluorophenol	0.043	0	0	0.1	0	43	28.2	70.1	0	0	0	
Surr: Nitrobenzene-d5	0.035	0	0	0.05	0	70	46.6	108	0	0	0	
Surr: p-Terphenyl-d14	0.034	0	0	0.05	0	68	64.9	119	0	0	0	
Surr: Phenol-d5	0.033	0	0	0.1	0	33	20.8	48.6	0	0	0	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **MB-23712** SampType: **MBLK** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/27/05** Run ID: **HPLC INST. C_050128A**
Client ID: **ZZZZZ** Batch ID: **23712** TestNo: **SW8310** Analysis Date: **1/28/05** SeqNo: **918169**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.001	0.00300									
Anthracene	ND	0.0001	0.00030									
Benzo(a)anthracene	ND	0.00003	0.00009									
Benzo(a)pyrene	ND	0.00004	0.00012									
Benzo(b)fluoranthene	ND	0.00005	0.00015									
Benzo(k)fluoranthene	ND	0.00005	0.00015									
Chrysene	ND	0.00015	0.00045									
Dibenzo(a,h)anthracene	ND	0.00006	0.00018									
Fluoranthene	ND	0.0003	0.00090									
Fluorene	ND	0.0001	0.00030									
Indeno(1,2,3-cd)pyrene	ND	0.0001	0.00030									
Naphthalene	ND	0.001	0.00300									
Phenanthrene	ND	0.0002	0.00060									
Pyrene	ND	0.0001	0.00030									
Surr: Terphenyl-d14	0.00795	0	0	0.01	0	79.5	71.4	126	0	0		

Sample ID: **LCS-23712** SampType: **LCS** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/27/05** Run ID: **HPLC INST. C_050128A**
Client ID: **ZZZZZ** Batch ID: **23712** TestNo: **SW8310** Analysis Date: **1/28/05** SeqNo: **918167**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.0337	0.001	0.00300	0.05	0	67.4	48.9	94	0	0		
Anthracene	0.00385	0.0001	0.00030	0.005	0	77	68.9	102	0	0		
Benzo(a)anthracene	0.00411	0.00003	0.00009	0.005	0	82.2	66.3	95.6	0	0		
Benzo(a)pyrene	0.00395	0.00004	0.00012	0.005	0	79	62.3	102	0	0		
Benzo(b)fluoranthene	0.00855	0.00005	0.00015	0.01	0	85.5	66.9	98.1	0	0		
Benzo(k)fluoranthene	0.00416	0.00005	0.00015	0.005	0	83.2	66.3	102	0	0		
Chrysene	0.00416	0.00015	0.00045	0.005	0	83.2	64.1	96.3	0	0		
Dibenzo(a,h)anthracene	0.00823	0.00006	0.00018	0.01	0	82.3	65.1	113	0	0		
Fluoranthene	0.0082	0.0003	0.00090	0.01	0	82	66.7	98.7	0	0		
Fluorene	0.00647	0.0001	0.00030	0.01	0	64.7	45.8	103	0	0		
Indeno(1,2,3-cd)pyrene	0.00407	0.0001	0.00030	0.005	0	81.4	69.5	102	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8310S_W

Sample ID: **LCS-23712** SampType: **LCS** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/27/05** Run ID: **HPLC INST. C_050128A**
Client ID: **ZZZZZ** Batch ID: **23712** TestNo: **SW8310** Analysis Date: **1/28/05** SeqNo: **918167**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	0.0327	0.001	0.00300	0.05	0	65.4	41.9	91.7	0	0		
Phenanthrene	0.00388	0.0002	0.00060	0.005	0	77.6	58.9	96.2	0	0		
Pyrene	0.00354	0.0001	0.00030	0.005	0	70.8	60.3	87.3	0	0		
Surr: Terphenyl-d14	0.00874	0	0	0.01	0	87.4	74.1	109	0	0		

Sample ID: **LCSDUP-23712** SampType: **LCSD** TestCode: **SV_8310S_W** Units: **mg/L** Prep Date: **1/27/05** Run ID: **HPLC INST. C_050128A**
Client ID: **ZZZZZ** Batch ID: **23712** TestNo: **SW8310** Analysis Date: **1/28/05** SeqNo: **918168**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.0328	0.001	0.00300	0.05	0	65.6	48.9	94	0.0337	2.71	21.9	
Anthracene	0.00369	0.0001	0.00030	0.005	0	73.8	68.9	102	0.00385	4.24	20	
Benzo(a)anthracene	0.00385	0.00003	0.00009	0.005	0	77	66.3	95.6	0.00411	6.53	18.8	
Benzo(a)pyrene	0.00381	0.00004	0.00012	0.005	0	76.2	62.3	102	0.00395	3.61	19.8	
Benzo(b)fluoranthene	0.00814	0.00005	0.00015	0.01	0	81.4	66.9	98.1	0.00855	4.91	19	
Benzo(k)fluoranthene	0.004	0.00005	0.00015	0.005	0	80	66.3	102	0.00416	3.92	19.2	
Chrysene	0.00388	0.00015	0.00045	0.005	0	77.6	64.1	96.3	0.00416	6.96	18.2	
Dibenzo(a,h)anthracene	0.00775	0.00006	0.00018	0.01	0	77.5	65.1	113	0.00823	6.01	17.6	
Fluoranthene	0.0077	0.0003	0.00090	0.01	0	77	66.7	98.7	0.0082	6.29	18.1	
Fluorene	0.00616	0.0001	0.00030	0.01	0	61.6	45.8	103	0.00647	4.91	26.9	
Indeno(1,2,3-cd)pyrene	0.00374	0.0001	0.00030	0.005	0	74.8	69.5	102	0.00407	8.45	19	
Naphthalene	0.0322	0.001	0.00300	0.05	0	64.4	41.9	91.7	0.0327	1.54	30	
Phenanthrene	0.00372	0.0002	0.00060	0.005	0	74.4	58.9	96.2	0.00388	4.21	20	
Pyrene	0.00332	0.0001	0.00030	0.005	0	66.4	60.3	87.3	0.00354	6.41	18.9	
Surr: Terphenyl-d14	0.00812	0	0	0.01	0	81.2	74.1	109	0	0	20	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_DIOXANE_W

Sample ID: **MB-012605** SampType: **MBLK** TestCode: **SV_DIOXANE_W** Units: **mg/L** Prep Date: Run ID: **GC INST. I_050126A**
Client ID: **ZZZZZ** Batch ID: **R60390** TestNo: **SW8015** Analysis Date: **1/26/05** SeqNo: **916533**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.25	0.50									

Sample ID: **LCS-012605** SampType: **LCS** TestCode: **SV_DIOXANE_W** Units: **mg/L** Prep Date: Run ID: **GC INST. I_050126A**
Client ID: **ZZZZZ** Batch ID: **R60390** TestNo: **SW8015** Analysis Date: **1/26/05** SeqNo: **916534**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	50	0.25	0.50	50	0	100	80	120	0	0		

Sample ID: **05010564-002HMS** SampType: **MS** TestCode: **SV_DIOXANE_W** Units: **mg/L** Prep Date: Run ID: **GC INST. I_050126A**
Client ID: **EQB-01/052101** Batch ID: **R60390** TestNo: **SW8015** Analysis Date: **1/26/05** SeqNo: **916551**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	54	0.25	0.50	50	0	108	80	120	0	0		

Sample ID: **05010564-002HMSD** SampType: **MSD** TestCode: **SV_DIOXANE_W** Units: **mg/L** Prep Date: Run ID: **GC INST. I_050126A**
Client ID: **EQB-01/052101** Batch ID: **R60390** TestNo: **SW8015** Analysis Date: **1/26/05** SeqNo: **916552**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	52	0.25	0.50	50	0	104	80	120	54	3.76	15	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: **MBLK-A050130-1** SampType: **MBLK** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **1/30/05** Run ID: **5971 INST. A_050130A**
Client ID: **ZZZZZ** Batch ID: **23761** TestNo: **SW8260B** Analysis Date: **1/30/05** SeqNo: **918952**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1	5.0									
1,1-Dichloroethane	ND	1	5.0									
1,2-Dibromoethane	ND	1	5.0									
1,2-Dichlorobenzene	ND	1	5.0									
1,2-Dichloroethane	ND	1	5.0									
1,3-Dichlorobenzene	ND	1	5.0									
1,4-Dichlorobenzene	ND	1	5.0									
2-Butanone	ND	5	25.0									
Benzene	ND	0.5	2.0									
Carbon disulfide	ND	1	5.0									
Chlorobenzene	ND	1	5.0									
Chloroform	ND	1	5.0									
Ethylbenzene	ND	1	5.0									
Methyl tert-butyl ether	ND	0.5	2.0									
Styrene	ND	1	5.0									
Tetrachloroethene	ND	1	5.0									
Toluene	ND	1	5.0									
Trichloroethene	ND	1	5.0									
Xylenes, Total	ND	1	5.0									
Surr: 1,2-Dichloroethane-d4	46.8	0	0	50	0	93.6	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	47.3	0	0	50	0	94.6	81.1	113.3	0	0		
Surr: Dibromofluoromethane	48.9	0	0	50	0	97.8	88.9	121.2	0	0		
Surr: Toluene-d8	49.8	0	0	50	0	99.6	84.1	114.5	0	0		

Sample ID: **LCS-A050130-1** SampType: **LCS** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **1/30/05** Run ID: **5971 INST. A_050130A**
Client ID: **ZZZZZ** Batch ID: **23761** TestNo: **SW8260B** Analysis Date: **1/30/05** SeqNo: **918951**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	54.2	1	5.0	50	0	108.4	72.6	132	0	0		
1,2-Dibromoethane	56.2	1	5.0	50	0	112.4	70	130	0	0		
1,2-Dichlorobenzene	60	1	5.0	50	0	120	86.6	124	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: **LCS-A050130-1** SampType: **LCS** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **1/30/05** Run ID: **5971 INST. A_050130A**
Client ID: **ZZZZZ** Batch ID: **23761** TestNo: **SW8260B** Analysis Date: **1/30/05** SeqNo: **918951**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	53.5	1	5.0	50	0	107	83.5	128	0	0		
1,3-Dichlorobenzene	55.6	1	5.0	50	0	111.2	85.3	123	0	0		
1,4-Dichlorobenzene	53.6	1	5.0	50	0	107.2	87.7	122	0	0		
2-Butanone	41.8	5	25.0	50	0	83.6	72.8	129	0	0		
Benzene	54	0.5	2.0	50	0	108	77.4	120	0	0		
Chlorobenzene	56.1	1	5.0	50	0	112.2	87.2	117	0	0		
Chloroform	50	1	5.0	50	0	100	82.1	123	0	0		
Ethylbenzene	58.7	1	5.0	50	0	117.4	78.5	122	0	0		
Methyl tert-butyl ether	51.9	0.5	2.0	50	0	103.8	70	130	0	0		
Tetrachloroethene	43.4	1	5.0	50	0	86.8	66.7	117	0	0		
Toluene	55	1	5.0	50	0	110	81.6	118	0	0		
Trichloroethene	51.6	1	5.0	50	0	103.2	79.6	118	0	0		
Xylenes, Total	114	1	5.0	100	0	114	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	48.4	0	0	50	0	96.8	84.3	136	0	0		
Surr: 4-Bromofluorobenzene	49.2	0	0	50	0	98.4	81.1	113.3	0	0		
Surr: Dibromofluoromethane	50	0	0	50	0	100	88.9	121.2	0	0		
Surr: Toluene-d8	48.8	0	0	50	0	97.6	84.1	114.5	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

TEKLAB, INC

Date: *04-Feb-05*

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

BatchID: R60731

Sample ID: **MB-R60731** SampType: **MBLK** TestCode: **I_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **DR2000_050202C**
Client ID: **ZZZZZ** Batch ID: **R60731** TestNo: **SW9038** Analysis Date: **2/2/05** SeqNo: **923492**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	< 5	1	5									

Sample ID: **LCS-R60731** SampType: **LCS** TestCode: **I_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **DR2000_050202C**
Client ID: **ZZZZZ** Batch ID: **R60731** TestNo: **SW9038** Analysis Date: **2/2/05** SeqNo: **923493**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	22	1	5	20	0	110	90	110	0	0		

Sample ID: **05010527-007BMS** SampType: **MS** TestCode: **I_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **DR2000_050202C**
Client ID: **ZZZZZ** Batch ID: **R60731** TestNo: **SW9038** Analysis Date: **2/2/05** SeqNo: **923499**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	20	1	5	20	2	90	85	115	0	0		

Sample ID: **05010559-004BMS** SampType: **MS** TestCode: **I_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **DR2000_050202C**
Client ID: **ZZZZZ** Batch ID: **R60731** TestNo: **SW9038** Analysis Date: **2/2/05** SeqNo: **923506**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	21	1	5	20	2	95	85	115	0	0		

Sample ID: **05010562-004BMS** SampType: **MS** TestCode: **I_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **DR2000_050202C**
Client ID: **ZZZZZ** Batch ID: **R60731** TestNo: **SW9038** Analysis Date: **2/2/05** SeqNo: **923513**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	20	1	5	20	2	90	85	115	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

BatchID: R60731

Sample ID: 05010564-002BMS | SampType: MS | TestCode: I_SO4_S_AT | Units: mg/L | Prep Date: | Run ID: DR2000_050202C
Client ID: EQB-01/052101 | Batch ID: R60731 | TestNo: SW9038 | Analysis Date: 2/2/05 | SeqNo: 923517

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	72	2	10	40	42	75	85	115	0	0		S

Sample ID: 05010589-002BMS | SampType: MS | TestCode: I_SO4_S_AT | Units: mg/L | Prep Date: | Run ID: DR2000_050202C
Client ID: ZZZZZ | Batch ID: R60731 | TestNo: SW9038 | Analysis Date: 2/2/05 | SeqNo: 923534

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	21	1	5	20	2	95	85	115	0	0		

Sample ID: 05010664-002BMS | SampType: MS | TestCode: I_SO4_S_AT | Units: mg/L | Prep Date: | Run ID: DR2000_050202C
Client ID: ZZZZZ | Batch ID: R60731 | TestNo: SW9038 | Analysis Date: 2/2/05 | SeqNo: 923541

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	20	1	5	20	2	90	85	115	0	0		

Sample ID: 05010527-007BMSD | SampType: MSD | TestCode: I_SO4_S_AT | Units: mg/L | Prep Date: | Run ID: DR2000_050202C
Client ID: ZZZZZ | Batch ID: R60731 | TestNo: SW9038 | Analysis Date: 2/2/05 | SeqNo: 923503

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	21	1	5	20	2	95	85	115	20	4.87	10	

Sample ID: 05010559-004BMSD | SampType: MSD | TestCode: I_SO4_S_AT | Units: mg/L | Prep Date: | Run ID: DR2000_050202C
Client ID: ZZZZZ | Batch ID: R60731 | TestNo: SW9038 | Analysis Date: 2/2/05 | SeqNo: 923507

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	21	1	5	20	2	95	85	115	21	0	10	

Sample ID: 05010562-004BMSD | SampType: MSD | TestCode: I_SO4_S_AT | Units: mg/L | Prep Date: | Run ID: DR2000_050202C
Client ID: ZZZZZ | Batch ID: R60731 | TestNo: SW9038 | Analysis Date: 2/2/05 | SeqNo: 923514

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qual: ND - Not Detected at the Reporting Limit | S - Spike Recovery outside accepted recovery limits | NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits | B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05010564
Project: Sentinel Wells/ 15-03095-15.004

ANALYTICAL QC SUMMARY REPORT

BatchID: R60731

Sample ID: **05010562-004BMSD** SampType: **MSD** TestCode: **I_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **DR2000_050202C**
Client ID: **ZZZZZ** Batch ID: **R60731** TestNo: **SW9038** Analysis Date: **2/2/05** SeqNo: **923514**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	21	1	5	20	2	95	85	115	20	4.89	10	

Sample ID: **05010589-002BMSD** SampType: **MSD** TestCode: **I_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **DR2000_050202C**
Client ID: **ZZZZZ** Batch ID: **R60731** TestNo: **SW9038** Analysis Date: **2/2/05** SeqNo: **923535**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	19	1	5	20	2	85	85	115	21	9.95	10	

Sample ID: **05010664-002BMSD** SampType: **MSD** TestCode: **I_SO4_S_AT** Units: **mg/L** Prep Date: Run ID: **DR2000_050202C**
Client ID: **ZZZZZ** Batch ID: **R60731** TestNo: **SW9038** Analysis Date: **2/2/05** SeqNo: **923542**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate, Turbidimetric	20	1	5	20	2	90	85	115	20	0	10	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CHAIN OF CUSTODY

pg. 1 of 1 Work Order # 05010564

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: Clayton Group Services
Address: 3140 Finley RD
City / State / Zip: Downers Grove, IL 60561
Contact: K. Comine Phone: 630-795-3200
E-Mail: KComine@Claytongrp.com Fax: 630-795-1130

Are the samples chilled? ☐ NO ☒ YES (Ice or Blue Ice)
Cooler Temperature: 2.8 °C HNO_3 added to 29(F), and NaOH added to 29. FAN 1/24/05 Ø headspace
Preserved in: ☒ Lab ☐ Field

Comments:
* See attached tables
U = Unfiltered sample metals only
F = Filtered sample metals only

Are these samples known to be involved in litigation? ☐Yes ☐No
Are these samples known to be hazardous? ☐Yes ☐No
Are there any required reporting limits to be met on the requested analysis?
☐Yes ☐No If yes please provide limits in comment section.

Project Name / Number: Sentinel Wells Hartford Work Group 15-03095.15-004
Sample Collector's Name: Mike Kasminski, Bret Hoheman
Requested Due Date: Standard
Billing Instructions PO#: 15-03095.15-004 Bill Clayton

Lab Use Only	Sample Identification	Date/Time Sampled	UNPRES	HNO_3	NaOH	H_2SO_4	HCL	MeOH	$NaHSO_4$	Other	Water	Drinking Water	Soil	Sludge	Sp. Waste	Skinner list	Metals (see skinner list)	VOCs	General chemistry parameters
05010564-001	HMW-29/052101	1/21/05 1710	5		1	1	2			1	X					X			X
	HMW-29U/052101	1/21/05 1710		1							X						X		
	HMW-29F/052101	1/21/05 1710		1							X						X		
-002	EQB-01/052101	1/21/05 1810	5		1	1	2			1	X					X			X
	EQB-01U/052101	1/21/05 1810		1							X						X		
	EQB-01F/052101	1/21/05 1810		1							X						X		
-003	TB-01/052101	1/21/05 —					2				X							X	

Relinquished By	Date / Time	Received By	Date / Time
Hanle Mendyl 1/24/05	1/24/05 0919	[signature]	1/24/05 0919
[signature]	1/24/05 1020	Elizabeth A. Weber	1/24/05 1020

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE – CLIENT YELLOW – LAB PINK - SAMPLER

TEKLAB, INC

Sample Receipt Checklist

Client Name: CLAYTON GROUP
Work Order Number 05010564
QC Level LVL3R+

Date and Time Received: 1/24/05 10:20:00 AM
Date Due: 1/31/05
Received by: EAW

Checklist completed by: Heather Barnes 1/24/05 (Signature / Date)

Reviewed by: SAO 1/24/05 (Initials / Date)

Matrix: Carrier name: Marc Giedeman

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☐	No ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? yes Checked by EAW

Any No and/or NA response must be detailed in the Case Narrative or on the COC.

Email PDF?	Yes ☑	No ☐	Completed:	Initials / Date
Email EDD?	Yes ☑	No ☐	Completed:	Initials / Date
Fax?	Yes ☐	No ☑	Completed:	Initials / Date

Client contacted: _____ Date contacted: 1/24/05 Person contacted: Ken Comine

Contacted by: HAB Regarding: _____

Comments: per Ken, continue w/ pH analysis out of hold time.

05010564

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

February 07, 2005

Ken Comire
Clayton Group Services
3140 Finley Road
Downers Grove, IL 60515
TEL: (630) 795-3203
FAX:

ACCREDITED IN ACCORDANCE WITH nelac

NELAP Accredited #100226

RE: Hartford/15-03095.14.007

OrderNo. 05020138

Dear Ken Comire:

TEKLAB, INC received 3 samples on 2/4/05 11:25:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Hartford/15-03095.14.007
LabOrder: 05020138
Report Date: February 07, 2005

REPORT CONTENTS

This reporting package includes the following:

Analysis Results (this document)	6	*pages*
Chain of Custody	1	*pages*
Associated Information	1	*pages*
Sample Summary	1	*pages*
Dates Report	1	*pages*
QC Report	2	*pages*
Sub Contracted Lab Report	NA	*pages*

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Hartford/15-03095.14.007
LabOrder: 05020138
Report Date: February 07, 2005

CASE NARRATIVE

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	***** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Hartford/15-03095.14.007
WorkOrder:	05020138	**Client Sample ID:**	HMW-25/050203
Lab ID:	05020138-001	**Collection Date:**	2/3/05 5:44:00 PM
Report Date:	07-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0	J	**0.5**	µg/L	1	2/6/05 10:59:00 AM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	2/6/05 10:59:00 AM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	2/6/05 10:59:00 AM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	2/6/05 10:59:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**95.0**	%REC	1	2/6/05 10:59:00 AM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**95.6**	%REC	1	2/6/05 10:59:00 AM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**98.2**	%REC	1	2/6/05 10:59:00 AM	GEK
Surr: Toluene-d8		84.1-114.5		**99.2**	%REC	1	2/6/05 10:59:00 AM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Hartford/15-03095.14.007
WorkOrder:	05020138	**Client Sample ID:**	EQ-005/050203
Lab ID:	05020138-002	**Collection Date:**	2/3/05 6:20:00 PM
Report Date:	07-Feb-05	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	2/6/05 10:28:00 AM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	2/6/05 10:28:00 AM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	2/6/05 10:28:00 AM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	2/6/05 10:28:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**93.6**	%REC	1	2/6/05 10:28:00 AM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**96.8**	%REC	1	2/6/05 10:28:00 AM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**94.8**	%REC	1	2/6/05 10:28:00 AM	GEK
Surr: Toluene-d8		84.1-114.5		**100**	%REC	1	2/6/05 10:28:00 AM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Hartford/15-03095.14.007
WorkOrder:	05020138	**Client Sample ID:**	TB-015/050203
Lab ID:	05020138-003	**Collection Date:**	1/28/05 9:45:00 AM
Report Date:	07-Feb-05	**Matrix:**	TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	2/6/05 9:57:00 AM	GEK
Toluene	NELAP	5.0		ND	µg/L	1	2/6/05 9:57:00 AM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	2/6/05 9:57:00 AM	GEK
Xylenes, Total	NELAP	5.0		ND	µg/L	1	2/6/05 9:57:00 AM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		93.6	%REC	1	2/6/05 9:57:00 AM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		95.8	%REC	1	2/6/05 9:57:00 AM	GEK
Surr: Dibromofluoromethane		88.9-121.2		97.2	%REC	1	2/6/05 9:57:00 AM	GEK
Surr: Toluene-d8		84.1-114.5		97.4	%REC	1	2/6/05 9:57:00 AM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

WORK ORDER SAMPLE SUMMARY

Client: Clayton Group Services
Project: Hartford/15-03095.14.007
Lab Order: 05020138
Date Received: 2/4/05

Date: *07-Feb-05*

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
05020138-001A	HMW-25/050203		2/3/05 5:44:00 PM
05020138-002A	EQ-005/050203		2/3/05 6:20:00 PM
05020138-003A	TB-015/050203		1/28/05 9:45:00 AM

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Hartford/15-03095.14.007
Lab Order: 05020138
Date Received: 2/4/05 11:25:00 AM

DATES REPORT

Date: *07-Feb-05*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
05020138-001A	HMW-25/050203	2/3/05	Groundwater	BTEX, Aqueous, by GC/MS		2/6/05	2/6/05
				BTEX, Aqueous, by GC/MS		2/6/05	2/6/05
				BTEX, Aqueous, by GC/MS		2/6/05	2/6/05
05020138-002A	EQ-005/050203		Aqueous	BTEX, Aqueous, by GC/MS		2/6/05	2/6/05
05020138-003A	TB-015/050203	1/28/05	Trip Blank	BTEX, Aqueous, by GC/MS		2/6/05	2/6/05

TEKLAB, INC

Date: *07-Feb-05*

CLIENT: Clayton Group Services
Work Order: 05020138
Project: Hartford/15-03095.14.007

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCS-A050206-1** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/6/05** Run ID: **5971 INST. A_050206B**
Client ID: **ZZZZZ** Batch ID: **23870** TestNo: **SW8260B** Analysis Date: **2/6/05** SeqNo: **924819**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.8	0.5	2.0	50	0	91.6	77.4	120	0	0		
Toluene	45.6	1	5.0	50	0	91.2	81.6	118	0	0		
Ethylbenzene	48.7	1	5.0	50	0	97.4	78.5	122	0	0		
Xylenes, Total	99.1	1	5.0	100	0	99.1	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	47.8	0	0	50	0	95.6	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49	0	0	50	0	98	81.1	113.3	0	0		
Surr: Dibromofluoromethane	49.2	0	0	50	0	98.4	88.9	121.2	0	0		
Surr: Toluene-d8	48.2	0	0	50	0	96.4	84.1	114.5	0	0		

Sample ID: **MBLK-A050206-1** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/6/05** Run ID: **5971 INST. A_050206B**
Client ID: **ZZZZZ** Batch ID: **23870** TestNo: **SW8260B** Analysis Date: **2/6/05** SeqNo: **924820**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5	2.0									
Toluene	ND	1	5.0									
Ethylbenzene	ND	1	5.0									
Xylenes, Total	ND	1	5.0									
Surr: 1,2-Dichloroethane-d4	46	0	0	50	0	92	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	47.5	0	0	50	0	95	81.1	113.3	0	0		
Surr: Dibromofluoromethane	47.2	0	0	50	0	94.4	88.9	121.2	0	0		
Surr: Toluene-d8	49.1	0	0	50	0	98.2	84.1	114.5	0	0		

Sample ID: **05020138-001AMS** SampType: **MS** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/6/05** Run ID: **5971 INST. A_050206B**
Client ID: **HMW-25/050203** Batch ID: **23870** TestNo: **SW8260B** Analysis Date: **2/6/05** SeqNo: **924824**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	52	0.5	2.0	56	0.5	92	70.8	122	0	0		
Toluene	57.8	1	5.0	56	0	103.2	77.2	117	0	0		
Ethylbenzene	56.6	1	5.0	56	0	101.1	81	113	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05020138
Project: Hartford/15-03095.14.007

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **05020138-001AMS** SampType: **MS** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/6/05** Run ID: **5971 INST. A_050206B**
Client ID: **HMW-25/050203** Batch ID: **23870** TestNo: **SW8260B** Analysis Date: **2/6/05** SeqNo: **924824**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	116	1	5.0	112	0	103.6	80.3	116	0	0		
Surr: 1,2-Dichloroethane-d4	45.9	0	0	50	0	91.8	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	51.4	0	0	50	0	102.8	81.1	113.3	0	0		
Surr: Dibromofluoromethane	47.2	0	0	50	0	94.4	88.9	121.2	0	0		
Surr: Toluene-d8	49.5	0	0	50	0	99	84.1	114.5	0	0		

Sample ID: **05020138-001AMSD** SampType: **MSD** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/6/05** Run ID: **5971 INST. A_050206B**
Client ID: **HMW-25/050203** Batch ID: **23870** TestNo: **SW8260B** Analysis Date: **2/6/05** SeqNo: **924825**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.6	0.5	2.0	56	0.5	87.7	70.8	122	52	4.72	15	
Toluene	55.5	1	5.0	56	0	99.1	77.2	117	57.8	4.06	15	
Ethylbenzene	54.4	1	5.0	56	0	97.1	81	113	56.6	3.97	15	
Xylenes, Total	111	1	5.0	112	0	99.1	80.3	116	116	4.40	15	
Surr: 1,2-Dichloroethane-d4	45.9	0	0	50	0	91.8	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	50.5	0	0	50	0	101	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	48.1	0	0	50	0	96.2	88.9	121.2	0	0	0	
Surr: Toluene-d8	48.2	0	0	50	0	96.4	84.1	114.5	0	0	0	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

05020138

Clayton GROUP SERVICES

REQUEST FOR LABORATORY SERVICES

IMPORTANT
Date Results Requested: Standard
Rush Charges Authorized? ☐ Yes ☒ No
☐ Phone or ☒ Fax Results

Page 1 of 1
Laboratory Project No.

REPORT RESULTS TO
Name: Ken Comire
Company: Clayton Group Serv.
Mailing Address: 3140 Finley Rd
City, State, Zip: Downers Grove IL 60515
Telephone No.: 630-795-3200 Fax No.: 630-795-1130
Client Job No.: 15-03095.14-007

SEND INVOICE TO
Purchase Order No.: Bill to Clayton
Name:
Company:
Dept.:
Address:
City, State, Zip:

Project ID:
Send report and invoice separately
*24 HR TAT

ANALYSIS REQUESTED

1 DAY

DATE SAMPLED	TIME SAMPLED	WELL/BORING NO. (SITE ID)	SAMPLE ID	MATRIX / MEDIA	Number of Containers	BETX							FOR LAB USE ONLY
2/3/05	1744	HMW-25	HMW-25/050203	W	2	✓							05620138-001
2/3/05	1820	—	EQ-005/050203	W	2	✓							-002
1/28/05 ~~2/28/05~~	0145	—	TB-015/050203	W	1	✓							-003

E-MAILED 2/7/05

CHAIN OF CUSTODY
Collected by: NORMAN BOLIVAR (Print)
Collector's Signature: [signature] 2/4/05
Relinquished by: [signature] Date/Time: 2/4/05 0015
Received by: [signature] Date/Time: 2/5/05 10:20 AM
Relinquished by: [signature] Date/Time: 2/4/05 1125
Received by: [signature] Date/Time: 2/4/05 1125
Method of Shipment:
Received at Lab by: Date/Time:
Authorized by: _____ Date: _____
(Client Signature Must Accompany Request)
Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain)
iced 1.4°C Headspace

DISTRIBUTION:
White - Laboratory
Yellow - Clayton Copy

CHAIN OF CUSTODY

TEKLAB, INC

Sample Receipt Checklist

Client Name	CLAYTON GROUP	Date and Time Received:	2/4/05 11:25:00 AM
Work Order Number	05020138	Date Due:	2/7/05
QC Level	LVL3R+	Received by:	SAO

Checklist completed by Heather Barnes 2/4/05 (Signature / Date)

Reviewed by: SAO 2/4/05 (Initials / Date)

Matrix: Carrier name: BJ Kostelac

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA response must be detailed in the Case Narrative or on the COC.

Email PDF?	Yes ☑	No ☐	Completed:	Initials / Date
Email EDD?	Yes ☑	No ☐	Completed:	Initials / Date
Fax?	Yes ☐	No ☑	Completed:	Initials / Date

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

05020138

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

February 14, 2005

Ken Comire
Clayton Group Services
3140 Finley Road
Downers Grove, IL 60515
TEL: (630) 795-3203
FAX:

ACCREDITED IN ACCORDANCE WITH nelac

NELAP Accredited #100226

RE: Hartford/15-03095.14.007

OrderNo. 05020176

Dear Ken Comire:

TEKLAB, INC received 3 samples on 2/7/05 12:00:00 PM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Hartford/15-03095.14.007
LabOrder: 05020176
Report Date: February 14, 2005

REPORT CONTENTS

This reporting package includes the following:

Analysis Results (this document)	6	*pages*
Chain of Custody	1	*pages*
Associated Information	1	*pages*
Sample Summary	1	*pages*
Dates Report	1	*pages*
QC Report	5	*pages*
Sub Contracted Lab Report	NA	*pages*

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Hartford/15-03095.14.007
LabOrder: 05020176
Report Date: February 14, 2005

CASE NARRATIVE

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	***** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Hartford/15-03095.14.007
WorkOrder:	05020176	**Client Sample ID:**	HMW-29/050206
Lab ID:	05020176-001	**Collection Date:**	2/6/05 11:20:00 AM
Report Date:	14-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	2/12/05 7:40:00 PM	HLR
Toluene	NELAP	5.0		ND	µg/L	1	2/12/05 7:40:00 PM	HLR
Ethylbenzene	NELAP	5.0		ND	µg/L	1	2/12/05 7:40:00 PM	HLR
Xylenes, Total	NELAP	5.0		ND	µg/L	1	2/12/05 7:40:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		84.3-135		91.4	%REC	1	2/12/05 7:40:00 PM	HLR
Surr: 4-Bromofluorobenzene		81.1-113.3		99.6	%REC	1	2/12/05 7:40:00 PM	HLR
Surr: Dibromofluoromethane		88.9-121.2		97.6	%REC	1	2/12/05 7:40:00 PM	HLR
Surr: Toluene-d8		84.1-114.5		100	%REC	1	2/12/05 7:40:00 PM	HLR

Sample Narrative

SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS

MSD Ethylbenzene recovery exceeded QC limits.

MS Ethylbenzene recovery exceeded QC limits.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Hartford/15-03095.14.007
WorkOrder:	05020176	**Client Sample ID:**	EQ-006/050206
Lab ID:	05020176-002	**Collection Date:**	2/6/05 10:35:00 AM
Report Date:	14-Feb-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	2/12/05 10:52:00 AM	HLR
Toluene	NELAP	5.0		**ND**	µg/L	1	2/12/05 10:52:00 AM	HLR
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	2/12/05 10:52:00 AM	HLR
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	2/12/05 10:52:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		84.3-135		**93.4**	%REC	1	2/12/05 10:52:00 AM	HLR
Surr: 4-Bromofluorobenzene		81.1-113.3		**97.0**	%REC	1	2/12/05 10:52:00 AM	HLR
Surr: Dibromofluoromethane		88.9-121.2		**97.2**	%REC	1	2/12/05 10:52:00 AM	HLR
Surr: Toluene-d8		84.1-114.5		**101**	%REC	1	2/12/05 10:52:00 AM	HLR

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Hartford/15-03095.14.007
WorkOrder:	05020176	**Client Sample ID:**	TB-018/050206
Lab ID:	05020176-003	**Collection Date:**	2/4/05 4:00:00 PM
Report Date:	14-Feb-05	**Matrix:**	TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	2/12/05 12:26:00 AM	HLR
Toluene	NELAP	5.0		**ND**	µg/L	1	2/12/05 12:26:00 AM	HLR
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	2/12/05 12:26:00 AM	HLR
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	2/12/05 12:26:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		84.3-135		**95.8**	%REC	1	2/12/05 12:26:00 AM	HLR
Surr: 4-Bromofluorobenzene		81.1-113.3		**97.0**	%REC	1	2/12/05 12:26:00 AM	HLR
Surr: Dibromofluoromethane		88.9-121.2		**102**	%REC	1	2/12/05 12:26:00 AM	HLR
Surr: Toluene-d8		84.1-114.5		**99.6**	%REC	1	2/12/05 12:26:00 AM	HLR

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

WORK ORDER SAMPLE SUMMARY

Client: Clayton Group Services
Project: Hartford/15-03095.14.007
Lab Order: 05020176
Date Received: 2/7/05

Date: *14-Feb-05*

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
05020176-001A	HMW-29/050206		2/6/05 11:20:00 AM
05020176-002A	EQ-006/050206		2/6/05 10:35:00 AM
05020176-003A	TB-018/050206		2/4/05 4:00:00 PM

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Hartford/15-03095.14.007
Lab Order: 05020176
Date Received: 2/7/05 12:00:00 PM

DATES REPORT

Date: *14-Feb-05*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
05020176-001A	HMW-29/050206	2/6/05	Groundwater	BTEX, Aqueous, by GC/MS		2/12/05	2/12/05
				BTEX, Aqueous, by GC/MS		2/12/05	2/12/05
				BTEX, Aqueous, by GC/MS		2/12/05	2/12/05
				BTEX, Aqueous, by GC/MS		2/11/05	2/12/05
				BTEX, Aqueous, by GC/MS		2/11/05	2/12/05
05020176-002A	EQ-006/050206			BTEX, Aqueous, by GC/MS		2/11/05	2/12/05
05020176-003A	TB-018/050206	2/4/05	Trip Blank	BTEX, Aqueous, by GC/MS		2/11/05	2/12/05

TEKLAB, INC

Date: *14-Feb-05*

CLIENT: Clayton Group Services
Work Order: 05020176
Project: Hartford/15-03095.14.007

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCS-G050211-1** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/11/05** Run ID: **5972 INST. G_050211A**
Client ID: **ZZZZZ** Batch ID: **23995** TestNo: **SW8260B** Analysis Date: **2/11/05** SeqNo: **930288**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	53.6	0.5	2.0	50	0	107.2	77.4	120	0	0		
Toluene	52.8	1	5.0	50	0	105.6	81.6	118	0	0		
Ethylbenzene	56.2	1	5.0	50	0	112.4	78.5	122	0	0		
Xylenes, Total	109	1	5.0	100	0	109	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	49.6	0	0	50	0	99.2	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49.3	0	0	50	0	98.6	81.1	113.3	0	0		
Surr: Dibromofluoromethane	50.4	0	0	50	0	100.8	88.9	121.2	0	0		
Surr: Toluene-d8	50.6	0	0	50	0	101.2	84.1	114.5	0	0		

Sample ID: **LCSD-G050211-1** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/11/05** Run ID: **5972 INST. G_050211A**
Client ID: **ZZZZZ** Batch ID: **23995** TestNo: **SW8260B** Analysis Date: **2/11/05** SeqNo: **930289**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	55.4	0.5	2.0	50	0	110.8	77.4	120	53.6	3.30	0	
Toluene	55	1	5.0	50	0	110	81.6	118	52.8	4.08	0	
Ethylbenzene	60	1	5.0	50	0	120	78.5	122	56.2	6.54	0	
Xylenes, Total	118	1	5.0	100	0	118	80.7	122	109	7.91	0	
Surr: 1,2-Dichloroethane-d4	48.8	0	0	50	0	97.6	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	49.6	0	0	50	0	99.2	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	50.3	0	0	50	0	100.6	88.9	121.2	0	0	0	
Surr: Toluene-d8	49.5	0	0	50	0	99	84.1	114.5	0	0	0	

Sample ID: **LCS-G050211-2** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/11/05** Run ID: **5972 INST. G_050211C**
Client ID: **ZZZZZ** Batch ID: **23996** TestNo: **SW8260B** Analysis Date: **2/12/05** SeqNo: **930325**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	53.3	0.5	2.0	50	0	106.6	77.4	120	0	0		
Toluene	53.7	1	5.0	50	0	107.4	81.6	118	0	0		
Ethylbenzene	56.1	1	5.0	50	0	112.2	78.5	122	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05020176
Project: Hartford/15-03095.14.007

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCS-G050211-2** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/11/05** Run ID: **5972 INST. G_050211C**
Client ID: **ZZZZZ** Batch ID: **23996** TestNo: **SW8260B** Analysis Date: **2/12/05** SeqNo: **930325**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	112	1	5.0	100	0	112	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	49.4	0	0	50	0	98.8	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	48.4	0	0	50	0	96.8	81.1	113.3	0	0		
Surr: Dibromofluoromethane	50.6	0	0	50	0	101.2	88.9	121.2	0	0		
Surr: Toluene-d8	49.2	0	0	50	0	98.4	84.1	114.5	0	0		

Sample ID: **LCSD-G050211-2** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/11/05** Run ID: **5972 INST. G_050211C**
Client ID: **ZZZZZ** Batch ID: **23996** TestNo: **SW8260B** Analysis Date: **2/12/05** SeqNo: **930326**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	54.2	0.5	2.0	50	0	108.4	77.4	120	53.3	1.67	0	
Toluene	53.7	1	5.0	50	0	107.4	81.6	118	53.7	0	0	
Ethylbenzene	57.6	1	5.0	50	0	115.2	78.5	122	56.1	2.64	0	
Xylenes, Total	109	1	5.0	100	0	109	80.7	122	112	2.71	0	
Surr: 1,2-Dichloroethane-d4	50.1	0	0	50	0	100.2	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	48.6	0	0	50	0	97.2	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	51.5	0	0	50	0	103	88.9	121.2	0	0	0	
Surr: Toluene-d8	50	0	0	50	0	100	84.1	114.5	0	0	0	

Sample ID: **LCS-G050212-1** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/12/05** Run ID: **5972 INST. G_050212A**
Client ID: **ZZZZZ** Batch ID: **24001** TestNo: **SW8260B** Analysis Date: **2/12/05** SeqNo: **930415**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	54.5	0.5	2.0	50	0	109	77.4	120	0	0		
Toluene	54.3	1	5.0	50	0	108.6	81.6	118	0	0		
Ethylbenzene	58	1	5.0	50	0	116	78.5	122	0	0		
Xylenes, Total	113	1	5.0	100	0	113	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	49.2	0	0	50	0	98.4	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49.5	0	0	50	0	99	81.1	113.3	0	0		
Surr: Dibromofluoromethane	50.6	0	0	50	0	101.2	88.9	121.2	0	0		
Surr: Toluene-d8	49.6	0	0	50	0	99.2	84.1	114.5	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05020176
Project: Hartford/15-03095.14.007

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCSD-G050212-1** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/12/05** Run ID: **5972 INST. G_050212A**
Client ID: **ZZZZZ** Batch ID: **24001** TestNo: **SW8260B** Analysis Date: **2/12/05** SeqNo: **930416**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	52.5	0.5	2.0	50	0	105	77.4	120	54.5	3.74	0	
Toluene	53	1	5.0	50	0	106	81.6	118	54.3	2.42	0	
Ethylbenzene	58.1	1	5.0	50	0	116.2	78.5	122	58	0.172	0	
Xylenes, Total	111	1	5.0	100	0	111	80.7	122	113	1.79	0	
Surr: 1,2-Dichloroethane-d4	48.9	0	0	50	0	97.8	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	49	0	0	50	0	98	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	50.9	0	0	50	0	101.8	88.9	121.2	0	0	0	
Surr: Toluene-d8	49.1	0	0	50	0	98.2	84.1	114.5	0	0	0	

Sample ID: **MBLK-G050211-1** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/11/05** Run ID: **5972 INST. G_050211A**
Client ID: **ZZZZZ** Batch ID: **23995** TestNo: **SW8260B** Analysis Date: **2/11/05** SeqNo: **930291**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5	2.0									
Toluene	ND	1	5.0									
Ethylbenzene	ND	1	5.0									
Xylenes, Total	ND	1	5.0									
Surr: 1,2-Dichloroethane-d4	48	0	0	50	0	96	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	48.9	0	0	50	0	97.8	81.1	113.3	0	0		
Surr: Dibromofluoromethane	51	0	0	50	0	102	88.9	121.2	0	0		
Surr: Toluene-d8	50	0	0	50	0	100	84.1	114.5	0	0		

Sample ID: **MBLK-G050211-2** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/11/05** Run ID: **5972 INST. G_050211C**
Client ID: **ZZZZZ** Batch ID: **23996** TestNo: **SW8260B** Analysis Date: **2/12/05** SeqNo: **930327**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5	2.0									
Toluene	ND	1	5.0									
Ethylbenzene	ND	1	5.0									
Xylenes, Total	ND	1	5.0									
Surr: 1,2-Dichloroethane-d4	45.9	0	0	50	0	91.8	84.3	135	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05020176
Project: Hartford/15-03095.14.007

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **MBLK-G050211-2** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/11/05** Run ID: **5972 INST. G_050211C**
Client ID: **ZZZZZ** Batch ID: **23996** TestNo: **SW8260B** Analysis Date: **2/12/05** SeqNo: **930327**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	47.4	0	0	50	0	94.8	81.1	113.3	0	0		
Surr: Dibromofluoromethane	51.8	0	0	50	0	103.6	88.9	121.2	0	0		
Surr: Toluene-d8	49.4	0	0	50	0	98.8	84.1	114.5	0	0		

Sample ID: **MBLK-G050212-1** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/12/05** Run ID: **5972 INST. G_050212A**
Client ID: **ZZZZZ** Batch ID: **24001** TestNo: **SW8260B** Analysis Date: **2/12/05** SeqNo: **930417**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5	2.0									
Toluene	ND	1	5.0									
Ethylbenzene	ND	1	5.0									
Xylenes, Total	ND	1	5.0									
Surr: 1,2-Dichloroethane-d4	47.1	0	0	50	0	94.2	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49	0	0	50	0	98	81.1	113.3	0	0		
Surr: Dibromofluoromethane	50.8	0	0	50	0	101.6	88.9	121.2	0	0		
Surr: Toluene-d8	50.3	0	0	50	0	100.6	84.1	114.5	0	0		

Sample ID: **05020176-001AMS** SampType: **MS** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/12/05** Run ID: **5972 INST. G_050212A**
Client ID: **HMW-29/050206** Batch ID: **24001** TestNo: **SW8260B** Analysis Date: **2/12/05** SeqNo: **930419**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43.9	0.5	2.0	40	0	109.8	70.8	122	0	0		
Toluene	44.8	1	5.0	40	0	112	77.2	117	0	0		
Ethylbenzene	46.1	1	5.0	40	0	115.2	81	113	0	0		S
Xylenes, Total	90.7	1	5.0	80	0	113.4	80.3	116	0	0		
Surr: 1,2-Dichloroethane-d4	48.4	0	0	50	0	96.8	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	50.1	0	0	50	0	100.2	81.1	113.3	0	0		
Surr: Dibromofluoromethane	50.4	0	0	50	0	100.8	88.9	121.2	0	0		
Surr: Toluene-d8	49.5	0	0	50	0	99	84.1	114.5	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05020176
Project: Hartford/15-03095.14.007

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **05020176-001AMSD** SampType: **MSD** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **2/12/05** Run ID: **5972 INST. G_050212A**
Client ID: **HMW-29/050206** Batch ID: **24001** TestNo: **SW8260B** Analysis Date: **2/12/05** SeqNo: **930420**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	44	0.5	2.0	40	0	110	70.8	122	43.9	0.227	15	
Toluene	45.3	1	5.0	40	0	113.3	77.2	117	44.8	1.11	15	
Ethylbenzene	46.4	1	5.0	40	0	116	81	113	46.1	0.649	15	S
Xylenes, Total	90	1	5.0	80	0	112.5	80.3	116	90.7	0.775	15	
Surr: 1,2-Dichloroethane-d4	47	0	0	50	0	94	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	48.9	0	0	50	0	97.8	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	51	0	0	50	0	102	88.9	121.2	0	0	0	
Surr: Toluene-d8	50.5	0	0	50	0	101	84.1	114.5	0	0	0	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

05020176

Clayton GROUP SERVICES

REQUEST FOR LABORATORY SERVICES

IMPORTANT
Date Results Requested: standard
Rush Charges Authorized? ☐ Yes ☒ No
☐ Phone or ☒ Fax Results

Page 1 of 1

Laboratory Project No.:

REPORT RESULTS TO
Name: Ken Comire
Company: Clayton Group Serv.
Mailing Address: 3140 Finley Road
City, State, Zip: Downers Grove IL 60515
Telephone No.: 630-795-3200 Fax No.: 630-795-1130

Client Job No.: 15-03095.14-003
Dept.:

SEND INVOICE TO
Purchase Order No.:
Name: Bill Ro Clayton
Company:
Dept.:
Address:
City, State, Zip:

Project ID: 15-03095.14-007

Please invoice and report separately

ANALYSIS REQUESTED

DATE SAMPLED	TIME SAMPLED	WELL/BORING NO. (SITE ID)	SAMPLE ID	MATRIX / MEDIA	Number of Containers	BTEX							FOR LAB USE ONLY
2/6/05	1120	HMW-29	HMW-29/050206	W	3	X							05020176-001
2/6/05	1035	—	EQ-006/050206	W	3	X							-002
2/4/05	1600	Trip Blank	TB-018/050206	W	1	X							-003

CHAIN OF CUSTODY
Collected by: Darren W. Lamsma (Print) Collector's Signature: [signature]
Relinquished by: [signature] Date/Time: 2/7/05 0800 Received by: B. Koster Date/Time: 2/7/5 11:00
Relinquished by: B. Koster Date/Time: 2/7/5 12:00pm Received by: Elizabeth A. Weber Date/Time: 2/7/05 1220
Method of Shipment: Received at Lab by: Date/Time:

Authorized by: _____ Date: _____
(Client Signature Must Accompany Request)

Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain)
iced 0.2°C Pheadspace

DISTRIBUTION:
White - Laboratory
Yellow - Clayton Copy

CHAIN OF CUSTODY

TEKLAB, INC

Sample Receipt Checklist

Client Name	CLAYTON GROUP	Date and Time Received:	2/7/05 12:00:00 PM
Work Order Number	05020176	Date Due:	2/14/05
QC Level	LVL3R+	Received by:	EAW

Checklist completed by Heather Barnes 2/7/05 (Signature / Date) Reviewed by: SKO 2/7/05 (Initials / Date)

Matrix: Carrier name: BJ Kostelac

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA response must be detailed in the Case Narrative or on the COC.

Email PDF?	Yes ☑	No ☐	Completed:	Initials / Date
Email EDD?	Yes ☑	No ☐	Completed:	Initials / Date
Fax?	Yes ☐	No ☑	Completed:	Initials / Date

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

05020176

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

March 07, 2005

Ken Comire
Clayton Group Services
3140 Finley Road
Downers Grove, IL 60515
TEL: (630) 795-3203
FAX:

ACCREDITED IN ACCORDANCE WITH nelac

NELAP Accredited #100226

RE: 15-03095.15-004 Sentinel Wells

OrderNo. 05030107

Dear Ken Comire:

TEKLAB, INC received 2 samples on 3/3/05 11:15:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: 15-03095.15-004 Sentinel Wells
LabOrder: 05030107
Report Date: March 07, 2005

REPORT CONTENTS

This reporting package includes the following:

Analysis Results (this document) . . . . . 7 *pages*

Chain of Custody . . . . . 1 *pages*

Associated Information . . . . . 1 *pages*

Sample Summary . . . . . 1 *pages*

Dates Report . . . . . 1 *pages*

QC Report . . . . . 7 *pages*

Sub Contracted Lab Report . . . . . NA *pages*

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: 15-03095.15-004 Sentinel Wells
LabOrder: 05030107
Report Date: March 07, 2005

CASE NARRATIVE

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	***** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	15-03095.15-004 Sentinel Wells
WorkOrder:	05030107	**Client Sample ID:**	Trip Blank
Lab ID:	05030107-001	**Collection Date:**	2/28/05 4:50:00 PM
Report Date:	07-Mar-05	**Matrix:**	TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
2-Butanone	NELAP	25.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
2-Hexanone	NELAP	25.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
2-Nitropropane	NELAP	50.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Acetone	NELAP	25.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Acetonitrile	NELAP	50.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Acrolein	NELAP	100		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Acrylonitrile	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 05030107
Lab ID: 05030107-001
Report Date: 07-Mar-05

Client Project: 15-03095.15-004 Sentinel Wells
Client Sample ID: Trip Blank
Collection Date: 2/28/05 4:50:00 PM
Matrix: TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Allyl chloride	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Benzene	NELAP	2.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Bromobenzene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Bromochloromethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Bromoform	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Bromomethane	NELAP	10		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Butyl acetate		25.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Carbon disulfide	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Chlorobenzene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Chloroethane	NELAP	10		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Chloroform	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Chloromethane	NELAP	10		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Chloroprene	NELAP	20.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Cyclohexanone		50.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Dibromomethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Dichlorodifluoromethane	NELAP	10		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Ethyl acetate	NELAP	10		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Ethyl ether	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Ethylbenzene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Heptane		20.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Hexachloroethane	NELAP	10		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Hexane		20.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Iodomethane	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Methacrylonitrile	NELAP	10		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	3/4/05 3:54:00 PM	GEK
Methylacrylate		10		ND	µg/L	1	3/4/05 3:54:00 PM	GEK

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 05030107
Lab ID: 05030107-001
Report Date: 07-Mar-05

Client Project: 15-03095.15-004 Sentinel Wells
Client Sample ID: Trip Blank
Collection Date: 2/28/05 4:50:00 PM
Matrix: TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Methylene chloride	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
n-Butylbenzene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
n-Propylbenzene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Naphthalene	NELAP	10		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Nitrobenzene	NELAP	50.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
o-Xylene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
p-Isopropyltoluene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Pentachloroethane	NELAP	20.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Propionitrile	NELAP	50.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
sec-Butylbenzene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Styrene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
tert-Butylbenzene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Tetrachloroethene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Tetrahydrofuran	NELAP	20.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
trans-1,2-Dichloroethene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
trans-1,3-Dichloropropene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
trans-1,4-Dichloro-2-butene	NELAP	10		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Trichloroethene	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Trichlorofluoromethane	NELAP	5.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Vinyl acetate	NELAP	10		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Vinyl chloride	NELAP	2.0		**ND**	µg/L	1	3/4/05 3:54:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**103**	%REC	1	3/4/05 3:54:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**99.8**	%REC	1	3/4/05 3:54:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**94.4**	%REC	1	3/4/05 3:54:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**103**	%REC	1	3/4/05 3:54:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	15-03095.15-004 Sentinel Wells
WorkOrder:	05030107	**Client Sample ID:**	HMW-25/050302
Lab ID:	05030107-002	**Collection Date:**	3/2/05 10:22:00 AM
Report Date:	07-Mar-05	**Matrix:**	GROUNDWATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		**ND**	µg/L	1	3/4/05 4:56:00 PM	GEK
Toluene	NELAP	5.0		**ND**	µg/L	1	3/4/05 4:56:00 PM	GEK
Ethylbenzene	NELAP	5.0		**ND**	µg/L	1	3/4/05 4:56:00 PM	GEK
Xylenes, Total	NELAP	5.0		**ND**	µg/L	1	3/4/05 4:56:00 PM	GEK
Surr: 1,2-Dichloroethane-d4		84.3-135		**104**	%REC	1	3/4/05 4:56:00 PM	GEK
Surr: 4-Bromofluorobenzene		81.1-113.3		**98.4**	%REC	1	3/4/05 4:56:00 PM	GEK
Surr: Dibromofluoromethane		88.9-121.2		**98.6**	%REC	1	3/4/05 4:56:00 PM	GEK
Surr: Toluene-d8		84.1-114.5		**102**	%REC	1	3/4/05 4:56:00 PM	GEK

Sample Narrative

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

WORK ORDER SAMPLE SUMMARY

Client: Clayton Group Services
Project: 15-03095.15-004 Sentinel Wells
Lab Order: 05030107
Date Received: 3/3/05

Date: *07-Mar-05*

Lab Sample ID	Client Sample ID	Tag Number	Collection Date
05030107-001A	Trip Blank		2/28/05 4:50:00 PM
05030107-002A	HMW-25/050302		3/2/05 10:22:00 AM

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: 15-03095.15-004 Sentinel Wells
Lab Order: 05030107
Date Received: 3/3/05 11:15:00 AM

DATES REPORT

Date: *07-Mar-05*

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
05030107-001A	Trip Blank	2/28/05	Trip Blank	Volatile Organics, Aqueous, by GC/MS		3/4/05	3/4/05
05030107-002A	HMW-25/050302	3/2/05	Groundwater	BTEX, Aqueous, by GC/MS		3/4/05	3/4/05

TEKLAB, INC

Date: *07-Mar-05*

CLIENT: Clayton Group Services
Work Order: 05030107
Project: 15-03095.15-004 Sentinel Wells

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: **MBLK-A050304-1** SampType: **MBLK** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **3/4/05** Run ID: **5971 INST. A_050304B**
Client ID: **ZZZZZ** Batch ID: **24334** TestNo: **SW8260B** Analysis Date: **3/4/05** SeqNo: **948629**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1	5.0									
1,1,1-Trichloroethane	ND	1	5.0									
1,1,2,2-Tetrachloroethane	ND	1	5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5	20.0									
1,1,2-Trichloroethane	ND	1	5.0									
1,1-Dichloro-2-propanone	ND	20	50.0									
1,1-Dichloroethane	ND	1	5.0									
1,1-Dichloroethene	ND	1	5.0									
1,1-Dichloropropene	ND	1	5.0									
1,2,3-Trichlorobenzene	ND	1	5.0									
1,2,3-Trichloropropane	ND	1	5.0									
1,2,3-Trimethylbenzene	ND	1	5.0									
1,2,4-Trichlorobenzene	ND	1	5.0									
1,2,4-Trimethylbenzene	ND	1	5.0									
1,2-Dibromo-3-chloropropane	ND	1	5.0									
1,2-Dibromoethane	ND	1	5.0									
1,2-Dichlorobenzene	ND	1	5.0									
1,2-Dichloroethane	ND	1	5.0									
1,2-Dichloropropane	ND	1	5.0									
1,3,5-Trimethylbenzene	ND	1	5.0									
1,3-Dichlorobenzene	ND	1	5.0									
1,3-Dichloropropane	ND	1	5.0									
1,4-Dichlorobenzene	ND	1	5.0									
1-Chlorobutane	ND	1	5.0									
2,2-Dichloropropane	ND	1	5.0									
2-Butanone	ND	5	25.0									
2-Chloroethyl vinyl ether	ND	5	20.0									
2-Chlorotoluene	ND	1	5.0									
2-Hexanone	ND	5	25.0									
2-Nitropropane	ND	10	50.0									

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05030107
Project: 15-03095.15-004 Sentinel Wells

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: MBLK-A050304-1	SampType: MBLK	TestCode: V_8260S_W	Units: µg/L	Prep Date: 3/4/05	Run ID: 5971 INST. A_050304B
Client ID: ZZZZZ	Batch ID: 24334	TestNo: SW8260B		Analysis Date: 3/4/05	SeqNo: 948629

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1	5.0									
4-Methyl-2-pentanone	ND	5	25.0									
Acetone	ND	5	25.0									
Acetonitrile	ND	20	50.0									
Acrolein	ND	2.5	100									
Acrylonitrile	ND	1	5.0									
Allyl chloride	ND	1	5.0									
Benzene	ND	0.5	2.0									
Bromobenzene	ND	1	5.0									
Bromochloromethane	ND	1	5.0									
Bromodichloromethane	ND	1	5.0									
Bromoform	ND	1	5.0									
Bromomethane	ND	2	10									
Butyl acetate	ND	5	25.0									
Carbon disulfide	ND	1	5.0									
Carbon tetrachloride	ND	1	5.0									
Chlorobenzene	ND	1	5.0									
Chloroethane	ND	2	10									
Chloroform	ND	1	5.0									
Chloromethane	ND	2	10									
Chloroprene	ND	5	20.0									
cis-1,2-Dichloroethene	ND	1	5.0									
cis-1,3-Dichloropropene	ND	1	5.0									
cis-1,4-Dichloro-2-butene	ND	1	5.0									
Cyclohexanone	ND	20	50.0									
Dibromochloromethane	ND	1	5.0									
Dibromomethane	ND	1	5.0									
Dichlorodifluoromethane	ND	2	10									
Ethyl acetate	ND	2	10									
Ethyl ether	ND	1	5.0									
Ethyl methacrylate	ND	1	5.0									

Qual: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

NOTE: LIMS MDL and PQL are adjusted for dilutions.

CLIENT: Clayton Group Services
Work Order: 05030107
Project: 15-03095.15-004 Sentinel Wells

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: **MBLK-A050304-1** SampType: **MBLK** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **3/4/05** Run ID: **5971 INST. A_050304B**
Client ID: **ZZZZZ** Batch ID: **24334** TestNo: **SW8260B** Analysis Date: **3/4/05** SeqNo: **948629**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1	5.0									
Heptane	ND	5	20.0									
Hexachlorobutadiene	1.4	1	5.0									J
Hexachloroethane	ND	2	10									
Hexane	ND	5	20.0									
Iodomethane	ND	1	5.0									
Isopropylbenzene	ND	1	5.0									
m,p-Xylenes	ND	1	5.0									
Methacrylonitrile	ND	2	10									
Methyl Methacrylate	ND	1	5.0									
Methyl tert-butyl ether	ND	0.5	2.0									
Methylacrylate	ND	2	10									
Methylene chloride	ND	1	5.0									
n-Butylbenzene	ND	1	5.0									
n-Propylbenzene	ND	1	5.0									
Naphthalene	ND	2	10									
Nitrobenzene	ND	10	50.0									
o-Xylene	ND	1	5.0									
p-Isopropyltoluene	ND	1	5.0									
Pentachloroethane	ND	4	20.0									
Propionitrile	ND	10	50.0									
sec-Butylbenzene	ND	1	5.0									
Styrene	ND	1	5.0									
tert-Butylbenzene	ND	1	5.0									
Tetrachloroethene	ND	1	5.0									
Tetrahydrofuran	ND	5	20.0									
Toluene	ND	1	5.0									
trans-1,2-Dichloroethene	ND	1	5.0									
trans-1,3-Dichloropropene	ND	1	5.0									
trans-1,4-Dichloro-2-butene	ND	2	10									
Trichloroethene	ND	1	5.0									

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05030107
Project: 15-03095.15-004 Sentinel Wells

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: **MBLK-A050304-1** SampType: **MBLK** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **3/4/05** Run ID: **5971 INST. A_050304B**
Client ID: **ZZZZZ** Batch ID: **24334** TestNo: **SW8260B** Analysis Date: **3/4/05** SeqNo: **948629**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	1	5.0									
Vinyl acetate	ND	2	10									
Vinyl chloride	ND	0.5	2.0									
Xylenes, Total	ND	1	5.0									
Surr: 1,2-Dichloroethane-d4	51	0	0	50	0	102	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49.1	0	0	50	0	98.2	81.1	113.3	0	0		
Surr: Dibromofluoromethane	47.6	0	0	50	0	95.2	88.9	121.2	0	0		
Surr: Toluene-d8	51.8	0	0	50	0	103.6	84.1	114.5	0	0		

Sample ID: **LCS-A050304-1** SampType: **LCS** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **3/4/05** Run ID: **5971 INST. A_050304B**
Client ID: **ZZZZZ** Batch ID: **24334** TestNo: **SW8260B** Analysis Date: **3/4/05** SeqNo: **948628**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	59.2	1	5.0	50	0	118.4	72.6	132	0	0		
1,1-Dichloroethene	50	1	5.0	50	0	100	63.6	142	0	0		
1,2-Dibromoethane	58.1	1	5.0	50	0	116.2	70	130	0	0		
1,2-Dichlorobenzene	59.6	1	5.0	50	0	119.2	86.6	124	0	0		
1,2-Dichloroethane	58.1	1	5.0	50	0	116.2	83.5	128	0	0		
1,3-Dichlorobenzene	56.4	1	5.0	50	0	112.8	85.3	123	0	0		
1,4-Dichlorobenzene	58.2	1	5.0	50	0	116.4	87.7	122	0	0		
2-Butanone	36.5	5	25.0	50	0	73	72.8	129	0	0		
Benzene	54.9	0.5	2.0	50	0	109.8	77.4	120	0	0		
Bromodichloromethane	57.4	1	5.0	50	0	114.8	85.5	125	0	0		
Carbon tetrachloride	61.3	1	5.0	50	0	122.6	67	138	0	0		
Chlorobenzene	57.2	1	5.0	50	0	114.4	87.2	117	0	0		
Chloroform	50.6	1	5.0	50	0	101.2	82.1	123	0	0		
Dibromochloromethane	62.3	1	5.0	50	0	124.6	86.4	126	0	0		
Ethylbenzene	59.1	1	5.0	50	0	118.2	78.5	122	0	0		
m,p-Xylenes	58.9	1	5.0	50	0	117.8	79.4	123	0	0		
Methyl tert-butyl ether	51.9	0.5	2.0	50	0	103.8	70	130	0	0		
Methylene chloride	57.1	1	5.0	50	0	114.2	83.9	125	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05030107
Project: 15-03095.15-004 Sentinel Wells

ANALYTICAL QC SUMMARY REPORT

TestCode: V_8260S_W

Sample ID: **LCS-A050304-1** SampType: **LCS** TestCode: **V_8260S_W** Units: **µg/L** Prep Date: **3/4/05** Run ID: **5971 INST. A_050304B**
Client ID: **ZZZZZ** Batch ID: **24334** TestNo: **SW8260B** Analysis Date: **3/4/05** SeqNo: **948628**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	58.4	2	10	50	0	116.8	70	130	0	0		
o-Xylene	58.8	1	5.0	50	0	117.6	83.3	121	0	0		
Tetrachloroethene	48.7	1	5.0	50	0	97.4	66.7	117	0	0		
Toluene	58	1	5.0	50	0	116	81.6	118	0	0		
Trichloroethene	53.8	1	5.0	50	0	107.6	79.6	118	0	0		
Xylenes, Total	118	1	5.0	100	0	118	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	50.3	0	0	50	0	100.6	84.3	136	0	0		
Surr: 4-Bromofluorobenzene	53	0	0	50	0	106	81.1	113.3	0	0		
Surr: Dibromofluoromethane	47.9	0	0	50	0	95.8	88.9	121.2	0	0		
Surr: Toluene-d8	49.2	0	0	50	0	98.4	84.1	114.5	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05030107
Project: 15-03095.15-004 Sentinel Wells

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **LCS-A050304-1** SampType: **LCS1** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **3/4/05** Run ID: **5971 INST. A_050304E**
Client ID: **ZZZZZ** Batch ID: **24334** TestNo: **SW8260B** Analysis Date: **3/4/05** SeqNo: **948670**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylenes	58.9	1	5.0	50	0	117.8	79.4	123	0	0		
Methyl tert-butyl ether	51.9	0.5	2.0	50	0	103.8	70	130	0	0		
o-Xylene	58.8	1	5.0	50	0	117.6	83.3	121	0	0		
Benzene	54.9	0.5	2.0	50	0	109.8	77.4	120	0	0		
Toluene	58	1	5.0	50	0	116	81.6	118	0	0		
Ethylbenzene	59.1	1	5.0	50	0	118.2	78.5	122	0	0		
Naphthalene	58.4	2	10	50	0	116.8	70	130	0	0		
Xylenes, Total	118	1	5.0	100	0	118	80.7	122	0	0		
Surr: 1,2-Dichloroethane-d4	50.3	0	0	50	0	100.6	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	53	0	0	50	0	106	81.1	113.3	0	0		
Surr: Dibromofluoromethane	47.9	0	0	50	0	95.8	88.9	121.2	0	0		
Surr: Toluene-d8	49.2	0	0	50	0	98.4	84.1	114.5	0	0		

Sample ID: **MBLK-A050304-1** SampType: **MBLK** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **3/4/05** Run ID: **5971 INST. A_050304E**
Client ID: **ZZZZZ** Batch ID: **24334** TestNo: **SW8260B** Analysis Date: **3/4/05** SeqNo: **948671**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylenes	ND	1	5.0									
Methyl tert-butyl ether	ND	0.5	2.0									
o-Xylene	ND	1	5.0									
Benzene	ND	0.5	2.0									
Toluene	ND	1	5.0									
Ethylbenzene	ND	1	5.0									
Naphthalene	ND	2	10									
Xylenes, Total	ND	1	5.0									
Surr: 1,2-Dichloroethane-d4	51	0	0	50	0	102	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	49.1	0	0	50	0	98.2	81.1	113.3	0	0		
Surr: Dibromofluoromethane	47.6	0	0	50	0	95.2	88.9	121.2	0	0		
Surr: Toluene-d8	51.8	0	0	50	0	103.6	84.1	114.5	0	0		

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

CLIENT: Clayton Group Services
Work Order: 05030107
Project: 15-03095.15-004 Sentinel Wells

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_W

Sample ID: **05030107-002AMS** SampType: **MS** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **3/4/05** Run ID: **5971 INST. A_050304E**
Client ID: **HMW-25/050302** Batch ID: **24334** TestNo: **SW8260B** Analysis Date: **3/4/05** SeqNo: **948673**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylenes	57.1	1	5.0	56	0	102	81.2	116	0	0		
o-Xylene	57.9	1	5.0	56	0	103.4	80.3	115	0	0		
Benzene	46.6	0.5	2.0	56	0	83.2	70.8	122	0	0		
Toluene	57.7	1	5.0	56	0	103	77.2	117	0	0		
Ethylbenzene	57.5	1	5.0	56	0	102.7	81	113	0	0		
Xylenes, Total	115	1	5.0	112	0	102.7	80.3	116	0	0		
Surr: 1,2-Dichloroethane-d4	49.5	0	0	50	0	99	84.3	135	0	0		
Surr: 4-Bromofluorobenzene	52.6	0	0	50	0	105.2	81.1	113.3	0	0		
Surr: Dibromofluoromethane	46.9	0	0	50	0	93.8	88.9	121.2	0	0		
Surr: Toluene-d8	51.1	0	0	50	0	102.2	84.1	114.5	0	0		

Sample ID: **05030107-002AMSD** SampType: **MSD** TestCode: **V_BTEX_W** Units: **µg/L** Prep Date: **3/4/05** Run ID: **5971 INST. A_050304E**
Client ID: **HMW-25/050302** Batch ID: **24334** TestNo: **SW8260B** Analysis Date: **3/4/05** SeqNo: **948674**

Analyte	Result	LIMS MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylenes	59.4	1	5.0	56	0	106.1	81.2	116	57.1	3.95	15	
o-Xylene	60.3	1	5.0	56	0	107.7	80.3	115	57.9	4.06	15	
Benzene	49.1	0.5	2.0	56	0	87.7	70.8	122	46.6	5.23	15	
Toluene	60.7	1	5.0	56	0	108.4	77.2	117	57.7	5.07	15	
Ethylbenzene	60	1	5.0	56	0	107.1	81	113	57.5	4.26	15	
Xylenes, Total	120	1	5.0	112	0	107.1	80.3	116	115	4.26	15	
Surr: 1,2-Dichloroethane-d4	51.6	0	0	50	0	103.2	84.3	135	0	0	0	
Surr: 4-Bromofluorobenzene	52	0	0	50	0	104	81.1	113.3	0	0	0	
Surr: Dibromofluoromethane	49.2	0	0	50	0	98.4	88.9	121.2	0	0	0	
Surr: Toluene-d8	51.2	0	0	50	0	102.4	84.1	114.5	0	0	0	

Qual: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits NOTE: LIMS MDL and PQL are adjusted for dilutions.
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank

05030107

Page 1 of 1

Clayton GROUP SERVICES

REQUEST FOR LABORATORY SERVICES

IMPORTANT
Date Results Requested: STANDARD
Rush Charges Authorized? ☐ Yes ☐ No
☐ Phone or ☐ Fax Results

Laboratory Project No.:

REPORT RESULTS TO
Name: KEN COMIRE
Company: CLAYTON GROUP SERVICES
Mailing Address: 3140 FINLEY ROAD
City, State, Zip: DOWNERS GROVE IL 60515
Telephone No.: 630-795-1130 Fax No.: 630-795-1120

Client Job No.: 15-03095.15-004
Dept.:

SEND INVOICE TO
Purchase Order No.:
Name:
Company: Dept.:
Address:
City, State, Zip:

Project ID: 15-03095.15-004

SENTINEL WELLS

ANALYSIS REQUESTED

DATE SAMPLED	TIME SAMPLED	WELL/BORING NO. (SITE ID)	SAMPLE ID	MATRIX / MEDIA	Number of Containers	VOC'S	BTEX						FOR LAB USE ONLY
2/28/05	1650	TRIP BLANK	TB	W	2	X							05030107-001
3/2/05	1022	HMW-25	HMW-25/050302	W	3		X						002

CHAIN OF CUSTODY
Collected by: NORMAN BOLIVAR (Print) Collector's Signature:
Relinquished by: BRET HOFFMAN Date/Time: 3/2/05 1900 Received by: BJ Kates Date/Time: 3/3/05 10:00 AM
Relinquished by: BJ Kates Date/Time: 3/3/05 10:00AM Received by: Elizabeth A. Weber Date/Time: 3/3/05 1115
Method of Shipment: Received at Lab by: Date/Time:

Authorized by: _____ Date: _____
(Client Signature Must Accompany Request)

Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain)
iced 2.4°C, ϕ headspace

DISTRIBUTION:
White - Laboratory
Yellow - Clayton Copy

CHAIN OF CUSTODY

TEKLAB, INC

Sample Receipt Checklist

Client Name	CLAYTON GROUP	Date and Time Received:	3/3/05 11:15:00 AM
Work Order Number	05030107	Date Due:	3/10/05
QC Level	LVL3R+	Received by:	EAW

Checklist completed by Elizabeth A. Weber 3/3/05 (Signature / Date)

Reviewed by: SAO 3/3/05 (Initials / Date)

Matrix: Carrier name: BJ Kostelac

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA response must be detailed in the Case Narrative or on the COC.

Email PDF?	Yes ☐	No ☑	Completed:	Initials / Date
Email EDD?	Yes ☐	No ☑	Completed:	Initials / Date
Fax?	Yes ☐	No ☑	Completed:	Initials / Date

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

05030107

Clayton
GROUP SERVICES

APPENDIX C-2

FIRST ENVIRONMENTAL LABORATORIES, INC.

First
Environmental
Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Accreditation # 100292

March 11, 2005

Mr. Ken Comire
CLAYTON GROUP SERVICES INC.
3140 Finley Road
Downers Grove, IL 60515

Project ID: 15-03095.15-004
First Environmental File ID: 49962-63
Date Received: March 4, 2005

Dear Mr. Comire:

The above referenced sample was analyzed as directed on the enclosed chain of custody record.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. Specific method references are listed on the Analytical Report.

Analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods and current IL ELAP / NELAP have been met except where noted. QA/QC documentation and raw data will remain on file for future reference. Our certificate is number 00121; 02/17/05 through 02/28/06.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed
Project Manager

First
Environmental
Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client:	CLAYTON GROUP SERVICES, INC.		
Project ID:	15-03095.15-004	Date Received:	03/04/05
Sample Number:	49962	Date Taken:	02/28/05
Sample Description:	TB	Time Taken:	1650
Lab File ID:	49962-63	Date Reported:	03/11/05

Volatile Organic Compounds Method 5030B/8260B
Analysis Date: 03/08/05

Analyte	Result	Units	Flags
Acetone	< 10.0	ug/L	
Benzene	< 5.0	ug/L	
Bromodichloromethane	< 1.0	ug/L	
Bromoform	< 1.0	ug/L	
Bromomethane	< 5.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 1.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 1.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	
Methylene chloride	< 5.0	ug/L	
MTBE	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 2.0	ug/L	
Xylenes (total)	< 5.0	ug/L	

First
Environmental
Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client:	CLAYTON GROUP SERVICES, INC.		
Project ID:	15-03095.15-004	Date Received:	03/04/05
Sample Number:	49963	Date Taken:	03/02/05
Sample Description:	HMW-25/050302	Time Taken:	1027
Lab File ID:	49962-63	Date Reported:	03/11/05

Analyte	Result	Units	Flags
BTEX Method 5030B/8260B			
Analysis Date: 03/07/05			
Benzene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
Xylenes (total)	< 5.0	ug/L	

Clayton GROUP SERVICES

REQUEST FOR LABORATORY SERVICES

IMPORTANT
Date Results Requested: STANDARD
Rush Charges Authorized? ☐ Yes ☐ No
☐ Phone or ☐ Fax Results

Page 1 of 1
Laboratory Project No.

REPORT RESULTS TO
Name: KEN COMIRE
Company: CLAYTON GROUP SERVICES
Dept.:
Mailing Address: 3140 FINLEY ROAD
City, State, Zip: DOWNERS GROVE IL 60515
Telephone No.: 630-795-3200
Fax No.: 630-795-1130

Client Job No.: 15-03095.15-004

SEND INVOICE TO
Purchase Order No.:
Name:
Company:
Dept.:
Address:
City, State, Zip:

Project ID: 15-03095.15-004
SENTINEL WELLS

ANALYSIS REQUESTED

DATE SAMPLED	TIME SAMPLED	WELL/BORING NO. (SITE ID)	SAMPLE ID	MATRIX / MEDIA	Number of Containers	VOC's	BTEX						FOR LAB USE ONLY
2/28/05	1650	TRIP BLANK	TB	WATER	2	x							49962
3/3/05	1027	HMW-25	HMW-25/050302	WATER	3		x						963

CHAIN OF CUSTODY
Collected by: NORMAN BOLIVAR (Print)
Collector's Signature:
Relinquished by: Date/Time: 3/3/05 1027
Received by: Date/Time:
Relinquished by: Date/Time:
Received by: Date/Time:
Method of Shipment:
Received at Lab by: Date/Time: 3/4/05 8:25
Authorized by: _____ Date: _____
(Client Signature Must Accompany Request)
Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain)

<6°C Temp - on ice

CHAIN OF CUSTODY

DISTRIBUTION:
White - Laboratory
Yellow - Clayton Copy