AECOM Environment

Prepared for:
NYSDEC
Albany, NY

Prepared by:
AECOM
Latham, NY
60273289
September 2016

Periodic Review Report
June 15, 2015 through June 15, 2016

Korkay, Inc.
Site No. 5-18-014

AECOM Environment

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Korkay, Inc.
Site No. 5-18-014

Engineering Certification

I, Daniel T. Servetas, certify that I am currently a NYS registered professional engineer and that this Periodic Review Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved scope of work and any DER-approved modifications.

Respectfully submitted,

AECOM Technical Services Northeast, Inc.

9/20/2016

Daniel Servetas
Registered Professional Engineer
New York License No. 079068

Date

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Acronyms and Abbreviations

µg/L	Micrograms per Liter
AS	Air Sparging
AWQS	Ambient Water Quality Standards
bgs	Below Grade Surface
CDM	Camp, Dresser, and McKee
COCs	Contaminants of Concern
DER-10	NYSDEC Technical Guidance for Site Investigation and Remediation
EC	Engineering Controls
EN	Environmental Notice
FFS	Focused Feasibility Study
FS	Feasibility Study
ft	Foot/Feet
IC	Institutional Controls
ISCO	*In Situ* Chemical Oxidation
Korkay	Korkay, Incorporated
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Conservation
NYSDOH	New York State Department of Health
OM&M	Operations, Maintenance and Monitoring
ORC	Oxygen Releasing Compound
PCE	Tetrachloroethene
PRR	Periodic Review Report
RI	Remedial Investigation
ROD	Record of Decision
RSO	Remedial System Optimization
SCGs	Standards, Criteria And Guidance Values
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SVE	Soil Vapor Extraction
SVOCs	Semivolatile Organic Compound
TOGS	NYSDEC Technical and Operational Guidance Series
UST	Underground Storage Tank
VEWs	Vapor Extraction Wells
VOCs	Volatile Organic Compounds

Executive Summary

This Periodic Review Report (PRR) has been prepared for the Korkay, Incorporated (Korkay) Site (Site No. 518014). The reporting period covered in this report is June 15, 2015 through June 15, 2016. This PRR was prepared by AECOM under Work Assignment number D007626-20.

Korkay supplied products to the automotive industry from 1969 to 1980 that resulted in the discharge of chemicals and contamination of soil and groundwater.

Remedial Investigation (RI) and Feasibility Study (FS) activities were conducted between 1993 and 1995. A Record of Decision (ROD) was entered by the NYSDEC in March 1996. The selected remedy, including removal of grossly contaminated surface soil, installation and operation of a soil vapor extraction (SVE) and air sparge (AS) system and annual groundwater monitoring was completed between 1997 and 2003.

Post remediation groundwater sampling results indicated that groundwater in the former source area remained contaminated in excess of applicable standards. Additional soil and groundwater investigations conducted between 2007 and 2013 identified that the contamination was more widespread on site than previously know and extended off-Site.

The previous PRR (AECOM, November 2015a) reported that the dissolved-phase groundwater plume covered the approximate western two-thirds of the Site, and extended off-Site to the southwest, which was greater than previous groundwater investigations and monitoring suggested (i.e., previous reports indicated the groundwater contaminant plume was confined mainly to the former source area in the Site's southwest quadrant). That PRR recommended a supplemental remedial alternative utilizing In-Situ Chemical Oxidation (ISCO) be implemented to further remediate on-Site impacts to soil and groundwater. ISCO injection was conducted at the Site in October, 2015.

All monitoring and reporting requirements stipulated in the SMP were met for this PRR reporting period. One Site-wide 5-quarter groundwater sampling event (October, 2015) and three quarterly post-ISCO injection sampling events (December 2015, March and May, 2016) were conducted during this reporting period. Comparison of the groundwater analytical results of the three post-ISCO injection quarterly sampling events to the October 2015 5-quarter baseline event indicates the size and contaminant concentration of the groundwater plume has decreased to some degree in response to the ISCO injection. However the amount of residual chemicals from the ISCO injection (i.e., persulfate and Oxygen Release Compound (ORC)) in the treatment area to promote aerobic degradation and further reduce contaminant mass is low.

An Environmental Notice (EN) for the Site was filed with Fulton County on January 25, 2013 (Appendix A).

Currently, certification that the Site IC/ECs are in compliance with the requirements of the EN can be completed.

AECOM recommends the following:

- Annual periodic review is recommended in order to determine the compliance of the facility with the IC/ECs in place.

- Continue groundwater sampling according to the SMP to monitor the groundwater plume.
- Continue to monitor and evaluate changes in groundwater quality for evidence of contaminant reduction during future quarterly sampling events. The review of changes in groundwater quality and additional recommendations will be provided as deemed necessary.
- Continue to follow the requirements of the SMP, in accordance with current DER-10 guidance, to assure that appropriate and comprehensive Site management is completed throughout the remaining post remediation monitoring period.
- Consider administering a second round of ISCO treatment, targeted on the residual hot spot areas to further reduce contaminant mass.

A copy of the IC/EC certification is included in Appendix B.

1.0 Site Overview

The Korkay, Incorporated (Korkay) Site (Site No. 518014) is located at 70 West Main Street in the Village of Broadalbin, Fulton County, New York (Figure 1). The Village of Broadalbin, approximately one square mile in size, is located almost entirely within the limits of the Town of Broadalbin. The site is approximately 0.9 acres in size. Land uses surrounding the site include a lumber yard and residences to the north, a residence to the west, a church to the east, and West Main Street to the south (Figure 2). Kenneyetto Creek is the nearest surface water body, located approximately 600 feet south of the site.

Korkay supplied products to the automotive industry from 1969 to 1980 that resulted in the discharge of chemicals and contamination of soil and groundwater. The New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) inspected the Site in 1979 and documented the occurrence of these activities. NYSDEC conducted a Site inspection in 1992, at which time numerous drums of hazardous waste were found and secured for removal. A Remedial Investigation (RI) and Feasibility Study (FS) of the Site was conducted between 1993 and 1995.

A Record of Decision (ROD) was issued in March 1996 that set forth the following remediation goals for the site:

1. To eliminate, to the greatest extent possible, on-site soils as a source of groundwater contamination.
2. To eliminate or reduce human exposure to on-site soils contamination.

To accomplish these goals, based upon the results of the RI/FS and the evaluation of alternatives, the NYSDEC selected: excavation and off-Site disposal of the top six inches of contaminated surface soil; backfill excavated areas with clean, compacted and re-vegetated soil; install and operation a soil vapor extraction (SVE) system, with an optional air sparging (AS) system or Site dewatering; imposition of deed restrictions to exclude the use of Site groundwater; and Site environmental monitoring for five years.

Site closure criteria include reducing concentrations of the Contaminants of Concern (COCs) in soil and groundwater to below applicable Standards, Criteria and Guidance values (SCGs). The COCs as identified in the ROD include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and pesticides. The SCGs for soil are the relevant NYSDEC Soil Cleanup Objectives (SCOs) based on regulation 6 NYCRR Part 375-6 (Part 375). The Unrestricted Use SCOs are the most conservative and provide for protection of groundwater, human health and the environment, and are considered appropriate for site soils. NYSDEC's long-term goal for groundwater is to reduce COC concentrations "to the extent practical based on technological limitations" to below SCGs. The SCGs for groundwater are the NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values, dated October 22, 1993, with June 1998 and January 1999 updates (AWQSs).

Site remediation was initiated in 1997 with the building demolition and remediation of contaminated surface soils. Operation of the SVE system began in November 1998. The NYSDEC assumed responsibility for Site operations In July 2000, and discontinued operation of the SVE system in 2003.

Results of post remediation groundwater sampling conducted through 2003 indicated that COC concentrations in groundwater in the former source area had decreased, but remained well above relevant SCGs.

A remedial system optimization (RSO) with a focused feasibility study (FFS) was completed in 2008 in order to determine an effective mechanism to address the residual contamination in the saturated soil and groundwater. The RSO report recommended the removal of soil from an approximate 3,200 sq. ft. area near the former source area and SVE/AS system.

A soil boring program was conducted in 2010 to further delineate soil impacts for the planned soil removal (AECOM, January 2010). Field and laboratory data collected during that investigation indicated that widespread subsurface soil impacts remained at the Site and that in comparison to the FFS, over 11,000 cubic yards of contaminated soil would need to be excavated and disposed off-site. Based on the findings, it was determined that additional soil excavation would not be a cost-effective measure to further remediate soil and groundwater contamination at the Site; recommendations were made for additional investigation to define the extent of off Site impacts and that soil gas vapor intrusion sampling should be considered for properties near the Site.

An Environmental Notice (EN) for the Site was filed with Fulton County on January 25, 2013 (Appendix A).

Annual (five-quarter) groundwater sampling events performed in January 2012 and June 2013 demonstrated that groundwater contamination persisted in some of the same areas as discussed in the 1988 RI report, primarily beneath the southwest quadrant of the Site, in the former source area; groundwater results from the deep wells at the Site continued to be below relevant SCGs.

In 2014, AECOM conducted a groundwater direct push investigation to further delineate and characterize the dissolved phase groundwater impacts, and to collect soil samples for analysis of natural oxidant demand (NOD) to evaluate the effectiveness of using an oxidant for in situ remediation of contaminated soil and groundwater at the Site. The results of this investigation were presented in a letter report dated November 10, 2014 (AECOM, November 2014). The results of the investigation indicated that the extent of the dissolved phase groundwater impacts were greater than previous investigations and NOD results indicated that in situ chemical oxidation (ISCO) would be a favorable remedy at the site.

Based on the results of the 2014 groundwater investigation, ISCO was selected as a supplemental remedial action for the Site, to be implemented for source zone remediation of the onsite saturated zone. ISCO injection was conducted at the Site by Regenesis Remediation Services, Inc. (RRS) in October, 2015.

2.0 Evaluation of Remedy Performance, Effectiveness and Protectiveness

This section presents a summary of the effectiveness of the remedy in achieving the remedial goals for the Site.

2.1 2015 Groundwater Investigation

A groundwater investigation utilizing direct-push drilling was conducted at the Site between August 3-4, 2015 to further delineate and characterize on-Site and off-Site dissolved-phase groundwater impacts in advance of the ISCO injection. Fourteen direct push borings were installed. From each boring, continuous soil samples were collected for on-site screening and a grab groundwater sample was collected for analysis of VOCs, SVOCs and pesticides. Appendix C includes copies of data from this work including the data summary tables (Tables 1 – 3), a map that summarizes the groundwater VOC results and shows proposed locations for eight new monitoring wells (Figure 3), and the test boring logs. A full account of the 2015 investigation is described in a letter report from AECOM to the NYSDEC (AECOM, October 2015).

Based on the result of the 2015 groundwater investigation, eight new monitoring wells were installed between September 14 and 16, 2015. Four on site wells (MW-17, MW-18, MW-22 and MW-23) were installed to provide additional locations to monitor groundwater quality following the ISCO injection program and four off-site wells (MW-19, MW-20, MW-21 and MW-24) were installed to monitor groundwater quality downgradient of the Site. The locations of the new wells are identified with the pre-existing wells in Figure 2. Copies of the soil boring and well construction logs for the new wells are included in Appendix C.

2.2 October 2015 Five-Quarter Groundwater Sampling Event

A round of groundwater sampling was conducted in October 2015 as a Site-wide 5-quarter event, which is required in the Site Management Plan (SMP) (AECOM, November 2015b) to evaluate trends in groundwater quality at the Site through the Site management phase. The event was performed one week before the ISCO injection work was conducted. This schedule was selected to provide baseline conditions to compare post-ISCO sample results. Detailed results and conclusion from this event were provided in the associated groundwater monitoring report submitted to NYSDEC on February 24, 2016 (AECOM, February 2016).

Groundwater analytical results from the annual sampling events completed between August, 2007, and October, 2015, are summarized in Table 1. Highlights of the report findings include:

- Groundwater flows generally in a southwest direction across the Site (see Figure 3).
- Total VOC (TVOC) concentrations reported for the shallow wells (less than 15 feet deep) indicated the contaminant plume extended from northeast to southwest across the Site with the axis of the plume extending southwest of the Site, beyond well MW-21 (see Figure 4).
- There were increasing trends in TVOC concentrations since the January 2012 sampling event in source area wells ASW, VEW-1 and VEW-2 (see Chart 1).

The October 2015 groundwater data demonstrated that contamination persisted in shallow groundwater and that the plume covered a somewhat greater portion of the Site than indicated by the sample results compiled since 2007.

2.3 October 2015 ISCO Injection

As stated in Section 2, ISCO injection was conducted in October, 2015, as a supplemental remedial action to provide for source zone remediation. The injection work was completed by RRS between October 19, 2015 and October 23, 2015. The oxidant that was injected was activated persulfate, specifically, PersulfOx®, an RRS product. This oxidant degrades the Site-related VOC contamination, and can degrade some pesticides as well. The PersulfOx® was applied concurrently with oxygen release compound (ORC) Advanced (ORC-A®), a product that provides a sustained release of oxygen which will allow for polishing of COCs through aerobic bioremediation. A total of 17,301.4 pounds of PersulfOx® and 3,320 pounds of ORC-A® were mixed with water and injected into the treatment area. The volume of PersufOx® and ORC-A® injected totaled 11,435 gallons. The treatment chemicals were injected into the treatment area through 95 injection points which were installed using direct-push (i.e., Geoprobe®) drilling techniques.

RRS's report for the work was provided to NYSDEC in a remedial action progress report (AECOM, January 2016). A map showing the injection point locations and a table of the injection volumes are included in Appendix D.

2.4 Post-ISCO Quarterly Groundwater Monitoring

A two year quarterly groundwater monitoring program is in progress to assist in evaluating the effectiveness of the ISCO injection. Sampling is conducted at six wells (ASW, MW-17, MW-18, MW-21, MW-22 and MW-23). Three rounds of sampling were conducted during this PRR reporting period (December, 2015, and March and May, 2016). Table 2 provides a summary of analytical results from the quarterly sampling events. The configuration of the groundwater plume based on the sample results are provided in Figures 5a (December 2015), 5b (March 2015) and 5c (May 2016). TVOC trends based on the quarterly sample results are shown in Chart 2 (source area well ASW) and Chart 3 (MW-17, MW-18, MW-21, MW-22 and MW-23).

2.5 Summary of Groundwater Remedy Performance

Based on the comparison of sample results from the October 2015 5-quarter baseline event to the three post-ISCO injection quarterly events, the following observations with respect to groundwater contaminant trends in response to the ISCO injection to date are drawn:

- The data from MW-17 indicates that after an initial decrease, some rebound in TVOC concentration may be occurring in this upgradient area of the Site. This could be a result of depleted persulfate and dissolved oxygen (DO) levels and/or the potential for inflow of residual groundwater impacts from the northern Site periphery, outside the ISCO treatment area.

- TVOC concentrations increased from baseline conditions in the former source area well ASW and in the downgradient site boundary well MW-23. The increase may be attributed to desorption of VOCs from the soil to the aqueous phase due to the ISCO injections. The levels of sodium persulfate and DO in these wells appear to be depleted, suggesting that further aerobic biodegradation is unlikely to occur in this highly impacted area of the Site.

- TVOC concentrations decreased significantly near the center (MW-18) and western cross-gradient (MW-22) areas of the Site. In all likelihood, the concentration changes in these wells reflect the effects of the ISCO treatment in an area of the Site outside the main former source location, and where no significant residual soil contamination remains.

Comparison of the isoconcentration contour maps from the four sampling events (Figures 4 and 5a – 5c) indicates that in general the size and contaminant concentration of the groundwater plume decreased to some degree following the ISCO injection. However, the observations above suggest that the level of active persulfate remaining in the injection area is unlikely to further reduce contaminant mass. Similarly, the amount of residual ORC in the injection area to promote aerobic degradation and reduce contaminant mass is low. Consideration should therefore be given to administering a second round of ISCO treatment, targeted on the residual hot spot areas of the Site.

3.0 Institutional and Engineering Controls Plan Compliance Report

Since remaining contamination exists at the Site, Institutional Controls (ICs) and Engineering Controls (ECs) are required to protect human health and the environment. A detailed description of the ICs/ECs and procedures for evaluating the compliance as part of Site inspections and periodic review are included in the SMP. This section describes IC/EC compliance for this reporting period.

3.1 Institutional and Engineering Controls Requirements and Compliance

ICs have been established for the Site to: (1) implement, maintain and monitor EC systems; (2) prevent future exposure to remaining contamination; and, (3) limit the use and development of the Site to commercial and industrial uses only. The ICs for the Site are specified in the EN filed with Fulton County on January 25, 2013 (Appendix A).

ECs for the Site are limited to maintaining the integrity of the groundwater monitoring wells so they remain reliable for collecting representative samples to monitor groundwater contaminant concentrations. Inspection of the monitoring wells is conducted as part of the Site-wide inspection, as described in Section 4.

Determination of compliance with the Institutional and Engineering controls at the Site is made based on the following criteria:

- The IC/ EC(s) applied at the Site are in place as documented in this report.
- Nothing has occurred that would impair the ability of such controls to protect the public health and the environment, or constitute a violation or failure to comply with any element of the SMP for such controls.
- Access to the Site will continue to be provided to the Department, to evaluate the remedy including access to evaluate the continued maintenance of such controls.

Currently certification that the Site IC/ECs are in compliance with the requirements stated above can be completed.

3.2 Institutional and Engineering Controls Certification Forms

The completed Institutional and Engineering Controls Certification form is included in Appendix B.

4.0 Monitoring Plan Compliance Report

4.1 Site Management Plan Reporting

As a requirement of the remedial program for the site, a draft Site Management Plan (SMP), (AECOM, November 2015b), was prepared to manage remaining contamination at the site. The draft SMP includes a monitoring and sampling plan, and reporting requirements. All monitoring and reporting requirements stipulated in the SMP were met for this PRR reporting period.

In accordance with the SMP the components of the monitoring plan include:

	Frequency	Method	Monitoring Locations
Site Wide Inspection	Annually	Visual Observation Form and photos	Site-wide
Site-wide Groundwater Monitoring and Reporting	Every 5-Quarters	VOCs (8260B), SVOCs (8270C), Organochlorine Pesticides (8081A)	ASW, VEW-1, VEW-2, K-2, K-3, MW-8D, MW-8S, MW-15D, MW-15S, and MW-16D, MW-17 through MW-24
Post ISCO Groundwater Monitoring and Reporting	Quarterly through Fall 2017	VOCs (8260B), SVOCs (8270C), Organochlorine Pesticides (8081A)	ASW, MW-17, MW-18, MW-22, MW-23, MW-21

4.1.1 Site Inspection

The annual site inspection for this reporting period was completed on October 12-14, 2015. The completed site inspection form is provided in Appendix E. A photo log documenting site work and conditions from June 2015 to June 2016 is provided in Appendix F.

4.1.2 Post Remediation Groundwater Monitoring

As stated above, all monitoring and reporting requirements stipulated in the SMP were met for this PRR reporting period. One Site-wide 5-quarter groundwater sampling event (October, 2015) and three quarterly post-ISCO injection sampling events (December 2015, March and May, 2016) were conducted during this reporting period. The locations of the sampled wells are presented on Figure 2. Details of each sampling event were included in sample event monitoring reports. A summary of the results from these events are discussed in Section 2 as part of the evaluation of the effectiveness of the Site remedy.

5.0 Operation, Maintenance and Monitoring Plan Compliance Report

The Site does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems or AS/SVE system to protect public health and the environment. Therefore, the SMP currently does not include an Operations, Maintenance and Monitoring (OM&M) Plan.

6.0 Overall PRR Conclusions and Recommendations

Compliance with each required component of the SMP and the remedy performance evaluation for this reporting period are summarized as follows.

- This PRR includes certification that the IC/ECs complied with the requirements of the EN.
- All monitoring and reporting requirements stipulated in the SMP were met.
- Comparison of the groundwater analytical results of the three post-ISCO injection quarterly sampling events to the October 2015 5-quarter baseline event indicates the size and contaminant concentration of the groundwater plume has decreased to some degree in response to the ISCO injection. However the amount of residual chemicals from the ISCO injection (i.e., persulfate and ORC) in the treatment area is low and likely inadequate to promote further aerobic degradation of the contaminant mass.

AECOM recommends the following:

- Annual periodic review is recommended in order to determine the compliance of the facility with the EC/IC's in place.
- Finalize the draft SMP.
- Continue groundwater sampling in accordance with the SMP to monitor the groundwater plume.
- Continue to monitor and evaluate changes in groundwater quality for evidence of contaminant reduction during future quarterly sampling events. The review of changes in groundwater quality and additional recommendations will be provided as deemed necessary.
- Continue to follow the requirements of the SMP, accordance with current DER-10 guidance, to assure that appropriate and comprehensive Site management is completed throughout the remaining post remediation monitoring period.
- Consider administering a second round of ISCO treatment, targeted on the residual hot spot areas to further reduce contaminant mass.

7.0 References

AECOM January 2010. March 2010 Soil Boring Summary Report. January 31, 2010.

AECOM November 2014. July 2014 Investigation Summary Report. November 10, 2014.

AECOM October 2015. 2015 Direct-Push Groundwater Investigation Summary. October 1, 2015.

AECOM, January 2016. ISCO Remedial Action Progress Report. January 13, 2016.

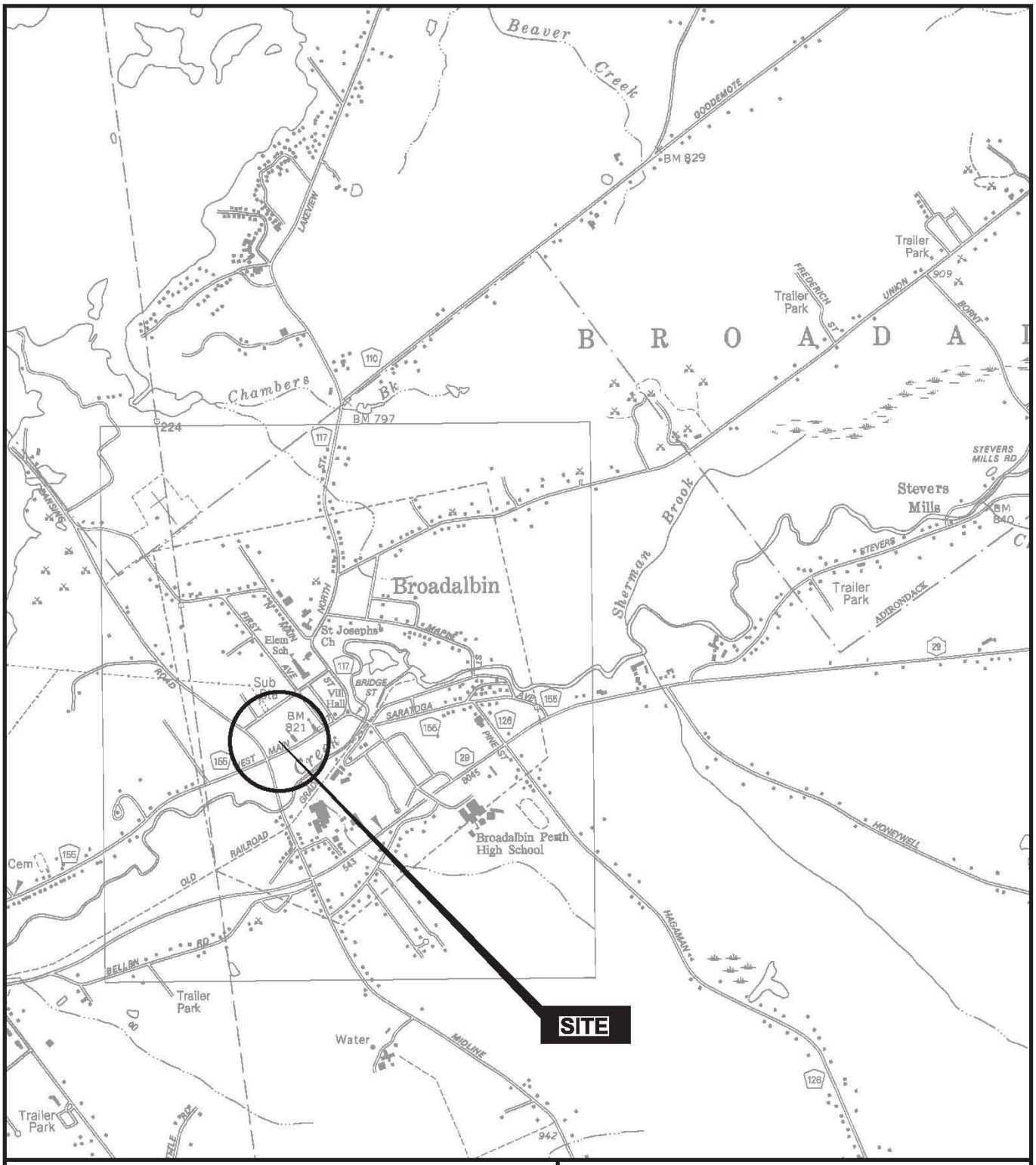
AECOM, November 2015a. Periodic Review Report, September 16, 2016 through June 15, 2015. November 24, 2015.

AECOM, November 2015b. Site Management Plan. November 4, 2015-DRAFT.

AECOM, February 2016. Groundwater Monitoring Report for the 5-Quarter Sampling Event, October 2015. February 2016.

AECOM, June 2016. Groundwater Monitoring Report, Post-ISCO Quarterly Sampling Event, May 31, 2016. June 27, 2016-DRAFT.

Figures



MAP REFERENCE: NYSDOT 7.5 MIN. QUADRANGLE
BROADALBIN SERIES

PLAN

NORTH

Scale in Feet

0 1000' 2000'

AECOM

FIGURE 1

SITE LOCATION PLAN
NYSDEC SITE ID: 5-18-014

KORKAY INC.

70 WEST MAIN STREET
BROADALBIN, NEW YORK

DATE: OCTOBER 2013	PROJECT NO.: 60273289

Project Management Initials: Designer: Checked: Approved: ANSI B 11" x 17"

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MW-15D
MW-15S
MW-17
MW-22
MW-18
MW-24
K-2
K-3
VEW-1
VEW-4
ASW
VEW-2
VEW-3
MW-16D
MW-23
MW-21
MW-20
MW-8S
MW-8D
MW-19
BM1:
RR SPIKE
NORTH SIDE PP #309
ELEV. - 818.61

N 2ND ST
S 2ND ST
WEST MAIN STREET

LANDS N/F OF
PETER M. TWASZ
AND JILL M. PLUMADORE
INSTRUMENT #2013-21904
TM# 137.015-5-5

LANDS N/F OF
THE FIRST PRESBYTERIAN CHURCH
OF BROADALBIN
L. 551 P. 52
TM# 137.015-5-8.2

LANDS N/F OF
JAMES M. HAKE
L. 828 P. 212
TM# 137.015-5-26

PARCEL II
AREA = 1,922 SQ. FT. OR 0.04 ACRES ±
APPARENT RECORD YARD OVERLAP

PARCEL I
AREA = 37,245 SQ. FT. OR 0.86 ACRES ±

LANDS N/F OF
WILLIAM J. HAYES III
INSTRUMENT #2015-32349
TM# 137.19-2-3

LANDS N/F OF
PERMA GLAZE CHEMICAL CORPORATION
L. 515 P. 238
TM# 137.015-5-25
AREA = 39,167 SQ. FT. OR 0.90 ACRES ±

LANDS N/F OF
THE FIRST PRESBYTERIAN CHURCH
OF BROADALBIN
L. 551 P. 505
TM# 137.015-5-24

LANDSCAPE FABRIC

LEGEND

- SITE PROPERTY LINE
- PROPERTY LINE
- DEED DIVISION LINE
- CHAIN LINK FENCE LINE
- 816 TOPOGRAPHY (1 FT.)
- CATCH BASIN
- UTILITY POLE
- LIGHT POLE
- SEWER MANHOLE
- WATER VALVE
- ELECTRIC METER
- GUY ANCHOR
- MW-18 MONITORING WELL

0 60' 120'

MAP REFERENCE:
MAPPING BASED ON A PLAN TITLED TOPOGRAPHIC SURVEY OF
NYSDEC INACTIVE HAZARDOUS WASTE SITE NO. 5-18-014
70 WEST MAIN STREET, BROADALBIN, NEW YORK
COUNTY OF FULTON, STATE OF NEW YORK BY, M J ENGINEERING,
AND LAND SURVEYING, P.C., DATED SEPTEMBER 10 2015, LAST REVISED
11/13/2015, INCLUDING ALL NOTES AND REFERENCES THEREIN.

Issue Status: DRAFT

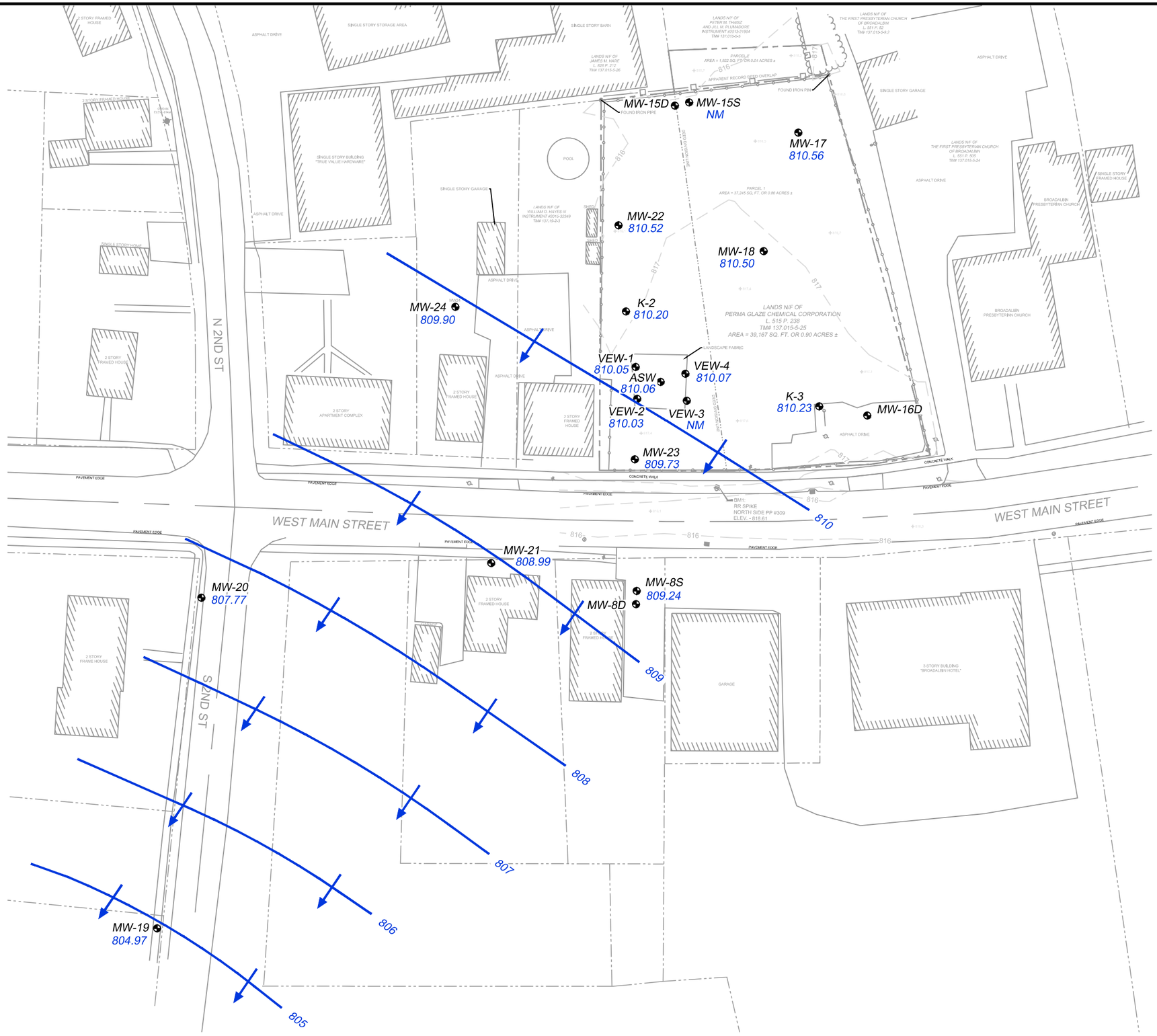
AECOM

Figure: 2

EXISTING CONDITIONS

KORKAY INC.
NYSDEC SITE ID: 518014
BROADALBIN, NEW YORK
Project No.: 60273289 Date: YYYY-MM-DD

Project Management Initials: Designer: Checked: Approved: ANSI B 11" x 17"



LEGEND

- SITE PROPERTY LINE
- PROPERTY LINE
- DEED DIVISION LINE
- CHAIN LINK FENCE LINE
- 816 — TOPOGRAPHY (1 FT.)
- CATCH BASIN
- UTILITY POLE
- LIGHT POLE
- SEWER MANHOLE
- WATER VALVE
- ELECTRIC METER
- GUY ANCHOR
- MW-18 — MONITORING WELL
- 810.23 — GROUNDWATER ELEVATION (OCTOBER 12, 2015)
- 810 — GROUNDWATER CONTOUR (OCTOBER 12, 2015)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

0 60' 120'

Issue Status: DRAFT

AECOM

Figure: 3

SHALLOW AQUIFER WATER TABLE CONTOUR MAP OCTOBER 12, 2015

KORKAY INC.
NYSDEC SITE ID: 518014
BROADALBIN, NEW YORK
Project No.: 60273289 Date: JANUARY 2016

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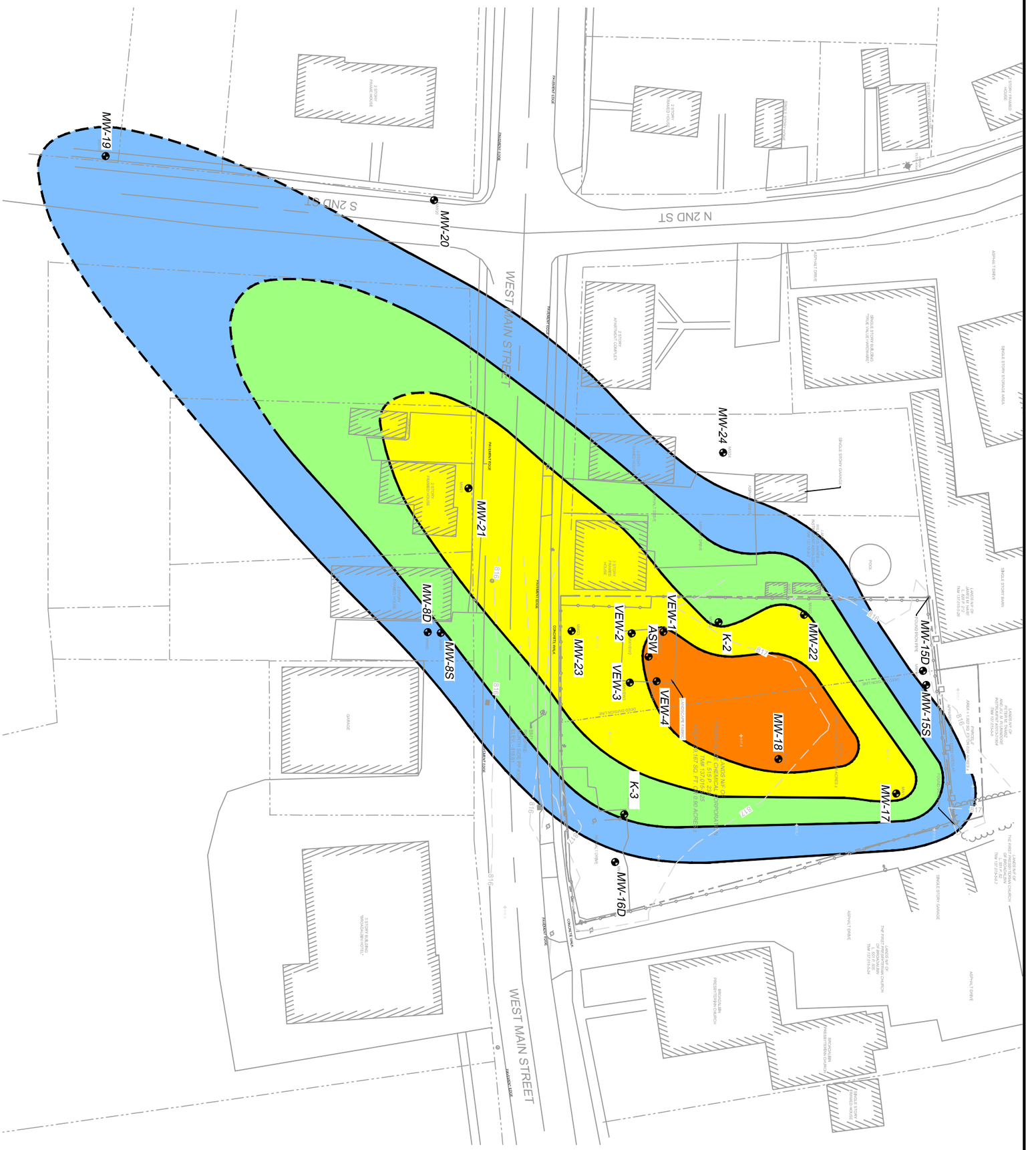

LEGEND

- SITE PROPERTY LINE
- PROPERTY LINE
- DEED DIVISION LINE
- CHAIN LINK FENCE LINE
- TOPOGRAPHY (1 FT.)
- CATCH BASIN
- UTILITY POLE
- LIGHT POLE
- SEWER MANHOLE
- WATER VALVE
- ELECTRIC METER
- GUY ANCHOR
- MW-18 MONITORING WELL
- TOTAL VOC CONCENTRATION 5 ug/L TO 10 ug/L
- TOTAL VOC CONCENTRATION 10 ug/L TO 100 ug/L
- TOTAL VOC CONCENTRATION 100 ug/L TO 1,000 ug/L
- TOTAL VOC CONCENTRATION >1,000 ug/L

0 60' 120'

Issue Status: DRAFT

KORKAY INC.
NYSDEC SITE ID: 518014
BROADALBIN, NEW YORK
Project No.: 60273289 Date: JANUARY 2016

TOTAL VOC ISOCONCENTRATION CONTOUR MAP
OCTOBER 14, 2015

AECOM

Figure: 4

Project Management Initials: Designer: Checked: Approved: ANSI B 11" x 17"

MW-15D
MW-15S
MW-17
MW-22
MW-18
MW-24
K-2
VEW-1
ASW
VEW-4
VEW-2
VEW-3
K-3
MW-16D
MW-23
MW-21
MW-20
MW-8S
MW-8D
MW-19

N 2ND ST
S 2ND ST
WEST MAIN STREET

LEGEND

- SITE PROPERTY LINE
- PROPERTY LINE
- DEED DIVISION LINE
- CHAIN LINK FENCE LINE
- 816 TOPOGRAPHY (1 FT.)
- CATCH BASIN
- UTILITY POLE
- LIGHT POLE
- SEWER MANHOLE
- WATER VALVE
- ELECTRIC METER
- GUY ANCHOR
- MW-18 MONITORING WELL
- TOTAL VOC CONCENTRATION 5 ug/L TO 10 ug/L
- TOTAL VOC CONCENTRATION 10 ug/L TO 100 ug/L
- TOTAL VOC CONCENTRATION 100 ug/L TO 1,000 ug/L
- TOTAL VOC CONCENTRATION >1,000 ug/L

NOTE:
ISCONCENTRATION CONTOURS DASHED WHERE INFERRED FROM OCTOBER 2015 SITE WIDE SAMPLE RESULTS.

0 60' 120'

Issue Status: DRAFT

AECOM

Figure: 5a

TOTAL VOC ISOCONCENTRATION CONTOUR MAP DECEMBER 8, 2015

KORKAY INC.
NYSDEC SITE ID: 518014
BROADALBIN, NEW YORK
Project No.: 60273289 Date: JANUARY 2016

Last saved by: MEISTERK(2016-01-21) Last Plotted: 2016-01-21
Filename: P:\60273289_KORKAY INC\CADD\[TASK_NUMBER]\CIVIL\SHEET\KORKAY-GW-DEC-2015.DWG

Project Management Initials: Designer: Checked: Approved: ANSI B 11" x 17"

MW-15D
MW-15S
MW-17
MW-22
MW-18
MW-24
K-2
VEW-1
VEW-4
ASW
K-3
MW-16D
VEW-2
VEW-3
MW-23
MW-21
MW-8S
MW-8D
MW-20
MW-19
N 2ND ST
S 2ND ST
WEST MAIN STREET

LEGEND

- SITE PROPERTY LINE
- PROPERTY LINE
- DEED DIVISION LINE
- CHAIN LINK FENCE LINE
- TOPOGRAPHY (1 FT.)
- CATCH BASIN
- UTILITY POLE
- LIGHT POLE
- SEWER MANHOLE
- WATER VALVE
- ELECTRIC METER
- GUY ANCHOR
- MW-18 MONITORING WELL
- TOTAL VOC CONCENTRATION 5 ug/L TO 10 ug/L
- TOTAL VOC CONCENTRATION 10 ug/L TO 100 ug/L
- TOTAL VOC CONCENTRATION 100 ug/L TO 1,000 ug/L
- TOTAL VOC CONCENTRATION >1,000 ug/L

0 60' 120'

Issue Status: DRAFT

AECOM

Figure: 5b

TOTAL VOC ISOCONCENTRATION CONTOUR MAP
MARCH 8, 2016

KORKAY INC.
NYSDEC SITE ID: 518014
BROADALBIN, NEW YORK
Project No.: 60273289 Date: APRIL 2016

Last saved by: MEISTERK(2016-04-07) Last Plotted: 2016-04-07
Filename: P:\60273289_KORKAY INC\CADD\[TASK_NUMBER]\CIVIL\SHEET\KORKAY-GW-MAR-2016.DWG

Project Management Initials: Designer: Checked: Approved: ANSI B 11" x 17"

MW-15D
MW-15S
MW-17
MW-22
MW-18
MW-24
K-2
VEW-1
VEW-4
ASW
VEW-2
VEW-3
MW-23
K-3
MW-16D
MW-21
MW-8S
MW-8D
MW-20
MW-19

N 2ND ST
S 2ND ST
WEST MAIN STREET

LEGEND

- SITE PROPERTY LINE
- PROPERTY LINE
- DEED DIVISION LINE
- CHAIN LINK FENCE LINE
- 816 TOPOGRAPHY (1 FT.)
- CATCH BASIN
- UTILITY POLE
- LIGHT POLE
- SEWER MANHOLE
- WATER VALVE
- ELECTRIC METER
- GUY ANCHOR
- MW-18 MONITORING WELL
- TOTAL VOC CONCENTRATION 5 ug/L TO 10 ug/L
- TOTAL VOC CONCENTRATION 10 ug/L TO 100 ug/L
- TOTAL VOC CONCENTRATION 100 ug/L TO 1,000 ug/L
- TOTAL VOC CONCENTRATION >1,000 ug/L

0 60' 120'

Issue Status: DRAFT

AECOM

Figure: 5c

TOTAL VOC ISOCONCENTRATION CONTOUR MAP MAY 31, 2016

KORKAY INC.
NYSDEC SITE ID: 518014
BROADALBIN, NEW YORK
Project No.: 60273289 Date: JUNE 2016

Last saved by: MEISTERK(2016-06-20) Last Plotted: 2016-06-20
Filename: P:\60273289_KORKAY INC\CADD\[TASK_NUMBER]\CIVIL\SHEET\KORKAY-GW-MAY-2016.DWG

Tables

Table 1
Groundwater Analytical Data

Korkay, Inc.
Broadalbin, New York (Site #518014)

Sampling Dates: August 2007 to October 2015

Well ID		MW-8D												MW-8S												MW-15D											
Volatile Organic Compounds (µg/L)	**AWQS or GV**	**8/14/07**		**11/25/08**		**3/25/10**		**1/10/12**		**6/25/13**		**10/15/15**		**8/14/07**		**11/25/08**		**3/25/10**		**1/10/12**		**6/25/13**		**10/15/15**		**8/14/07**		**11/25/08**		**3/25/10**		**1/10/12**		**6/25/13**		**10/14/15**	
1,1,1-Trichloroethane	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
1,2,4-Trimethylbenzene	5	5	U	**1.6**	**J**	5	U	1.0	U	10	U	1.0	U	**430**	**D**	**89**		5	U	1.0	U	10	U	**2.7**		5	U	5	U	5	U	1.0	U	10	U	200	U
1,2-Dichlorobenzene	3	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**26**		**5.6**		5	U	1.0	U	10	U	**1.8**		5	U	5	U	5	U	1.0	U	10	U	200	U
1,3,5-Trimethylbenzene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**97**		**36**		5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
1,4-Dichlorobenzene	3	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**3**	**J**	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
2-Butanone (MEK)	50 (GV)	5	U	5	U	5	U	1.0	U	10	U	10	U	5	U	5	U	5	U	1.0	U	10	U	10	U	5	U	5	U	5	U	1.0	U	10	U	2000	U
4-Isopropyltoluene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**20**		5	U	5	U	1.0	U	10	U	**0.80**	**J**	5	U	5	U	5	U	1.0	U	10	U	200	U
Acetone	50 (GV)	5	U	5	U	5	U	10	U	10	U	10	U	5	U	5	U	5	U	10	U	10	U	10	U	5	U	5	U	5	U	10	U	10	U	2000	U
Carbon Disulfide	60 (GV)	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
Chloroethane	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
Chloromethane	NS	5	U	5	U	**3.1**	**J**	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
cis-1,2-Dichloroethene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**9**		**1.3**	**J**	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
Cyclohexane	NS	NA		NA		NA		1.0	U	10	U	1.0	U	NA		NA		NA		1.0	U	10	U	1.0	U	NA		NA		NA		1.0	U	10	U	200	U
Ethylbenzene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**57**		**11**		5	U	1.0	U	10	U	**1.1**		5	U	5	U	5	U	1.0	U	10	U	200	U
Isopropylbenzene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**27**		**9.6**		5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
Methylcyclohexane	NS	NA		NA		NA		1.0	U	10	U	1.0	U	NA		NA		NA		1.0	U	10	U	1.0	U	NA		NA		NA		1.0	U	10	U	200	U
m,p-Xylene	5	5	U	5	U	5	U	2.0	U	NA		2.0	U	**160**		**28**		5	U	2.0	U	NA		**0.80**	**J**	5	U	5	U	5	U	2.0	U	NA		400	U
n-Butylbenzene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**45**		**12**		5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
n-Propylbenzene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**34**		**14**		5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
Naphthalene	10 (GV)	5	U	**1.2**	**J**	5	U	1.0	U	10	U	1.0	U	**58**		**10**		5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
o-Xylene	5	5	U	5	U	5	U	1.0	U	NA		1.0	U	**120**		**19**		5	U	1.0	U	NA		**3.0**		5	U	5	U	5	U	1.0	U	NA		200	U
sec-Butylbenzene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**22**		**6.8**		5	U	1.0	U	10	U	**0.92**	**J**	5	U	5	U	5	U	1.0	U	10	U	200	U
tert- Butylbenzene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
Tetrachloroethene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
Toluene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**1**	**J**	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
Trichloroethene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	200	U
Xylene (Total)	5	5	U	5	U	5	U	2.0	U	10	U	2.0	U	**280**		**47**		5	U	2.0	U	10	U	**3.8**		5	U	5	U	5	U	2.0	U	10	U	400	U
Total Volatile Organic Compounds		**ND**		**2.8**	**J**	**3**	**J**	**ND**		**ND**		**ND**		**1,109**	**DJ**	**242**	**J**	**ND**		**ND**		**ND**		**11.1**	**J**	**ND**		**ND**		**ND**		**ND**		**ND**		**ND**	
Semivolatile Organic Compounds (µg/L)																																					
1,2-Dichlorobenzene	3	10	U	NA		NA		4.7	U	NA		NA		**21**		NA		NA		4.7	U	NA		NA		10	U	NA		NA		4.7	U	NA		NA	
1,4-Dichlorobenzene	3	10	U	NA		NA		4.7	U	NA		NA		**2**	**J**	NA		NA		4.7	U	NA		NA		10	U	NA		NA		4.7	U	NA		NA	
2,4-Dimethylphenol	50 (GV)	10	U	NA		NA		4.7	U	NA		5.1	U	10	U	NA		NA		4.7	U	NA		520	U	10	U	NA		NA		4.7	U	NA		5.5	U
2-Methylnaphthalene	NS	10	U	NA		NA		4.7	U	NA		5.1	U	**7**	**J**	NA		NA		4.7	U	NA		520	U	10	U	NA		NA		4.7	U	NA		5.5	U
2-Methylphenol	NS	10	U	NA		NA		4.7	U	NA		5.1	U	10	U	NA		NA		4.7	U	NA		520	U	10	U	NA		NA		4.7	U	NA		5.5	U
4-Methylphenol	NS	10	U	NA		NA		9.4	U	NA		10	U	**14**		NA		NA		9.4	U	NA		1000	U	10	U	NA		NA		9.4	U	NA		11	U
Acenaphthene	20 (GV)	10	U	NA		NA		4.7	U	NA		5.1	U	10	U	NA		NA		4.7	U	NA		520	U	10	U	NA		NA		4.7	U	NA		5.5	U
Acenaphthylene	NS	10	U	NA		NA		4.7	U	NA		5.1	U	10	U	NA		NA		4.7	U	NA		520	U	10	U	NA		NA		4.7	U	NA		5.5	U
Acetophenone	NS	NA		NA		NA		4.7	U	NA		**1.1**	**J**	NA		NA		NA		4.7	U	NA		520	U	NA		NA		NA		4.7	U	NA		5.5	U
Biphenyl	5	NA		NA		NA		4.7	U	NA		5.1	U	NA		NA		NA		4.7	U	NA		520	U	NA		NA		NA		4.7	U	NA		5.5	U
bis (2-Ethylhexyl) phthalate	5	**2**	**J**	NA		NA		4.7	U	NA		5.1	U	**2**	**J**	NA		NA		4.7	U	NA		520	U	**2**	**J**	NA		NA		4.7	U	NA		5.5	U
Diethyl phthalate	50 (GV)	10	U	NA		NA		4.7	U	NA		5.1	U	10	U	NA		NA		4.7	U	NA		520	U	10	U	NA		NA		4.7	U	NA		5.5	U
Di-n-butylphthalate	50	10	U	NA		NA		4.7	U	NA		5.1	U	**1**	**J**	NA		NA		4.7	U	NA		520	U	10	U	NA		NA		4.7	U	NA		5.5	U
Dibenzofuran	NS	10	U	NA		NA		9.4	U	NA		10	U	10	U	NA		NA		9.4	U	NA		1000	U	10	U	NA		NA		9.4	U	NA		11	U
Fluorene	50 (GV)	10	U	NA		NA		4.7	U	NA		5.1	U	10	U	NA		NA		4.7	U	NA		520	U	10	U	NA		NA		4.7	U	NA		5.5	U
Naphthalene	10 (GV)	10	U	NA		NA		4.7	U	NA		5.1	U	**48**		NA		NA		4.7	U	NA		520	U	10	U	NA		NA		4.7	U	NA		5.5	U
Phenol	1	10	U	NA		NA		4.7	U	NA		5.1	U	10	U	NA		NA		4.7	U	NA		520	U	10	U	NA		NA		4.7	U	NA		**0.95**	**J**
Organochlorine Pesticides (µg/L)																																					
ALDRIN	ND	NA		NA		NA		NR		NR		0.049	U	NA		NA		NA		NR		NR		0.056	U	NA		NA		NA		NR		NR		0.057	U
ALPHA BHC (ALPHA HEXAC	0.01	NA		NA		NA		NR		NR		0.049	U	NA		NA		NA		NR		NR		0.056	U	NA		NA		NA		NR		NR		0.057	U
ALPHA CHLORDANE	NL	NA		NA		NA		NR		NR		0.049	U	NA		NA		NA		NR		NR		0.056	U	NA		NA		NA		NR		NR		0.057	U
DELTA BHC (DELTA HEXACI	0.04	NA		NA		NA		NR		NR		0.049	U	NA		NA		NA		NR		NR		0.056	U	NA		NA		NA		NR		NR		0.057	U
DIELDRIN	0.004	NA		NA		NA		NR		NR		0.049	U	NA		NA		NA		NR		NR		0.056	U	NA		NA		NA		NR		NR		0.057	U
ENDRIN	ND	NA		NA		NA		NR		NR		0.049	U	NA		NA		NA		NR		NR		0.056	U	NA		NA		NA		NR		NR		0.057	U
ENDRIN ALDEHYDE	5	NA		NA		NA		NR		NR		0.049	U	NA		NA		NA		NR		NR		0.056	U	NA		NA		NA		NR		NR		0.057	U
GAMMA BHC (LINDANE)	0.05	NA		NA		NA		NR		NR		0.049	U	NA		NA		NA		NR		NR		0.056	U	NA		NA		NA		NR		NR		0.057	U
Heptachlor	0.04	NA		NA		NA		0.25	U	0.05	U	0.049	U	NA		NA		NA		0.24	U	0.05	U	0.056	U	NA		NA		NA		0.24	U	0.05	U	0.057	U
HEPTACHLOR EPOXIDE	0.03	NA		NA		NA		NR		NR		0.049	U	NA		NA		NA		NR		NR		0.056	U	NA		NA		NA		NR		NR		0.057	U
4,4-DDD	0.3	NA		NA		NA		0.25	U	0.1	U	0.049	U	NA		NA		NA		0.24	U	0.1	U	0.056	U	NA		NA		NA		0.24	U	0.1	U	0.057	U
P,P'-DDE	0.2	NA		NA		NA		NR		NR		0.049	U	NA		NA		NA		NR		NR		0.056	U	NA		NA		NA		NR		NR		0.057	U
P,P'-DDT	0.2	NA		NA		NA		NR		NR		0.049	U	NA		NA		NA		NR		NR		0.056	U	NA		NA		NA		NR		NR		**0.040**	**J**
gamma-Chlordane	NL	NA		NA		NA		0.25	U	0.05	U	0.049	U	NA		NA		NA		0.24	U	0.05	U	0.056	U	NA		NA		NA		0.24	U	0.05	U	0.057	U

Notes:
Results compared to the New York State Ambient Water Quality Standards (AWQS) and Guidance Values (GV) (TOGs 1.1.1)
NS - No standard or GV.
NA - Not Analyzed. NR - Not Reported
BOLD font indicates compound concentrations detected above method detection limits
Shaded cells indicate exceedances of AWQS or GV
U - Compound analyzed for but not detected
ND - Non-detect
J - Estimated concentration for compound detected below the reporting limit
D - Reported concentration was obtained from a diluted analysis
Z - Concentration should be regarded as estimated
N - Indicates presumptive evidence of a compound
B - For organic analyses - compound detected in laboratory method blank; for inorganic analyses - indicates trace concentration below reporting limit and equal to or above the detection limit
* - Duplicate Sample

Table 1
Groundwater Analytical Data

Korkay, Inc.
Broadalbin, New York (Site #518014)

Sampling Dates: August 2007 to October 2015

Well ID		MW-15S														ASW														MW-16D *(formerly 'FLUSHMOUNT')*													
Volatile Organic Compounds (µg/L)	**AWQS or GV**	**8/14/07**		**11/25/08**		**3/25/10**				**1/10/12**		**6/25/13**		**10/14/15**		**8/14/07**		**11/25/08**		**3/25/10**		**1/10/12**				**6/25/13**		**10/13/15**		**8/14/07**		**11/25/08**		**3/25/10**		**1/10/12**		**6/25/13**		**10/14/15**	
1,1,1-Trichloroethane	5	5	U	5	U	5	U	5*	U	1.0	U	10	U	5.0	U	5	U	25	U	25	U	1.0	U	1.0 *	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U
1,2,4-Trimethylbenzene	5	**45**		**29**		**1.1**	**J**	**2.3***	**J**	1.0	U	**14**	**JN**	5.0	U	**130**	**D**	**1,100**	**D**	**860**		1.0	U	1.0 *	U	**410**	**JN**	**420**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
1,2-Dichlorobenzene	3	5	U	5	U	5	U	5*	U	1.0	U	10	U	5.0	U	**24**		**34**		**26**		**35**		**36 ***		**35**		**24**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
1,3,5-Trimethylbenzene	5	**36**		**25**		5	U	5*	U	1.0	U	10	U	5.0	U	**31**	**D**	**360**		**280**		1.0	U	1.0 *	U	**730**	**JN**	**260**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
1,4-Dichlorobenzene	3	5	U	5	U	5	U	5*	U	1.0	U	10	U	5.0	U	**3**	**J**	25	U	25	U	**5.1**		**5.3 ***		**5**	**J**	5.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U
2-Butanone (MEK)	50 (GV)	5	U	5	U	5	U	5*	U	1.0	U	10	U	50	U	**14**		**13**	**J**	25	U	**8.9**	**J**	**9.2 ***	**J**	**49**		**12**	**J**	5	U	5	U	5	U	1.0	U	10	U	**1.4**	**J**
4-Isopropyltoluene	5	**11**		**32**		**4.6**	**J**	5*	U	1.0	U	10	U	**2.6**	**J**	**39**		**61**		25	U	1.0	U	1.0 *	U	1	U	**37**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
Acetone	50 (GV)	5	U	5	U	5	U	5*	U	10	U	10	U	50	U	5	U	25	U	25	U	**10**		**10 ***		**43**		**22**	**J**	5	U	5	U	5	U	10	U	10	U	10	U
Carbon Disulfide	60 (GV)	5	U	5	U	5	U	5*	U	1.0	U	10	U	5.0	U	5	U	25	U	25	U	1.0	U	1.0 *	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U
Chloroethane	5	5	U	5	U	**1**	**J**	5*	U	1.0	U	10	U	5.0	U	5	U	25	U	25	U	**0.42**	**J**	1.0 *	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U
Chloromethane	NS	5	U	5	U	5	U	**4.4***	**J**	1.0	U	10	U	5.0	U	5	U	25	U	25	U	1.0	U	1.0 *	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U
cis-1,2-Dichloroethene	5	5	U	5	U	5	U	5*	U	1.0	U	10	U	5.0	U	**53**		**72**		**24**	**J**	**26**		**26 ***		**21**	**Z**	**24**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
Cyclohexane	NS	NA		NA		NA		NA		1.0	U	10	U	5.0	U	NA		NA		NA		**4.6**		**4.6 ***		**4**	**J**	5.0	U	NA		NA		NA		1.0	U	10	U	1.0	U
Ethylbenzene	5	5	U	5	U	5	U	5*	U	1.0	U	10	U	5.0	U	**65**	**D**	**430**		**150**		**160**	**D**	**160 ***	**D**	**220**	**D**	**110**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
Isopropylbenzene	5	5	U	5	U	5	U	5*	U	1.0	U	10	U	5.0	U	**49**		**86**		**50**		**56**		**56 ***		**62**		**34**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
Methylcyclohexane	NS	NA		NA		NA		NA		**2.6**		**2**	**J**	5.0	U	NA		NA		NA		**36**		**37 ***		**41**		**16**		NA		NA		NA		1.0	U	10	U	1.0	U
m,p-Xylene	5	5	U	5	U	5	U	5*	U	2.0	U	NA		10	U	**320**	**D**	**2,100**	**D**	**710**		**730**	**D**	**710 ***	**D**	NA		**340**		5	U	5	U	5	U	2.0	U	NA		2.0	U
n-Butylbenzene	5	**8**		**24**		**3.5**	**J**	**1.1***	**J**	1.0	U	10	U	5.0	U	**60**		**91**		**73**		1.0	U	1.0 *	U	1	U	**68**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
n-Propylbenzene	5	5	U	**2.6**	**J**	5	U	5*	U	1.0	U	10	U	5.0	U	**74**		**120**		**87**		1.0	U	1.0 *	U	**140**	**JN**	**60**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
Naphthalene	10 (GV)	**1**	**J**	5	U	5	U	5*	U	1.0	U	10	U	5.0	U	**130**		**160**		**100**		1.0	U	1.0 *	U	1	U	**84**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
o-Xylene	5	**3**	**J**	5	U	5	U	5*	U	**1.0**		NA		5.0	U	**210**	**D**	**1,000**	**D**	**430**		**450**	**D**	**440 ***	**D**	NA		**390**		5	U	5	U	5	U	1.0	U	NA		1.0	U
sec-Butylbenzene	5	**5**		**18**		**2.8**	**J**	5*	U	1.0	U	10	U	5.0	U	**28**		**46**		**37**		1.0	U	1.0 *	U	1	U	**30**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
tert- Butylbenzene	5	5	U	**1.4**	**J**	5	U	5*	U	1.0	U	10	U	5.0	U	5	U	25	U	25	U	1.0	U	1.0 *	U	1	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U
Tetrachloroethene	5	**2**	**J**	5	U	5	U	5*	U	**0.90**	**J**	10	U	5.0	U	5	U	25	U	25	U	**0.65**	**J**	**0.67 ***	**J**	**4**	**J**	5.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U
Toluene	5	**13**		**1.3**	**J**	5	U	5*	U	**2.0**		**1**	**J**	5.0	U	**19**		**26**		**22**	**J**	**21**		**21 ***		**18**		**10**		5	U	5	U	5	U	1.0	U	10	U	1.0	U
Trichloroethene	5	5	U	5	U	5	U	5*	U	1.0	U	10	U	5.0	U	5	U	**8.2**	**JB**	25	U	**0.51**	**J**	**0.53 ***	**J**	**5**	**J**	5.0	U	5	U	5	U	5	U	1.0	U	10	U	1.0	U
Xylene (Total)	NS	**3**	**J**	5	U	5	U	5*	U	**1.0**	**J**	10	U	10	U	**530**	**D**	**3,100**	**D**	**1,100**		**1,200**	**D**	**1,200 ***	**D**	**1,800**	**D**	**550**		5	U	5	U	5	U	2.0	U	10	U	2.0	U
Total Volatile Organic Compounds		**124**	**J**	**133.3**	**J**	**13**	**J**	**7.8**	**J**	**7**	**J**	**17**	**JN**	**2.6**	**J**	**1,249**	**DJ**	**5,707**	**DJB**	**2,849**	**J**	**1,544.18**	**JD**	**1,516.3**	**JD**	**3,587**	**JNZD**	**1,941**	**J**	**ND**		**ND**		**ND**		**ND**		**ND**		**1.4**	**J**
Semivolatile Organic Compounds (µg/L)																																									
1,2-Dichlorobenzene	3	10	U	NA		NA		NA		4.7	U	NA		NA		**19**	**J**	NA		NA		4.7	U	4.7*	U	NA		NA		10	U	NA		NA		4.7	U	NA		NA	
1,4-Dichlorobenzene	3	10	U	NA		NA		NA		4.7	U	NA		NA		**2**	**J**	NA		NA		**5.1**		**5.3 ***		NA		NA		10	U	NA		NA		4.7	U	NA		NA	
2,4-Dimethylphenol	50 (GV)	10	U	NA		NA		NA		4.7	U	NA		26	U	20	U	NA		NA		**1.5**	**J**	**1.1 ***	**J**	NA		**2.7**	**J**	10	U	NA		NA		4.7	U	NA		5.4	U
2-Methylnaphthalene	NS	10	U	NA		NA		NA		4.7	U	NA		26	U	**50**		NA		NA		**57**		**55 ***		NA		**23**		10	U	NA		NA		4.7	U	NA		5.4	U
2-Methylphenol	NS	10	U	NA		NA		NA		4.7	U	NA		26	U	20	U	NA		NA		4.7	U	4.7*	U	NA		4.8	U	10	U	NA		NA		4.7	U	NA		5.4	U
4-Methylphenol	NS	10	U	NA		NA		NA		9.4	U	NA		**4.4**	**J**	**170**		NA		NA		**7.6**	**J**	**7.0 ***	**J**	NA		**61**		10	U	NA		NA		9.4	U	NA		11	U
Acenaphthene	20 (GV)	10	U	NA		NA		NA		4.7	U	NA		26	U	20	U	NA		NA		**0.44**	**J**	**0.42 ***	**J**	NA		4.8	U	10	U	NA		NA		4.7	U	NA		5.4	U
Acenaphthylene	NS	10	U	NA		NA		NA		4.7	U	NA		26	U	20	U	NA		NA		**0.76**	**J**	**0.73 ***	**J**	NA		4.8	U	10	U	NA		NA		4.7	U	NA		5.4	U
Acetophenone	NS	NA		NA		NA		NA		**73**		NA		26	U	NA		NA		NA		**130**		**130 ***		NA		4.8	U	NA		NA		NA		4.7	U	NA		5.4	U
Biphenyl	5	NA		NA		NA		NA		4.7	U	NA		26	U	NA		NA		NA		**3.9**	**J**	**3.7 ***	**J**	NA		**1.7**	**J**	NA		NA		NA		4.7	U	NA		5.4	U
bis (2-Ethylhexyl) phthalate	5	**2**	**J**	NA		NA		NA		4.7	U	NA		26	U	**2**	**J**	NA		NA		4.7	U	4.7*	U	NA		4.8	U	10	U	NA		NA		4.7	U	NA		**2.4**	**J**
Diethyl phthalate	50 (GV)	10	U	NA		NA		NA		4.7	U	NA		26	U	20	U	NA		NA		4.7	U	4.7*	U	NA		4.8	U	10	U	NA		NA		4.7	U	NA		5.4	U
Di-n-butylphthalate	50	10	U	NA		NA		NA		4.7	U	NA		26	U	**4**	**J**	NA		NA		**1.8**	**J**	**1.7 ***	**J**	NA		**1.7**	**J**	10	U	NA		NA		4.7	U	NA		5.4	U
Dibenzofuran	NS	10	U	NA		NA		NA		9.4	U	NA		52	U	20	U	NA		NA		**0.64**	**J**	**0.64 ***	**J**	NA		9.7	U	10	U	NA		NA		9.4	U	NA		11	U
Fluorene	50 (GV)	10	U	NA		NA		NA		4.7	U	NA		26	U	20	U	NA		NA		**0.74**	**J**	**0.68 ***	**J**	NA		**0.46**	**J**	10	U	NA		NA		4.7	U	NA		5.4	U
Naphthalene	10 (GV)	**1**	**J**	NA		NA		NA		4.7	U	NA		26	U	**110**		NA		NA		**89**		**85 ***		NA		**46**		10	U	NA		NA		4.7	U	NA		5.4	U
Phenol	1	10	U	NA		NA		NA		4.7	U	NA		26	U	20	U	NA		NA		4.7	U	4.7*	U	NA		4.8	U	10	U	NA		NA		4.7	U	NA		5.4	U
Organochlorine Pesticides (µg/L)																																									
ALDRIN	ND	NA		NA		NA		NA		NR		NR		0.055	U	NA		NA		NA		NR		NR		NR		0.50	U	NA		NA		NA		NR		NR		0.050	U
ALPHA BHC (ALPHA HEXAC	0.01	NA		NA		NA		NA		NR		NR		**0.0089**	**J**	NA		NA		NA		NR		NR		NR		**0.12**	**BJ**	NA		NA		NA		NR		NR		0.050	U
ALPHA CHLORDANE	NL	NA		NA		NA		NA		NR		NR		**0.66**		NA		NA		NA		NR		NR		NR		0.50	U	NA		NA		NA		NR		NR		**0.036**	**J**
DELTA BHC (DELTA HEXAC	0.04	NA		NA		NA		NA		NR		NR		0.055	U	NA		NA		NA		NR		NR		NR		**0.14**	**J**	NA		NA		NA		NR		NR		0.050	U
DIELDRIN	0.004	NA		NA		NA		NA		NR		NR		**0.012**	**J**	NA		NA		NA		NR		NR		NR		0.50	U	NA		NA		NA		NR		NR		0.050	U
ENDRIN	ND	NA		NA		NA		NA		NR		NR		**0.033**	**J**	NA		NA		NA		NR		NR		NR		0.50	U	NA		NA		NA		NR		NR		0.050	U
ENDRIN ALDEHYDE	5	NA		NA		NA		NA		NR		NR		0.055	U	NA		NA		NA		NR		NR		NR		0.50	U	NA		NA		NA		NR		NR		**0.017**	**J**
GAMMA BHC (LINDANE)	0.05	NA		NA		NA		NA		NR		NR		**0.049**	**J**	NA		NA		NA		NR		NR		NR		0.50	U	NA		NA		NA		NR		NR		0.050	U
Heptachlor	0.04	NA		NA		NA		NA		**0.093**	**J**	**0.05**	**U**	0.055	U	NA		NA		NA		2.4	U	2.4*	U	0.05	U	0.50	U	NA		NA		NA		NA		0.24	U	0.05	U	0.050	U
HEPTACHLOR EPOXIDE	0.03	NA		NA		NA		NA		NR		NR		**0.063**		NA		NA		NA		NR		NR		NR		0.50	U	NA		NA		NA		NR		NR		0.050	U
4,4-DDD	0.3	NA		NA		NA		NA		**0.12**	**J**	**0.1**	**U**	**0.033**	**J**	NA		NA		NA		2.4	U	2.4*	U	0.1	U	0.50	U	NA		NA		NA		NA		0.24	U	0.1	U	0.050	U
P,P'-DDE	0.2	NA		NA		NA		NA		NR		NR		**0.038**	**J**	NA		NA		NA		NR		NR		NR		0.50	U	NA		NA		NA		NR		NR		0.050	U
P,P'-DDT	0.2	NA		NA		NA		NA		NR		NR		0.055	U	NA		NA		NA		NR		NR		NR		0.50	U	NA		NA		NA		NR		NR		0.050	U
gamma-Chlordane	NL	NA		NA		NA		NA		**0.22**	**J**	**0.29**		**0.18**		NA		NA		NA		2.4	U	2.4*	U	0.05	U	0.50	U	NA		NA		NA		NA		0.24	U	0.05	U	**0.15**	

Notes:
Results compared to the New York State Ambient Water Quality Standards (AWQS) and Guidance Values (GV) (TOGs 1.1.1)
NS - No standard or GV.
NA - Not Analyzed. NR - Not Reported
BOLD font indicates compound concentrations detected above method detection limits
Shaded cells indicate exceedances of AWQS or GV
U - Compound analyzed for but not detected
ND - Non-detect
J - Estimated concentration for compound detected below the reporting limit
D - Reported concentration was obtained from a diluted analysis
Z - Concentration should be regarded as estimated
N - Indicates presumptive evidence of a compound
B - For organic analyses - compound detected in laboratory method blank; for inorganic analyses - indicates trace concentration below reporting limit and equal to or above the detection limit
* - Duplicate Sample

Table 1
Groundwater Analytical Data

Korkay, Inc.
Broadalbin, New York (Site #518014)

Sampling Dates: August 2007 to October 2015

Well ID		K-2														K-3														VEW-1											
Volatile Organic Compounds (µg/L)	**AWQS or GV**	**8/14/07**				**11/25/08**		**3/25/10**		**1/10/12**		**6/25/13**		**10/14/15**		**8/14/07**		**11/25/08**		**3/25/10**		**1/10/12**		**6/25/13**				**10/14/15**		**8/14/07**		**11/25/08**		**3/25/10**		**1/10/12**		**6/25/13**		**10/13/15**	
1,1,1-Trichloroethane	5	5	U	5*	U	5	U	5	U	1.0	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**2**	**J**	5	U	13	U	1.0	U	10	U	2.0	U
1,2,4-Trimethylbenzene	5	**60**		**60***		**81**		**2.5**	**J**	1.0	U	10	U	**16**		5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**230**	**D**	**410**	**D**	**220**		1.0	U	10	U	**240**	
1,2-Dichlorobenzene	3	5	U	5*	U	5	U	5	U	1.0	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**23**		**34**		**19**		**24**		**17**		**19**	
1,3,5-Trimethylbenzene	5	**3**	**J**	3*	U	**8.4**		5	U	1.0	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**230**	**D**	**410**	**D**	**200**		1.0	U	**240**	**JN**	**270**	
1,4-Dichlorobenzene	3	5	U	5*	U	5	U	5	U	1.0	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**1**	**J**	**2.3**	**J**	13	U	1.0	U	10	U	2.0	U
2-Butanone (MEK)	50 (GV)	5	U	5*	U	5	U	5	U	1.0	U	10	U	**7.4**	**J**	5	U	5	U	5	U	1.0	U	10	U	10*	U	**13**		**13**		**17**		13	U	**2.5**	**J**	10	U	**15**	**J**
4-Isopropyltoluene	5	**2**	**J**	**2***	**J**	5	U	5	U	1.0	U	10	U	**3.4**	**J**	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**36**		5	U	**59**		1.0	U	10	U	**45**	
Acetone	50 (GV)	5	U	5*	U	5	U	5	U	**3.7**	**J**	10	U	50	U	5	U	5	U	5	U	10	U	10	U	10*	U	10	U	**10**		**34**		13	U	**6.2**	**J**	10	U	**37**	
Carbon Disulfide	60 (GV)	5	U	5*	U	5	U	5	U	1.0	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**1**	**J**	5	U	13	U	1.0	U	10	U	2.0	U
Chloroethane	5	5	U	5*	U	5	U	5	U	**0.67**	**J**	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**5**	U	5	U	**4.7**	**J**	1.0	U	10	U	2.0	U
Chloromethane	NS	5	U	5*	U	NA		**2.5**	**J**	1.0	U	10	U	5.0	U	5	U	5	U	**4.8**	**J**	1.0	U	10	U	10*	U	1.0	U	**5**	U	5	U	**6.7**	**J**	1.0	U	10	U	2.0	U
cis-1,2-Dichloroethene	5	**4**	**J**	**4***	**J**	**6.2**		5	U	**4.2**		10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**130**		**84**		**39**		**22**		**5**	**J**	**19**	
Cyclohexane	NS	NA		NA		NA		NA		1.0	U	10	U	5.0	U	NA		NA		NA		1.0	U	10	U	10*	U	1.0	U	NA		NA		NA		**0.47**	**J**	10	U	2.0	U
Ethylbenzene	5	**12**		**13***		**9.3**		5	U	**13**		10	U	**7.1**		5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**29**		**54**		**28**		**25**		**24**		**28**	
Isopropylbenzene	5	**4**	**J**	**4***	**J**	**5.7**		5	U	**2.6**		10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**11**		**23**		**12**	**J**	**13**		**11**		**12**	
Methylcyclohexane	NS	NA		NA		NA		NA		**2.3**		10	U	5.0	U	NA		NA		NA		1.0	U	10	U	10*	U	1.0	U	NA		NA		NA		**3.4**		**3**	**JZ**	**1.8**	**J**
m,p-Xylene	5	**16**		**16***		**14**		5	U	**19**		NA		**28**		5	U	5	U	5	U	2.0	U	NA		NA		2.0	U	**49**		**100**		**51**		**47**		NA		**58**	
n-Butylbenzene	5	**8**		**8***		**23**		**1.3**	**J**	1.0	U	10	U	**4.6**	**J**	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**54**		5	U	**47**		1.0	U	10	U	**62**	
n-Propylbenzene	5	**4**	**J**	**4***	**J**	**13**		5	U	1.0	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**14**		**30**		**19**		1.0	U	10	U	**18**	
Naphthalene	10 (GV)	**10**	**B**	**8***	**B**	**5.4**		5	U	1.0	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**110**	**B**	5	U	**78**		1.0	U	10	U	**110**	
o-Xylene	5	**30**		**30***		**17**		5	U	**24**		NA		**32**		5	U	5	U	5	U	1.0	U	NA		NA		1.0	U	**250**	**D**	**330**	**D**	**160**		**180**	**D**	NA		**200**	
sec-Butylbenzene	5	**6**		**6***		**18**		5	U	1.0	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**17**		5	U	**19**		1.0	U	10	U	**19**	
tert- Butylbenzene	5	5	U	5*	U	5	U	5	U	1.0	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**4**	**J**	5	U	13	U	1.0	U	10	U	**4.6**	
Tetrachloroethene	5	**2**	**JB**	**2***	**JB**	**1.5**	**J**	5	U	**0.64**	**J**	10	U	5.0	U	5	U	**1.2**	**J**	5	U	**0.77**	**J**	10	U	10*	U	**0.45**	**J**	**2**	**JB**	**1.7**	**J**	13	U	**0.99**	**J**	**1**	**J**	2.0	U
Toluene	5	5	U	5*	U	5	U	5	U	**0.59**	**J**	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	**0.59**	**J**	**4**	**J**	**4.4**	**J**	**3.4**	**J**	**1.6**		**2**	**J**	**2**	
Trichloroethene	5	**1**	**J**	5*	U	5	U	5	U	1.0	U	10	U	5.0	U	5	U	5	U	5	U	1.0	U	10	U	10*	U	1.0	U	**2**	**J**	**3.1**	**J**	13	U	**1.6**		**2**	**J**	2.0	U
Xylene (Total)	NS	**46**		**46***		**31**		5	U	**43**		**5**	**J**	**60**		5	U	5	U	5	U	2.0	U	10	U	**4***	**J**	2.0	U	**299**	**D**	**420**		**220**		**230**	**D**	**210**		**260**	
Total Volatile Organic Compounds		**162**	**JB**	**157**	**JB**	**203**	**J**	**6**	**J**	**70.7**	**J**	**5**	**J**	**98.5**	**J**	**ND**		**1.2**	**J**	**5**	**J**	**0.77**	**J**	**ND**		**4**	**J**	**14.04**	**J**	**1,222**	**JDB**	**1,543**	**DJ**	**966**	**J**	**327.76**	**JD**	**515**	**JNZ**	**1,160.4**	**J**
Semivolatile Organic Compounds (µg/L)																																									
1,2-Dichlorobenzene	3	10	U	NA		NA		NA		4.7	U	NA		NA		10	U	NA		NA		4.7	U	NA		NA		NA		**25**		NA		NA		4.7	U	NA		NA	
1,4-Dichlorobenzene	3	10	U	NA		NA		NA		4.7	U	NA		NA		10	U	NA		NA		4.7	U	NA		NA		NA		**2**	**J**	NA		NA		4.7	U	NA		NA	
2,4-Dimethylphenol	50 (GV)	10	U	NA		NA		NA		4.7	U	NA		54	U	10	U	NA		NA		4.7	U	NA		NA		5.1	U	10	U	NA		NA		4.7	U	NA		**9.3**	**J**
2-Methylnaphthalene	NS	10	U	NA		NA		NA		**6.6**		NA		54	U	10	U	NA		NA		4.7	U	NA		NA		5.1	U	**24**		NA		NA		**15**		NA		49	U
2-Methylphenol	NS	10	U	NA		NA		NA		4.7	U	NA		54	U	10	U	NA		NA		4.7	U	NA		NA		5.1	U	10	U	NA		NA		4.7	U	NA		49	U
4-Methylphenol	NS	10	U	NA		NA		NA		**4.7**	**J**	NA		110	U	10	U	NA		NA		9.4	U	NA		NA		10	U	**56**		NA		NA		**95**		NA		**12**	**J**
Acenaphthene	20 (GV)	10	U	NA		NA		NA		4.7	U	NA		54	U	10	U	NA		NA		4.7	U	NA		NA		5.1	U	10	U	NA		NA		4.7	U	NA		49	U
Acenaphthylene	NS	10	U	NA		NA		NA		4.7	U	NA		54	U	10	U	NA		NA		4.7	U	NA		NA		5.1	U	10	U	NA		NA		4.7	U	NA		49	U
Acetophenone	NS	NA		NA		NA		NA		**26**		NA		54	U	NA		NA		NA		4.7	U	NA		NA		5.1	U	NA		NA		NA		**180**		NA		49	U
Biphenyl	5	NA		NA		NA		NA		**0.79**	**J**	NA		54	U	NA		NA		NA		4.7	U	NA		NA		5.1	U	NA		NA		NA		4.7	U	NA		49	U
bis (2-Ethylhexyl) phthalate	5	10	U	NA		NA		NA		4.7	U	NA		54	U	10	U	NA		NA		4.7	U	NA		NA		5.1	U	**1**	**J**	NA		NA		4.7	U	NA		49	U
Diethyl phthalate	50 (GV)	10	U	NA		NA		NA		4.7	U	NA		54	U	10	U	NA		NA		4.7	U	NA		NA		5.1	U	10	U	NA		NA		4.7	U	NA		49	U
Di-n-butylphthalate	50	10	U	NA		NA		NA		4.7	U	NA		54	U	10	U	NA		NA		4.7	U	NA		NA		5.1	U	**15**		NA		NA		**10**		NA		**7.1**	**J**
Dibenzofuran	NS	10	U	NA		NA		NA		9.4	U	NA		110	U	10	U	NA		NA		9.4	U	NA		NA		10	U	10	U	NA		NA		9.4	U	NA		98	U
Fluorene	50 (GV)	10	U	NA		NA		NA		4.7	U	NA		54	U	10	U	NA		NA		4.7	U	NA		NA		5.1	U	10	U	NA		NA		4.7	U	NA		49	U
Naphthalene	10 (GV)	10	U	NA		NA		NA		**4.3**	**J**	NA		54	U	10	U	NA		NA		4.7	U	NA		NA		5.1	U	**110**		NA		NA		**76**		NA		49	U
Phenol	1	10	U	NA		NA		NA		4.7	U	NA		54	U	10	U	NA		NA		4.7	U	NA		NA		5.1	U	10	U	NA		NA		4.7	U	NA		**9.9**	**J**
Organochlorine Pesticides (µg/L)																																									
ALDRIN	ND	NA		NA		NA		NA		NR		NR		0.51	U	NA		NA		NA		NR		NR		NR		0.049	U	NA		NA		NA		NR		NR		1.0	U
ALPHA BHC (ALPHA HEXAC	0.01	NA		NA		NA		NA		NR		NR		0.51	U	NA		NA		NA		NR		NR		NR		0.049	U	NA		NA		NA		NR		NR		**0.29**	**BJ**
ALPHA CHLORDANE	NL	NA		NA		NA		NA		NR		NR		**2.8**		NA		NA		NA		NR		NR		NR		0.049	U	NA		NA		NA		NR		NR		1.0	U
DELTA BHC (DELTA HEXAC	0.04	NA		NA		NA		NA		NR		NR		0.51	U	NA		NA		NA		NR		NR		NR		0.049	U	NA		NA		NA		NR		NR		**0.33**	**J**
DIELDRIN	0.004	NA		NA		NA		NA		NR		NR		0.51	U	NA		NA		NA		NR		NR		NR		**0.0097**	**J**	NA		NA		NA		NR		NR		1.0	U
ENDRIN	ND	NA		NA		NA		NA		NR		NR		0.51	U	NA		NA		NA		NR		NR		NR		0.049	U	NA		NA		NA		NR		NR		1.0	U
ENDRIN ALDEHYDE	5	NA		NA		NA		NA		NR		NR		0.51	U	NA		NA		NA		NR		NR		NR		0.049	U	NA		NA		NA		NR		NR		1.0	U
GAMMA BHC (LINDANE)	0.05	NA		NA		NA		NA		NR		NR		0.51	U	NA		NA		NA		NR		NR		NR		0.049	U	NA		NA		NA		NR		NR		1.0	U
Heptachlor	0.04	NA		NA		NA		NA		**0.15**	**J**	0.05	U	0.51	U	NA		NA		NA		0.24	U	0.05	U	0.05	U	0.049	U	NA		NA		NA		2.4	U	0.05	U	1.0	U
HEPTACHLOR EPOXIDE	0.03	NA		NA		NA		NA		NR		NR		**0.11**	**J**	NA		NA		NA		NR		NR		0.05	U	0.049	U	NA		NA		NA		NR		NR		1.0	U
4,4-DDD	0.3	NA		NA		NA		NA		**0.23**	**J**	0.1	U	0.51	U	NA		NA		NA		0.24	U	0.1	U	0.1	U	0.049	U	NA		NA		NA		2.4	U	0.1	U	1.0	U
P,P'-DDE	0.2	NA		NA		NA		NA		NR		NR		**0.19**	**J**	NA		NA		NA		NR		NR		0.05	U	0.049	U	NA		NA		NA		NR		NR		1.0	U
P,P'-DDT	0.2	NA		NA		NA		NA		NR		NR		0.51	U	NA		NA		NA		NR		NR		0.1	U	0.049	U	NA		NA		NA		NR		NR		1.0	U
gamma-Chlordane	NL	NA		NA		NA		NA		**0.82**		**0.48**		**0.75**		NA		NA		NA		0.24	U	0.05	U	0.05	U	0.049	U	NA		NA		NA		2.4	U	0.05	U	1.0	U

Notes:
Results compared to the New York State Ambient Water Quality Standards (AWQS) and Guidance Values (GV) (TOGs 1.1.1)
NS - No standard or GV.
NA - Not Analyzed. NR - Not Reported
BOLD font indicates compound concentrations detected above method detection limits
Shaded cells indicate exceedances of AWQS or GV
U - Compound analyzed for but not detected
ND - Non-detect
J - Estimated concentration for compound detected below the reporting limit
D - Reported concentration was obtained from a diluted analysis
Z - Concentration should be regarded as estimated
N - Indicates presumptive evidence of a compound
B - For organic analyses - compound detected in laboratory method blank; for inorganic analyses - indicates trace concentration below reporting limit and equal to or above the detection limit
* - Duplicate Sample

Table 1
Groundwater Analytical Data

Korkay, Inc.
Broadalbin, New York (Site #518014)

Sampling Dates: August 2007 to October 2015

Well ID		VEW-2												VEW-3												VEW-4											
Volatile Organic Compounds (µg/L)	**AWQS or GV**	**8/14/07**		**11/25/08**		**3/25/10**		**1/10/12**		**6/25/13**		**10/13/15**		**8/14/07**		**11/25/08**		**3/25/10**		**1/10/12**		**6/25/13**		**10/14/15**		**8/14/07**		**11/25/08**		**3/25/10**		**1/10/12**		**6/25/13**		**10/14/15**	
1,1,1-Trichloroethane	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	NA		5	U	5	U	5	U	1.0	U	10	U	NA	
1,2,4-Trimethylbenzene	5	**22**		**9.8**		5	U	1.0	U	10	U	**170**		**130**		**130**		**2**	**J**	1.0	U	**37**	**JN**	NA		**12**		**170**		**3.1**	**J**	1.0	U	**28**	**JN**	NA	
1,2-Dichlorobenzene	3	**1**	**J**	**1.2**	**J**	5	U	1.0	U	10	U	**18**		**30**		**25**		5	U	**3.1**		**5**	**J**	NA		**2**	**J**	**16**		5	U	**3.9**		**1**	**J**	NA	
1,3,5-Trimethylbenzene	5	**1**	**J**	5	U	5	U	1.0	U	10	U	**57**		**110**		**110**		**1.8**	**J**	1.0	U	**28**	**JN**	NA		**6**		**100**		**2.1**	**J**	1.0	U	**20**	**JN**	NA	
1,4-Dichlorobenzene	3	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**1.0**	**J**	5	U	5	U	1.0	U	10	U	NA		5	U	**1**	**J**	5	U	1.0	U	10	U	NA	
2-Butanone (MEK)	50 (GV)	5	U	5	U	5	U	1.0	U	10	U	10	U	**9**		**11**		5	U	**3.2**	**J**	10	U	NA		5	U	**8.1**		5	U	**3.0**	**J**	10	U	NA	
4-Isopropyltoluene	5	5	U	5	U	5	U	1.0	U	10	U	**3.8**		**12**		**12**		5	U	1.0	U	10	U	NA		5	U	5	U	5	U	1.0	U	10	U	NA	
Acetone	50 (GV)	5	U	5	U	5	U	10	U	10	U	**11**		5	U	5	U	5	U	10	U	10	U	NA		**70**		**8.8**		5	U	**5.2**	**J**	10	U	NA	
Carbon Disulfide	60 (GV)	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	NA		5	U	5	U	5	U	1.0	U	10	U	NA	
Chloroethane	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	NA		5	U	5	U	5	U	1.0	U	10	U	NA	
Chloromethane	NS	5	U	5	U	5	U	1.0	U	10	U	1.0	U	5	U	5	U	5	U	1.0	U	10	U	NA		5	U	5	U	**6.1**		1.0	U	10	U	NA	
cis-1,2-Dichloroethene	5	**39**		**4.6**	**J**	5	U	1.0	U	10	U	**9.9**		**4**	**J**	**2.6**	**J**	5	U	1.0	U	10	U	NA		**2**	**J**	**3.5**	**J**	5	U	**2.0**		10	U	NA	
Cyclohexane	NS	NA		NA		NA		1.0	U	10	U	**1.3**		NA		NA		NA		1.0	U	10	U	NA		NA		NA		NA		1.0	U	10	U	NA	
Ethylbenzene	5	**5**		**1.6**	**J**	5	U	1.0	U	10	U	**45**		**32**		**38**		5	U	**6.6**		**10**		NA		5	U	**17**		5	U	**4.3**		10	U	NA	
Isopropylbenzene	5	5	U	5	U	5	U	1.0	U	10	U	**11**		**6**		**6.9**		5	U	**0.87**	**J**	**1**	**J**	NA		5	U	**4.5**	**J**	5	U	**2.0**		10	U	NA	
Methylcyclohexane	NS	NA		NA		NA		1.0	U	10	U	**0.83**	**J**	NA		NA		NA		1.0	U	10	U	NA		NA		NA		NA		**0.81**	**J**	10	U	NA	
m,p-Xylene	5	**5**		**1.8**	**J**	5	U	2.0	U	NA		**150**		**120**		**150**		**2.9**	**J**	**22**		NA	U	NA		**4**	**J**	**84**		**1.5**	**J**	**18**		NA		NA	
n-Butylbenzene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**17**		**15**		5	U	1.0	U	10	U	NA		5	U	**14**		5	U	1.0	U	10	U	NA	
n-Propylbenzene	5	**1**	**J**	**1.1**	**J**	5	U	1.0	U	10	U	**15**		**7**		**8.9**		5	U	1.0	U	10	U	NA		5	U	**3.3**	**J**	5	U	1.0	U	10	U	NA	
Naphthalene	10 (GV)	**6**	**B**	**4.4**	**J**	5	U	1.0	U	10	U	**45**		**70**		**45**		**1.8**	**J**	1.0	U	10	U	NA		**18**		**60**		5	U	1.0	U	10	U	NA	
o-Xylene	5	**17**		**4.5**	**J**	5	U	1.0	U	NA		**99**		**110**		**110**		**2.1**	**J**	**16**		NA	U	NA		**20**		**180**		**2.5**	**J**	**36**		NA		NA	
sec-Butylbenzene	5	5	U	5	U	5	U	1.0	U	10	U	**1.8**		**4**	**J**	**5.1**		5	U	1.0	U	10	U	NA		5	U	**4.1**	**J**	5	U	1.0	U	10	U	NA	
tert- Butylbenzene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**2**	**J**	5	U	5	U	1.0	U	10	U	NA		5	U	5	U	5	U	1.0	U	10	U	NA	
Tetrachloroethene	5	5	U	5	U	5	U	1.0	U	10	U	1.0	U	**1**	**J**	**1.2**	**J**	5	U	**1.4**		10	U	NA		5	U	**3**	**J**	5	U	**0.45**	**J**	10	U	NA	
Toluene	5	**3**	**J**	5	U	5	U	1.0	U	10	U	**17**		5	U	**7.9**		5	U	**3.2**		**4**	**J**	NA		**2**	**J**	**7.8**		5	U	**1.6**		10	U	NA	
Trichloroethene	5	5	U	5	U	5	U	**0.88**	**J**	**3**	**J**	**0.47**	**J**	5	U	5	U	5	U	1.0	U	10	U	NA		5	U	**3**	**J**	**1**	**J**	**1.2**		**2**	**J**	NA	
Xylene (Total)	NS	**22**		**6.3**		5	U	2.0	U	10	U	**250**		**230**		**260**		**5**		**38**		**64**		NA		**24**		**270**		**4**	**J**	**54**		**13**		NA	
Total Volatile Organic Compounds		**100**	**JB**	**29**	**J**	**ND**		**0.88**	**J**	**3**	**J**	**656.1**	**J**	**665**	**J**	**679**	**J**	**11**	**J**	**56.37**	**J**	**149**	**JN**	NA		**136**	**J**	**688.1**	**J**	**16**	**J**	**78.46**	**J**	**64**	**JN**	NA	
Semivolatile Organic Compounds (µg/L)																																					
1,2-Dichlorobenzene	3	**1**	**J**	NA		NA		4.7	U	NA		NA		**21**		NA		NA		4.7	U	NA		NA		**5**	**J**	NA		NA		4.7	U	NA		NA	
1,4-Dichlorobenzene	3	10	U	NA		NA		4.7	U	NA		NA		10	U	NA		NA		4.7	U	NA		NA		10	U	NA		NA		4.7	U	NA		NA	
2,4-Dimethylphenol	50 (GV)	**4**	**J**	NA		NA		4.7	U	NA		**9.5**		10	U	NA		NA		4.7	U	NA		NA		**9**	**J**	NA		NA		**3.7**	**J**	NA		NA	
2-Methylnaphthalene	NS	10	U	NA		NA		4.7	U	NA		**2.6**	**J**	**2**	**J**	NA		NA		4.7	U	NA		NA		**1**	**J**	NA		NA		**4.6**	**J**	NA		NA	
2-Methylphenol	NS	**6**	**J**	NA		NA		4.7	U	NA		**4.2**	**J**	10	U	NA		NA		4.7	U	NA		NA		**20**		NA		NA		4.7	U	NA		NA	
4-Methylphenol	NS	**3**	**J**	NA		NA		9.4	U	NA		**5.3**	**J**	10	U	NA		NA		9.4	U	NA		NA		**110**		NA		NA		**8.2**	**J**	NA		NA	
Acenaphthene	20 (GV)	10	U	NA		NA		4.7	U	NA		5.2	U	10	U	NA		NA		4.7	U	NA		NA		10	U	NA		NA		4.7	U	NA		NA	
Acenaphthylene	NS	10	U	NA		NA		4.7	U	NA		5.2	U	10	U	NA		NA		4.7	U	NA		NA		10	U	NA		NA		4.7	U	NA		NA	
Acetophenone	NS	NA		NA		NA		4.7	U	NA		5.2	U	NA		NA		NA		**6.8**		NA		NA		NA		NA		NA		**120**		NA		NA	
Biphenyl	5	NA		NA		NA		4.7	U	NA		5.2	U	NA		NA		NA		4.7	U	NA		NA		NA		NA		NA		4.7	U	NA		NA	
bis (2-Ethylhexyl) phthalate	5	**1**	**J**	NA		NA		4.7	U	NA		5.2	U	**1**	**J**	NA		NA		4.7	U	NA		NA		**2**	**J**	NA		NA		4.7	U	NA		NA	
Diethyl phthalate	50 (GV)	10	U	NA		NA		4.7	U	NA		5.2	U	10	U	NA		NA		4.7	U	NA		NA		10	U	NA		NA		**1.0**	**J**	NA		NA	
Di-n-butylphthalate	50	10	U	NA		NA		4.7	U	NA		**0.72**	**J**	**1**	**J**	NA		NA		4.7	U	NA		NA		**1**	**J**	NA		NA		**1.4**	**J**	NA		NA	
Dibenzofuran	NS	10	U	NA		NA		9.4	U	NA		10	U	10	U	NA		NA		9.4	U	NA		NA		10	U	NA		NA		9.4	U	NA		NA	
Fluorene	50 (GV)	10	U	NA		NA		4.7	U	NA		5.2	U	10	U	NA		NA		4.7	U	NA		NA		10	U	NA		NA		4.7	U	NA		NA	
Naphthalene	10 (GV)	**2**	**J**	NA		NA		4.7	U	NA		**20**		**31**		NA		NA		**5.3**		NA		NA		**23**		NA		NA		**24**		NA		NA	
Phenol	1	10	U	NA		NA		4.7	U	NA		5.2	U	10	U	NA		NA		4.7	U	NA		NA		**20**		NA		NA		4.7	U	NA		NA	
Organochlorine Pesticides (µg/L)																																					
ALDRIN	ND	NA		NA		NA		NR		NR		0.12	U	NA		NA		NA		NR		NR		NA		NA		NA		NA		NR		NR		NA	
ALPHA BHC (ALPHA HEXAC	0.01	NA		NA		NA		NR		NR		**0.029**	**BJ**	NA		NA		NA		NR		NR		NA		NA		NA		NA		NR		NR		NA	
ALPHA CHLORDANE	NL	NA		NA		NA		NR		NR		0.12	U	NA		NA		NA		NR		NR		NA		NA		NA		NA		NR		NR		NA	
DELTA BHC (DELTA HEXACI	0.04	NA		NA		NA		NR		NR		**0.039**	**J**	NA		NA		NA		NR		NR		NA		NA		NA		NA		NR		NR		NA	
DIELDRIN	0.004	NA		NA		NA		NR		NR		0.12	U	NA		NA		NA		NR		NR		NA		NA		NA		NA		NR		NR		NA	
ENDRIN	ND	NA		NA		NA		NR		NR		0.12	U	NA		NA		NA		NR		NR		NA		NA		NA		NA		NR		NR		NA	
ENDRIN ALDEHYDE	5	NA		NA		NA		NR		NR		0.12	U	NA		NA		NA		NR		NR		NA		NA		NA		NA		NR		NR		NA	
GAMMA BHC (LINDANE)	0.05	NA		NA		NA		NR		NR		**0.054**	**J**	NA		NA		NA		NR		NR		NA		NA		NA		NA		NR		NR		NA	
Heptachlor	0.04	NA		NA		NA		0.24	U	0.05	U	0.12	U	NA		NA		NA		0.24	U	0.05	U	NA		NA		NA		NA		2.4	U	0.05	U	NA	
HEPTACHLOR EPOXIDE	0.03	NA		NA		NA		NR		NR		0.12	U	NA		NA		NA		NR		NR		NA		NA		NA		NA		NR		NR		NA	
4,4-DDD	0.3	NA		NA		NA		0.24	U	0.1	U	0.12	U	NA		NA		NA		0.24	U	0.1	U	NA		NA		NA		NA		2.4	U	0.1	U	NA	
P,P'-DDE	0.2	NA		NA		NA		NR		NR		0.12	U	NA		NA		NA		NR		NR		NA		NA		NA		NA		NR		NR		NA	
P,P'-DDT	0.2	NA		NA		NA		NR		NR		0.12	U	NA		NA		NA		NR		NR		NA		NA		NA		NA		NR		NR		NA	
gamma-Chlordane	NL	NA		NA		NA		0.24	U	0.05	U	0.12	U	NA		NA		NA		0.24	U	0.05	U	NA		NA		NA		NA		2.4	U	0.05	U	NA	

Notes:
Results compared to the New York State Ambient Water Quality Standards (AWQS) and Guidance Values (GV) (TOGs 1.1.1)
NS - No standard or GV.
NA - Not Analyzed. NR - Not Reported
BOLD font indicates compound concentrations detected above method detection limits
Shaded cells indicate exceedances of AWQS or GV
U - Compound analyzed for but not detected
ND - Non-detect
J - Estimated concentration for compound detected below the reporting limit
D - Reported concentration was obtained from a diluted analysis
Z - Concentration should be regarded as estimated
N - Indicates presumptive evidence of a compound
B - For organic analyses - compound detected in laboratory method blank; for inorganic analyses - indicates trace concentration below reporting limit and equal to or above the detection limit
* - Duplicate Sample

Table 1
Groundwater Analytical Data

Korkay, Inc.
Broadalbin, New York (Site #518014)

Sampling Dates: August 2007 to October 2015

Well ID		MW-17		MW-18		MW-19		MW-20		MW-21		MW-22		MW-23		MW-24	
Volatile Organic Compounds (µg/L)	**AWQS or GV**	**10/14/15**		**10/14/15**		**10/15/15**		**10/15/15**		**10/15/15**		**10/14/15**		**10/14/15**		**10/15/15**	
1,1,1-Trichloroethane	5	5	U	5	U	1.0	U	1.0	U	20	U	5	U	5	U	1.0	U
1,2,4-Trimethylbenzene	5	**220**		**440**		1.0	U	1.0	U	**140**		**21**		**110**		1.0	U
1,2-Dichlorobenzene	3	**28**		**26**		1.0	U	1.0	U	20	U	5	U	**18**		1.0	U
1,3,5-Trimethylbenzene	5	**140**		**180**		1.0	U	1.0	U	**39**		**11**		**66**		1.0	U
1,4-Dichlorobenzene	3	5	U	**4.4**	**J**	1.0	U	1.0	U	20	U	5	U	5	U	1.0	U
2-Butanone (MEK)	50 (GV)	50	U	50	U	**5.8**	**J**	**1.5**	**J**	200	U	**14**	**J**	50	U	**2.2**	**J**
4-Isopropyltoluene	5	**28**		**31**		1.0	U	1.0	U	**12**	**J**	**6.3**		**16**		1.0	U
Acetone	50 (GV)	50	U	50	U	10	U	10	U	200	U	50	U	50	U	10	U
Carbon Disulfide	60 (GV)	5	U	5	U	1.0	U	1.0	U	20	U	5	U	5	U	1.0	U
Chloroethane	5	5	U	5	U	1.0	U	1.0	U	20	U	5	U	5	U	1.0	U
Chloromethane	NS	5	U	5	U	1.0	U	1.0	U	20	U	5	U	5	U	1.0	U
cis-1,2-Dichloroethene	5	5	U	5	U	1.0	U	1.0	U	20	U	5	U	**5.3**		1.0	U
Cyclohexane	NS	5	U	5	U	1.0	U	1.0	U	20	U	5	U	5	U	1.0	U
Ethylbenzene	5	**4**	**J**	**46**		1.0	U	1.0	U	**43**		**5.5**		**24**		1.0	U
Isopropylbenzene	5	**9.1**		**21**		1.0	U	1.0	U	20	U	5	U	**7.7**		1.0	U
Methylcyclohexane	NS	**4.8**	**J**	**7**		1.0	U	1.0	U	20	U	**3.1**	**J**	**6.1**		1.0	U
m,p-Xylene	5	**21**		**220**		2.0	U	2.0	U	**54**		**22**		**100**		2.0	U
n-Butylbenzene	5	**36**		**41**		1.0	U	1.0	U	**30**		**8**		**22**		1.0	U
n-Propylbenzene	5	**16**		**42**		1.0	U	1.0	U	**15**	**J**	5	U	**12**		1.0	U
Naphthalene	10 (GV)	**32**		**55**		1.0	U	1.0	U	20	U	5	U	**21**		1.0	U
o-Xylene	5	**32**		**120**		1.0	U	1.0	U	**120**		**14**		**99**		1.0	U
sec-Butylbenzene	5	**16**		**21**		1.0	U	1.0	U	20	U	5	U	**8**		1.0	U
tert- Butylbenzene	5	5	U	5	U	1.0	U	1.0	U	20	U	5	U	5	U	1.0	U
Tetrachloroethene	5	**4.6**	**J**	**18**		1.0	U	1.0	U	20	U	**3.4**	**J**	5	U	1.0	U
Toluene	5	5	U	5	U	1.0	U	1.0	U	20	U	5	U	**6.8**		1.0	U
Trichloroethene	5	5	U	5	U	1.0	U	**0.49**	**J**	20	U	5	U	5	U	1.0	U
Xylene (Total)	NS	**53**		**340**		2.0	U	2.0	U	**170**		**36**		**200**		2.0	U
Total Volatile Organic Compounds		**591.5**	**J**	**1,272.4**	**J**	**5.8**	**J**	**1.99**	**J**	**453**	**J**	**108.3**	**J**	**521.9**	**J**	**2.2**	**J**
Semivolatile Organic Compounds (µg/L)																	
1,2-Dichlorobenzene	3	NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	3	NA		NA		NA		NA		NA		NA		NA		NA	
2,4-Dimethylphenol	50 (GV)	52	U	26	U	5.0	U	5.0	U	2.4	J	5.5	U	**4.9**	**J**	5.2	U
2-Methylnaphthalene	NS	52	U	26	U	5.0	U	5.0	U	5.7	U	5.5	U	20	U	5.2	U
2-Methylphenol	NS	52	U	26	U	5.0	U	5.0	U	5.7	U	5.5	U	20	U	5.2	U
4-Methylphenol	NS	100	U	**9.0**	**J**	10	U	10	U	**1.7**	**J**	**0.53**	**J**	40	U	10	U
Acenaphthene	20 (GV)	52	U	26	U	5.0	U	5.0	U	5.7	U	5.5	U	20	U	5.2	U
Acenaphthylene	NS	52	U	26	U	5.0	U	5.0	U	5.7	U	5.5	U	20	U	5.2	U
Acetophenone	NS	52	U	26	U	5.0	U	5.0	U	5.7	U	5.5	U	20	U	5.2	U
Biphenyl	5	52	U	26	U	5.0	U	5.0	U	5.7	U	5.5	U	20	U	5.2	U
bis (2-Ethylhexyl) phthalate	5	52	U	26	U	5.0	U	5.0	U	5.7	U	5.5	U	20	U	5.2	U
Diethyl phthalate	50 (GV)	52	U	26	U	5.0	U	5.0	U	5.7	U	5.5	U	20	U	5.2	U
Di-n-butylphthalate	50	52	U	26	U	5.0	U	5.0	U	**0.71**	**J**	**1.3**	**J**	**2.5**	**J**	5.2	U
Dibenzofuran	NS	100	U	53	U	10	U	10	U	11	U	11	U	40	U	10	U
Fluorene	50 (GV)	52	U	26	U	5.0	U	5.0	U	5.7	U	5.5	U	20	U	5.2	U
Naphthalene	10 (GV)	**13**	**J**	26	U	5.0	U	5.0	U	5.7	U	5.5	U	20	U	5.2	U
Phenol	1	52	U	26	U	5.0	U	5.0	U	5.7	U	**1.0**	**J**	20	U	5.2	U
Organochlorine Pesticides (µg/L)																	
ALDRIN	ND	**0.035**	**J**	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U
ALPHA BHC (ALPHA HEXAC	0.01	0.10	U	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U
ALPHA CHLORDANE	NL	**0.098**	**J**	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U
DELTA BHC (DELTA HEXACI	0.04	**0.045**	**J**	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U
DIELDRIN	0.004	0.10	U	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U
ENDRIN	ND	0.10	U	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U
ENDRIN ALDEHYDE	5	**0.042**	**J**	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U
GAMMA BHC (LINDANE)	0.05	**0.023**	**J**	**0.11**	**J**	0.053	U	0.051	U	0.25	U	0.53	U	**0.056**	**J**	0.050	U
Heptachlor	0.04	0.10	U	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U
HEPTACHLOR EPOXIDE	0.03	0.10	U	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U
4,4-DDD	0.3	0.10	U	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	**0.025**	**J**	0.050	U
P,P'-DDE	0.2	**0.035**	**J**	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U
P,P'-DDT	0.2	0.10	U	2.5	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U
gamma-Chlordane	NL	0.10	U	0.25	U	0.053	U	0.051	U	0.25	U	0.53	U	0.10	U	0.050	U

Notes:
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Table 2
Post ISCO Injection Groundwater Analytical Results
May 2016 Quarterly Monitoring Event
Korkay, Inc.
Broadalbin, New York (Site #518014)

Well ID		ASW								MW-17												MW-18							
	AWQS or GV	10/13/15		12/8/15		3/8/16		5/31/16		10/14/15		12/8/15		12/8/15 [1]		3/8/16		5/31/16		5/31/2016 [1]		10/14/15		12/8/15		3/8/16		5/31/16	
Volatile Organic Compounds (µg/L)																													
1,2,4-Trimethylbenzene	5	**420**		**950**		**880**		**970**	F1	**220**		5	U	5	U	**61**		**170**		**200**		**440**		**15**		10	U	10	U
1,2-Dichlorobenzene	3	**24**		**31**		**28**		**35**		**28**		**15**		**14**		10	U	**14**		20	U	**26**		10	U	10	U	10	U
1,3,5-Trimethylbenzene	5	**260**		**310**		**340**		**380**		**140**		5	U	5	U	**54**		**100**		**120**		**180**		10	U	10	U	10	U
1,4-Dichlorobenzene	3	5.0	U	20	U	20	U	20	U	5	U	5	U	5	U	10	U	10	U	20	U	**4.4**	**J**	10	U	10	U	10	U
2-Butanone (MEK)	50 (GV)	**12**	**J**	200	U	200	U	200	U	50	U	50	U	50	U	100	U	100	U	200	U	50	U	100	U	100	U	100	U
4-Isopropyltoluene	5	**37**		**39**		**47**		**58**		**28**		5	U	5	U	**6.6**	**J**	**19**		**25**		**31**		**3.5**	**J**	10	U	10	U
Acetone	50 (GV)	**22**	**J**	**76**	**J**	**150**	**J**	**190**	**J**	50	U	**25**	**J**	**24**	**J**	100	U	100	U	200	U	50	U	**73**	**J**	100	U	100	U
Carbon Disulfide	60	5	U	20	U	20	U	20	U	5	U	5	U	5	U	**2.7**	**J**	**4.4**	**J**	20	U	5	U	10	U	10	U	10	U
Chloroethane	5	5	U	20	U	20	U	**14**	**J**	5	U	5	U	5	U	10	U	10	U	20	U	5	U	10	U	10	U	10	U
Chloromethane	NS	5.0	U	20	U	**50**		**70**		5	U	**7**		**7**		10	U	10	U	20	U	5	U	**17**		10	U	10	U
cis-1,2-Dichloroethene	5	**24**		20	U	20	U	20	U	5	U	5	U	5	U	10	U	10	U	20	U	5	U	10	U	10	U	10	U
Cyclohexane	NS	5.0	U	20	U	20	U	20	U	5	U	5	U	5	U	10	U	10	U	20	U	5	U	10	U	10	U	10	U
Ethylbenzene	5	**110**		**120**		**130**		**140**		**4**	**J**	5	U	5	U	10	U	10	U	20	U	**46**		10	U	10	U	10	U
Isopropylbenzene	5	**34**		**43**		**43**		**56**		**9.1**		5	U	5	U	10	U	10	U	20	U	**21**		10	U	10	U	10	U
Methylcyclohexane	NS	**16**		**6.1**	**J**	**29**		**34**		**4.8**	**J**	5	U	5	U	10	U	10	U	20	U	**7**		10	U	10	U	10	U
m,p-Xylene	5	**340**		**580**		**710**		**730**	F1	**21**		10	U	10	U	20	U	20	U	40	U	**220**		20	U	20	U	20	U
n-Butylbenzene	5	**68**		**73**		**47**		**97**		**36**		5	U	5	U	10	U	**22**		**27**		**41**		10	U	10	U	10	U
n-Propylbenzene	5	**60**		**78**		**80**		**110**		**16**		5	U	5	U	10	U	10	U	20	U	**42**		10	U	10	U	10	U
Methylene Chloride	5	5.0	U	20	U	**14**	**J**	20	U	5	U	5	U	5	U	**5.7**	**J**	10	U	20	U	5	U	**4.5**	**J**	**6.3**	**J**	10	U
Naphthalene	10 (GV)	**84**		**120**		**86**		**110**		**32**		5	U	5	U	**6.9**	**J**	**26**		**27**		**55**		**9.2**	**J**	10	U	10	U
o-Xylene	5	**390**		**370**		**410**		**420**	F1	**32**		**8.2**		**7.8**		**11**		**23**		**25**		**120**		10	U	10	U	10	U
Styrene	5	5.0	U	20	U	20	U	20	U	5	U	5	U	5	U	10	U	10	U	20	U	5	U	10	U	10	U	10	U
sec-Butylbenzene	5	**30**		**30**		20	U	**47**		**16**		5	U	5	U	10	U	**7.9**	**J**	20	U	**21**		10	U	10	U	10	U
Tetrachloroethene (PCE)	5	5.0	U	20	U	**15**	**J**	**34**		**4.6**	**J**	**4.1**	**J**	**3.6**	**J**	10	U	10	U	20	U	**18**		10	U	**3.6**	**J**	10	U
Toluene	5	**10**		20	U	20	U	**10**	**J**	5	U	5	U	5	U	10	U	10	U	20	U	5	U	10	U	10	U	10	U
Xylene (Total)	NS	**550**		**950**		**1,100**		**1,200**	F1	**53**		**8.2**	**J**	**7.8**	**J**	**11**	**J**	**23**		**25**	**J**	**340**		20	U	20	U	20	U
Total VOCs [2]		**1,941**	**J**	**2,826.1**	**J**	**3,059**	**J**	**3,505**	F1J	**591.5**	**J**	**59.3**	**J**	**56.4**	**J**	**147.9**	**J**	**386.3**	**J**	**424**		**1,272.4**	**J**	**122.2**	**J**	**9.9**	**J**	- -	U
Field Parameter Results																													
DO (mg/L)	NA	ne		**0.52**		**0**		**0.2**		ne		**0.54**				**0.2**		**0.1**				ne		**29**		**42**		**19**	
ORP (MeV)	NA	ne		**-105**		**-143**		**-93**		ne		**-99**				**-157**		**-165**				ne		**199**		**147**		**166**	
Sodium Persulfate (mg/L)	NA	nt		nt		**3.5**		**1.4**		nt		nt				**4.2**		**2.1**				nt		nt		**70**		**10**	
Semivolatile Organic Compounds (µg/L)																													
2,4,5-Trichlorophenol	NS	4.8	U	4.6	U	5.2	U	48	U	52	U	**0.56**	**J**	**0.59**	**J**	4.7	U	4.9	U	4.7	U	26	U	4.6	U	4.9	U	5.0	U
2,4-Dimethylphenol	50 (GV)	**2.7**	**J**	**8.6**		**10**		**8.9**	**J**	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	26	U	4.6	U	4.9	U	5.0	U
2-Methylnaphthalene	NS	**23**		**30**		**36**		**28**	**J**	52	U	4.8	U	4.8	U	4.7	U	**0.69**	**J**	4.7	U	26	U	**5.4**		4.9	U	5.0	U
4-Methylphenol	NS	**61**		**59**		**12**		95	U	100	U	**0.66**	**J**	**0.62**	**J**	**7.4**	**J**	**6.7**	**J**	**5**	**J**	**9.0**	**J**	**1.5**	**J**	9.7	U	9.9	U
Acetophenone	NS	4.8	U	**98**		**170**		48	U	52	U	**27**		**26**		4.7	U	4.9	U	4.7	U	26	U	4.6	U	4.9	U	5.0	U
Benzaldehyde	NS	4.8	U	4.6	U	5.2	U	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	26	U	**8.5**		4.9	U	5.0	U
Biphenyl	5	**1.7**	**J**	**2.2**	**J**	**2.5**	**J**	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	26	U	4.6	U	4.9	U	5.0	U
Butyl benzyl phthalate	50 (GV)	**0.53**	**JB**	4.6	U	5.2	U	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	26	U	4.6	U	**0.52**	**JB**	5.0	U
Di-n-butylphthalate	50	**1.7**	**J**	**2.2**	**J**	**2.5**	**J**	48	U	52	U	**0.8**	**J**	**0.75**	**J**	**0.44**	**J**	4.9	U	**0.35**	**J**	26	U	**0.47**	**J**	4.9	U	5.0	U
Diethyl phthalate	50 (GV)	4.8	U	4.6	U	5.2	U	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	26	U	4.6	U	4.9	U	5.0	U
Di-n-octylphthalate	50 (GV)	4.8	U	4.6	U	5.2	U	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	26	U	4.6	U	4.9	U	5.0	U
Fluorene	50 (GV)	**0.46**	**J**	**0.48**	**J**	**0.59**	**J**	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	26	U	4.6	U	4.9	U	5.0	U
Naphthalene	10 (GV)	**46**		**68**		**82**		**65**		**13**	**J**	4.8	U	4.8	U	**4.8**		**9.3**		**8.8**		26	U	4.6	U	**0.78**	**J**	5.0	U
Phenol	1	4.8	U	**0.48**	**J**	5.2	U	48	U	52	U	4.8	U	4.8	U	4.7	U	4.9	U	4.7	U	26	U	4.6	U	4.9	U	5.0	U
Organochlorine Pesticides (µg/L)																													
Aldrin	ND	0.50	U	**0.051**	**J**	0.49	U	0.048	U	**0.035**	**J**	**0.14**	**J**	**0.16**	**J**	0.49	U	0.25	U	0.046	U	0.25	U	**0.11**	**J**	0.23	U	0.049	U
alpha-BHC	0.01	**0.12**	**JB**	0.23	U	**0.093**	**J**	0.048	U	0.10	U	**0.086**	**J**	**0.084**	**J**	0.49	U	0.25	U	0.046	U	0.25	U	**0.13**	**J**	**0.05**	**J**	0.049	U
alpha-Chlordane	NS	0.50	U	0.23	U	0.49	U	0.048	U	**0.098**	**J**	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	0.25	U	0.46	U	0.23	U	0.049	U
beta-BHC	0.04	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	0.25	U	0.46	U	0.23	U	0.049	U
delta-BHC	0.04	**0.14**	**J**	**0.12**	**J**	**0.14**	**J**	**0.019**	**J**	**0.045**	**J**	**0.25**	**J**	**0.26**	**J**	**0.16**	**J**	0.25	U	0.046	U	0.25	U	**0.25**	**J**	**0.057**	**J**	**0.018**	**J**
Dieldrin	0.004	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	**0.13**	**J**	**0.13**	**J**	0.49	U	0.25	U	0.046	U	0.25	U	**0.1**	**J**	0.23	U	0.049	U
Endosulfan Sulfate	NS	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	**0.27**	**J**	0.48	U	0.49	U	0.25	U	0.046	U	0.25	U	**0.24**	**J**	0.23	U	0.049	U
Endrin Aldehyde	5	0.50	U	0.23	U	0.49	U	0.048	U	**0.042**	**J**	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	0.25	U	0.46	U	0.23	U	0.049	U
gamma-BHC (Lindane)	0.05	0.50	U	**0.058**	**J**	0.49	U	0.048	U	**0.023**	**J**	**0.12**	**J**	**0.12**	**J**	**0.11**	**JB**	0.25	U	0.046	U	0.25	U	**0.13**	**J**	**0.063**	**JB**	0.049	U
Heptachlor	0.04	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	**0.11**	**J**	0.46	U	0.23	U	0.049	U
Heptachlor Epoxide	0.03	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	0.25	U	0.46	U	0.23	U	0.049	U
Methoxychlor	35	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.46	U	0.48	U	0.49	U	0.25	U	0.046	U	0.25	U	**0.13**	**J**	0.23	U	0.049	U
4,4-DDD	0.3	0.50	U	**0.067**	**J**	0.49	U	0.048	U	0.10	U	0.46	U	**0.13**	**J**	0.49	U	0.25	U	0.046	U	0.25	U	0.46	U	0.23	U	0.049	U
P,P'-DDE	0.2	0.50	U	0.23	U	0.49	U	0.048	U	**0.035**	**J**	0.46	U	**0.13**	**J**	0.49	U	0.25	U	0.046	U	0.25	U	0.46	U	0.23	U	0.049	U
gamma-Chlordane	NS	0.50	U	0.23	U	0.49	U	0.048	U	0.10	U	0.46	U	0.48	U	0.49	U	0.25	U	**0.017**	**J**	0.25	U	0.46	U	0.23	U	0.049	U

Notes:
Results compared to the New York State Ambient Water Quality Standards (AWQS) and Guidance Values (GV) (TOGs 1.1.1)
NS - No standard or GV.
ND - Non-detectable concentration
NA - Not applicable
BOLD font indicates compound concentrations detected above method detection limits
Shaded cells indicate exceedance of AWQS or GV
U - Compound analyzed for but not detected
J - Estimated concentration for compound detected below the reporting limit
B - For organic analyses - compound detected in laboratory method blank; for inorganic analyses - indicates trace concentration below reporting limit and equal to or above the detection limit
F1 - MS and/or MSD recovery is outside acceptable limits
F2 - MS/MSD RPD exceeds control limits
ne - Not evaluated
nt - Not tested
[1] - Duplicate Sample
[2] - Sum of all VOC concentrations detected in the sample, except the "Xylene (Total)" concentration

Table 2
Post ISCO Injection Groundwater Analytical Results
May 2016 Quarterly Monitoring Event
Korkay, Inc.
Broadalbin, New York (Site #518014)

Well ID		MW-21						MW-22												MW-23							
	AWQS or GV	10/15/15		3/8/16		5/31/16		10/14/15		12/8/15		3/8/16		3/08/16 [1]		5/31/16		10/14/15		12/8/15		3/8/16		5/31/16	
Volatile Organic Compounds (µg/L)																											
1,2,4-Trimethylbenzene	5	**140**		**0.91**	**J**	1	U	**21**		**26**		**19**		**13**		**5.9**		**110**		**160**		**770**		**570**	
1,2-Dichlorobenzene	3	20	U	**1.1**		1	U	5	U	10	U	5	U	5	U	5	U	**18**		**8.6**		**47**		**34**	
1,3,5-Trimethylbenzene	5	**39**		1	U	1	U	**11**		**13**		**15**		**16**		**5.2**		**66**		**49**		**260**		**200**	
1,4-Dichlorobenzene	3	20	U	1	U	1	U	5	U	10	U	5	U	5	U	5	U	5	U	5	U	10	U	10	U
2-Butanone (MEK)	50 (GV)	200	U	10	U	10	U	**14**	**J**	100	U	10	U	50	U	50	U	50	U	**24**	**J**	**63**	**J**	**28**	**J**
4-Isopropyltoluene	5	**12**	**J**	1	U	1	U	**6.3**		**8.2**	**J**	**5.8**		**5.1**		**3.1**	**J**	**16**		**9**		**38**		**35**	
Acetone	50 (GV)	200	U	10	U	10	U	50	U	100	U	10	U	50	U	50	U	50	U	**140**		**390**		**150**	
Carbon Disulfide	60	20	U	1	U	1	U	5	U	10	U	5	U	5	U	5	U	5	U	5	U	10	U	**2**	**J**
Chloroethane	5	20	U	1	U	1	U	5	U	10	U	5	U	5	U	5	U	5	U	5	U	**27**		**8.1**	**J**
Chloromethane	NS	20	U	1	U	1	U	5	U	10	U	5	U	5	U	5	U	5	U	**23**		**120**		**50**	
cis-1,2-Dichloroethene	5	20	U	**2.5**		**1.8**		5	U	10	U	5	U	5	U	5	U	**5.3**		**10**		**9.2**	**J**	10	U
Cyclohexane	NS	20	U	1	U	1	U	5	U	10	U	5	U	5	U	5	U	5	U	5	U	**7.9**	**J**	10	U
Ethylbenzene	5	**43**		1	U	1	U	**5.5**		10	U	5	U	5	U	5	U	**24**		**40**		**190**		**120**	
Isopropylbenzene	5	20	U	1	U	1	U	5	U	10	U	5	U	5	U	5	U	**7.7**		**10**		**49**		**41**	
Methylcyclohexane	NS	20	U	1	U	1	U	**3.1**	**J**	10	U	5	U	5	U	5	U	**6.1**		**2.1**	**J**	**19**		**20**	
m,p-Xylene	5	**54**		2	U	2	U	**22**		20	U	10	U	10	U	10	U	**100**		**160**		**890**		**540**	
n-Butylbenzene	5	**30**		1	U	1	U	**8**		**9.8**	**J**	**3.3**	**J**	**3.5**	**J**	5	U	**22**		**15**		**34**		**53**	
n-Propylbenzene	5	**15**	**J**	1	U	1	U	5	U	10	U	5	U	5	U	5	U	**12**		**17**		**79**		**68**	
Methylene Chloride	5	20	U	1	U	1	U	5	U	10	U	5	U	**3.7**	**J**	5	U	5	U	5	U	**8.8**	**J**	10	U
Naphthalene	10 (GV)	20	U	1	U	1	U	5	U	**4.3**	**J**	**2.8**	**J**	5	U	5	U	**21**		**25**		**120**		**85**	
o-Xylene	5	**120**		1	U	1	U	**14**		10	U	5	U	5	U	5	U	**99**		**84**		**440**		**260**	
Styrene	5	20	U	1	U	1	U	5	U	10	U	5	U	5	U	5	U	5	U	5	U	**13**		10	U
sec-Butylbenzene	5	20	U	1	U	1	U	5	U	10	U	5	U	5	U	5	U	**8**		**7.2**		10	U	**27**	
Tetrachloroethene (PCE)	5	20	U	1	U	1	U	**3.4**	**J**	10	U	5	U	5	U	5	U	5	U	5	U	10	U	10	U
Toluene	5	20	U	1	U	1	U	5	U	10	U	5	U	5	U	5	U	**6.8**		**4.7**	**J**	**12**		**9.4**	J
Xylene (Total)	NS	**170**		1	U	1	U	**36**		20	U	10	U	10	U	10	U	**200**		**240**		**1,300**		**800**	
Total VOCs [2]		**453**	**J**	**4.51**	**J**	**1.8**		**108.3**	**J**	**61.3**	**J**	**45.9**	**J**	**41.3**	**J**	**14.2**		**521.9**		**788.6**	**J**	**3,586.9**	**J**	**2300.5**	
Field Parameter Results																											
DO (mg/L)	NA	ne		**1.2**		**3.7**		- -		**0.3**		**2.5**				**3.5**		ne		**0.53**		**0.15**		**0.17**	
ORP (MeV)	NA	ne		**-78**		**-18**		- -		**-88**		**-4**				**4**		ne		**-101**		**-175**		**-145**	
Sodium Persulfate (mg/L)	NA	nt		**2.5**		**0.7**		nt		nt		**7**				**4**		nt		nt		**1.4**		**0.2**	
Semivolatile Organic Compounds (µ																											
2,4,5-Trichlorophenol	NS	5.7	U	4.6	U	4.6	F2F1	5.5	U	4.9	U	4.8	U	4.7	U	4.8	U	20	U	4.6	U	19	U	4.7	U
2,4-Dimethylphenol	50 (GV)	**2.4**	**J**	4.6	U	4.6	F2F1	5.5	U	4.9	U	4.8	U	4.7	U	4.8	U	**4.9**	**J**	**4.6**		**10**	**J**	**3.8**	**J**
2-Methylnaphthalene	NS	5.7	U	4.6	U	4.6	F2	5.5	U	**2.1**	**J**	4.8	U	4.7	U	4.8	U	20	U	**2.9**	**J**	**32**		**20**	
4-Methylphenol	NS	**1.7**	**J**	9.2	U	9.3	F2	**0.53**	**J**	**0.95**	**J**	9.7	U	9.3	U	9.5	U	40	U	**5.7**	**J**	**9.4**	**J**	**4.2**	**J**
Acetophenone	NS	5.7	U	4.6	U	4.6	F2F1	5.5	U	4.9	U	4.8	U	4.7	U	4.8	U	20	U	**44**		**210**		4.7	U
Benzaldehyde	NS	5.7	U	4.6	U	4.6	F2	5.5	U	4.9	U	4.8	U	4.7	U	4.8	U	20	U	**17**		19	U	4.7	U
Biphenyl	5	5.7	U	4.6	U	4.6	F2	5.5	U	4.9	U	4.8	U	4.7	U	4.8	U	20	U	4.6	U	19	U	**0.95**	**J**
Butyl benzyl phthalate	50 (GV)	**0.61**	**JB**	4.6	U	4.6	F2F1	5.5	U	4.9	U	4.8	U	**0.55**	**JB**	4.8	U	20	U	4.6	U	19	U	4.7	U
Di-n-butylphthalate	50	**0.71**	**J**	4.6	U	4.6	F2	**1.3**	**J**	**2**	**J**	**1.3**	**J**	**1.2**	**J**	**0.48**	**J**	**2.5**	**J**	**0.91**	**J**	**2**	**J**	**1.3**	**J**
Diethyl phthalate	50 (GV)	5.7	U	4.6	U	4.6	F2F1	5.5	U	4.9	U	**0.78**	**J**	**0.87**	**J**	4.8	U	20	U	4.6	U	**1.2**	**J**	4.7	U
Di-n-octylphthalate	50 (GV)	**0.93**	**J**	4.6	U	4.6	F2	5.5	U	4.9	U	4.8	U	4.7	U	4.8	U	20	U	4.6	U	19	U	4.7	U
Fluorene	50 (GV)	5.7	U	4.6	U	4.6	F2F1	5.5	U	**0.35**	**J**	4.8	U	4.7	U	4.8	U	20	U	4.6	U	19	U	4.7	U
Naphthalene	10 (GV)	5.7	U	4.6	U	4.6	F2	5.5	U	**3.1**	**J**	4.8	U	**0.73**	**J**	4.8	U	20	U	**15**		**96**		**59**	
Phenol	1	5.7	U	4.6	U	4.6	U	**1.0**	**J**	4.9	U	4.8	U	4.7	U	4.8	U	20	U	**1.1**	**J**	19	U	4.7	U
Organochlorine Pesticides (µg/L)																											
Aldrin	ND	0.25	U	0.098	U	0.047	U	0.53	U	**0.12**	**J**	**0.044**	**J**	**0.094**	**J**	0.096	U	0.10	U	0.23	U	0.52	U	0.047	U
alpha-BHC	0.01	0.25	U	**0.03**	**J**	0.047	U	0.53	U	**0.084**	**J**	0.24	U	0.24	U	0.096	U	0.10	U	**0.074**	**J**	**0.13**	**J**	0.047	U
alpha-Chlordane	NS	0.25	U	0.098	U	0.047	U	0.53	U	**0.16**	**J**	**0.41**		**0.63**		0.096	U	0.10	U	0.23	U	0.52	U	0.047	U
beta-BHC	0.04	0.25	U	0.098	U	0.047	U	0.53	U	**0.26**	**J**	0.24	U	0.24	U	0.096	U	0.10	U	**0.14**	**J**	0.52	U	0.047	U
delta-BHC	0.04	0.25	U	0.098	U	**0.014**	**J**	0.53	U	**0.27**	**J**	**0.055**	**J**	**0.1**	**J**	0.096	U	0.10	U	0.23	U	0.52	U	**0.015**	**J**
Dieldrin	0.004	0.25	U	0.098	U	0.047	U	0.53	U	**0.28**	**J**	0.24	U	0.24	U	0.096	U	0.10	U	**0.046**	**J**	0.52	U	0.047	U
Endosulfan Sulfate	NS	0.25	U	0.098	U	0.047	U	0.53	U	0.5	U	0.24	U	0.24	U	0.096	U	0.10	U	0.23	U	0.52	U	0.047	U
Endrin Aldehyde	5	0.25	U	0.098	U	0.047	U	0.53	U	0.5	U	0.24	U	0.24	U	0.096	U	0.10	U	0.23	U	0.52	U	0.047	U
gamma-BHC (Lindane)	0.05	0.25	U	**0.017**	**JB**	**0.0089**	**J**	0.53	U	**0.12**	**J**	0.24	U	0.24	U	**0.22**		**0.056**	**J**	**0.077**	**J**	0.52	U	0.047	U
Heptachlor	0.04	0.25	U	0.098	U	0.047	U	0.53	U	0.5	U	0.24	U	0.24	U	0.096	U	0.10	U	0.23	U	0.52	U	0.047	U
Heptachlor Epoxide	0.03	0.25	U	0.098	U	0.047	U	0.53	U	**0.25**	**J**	0.24	U	0.24	U	0.096	U	0.10	U	0.23	U	0.52	U	0.047	U
Methoxychlor	35	0.25	U	0.098	U	0.047	U	0.53	U	0.5	U	0.24	U	0.24	U	0.096	U	0.10	U	0.23	U	0.52	U	0.047	U
4,4-DDD	0.3	0.25	U	0.098	U	0.047	U	0.53	U	**0.16**	**J**	0.24	U	0.24	U	0.096	U	**0.025**	**J**	0.23	U	0.52	U	0.047	U
P,P'-DDE	0.2	0.25	U	0.098	U	0.047	U	0.53	U	0.5	U	0.24	U	**0.12**	**J**	0.096	U	0.10	U	0.23	U	0.52	U	0.047	U
gamma-Chlordane	NS	0.25	U	0.098	U	0.047	U	0.53	U	0.5	U	**0.092**	**J**	**0.13**	**J**	0.096	U	0.10	U	0.23	U	0.52	U	0.047	U

Notes:
Results compared to the New York State Ambier
NS - No standard or GV.
ND - Non-detectable concentration
NA - Not applicable
BOLD font indicates compound concentrations d
Shaded cells indicate exceedance of AWQS or G
U - Compound analyzed for but not detected
J - Estimated concentration for compound detect
B - For organic analyses - compound detected in
F1 - MS and/or MSD recovery is outside accepta
F2 - MS/MSD RPD exceeds control limits
ne - Not evaluated
nt - Not tested
[1] - Duplicate Sample
[2] - Sum of all VOC concentrations detected in the

Charts

Chart 1
Source Area Wells Groundwater TVOC Concentration Trends - August 2007 to October 2015
Korkay Inc.

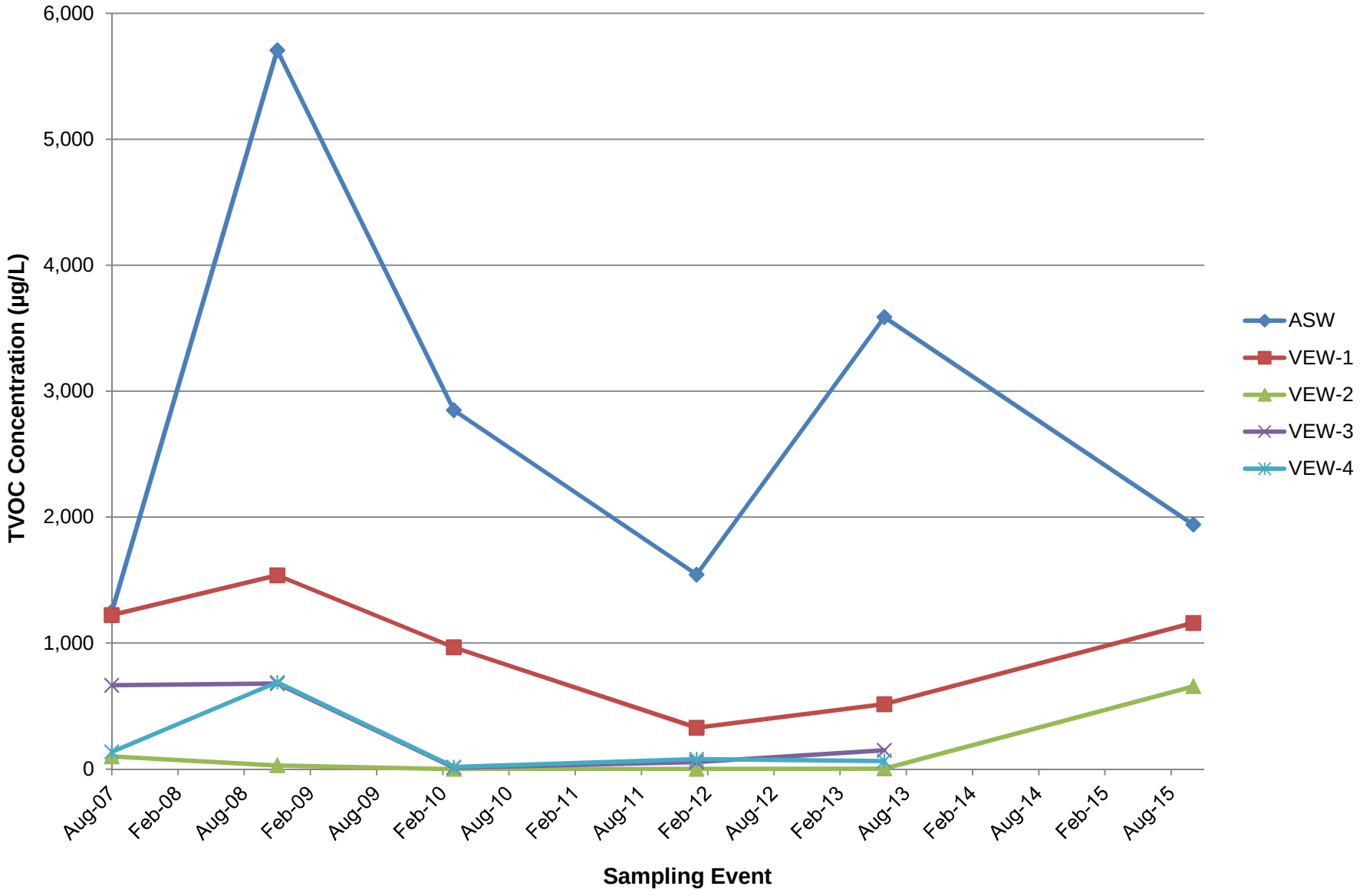


Chart 2
Post ISCO Injection Groundwater TVOC Concentration Trends - Monitoring Well ASW
Korkay Inc.

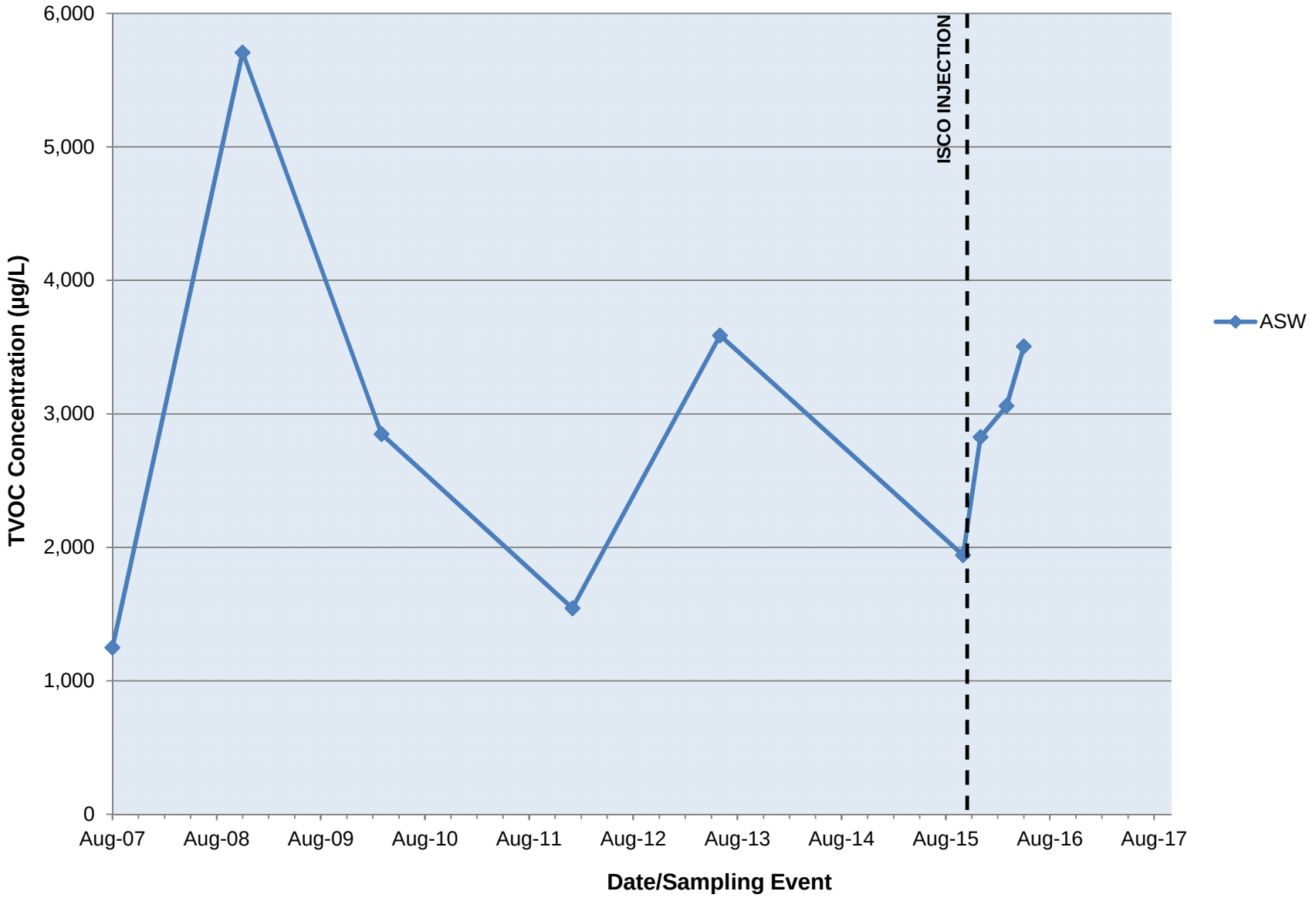
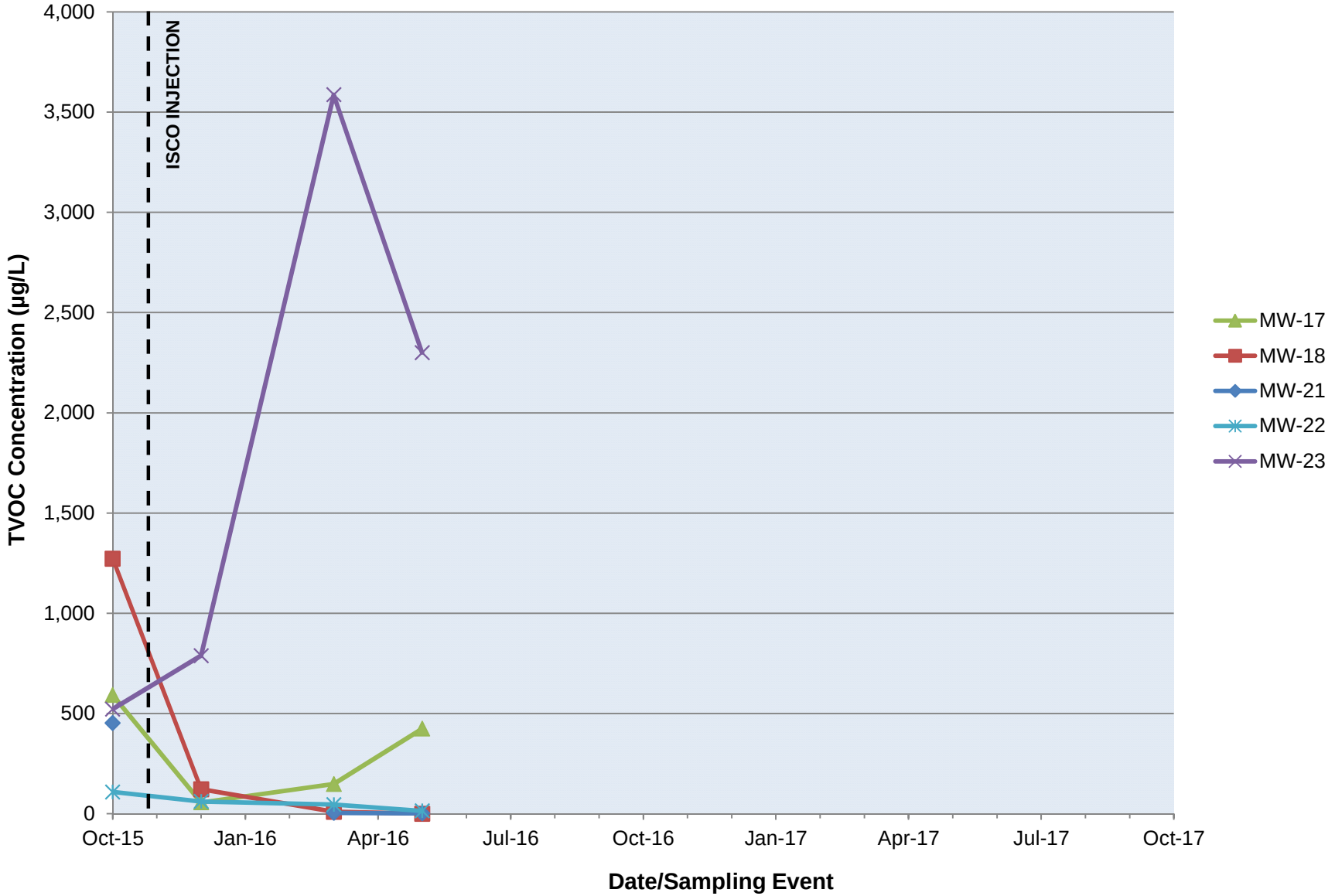


Chart 3
Post ISCO Injection Groundwater TVOC Concentration Trends - ISCO Monitoring Wells
Korkay Inc.



Appendix A

Environmental Notice

FULTON COUNTY CLERK

WILLIAM E. ESCHLER

Receipt

Receipt Date: 02/01/2013 11:38:20 AM
RECEIPT # 2013229249

Recording Clerk: FC
Cash Drawer: CASH1
Rec'd Frm: INDEPENDENT

Instr#: 2013-18049
DOC: MISC DOCUMENT
OR Party: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DEPARTMENT
EE Party: PERMA GLAZE CHEMICAL CORPORATION

STANDARD	
Cover Page	$5.00
Recording Fee	$50.00
Cultural Ed	$14.25
Records Management - County	$1.00
Records Management - State	$4.75
DOCUMENT TOTAL: ---->	$75.00

Receipt Summary

TOTAL RECEIPT: ---->	$75.00
TOTAL RECEIVED: ---->	$75.00
CASH BACK: ---->	$0.00

PAYMENTS
Check # 3612 -> $75.00

223 West Main Street, Johnstown, NY 12095 Phone (518) 736-5555 Fax (518) 762-9214

COPY

Korkay, Incorporated
Site No. 518014
70 West Main Street
Broadalbin, Fulton County, NY
Tax Map: 137.15-5-25

ENVIRONMENTAL NOTICE

THIS ENVIRONMENTAL NOTICE is made the 25th day of January 20 13 by the New York State Department of Environmental Conservation (Department), having an office for the transaction of business at 625 Broadway, Albany, New York 12233.

WHEREAS, that parcel of real property located at the address of 70 West Main Street in the Village of Broadalbin, County of Fulton and State of New York, known and designated on the tax map of the County Clerk of the County of Fulton as tax map parcel number: Section 137.15 Block 5 Lot 25 which is part of lands conveyed by Kaldar, Inc. to the Perma Glaze Chemical Corporation by deed dated March 31, 1970 and recorded on October 4, 1971, in Book Liber 515 of Deeds at page 238 from the County of Fulton, the property being more particularly described in the metes and bounds and tax map and attached hereto as Appendix "A" to this notice and made a part hereof, and hereinafter referred to as "the Property" and is the subject of a remedial program performed by the Department; and

WHEREAS, the Department approved a cleanup to address contamination disposed at the Property and such cleanup was conditioned upon certain limitations.

NOW, THEREFORE, the Department provides notice that:

FIRST, the part of lands subject to this Environmental Notice is as shown on a map attached to this Notice as Appendix "B" and made a part hereof.

SECOND, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, where contamination remains at the Property subject to the provisions of the Operation and Maintenance ("O&M"), Plan there shall be no disturbance or excavation of the Property which threatens the integrity of the engineering controls or which results or may result in a significantly increased threat of harm or damage at any site as a result of exposure to soils. A violation of this provision is a violation of 6 NYCRR 375-1.1 1(b)(2).

THIRD, no person shall disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of engineering controls required for the Remedy, including but not limited to those engineering controls described in the O&M Plan and listed below, unless in each instance they first obtain a written waiver of such prohibition from the Department or Relevant Agency.

FOURTH, the remedy was designed to be protective for Commercial or Industrial uses. Therefore, any use for purposes other than Commercial or Industrial uses without the express written waiver of such prohibition by the Relevant Agency may result in a significantly increased threat of harm or damage at the site.

FIFTH, no person shall use the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Department or Relevant Agency. Use of the groundwater without appropriate treatment may result in a significantly increased threat of harm or damage at the site.

SIXTH, it is a violation of 6 NYCRR 375-1.11(b) to use the Property in a manner inconsistent with this environmental notice.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

By: _____
Robert W. Schick, P.E., Director
Division of Environmental Remediation

STATE OF NEW YORK) ss:
COUNTY OF ALBANY)

On the 15th day of January, in the year 2013, before me, Robert. W. Schick, the undersigned, personally appeared, and is personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public – State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2014

Appendix A

Korkay, Incorporated
Site No. 518014
70 West Main Street
Broadalbin, Fulton County, NY
Tax Map: 137.15-5-25

METES and BOUNDS Description

ALL THAT TRACT, PIECE OR PARCEL OF LAND, situate, in the Town of Broadalbin, County of Fulton, and State of New York, bounded and described as follows:

PARCEL NO. 1.

Beginning at an iron post on Main Street, 640 feet westerly from the inside of the sidewalk on First Avenue, in the Village of Broadalbin, County of Fulton and State of New York; running thence north 11°10' west, to an iron post, and continuing thence northerly to an iron post which is 222 feet more or less northerly from the iron post on Main Street heretofore mentioned; running thence in a westerly direction along the lands now or formerly belonging to the Estate of George W. Hughest, deceased; running thence in a southerly direction along the lands formerly owned by William Kennedy, now or formerly owned by Etta Perkins; and running thence in an easterly direction along Main Street in said Village to the first mentioned iron post and point and place of beginning.

PARCEL NO. 2.

COMMENCING at a point on the northerly side of West Main Street in said Village at a point approximately 640 feet westerly from the inside of the sidewalk on First Avenue in said Village; running thence Northeasterly, along the east line of lands now owned or supposed to be by Crossley Glove Co., Inc., a distance of approximately 250 feet to the south line of lands of E. C. and K. Tanner; running thence EASTERLY along the south line of land of said E. C. and K. Tanner a distance of approximately 90 feet to the west line of the lands now owned or supposed to be by the First Presbyterian Church of Broadalbin, New York; running thence SOUTHEASTERLY along the westerly line of lands of said First Presbyterian Church a distance of approximately 250 feet to the north line of West Main Street in said Village; running thence WESTERLY along the north line of West Main Street a distance of approximately 120 feet to the point and place of beginning, together with dwelling-house thereon.

All measurements in the above description being the same more or less.

Being the same premises conveyed to Kaldar, Inc. by Warranty Deed from M&W Glove Corp., formerly known as Crossley Glove Co., Inc. dated May 26, 1969, and recorded May 27, 1969, in the Fulton County Clerk's Office in Book 502 of Deeds at Page 1129.

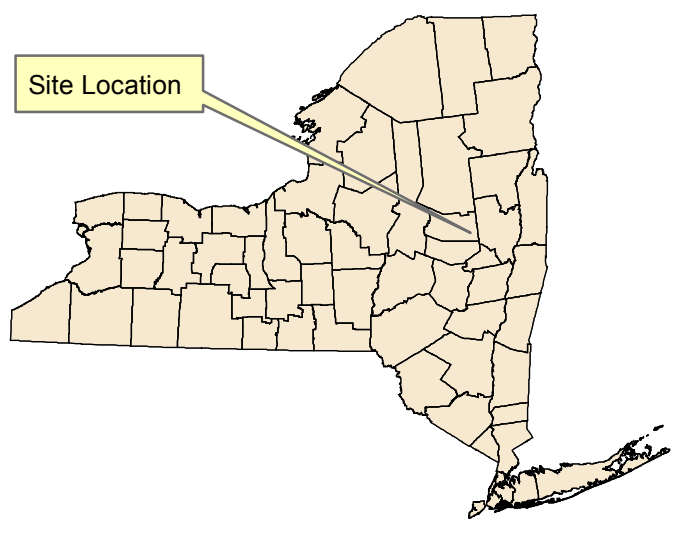
Appendix B

Korkay Site Location Environmental Notice

518014
70 West Main Street
Broadalbin, NY

Project Manager: Payson Long
Map Crerated By: Payson Long
Date Created: February 17, 2012

0 12.5 25 50 75 100 Feet



Appendix B

IC/EC Certification Forms

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 518014

Site Name Korkay, Incorporated

Site Address: 70 West Main Street Zip Code: 12025
City/Town: Broadalbin
County: Fulton
Site Acreage: ~~1.2~~ 0.9 DS 9/30/2016

Reporting Period: June 15, 2015 to June 15, 2016

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. 518014 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
137.15-5-25	PERMA GLAZE CHEMICAL CORP	Ground Water Use Restriction Landuse Restriction Site Management Plan

The Environmental Notice includes restrictions on groundwater use and land use (allows only commercial or industrial use.)

Box 4

Description of Engineering Controls

~~None Required~~

DS 9/30/2016 * changed to reflect description of current EC in draft SMP (per NYSDEC comments).

~~Not Applicable/No EC's~~

* PARCEL 137.15-5-25 ENGINEERING CONTROLS CURRENTLY INCLUDE TWENTY GROUNDWATER MONITORING WELLS. THE INTEGRITY OF THE WELLS ARE INSPECTED ON ANNUAL BASIS.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. 518014

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as _____(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

_____ _____
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification Date

IC/EC CERTIFICATIONS

Box 7

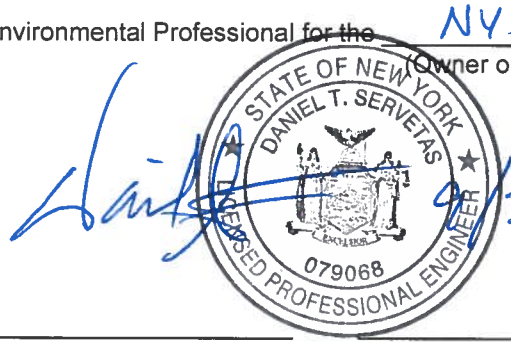
Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Daniel Servetas at AECOM 40 British Am. Blvd, Latham, NY

print name print business address

am certifying as a Qualified Environmental Professional ~~for the~~ NYSDEC (Owner or Remedial Party)



9/30/2016

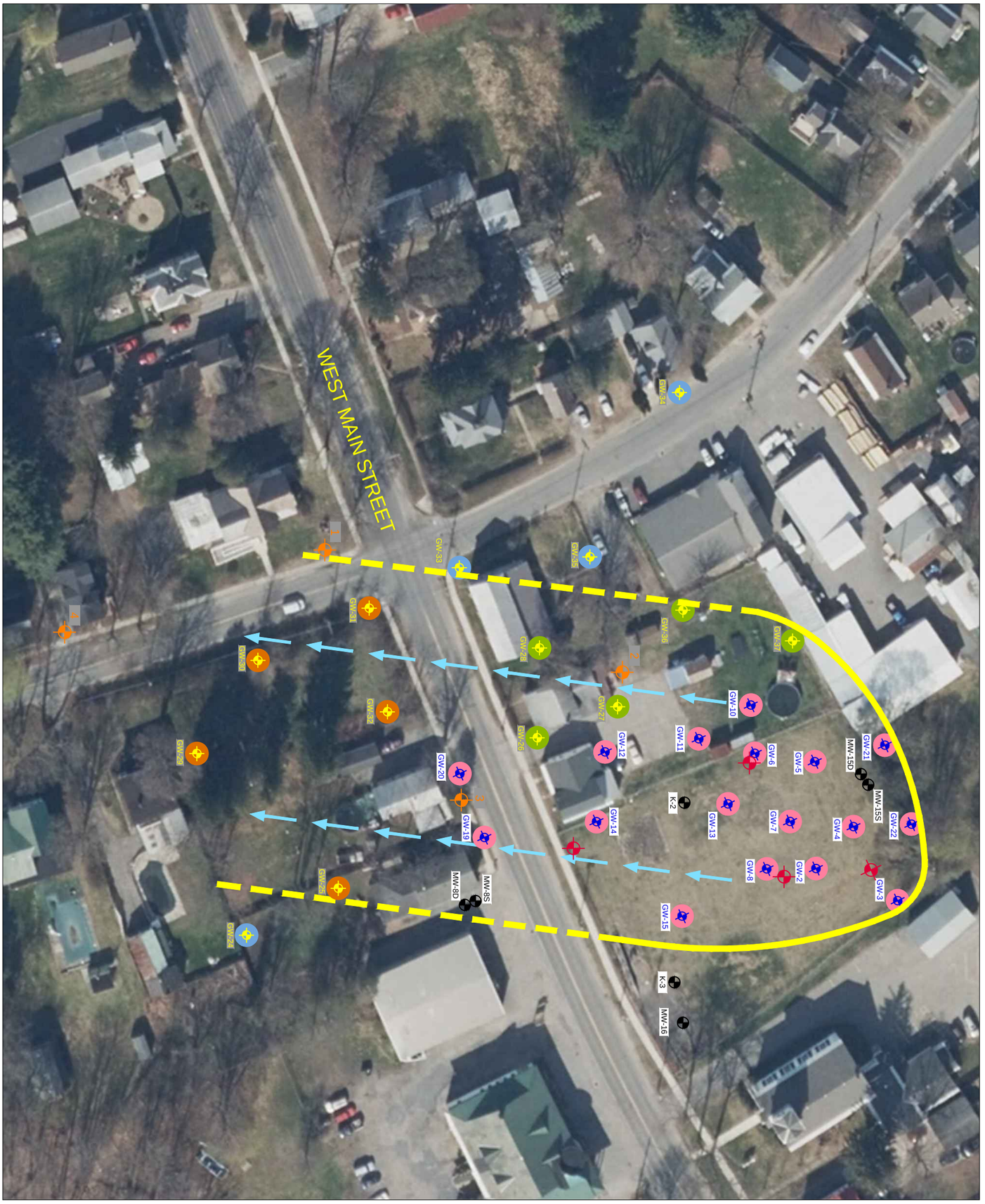
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date

Appendix C

2015 Groundwater Investigation Data

Last saved by: MEISTERK(2015-08-27) Last Plotted: 2015-09-03
Filename: P:\60273289_KORKAY INC\CADD\[TASK_NUMBER]\CIVIL\DESIGN\2015\60273289_KORKAY-RESULTS.DWG

Project Management Initials: Designer:_____ Checked:_____ Approved:_____ ANSI B 11" x 17"



0 75' 150'

PLAN

LEGEND

- APPROXIMATE LOCATION OF 2014 GROUNDWATER SAMPLE WITH RESULT GREATER THAN NYSAWQS
- EXISTING GROUNDWATER MONITORING WELL
- APPROXIMATE EXTENT OF PROJECTED AND INFERRED GROUNDWATER PLUME
- APPROXIMATE DIRECTION OF PROJECTED AND INFERRED GROUNDWATER FLOW PATH
- PROPOSED ON-SITE MONITORING WELL LOCATION
- PROPOSED OFF-SITE MONITORING WELL LOCATION
- OFF-SITE GROUNDWATER SAMPLE LOCATION (2015)

SAMPLE RESULT KEY

- SAMPLE RESULT EXCEEDS NYSAWQS STANDARDS FOR CVOC AND PETROLEUM VOCs (2015)
- SAMPLE RESULT EXCEEDS NYSAWQS STANDARDS FOR PETROLEUM VOCs (2015)
- SAMPLE RESULT BELOW NYSAWQS STANDARDS OR NON-DETECT (2015)

Issue Status: DRAFT

KORKAY INC.
NYSDEC SITE ID: 5-18-014
BROADALBIN, NEW YORK
Project No.: 60273289 Date: AUGUST 2015

PROPOSED OFF-SITE MONITORING WELL LOCATION PLAN

AECOM

Figure: 3

Table 1
VOC Results
Korkay August 2015 Groundwater Investigation

Sample Location		Off Site South						Off Site West							
Sample ID	NYSDEC	GW-24	GW-25	GW-29	GW-30	GW-31	GW-32	GW-26	GW-27	GW-28	GW-33	GW-34	GW-35	GW-36	GW-37
Sample Date	AWQS & GV	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/3/2015	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015
Sample Time	ug/L	1:00 PM	2:00 PM	8:40 AM	9:20 AM	10:00 AM	10:30 AM	3:00 PM	3:30 PM	4:06 PM	11:25 AM	12:10 PM	1:40 PM	2:10 PM	3:05 PM
VOCs ug/L															
STARS List VOCs (Petroleum)															
1,2,4-Trimethylbenzene	5	ND	**5.4**	**250**	**450**	**130**	ND	**110**	**55**	**59**	ND	ND	ND	**21**	**5.4**
1,3,5-Trimethylbenzene	5	ND	ND	**62**	**97**	**25**	ND	**34**	ND	ND	ND	ND	ND	**3.8**	ND
Ethylbenzene	5	ND	ND	**67**	**110**	**42**	**17**	**4.4 J**	**13**	**9.0 J**	ND	ND	ND	**2.1**	ND
N-Propylbenzene	5	ND	**3.8 J**	**38**	**72**	**32**	**7**	**18**	**7.5 J**	**7.0 J**	ND	ND	ND	**5.9**	**2.5**
n-Butylbenzene	5	ND	**5.2**	**19**	**59**	**29**	**4.9 J**	**38**	**6.8 J**	ND	ND	ND	ND	**4.4**	**2.5**
sec-Butylbenzene	5	ND	**7**	**13**	**40**	**25**	**4.8 J**	**23**	ND	ND	ND	ND	ND	**2.7**	**7.8**
tert-Butylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.85 J**
Isopropylbenzene	5	ND	ND	**21**	**39**	**20**	**6**	**6.7**	ND	ND	ND	ND	ND	**2.1**	ND
Toluene	5	ND	ND	**7.4 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	5	ND	ND	**12**	**16**	**4.6 J**	ND	**19**	ND	ND	ND	ND	ND	**2.9**	**1.1**
o-Xylene	5	ND	ND	**100**	**180**	**44**	ND	**5.9**	**31**	ND	ND	ND	ND	**3.8**	ND
m,p-Xylene	5	ND	ND	**180**	**150**	**26**	ND	**6.7**	**10**	ND	ND	ND	ND	**3.9**	ND
Xylenes, Total	5	ND	ND	**280**	**330**	**70**	ND	**15**	**41**	ND	ND	ND	ND	**7.7**	ND
Naphthalene	10	ND	ND	**23**	**12**	**9.3**	ND	**6.5**	ND	ND	ND	ND	ND	**9.4**	ND
TCL List VOCs Non-STARs List															
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	**10**	**18**	**20**	**11**	**7.7**	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.5 J**	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.68 J ^**	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.4**	**1.7**
cis-1,2-Dichloroethene	5	ND	ND	**14**	**19**	**9.5**	**6.1**	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NS	ND	ND	ND	**3.4 J**	**1.9 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NS	ND	**3.0 J**	**5.2 J**	**12**	**7.2**	**1.7 J**	**6**	**1.6 J**	ND	ND	ND	ND	**1.2**	**0.41 J**
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.60 J**	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Bold- Analyte was detected in laboratory analysis
Highlight- Analyte was detected above the NYSDEC AWQS or Guidance Value
NS- No Standard
ND- Not detected above MDL
J - Result is estimated, detection was below the RL but above the MDL

Table 2
SVOC Results
Korkay August 2015 Groundwater Investigation

Sample Location		Off Site South						Off Site West							
Sample ID	NYSDEC	GW-24	GW-25	GW-29	GW-30	GW-31	GW-32	GW-26	GW-27	GW-28	GW-33	GW-34	GW-35	GW-36	GW-37
Sample Date	AWQS & GV	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/3/2015	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015
Sample Time	ug/L	1:00 PM	2:00 PM	8:40 AM	9:20 AM	10:00 AM	10:30 AM	3:00 PM	3:30 PM	4:06 PM	11:25 AM	12:10 PM	1:40 PM	2:10 PM	3:05 PM
SVOCs ug/L															
2,4-Dimethylphenol	1*	ND	ND	**4.5 J**	**2.3 J**	**0.64 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	NS	ND	ND	**5.9**	**0.92 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	NS	**0.57 JB**	ND	ND	**20 B**	**9.6 B**	**0.54 J B**	ND	ND	ND	**0.40 J B**	**0.59 J B**	**0.52 J B**	**3.8 J B**	**0.57 J B**
Benzo(a)anthracene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	Non-Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	**2.1 J**	**19**	ND	**3.9 J**	**2.1 J**	ND	**2.8 J**	ND	ND	ND	ND	ND	**3.3 J**	**3.6 J**
Butyl benzyl phthalate	50	**0.59 J**	**0.62 J**	ND	**0.43 J**	**0.61 J**	**0.55 J**	**0.59 J**	**0.56 J**	ND	ND	**0.45 J**	ND	ND	ND
Caprolactam	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	5	**4.4 J**	**0.76 J**	**0.33 J**	**0.47 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	**2.7 J**	ND	**0.94 J**	**1.9 J**	**1.0 J**	**0.97 J**	ND	**0.89 J**	**0.64 J**	ND	**0.40 J**	**0.54 J**	**1.3 J**	**0.62 J**
Di-n-octyl phthalate	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	**21**	**8**	**5.4**	ND	**2.2 J**	ND	ND	ND	ND	ND	**7.1**	ND
Phenanthrene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Bold- Analyte was detected in laboratory analysis
Highlight- Analyte was detected above the NYSDEC AWQS or Guidance Value
*Sum of all Phenols
NS- No Standard
ND- Not detected above MDL
B-Compound detected in laboratory control blank.
J - Result is estimated, detection was below the RL but above the MDL

Table 3
Pesticides Results
Korkay August 2015 Groundwater Investigation

Sample Location	NYSDEC	Off Site South						Off Site West							
Sample ID	AWQS & GV	GW-24	GW-25	GW-29	GW-30	GW-31	GW-32	GW-26	GW-27	GW-28	GW-33	GW-34	GW-35	GW-36	GW-37
Sample Date	ug/L	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/3/2015	8/3/2015	8/3/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015	8/4/2015
Sample Time		1:00 PM	2:00 PM	8:40 AM	9:20 AM	10:00 AM	10:30 AM	3:00 PM	3:30 PM	4:06 PM	11:25 AM	12:10 PM	1:40 PM	2:10 PM	3:05 PM
Pesticides ug/L															
4,4'-DDD	0.3	**0.033 J**	**0.017 J**	ND	**0.05 J**	**0.015 J**	**0.063 J**	**0.0094 J**	**ND**	ND	**0.042 J**	ND	**0.018 J**	ND	**0.013 J**
4,4'-DDE	0.2	**0.014 J**	**0.020 J**	ND	ND	**0.026 J**	**0.080 J**	**0.012 J**	**0.017 J**	ND	**0.033 J**	**0.073 J**	**0.033 J**	**0.029 J**	**0.026 J**
4,4'-DDT	0.2	ND	ND	ND	ND	**0.032 J**	ND	**0.023 J**	**0.023 J**	**0.19 J**	**0.033 J**	**0.073 J**	**0.025 J**	**0.025 J**	**0.025 J**
Aldrin	Non-Detect	ND	**0.0080 J**	ND	ND	**0.048 J**	ND	**0.032 J**	**0.040 J**	ND	**0.014 J**	ND	ND	**0.013 J**	ND
alpha-BHC	0.01	**0.014 J**	ND	**0.027 J**	ND	ND	**0.016 J**	ND	**0.026 J**	ND	**0.023 J**	ND	ND	ND	ND
alpha-Chlordane	0.05**	ND	ND	**0.017 J**	ND	ND	ND	**0.04 J**	**0.31**	ND	**0.015 J**	ND	ND	**0.020 J**	ND
beta-BHC	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.004	ND	ND	ND	ND	**0.042 J**	ND	**0.015 J**	**0.041 J**	ND	ND	ND	ND	ND	ND
Endosulfan I	NS	ND	ND	ND	ND	ND	ND	**0.18**	**0.17**	ND	**0.040 J**	ND	ND	ND	ND
Endosulfan II	NS	ND	ND	ND	ND	**0.027 J**	ND	ND	**0.036 J**	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NS	**0.023 J**	ND	ND	ND	ND	ND	**0.042 J**	ND	ND	ND	ND	ND	ND	ND
Endrin	Non-Detect	ND	ND	ND	ND	ND	ND	**0.014 J**	**0.013 J**	ND	ND	ND	ND	ND	ND
Endrin aldehyde	5	ND	**0.026 J**	**0.028 J**	ND	**0.037 J**	**0.043 J**	**0.045 J**	ND	ND	ND	**0.069 J**	**0.023 J**	ND	ND
Endrin ketone	5	ND	ND	ND	**0.11 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	ND	ND	**0.011 J**	ND	ND	ND	ND	**0.017 J**	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.05	ND	ND	ND	ND	**0.0094 J**	ND	**0.0092 J**	**0.021 J**	ND	ND	ND	ND	ND	ND
gamma-Chlordane	0.05**	ND	ND	ND	ND	ND	ND	**0.020 J**	**0.18**	ND	ND	ND	ND	ND	ND
Heptachlor	0.04	**0.025 J**	ND	ND	ND	ND	ND	ND	**0.049**	ND	**0.017 J**	ND	ND	ND	ND
Heptachlor epoxide	0.03	ND	ND	ND	ND	ND	ND	**0.052**	ND	ND	ND	ND	**0.017 J**	ND	ND
Methoxychlor	35	**0.025 J**	ND	**0.042 J**	ND	**0.16**	ND	**0.053**	ND	ND	**0.051**	ND	ND	**0.058**	ND
Toxaphene	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Bold- Analyte was detected in laboratory analysis
Highlight- Analyte was detected above the NYSDEC AWQS or Guidance Value
** Sum of all Chlordanes
NS- No Standard
ND- Not detected above MDL
B-Compound detected
J - Result is estimated, detection was below the RL but above the MDL

Appendix D

October 2015 ISCO Injection Locations and Volumes

December 9, 2015

Dharma Iyer
Iyer Environmental Group PLLC (IEG)
44 Rolling Hills Drive
Orchard Park, NY 14127

RE: Application Summary Report for Remedial Services using PersulfOx® and ORC-Advanced® at the Korkay Site located at 70 West Main Street, Broadalbin, NY

Regenesis Proposal No. MaD50041

Dear Dharma,

Regenesis Remediation Services (RRS) recently completed *in-situ* injection applications using PersulfOx® (PersulfOx) and ORC-Advanced® (ORC-A) at the Korkay site, 70 West Main Street, Broadalbin, NY. The scope of this work was to treat chlorinated and non-chlorinated volatile organic compounds (VOCs) including naphthalene, trimethylbenzene, xylenes, 1,2-dichlorobenzene, tetrachloroethene, and trichloroethene. The proposed treatment plan includes a single application event to reduce the chemical of concern concentrations via *in-situ* chemical oxidation (ISCO) and enhanced aerobic biodegradation. RRS employed Direct Push Technology (DPT) injection points to apply the remediation chemistry throughout the treatment area. A map of the site and the injection points for are shown in Figure 1.

Designed mix ratios (product to water) and standard mixing procedures were followed in preparing the solutions prior to injection. Please reference the Regenesis Remediation Proposal No. MaD50041 dated April 14, 2015 for more details on the remediation design and scope of work. An injection summary log showing quantities applied at each injection point location and other noteworthy observations are provided in Table 1.

On-site Injection Work

On-site work began on the morning of Monday, October 19, 2015 and was completed on Friday, October 23, 2015. During the application, a total of 17,301.40 (pounds) lbs of PersulfOx and 3,320 lbs of ORC-A were mixed with water and injected into the treatment area. The volume of PersulfOx and ORC injected totaled 11,435 gallons.

The entire treatment area is approximately 20,600 square feet (ft^2). A total of 95 injection points were advanced during the injection event using a bottom-up approach. Injection points were labeled IP-1 through IP-99. Four injection points, IP-1, IP-7, IP-13 and IP-25 were removed from the injection plan. Please refer to Figure 1 for injection point placement.

A 15% or 20% PersulfOx solution was co-applied with ORC-A. Each of the 95 DPT injection points received between 69 to 206 gallons of remediation chemistry in accordance to the project work plan. On average 182 lbs PersulfOx were injected per point. RRS adjusted the concentration of PersulfOx during the injection based on the site conditions and project schedule. A total of 36 lbs of ORC-A were injected per point in up to 92 injection points. RRS adjusted the number of points receiving ORC-A to correlate to the design, therefore, only 92 points received ORC-A. The quantities of PersulfOx and ORC-A applied to each injection point is summarized on Table 1.

Each of the DPT injection points were advanced using 1.50 inch O.D. Geoprobe ® injection rods. The remediation chemistry was applied utilizing DPT injection points. The bottom of the targeted treatment interval started from the top of a confining layer, which ranged in depth from 9.0 to 19 ft bgs. Injection points were installed to the top of the confining layer and then the remediation chemistry was injected through the injection downhole tooling via an expendable point tip in 2.0 to 4.0 ft thick intervals as the Geoprobe rods were withdrawn. The top of the treatment interval usually ended at 5.0 ft bgs, but ranged from 4.0 to 7.0 ft bgs in accordance with the work plan and site conditions. The treatment interval thickness therefore varied for each injection point between 4.0 to 12 feet thick. Please note that the injection interval was changed from the anticipated design (3.0 to 11 ft bgs) prior to commencing work to correlate to the confining layer at the bottom and PID readings from previous investigations at the top. This was done at the direction of AECOM on-site personnel. Minimal daylighting, or surfacing, of the remediation chemistry occurred while injecting within the treatment area. Low pressures and moderate flow rates observed indicate that the subsurface soils were conducive to injection. Injection flow rates were usually between 2.0 to 3.0 gallons per minute (gpm) and ranged from 1.8 to 4.5 gpm. Injection pressures were usually 10 to 15 pounds per square inch (psi), and ranged from 0 to 20 psi. Notes and full details are listed in the comments section of Table 1.

Conclusion

Overall, the full anticipated injection volumes of PersulfOx and ORC-A were successfully applied with the treatment areas, at the targeted treatment intervals. A total of 17,301.40 lbs of PesulfOx were applied into 95 injection points. A total of 3,320 lbs of ORC-A were applied into 92 injection points. Minor modifications were made to the injection plan during the application to redistribute the remediation chemistry where borehole refusal was encountered or to accommodate the allotted field schedule. In addition, the concentration of PersulfOx was increased from 15% to 20% for some injection points to redistribute the remediation chemistry that could not be injected into some injection points.

Little to no daylighting occurred during the injection; thus, indicating that the all of the product was injected at the targeted depths. Moderate pressures and flow rates indicate that the subsurface soils were conducive to injection.

Groundwater quality parameters should be collected from monitoring wells within the treatment area on a quarterly basis to obtain a measurement of the remediation chemistry activity during upcoming groundwater monitoring events. Groundwater monitoring parameters should include depth to groundwater, pH, temperature, ORP, DO, and specific conductivity.

Regenesis appreciates the opportunity to work with Iyer Environmental on this project, and will be available to answer any questions or provide interpretation of field data as it becomes available.

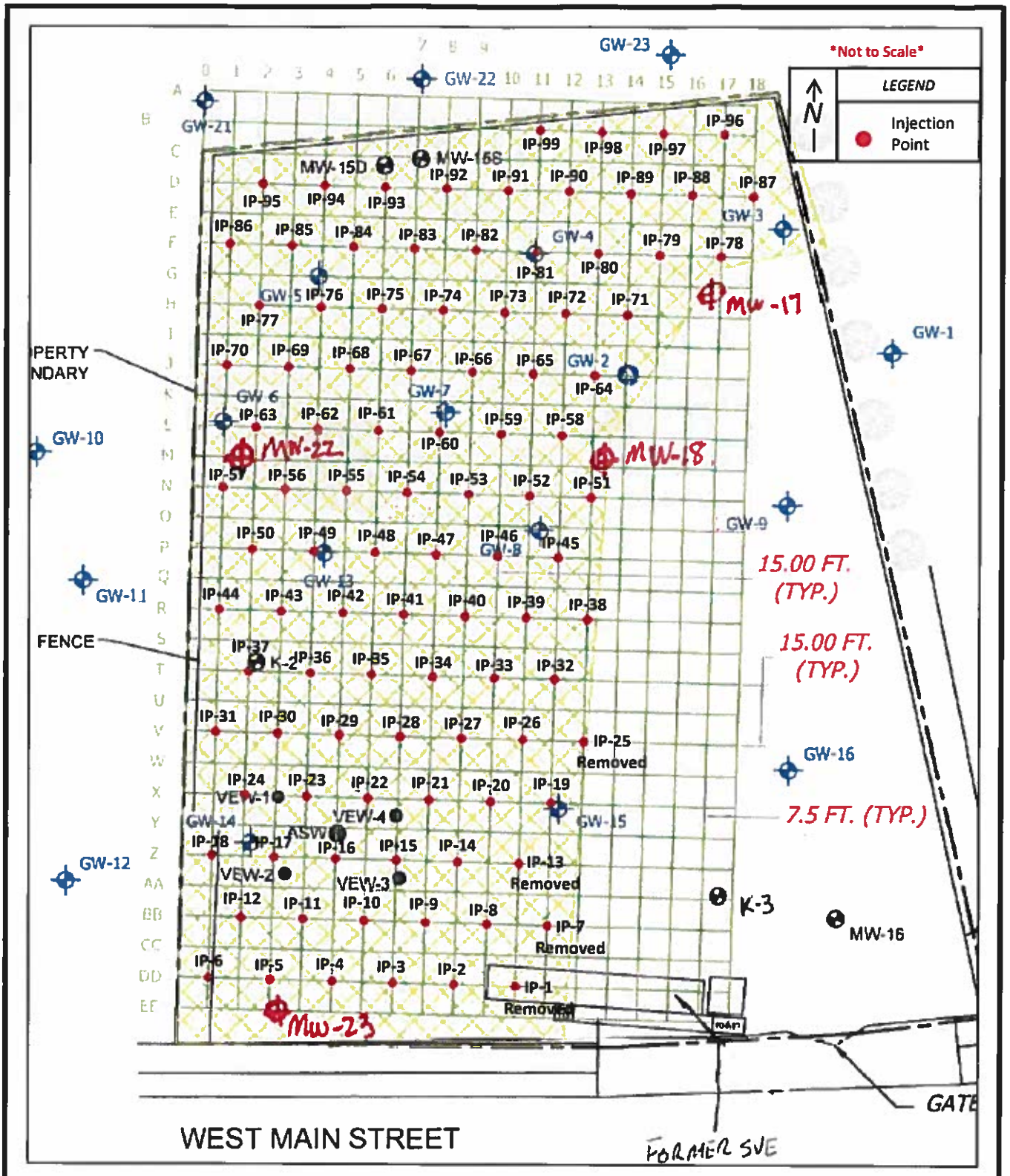
REGENESIS

Chris Lee
Senior Technical Resource/Geologist

Steve Barnes
Project Manager, Geologist

Tables:
Table 1- Injection Summary Log

Figures:
Figure 1- Map of Injection Point Locations



Prepared By: CJL		Date Prepared: December 2015

PERSULF Ox. Catalyzed Persulfate

Figure 1 – Injection Locations Map
Korkay
70 West Main Street
Broadalbin, New York

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

PERSULF Ox Catalyzed Persulfate

AECOM - Korkay

PersulfOx Injection Summary Log

Site Description

REGENESIS REMEDIATION SERVICES

Table 1

Injection Point	Date	Time	Injection Depth (feet)	Ave. Injection Pressure (psi)	Ave. Flow Rate (gpm)	Volume of PersulfOx Injected			Total gallons Per Location	Total Gallons at 15%	Total gallons at 20%	Pounds of PersulfOx Injected Per Location	Pounds of ORC-A Per Location	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval						
1 DD11	**Removed**								0					Point Removed
2 DD9	10/23/2015	16:30	9.5-14	13.0	2.8	0	102	102	204		204	386.41	72.17	Additional volume injected to make up for point Z11 refusal. 20% solution. Additional ORC-A to account for Z1 through Z7 not receiving ORC-A.
		16:50	5-9.5	12.0	2.8	102	204	102						
3 DD7	10/23/2015	16:52	9.5-14	10.0	2.2	0	54	54	108		108	204.57	36.09	20% solution
		17:27	5-9.5	10.0	2.3	54	108	54						
4 DD5	10/23/2015	13:32	11-15	12.0	2.8	0	48	48	120		120	227.30	36.09	20% solution
		13:58	8-11	8.0	2.7	48	84	36						
		14:22	5-8	8.0	2.7	84	120	36						
5 DD3	10/23/2015	15:41	14-18	16.0	2.4	0	48	48	144		144	272.76	36.09	20% solution
		16:08	10-14	16.0	2.2	48	96	48						
		16:37	6-10	12.0	2.3	96	144	48						
6 DD1	10/23/2015	13:25	11-15	20.0	2.7	0	48	48	120		120	227.30	36.09	20% soultion
		13:52	8-11	12.0	3.1	48	84	36						
		14:12	5-8	12.0	2.8	84	120	36						
7 BB12	**Removed**								0		0			Point Removed
8 BB10	10/23/2015	9:20	9.5-14	10.0	2.7	0	54	54	108		108	204.57	36.09	20% solution
		9:55	5-9.5	8.0	2.6	54	108	54						
9 BB8	10/23/2015	14:40	9.5-14	8.0	2.3	0	54	54	108		108	204.57	36.09	20% solution
		15:14	5-9.5	8.0	2.4	54	108	54						
10 BB6	10/23/2015	8:55	10.5-15	16.0	2.5	0	60	60	120		120	227.30	36.09	20% solution
		9:22	6-10.5	10.0	2.3	60	120	60						
11 BB4	10/23/2015	12:03	14-18	10.0	2.3	0	48	48	144		144	272.76	36.09	20% solution
		12:33	10-14	12.0	2.2	48	96	48						
		13:02	6-10	10.0	2.4	96	144	48						
12 BB2	10/23/2015	8:45	14-18	16.0	3.8	0	48	48	144		144	272.76	36.09	20% solution
		9:14	10-14	13.0	2.8	48	96	48						
		9:41	6-10	14.0	3.0	96	144	48						
13 Z11	**Removed**								0		0			Point Removed.
														Hard refusal in area. Injected extra vol. into IP-2 (DD9).
14 Z9	10/23/2015	10:40	9-13	12.0	2.3	0	68	68	137		137	259.50	36.09	20% solution
		11:03	5-9	10.0	2.4	68	137	69						
15 Z7	10/23/2015	12:22	9-13	13.0	2.8	0	48	48	137		137	259.50	--	20% solution. No ORC-A to account for variation from design to field with number of pts.
		12:52	5-9	10.0	2.9	48	96	48						
16 Z5	10/23/2015	13:12	11-15	18.0	3.0	0	48	48	120		120	227.30	--	20% solution. No ORC-A to account for variation from design to field with number of pts.
		13:22	8-11	10.0	3.2	48	84	36						
		13:51	5-8	12.0	2.9	84	120	36						

AECOM - Korkay

PersulfOx Injection Summary Log

Site Description

Table 1

Injection Point	Date	Time	Injection Depth (feet)	Ave. Injection Pressure (psi)	Ave. Flow Rate (gpm)	Volume of PersulfOx Injected			Total gallons Per Location	Total Gallons at 15%	Total gallons at 20%	Pounds of PersulfOx Injected Per Location	Pounds of ORC-A Per Location	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval						
17 Z3	10/23/2015	11:20	14-18	20.0	2.2	0	48	48	144		144	272.76	--	20% solution. No ORC-A to account for variation from design to field with number of pts.
		11:46	10-14	15.0	3.0	48	96	48						
		12:10	6-4	15.0	2.8	96	144	48						
18 Z1	10/23/2015	15:22	14-18	14.0	2.8	0	48	48	144		144	272.76	--	20% solution.
		15:39	10-14	10.0	2.8	48	96	48						
		16:00	6-10	10.0	2.7	96	144	48						
19 X12	10/23/2015	13:22	9-13	20.0	2.9	0	68	68	137		137	259.50	36.09	20% solution
		13:51	5-9	20.0	3.0	68	137	69						
20 X10	10/22/2015	12:00	10-13	16.0	3.1	0	51	51	154	154		211.19	36.09	15% solution
		12:20	7-10	10.0	2.8	51	103	52						
		12:40	4-7	8.0	2.9	103	154	51						
21 X8	10/22/2015	13:44	10-13	18.0	2.0	0	51	51	154	154		211.19	36.09	20% solution
		14:00	7-10	8.0	2.0	51	103	52						
		14:30	4-7	8.0	2.3	103	154	51						
22 X6	10/22/2015	13:40	10-14	10.0	3.1	0	68	68	171	171		234.51	36.09	15% solution
		14:06	7-10	10.0	2.9	68	120	52						
		14:25	4-7	10.0	2.4	120	171	51						
23 X4	10/22/2015	16:55	11-15	14.0	3.0	0	68	68	188		188	356.10	36.09	20% solution of persulfox
		17:20	7-11	12.0	3.3	68	136	68						
		17:40	4-7	12.0	2.5	136	188	52						
24 X2	10/22/2015	12:51	11-15	22.0	2.1	0	68	68	188	188		257.82	36.09	15% solution
		13:20	7-11	14.0	2.8	68	136	68						
		14:00	4-7	14.0	2.5	136	188	52						
25 V13	**Removed**								0					Point Removed
26 V11	10/22/2015	10:30	9-13	12.0	2.4	0	68	68	137		137	259.50	36.09	20% solution - extra volume to make up for diff in volum
		11:05	5-8.5	13.0	2.2	68	137	69						
27 V9	10/22/2015	10:51	9.5-13	18.0	2.8	0	60	60	120		120	227.30	36.09	20% solution - extra volume to make up for diff in volum
		11:33	6-9.5	14.0	2.7	60	120	60						
28 V7	10/22/2015	12:48	9.5-13	20.0	3.0	0	60	60	120		120	227.30	36.09	20% solution - extra volume to make up for diff in volum
		13:30	6-9.5	15.0	2.2	60	120	60						
29 V5	10/22/2015	12:22	10.5-14	12.0	2.0	0	60	60	120		120	227.30	36.09	20% solution - extra volume to make up for diff in volum
		13:00	7-10.5	14.0	2.0	60	120	60						
30 V3	10/22/2015	13:08	11-15	10.0	2.7	0	68	68	137		137	259.50	36.09	20% solution - extra volume to make up for diff in volum
		13:30	7-11	10.0	2.4	68	137	69						
31 V1	10/22/2015	13:48	11-15	12.0	2.1	0	68	68	137		137	259.50	36.09	20% solution - extra volume to make up for diff in volum
		14:08	7-11	10.0	2.3	68	137	69						
32 T12	10/22/2015	11:22	15-19	12.0	2.4	0	68	68	206	206		282.51	36.09	15% solution
		12:00	11-15	12.0	2.3	68	137	69						
		12:45	7-11	12.0	2.3	137	206	69						
33 T10	10/22/2015	10:25	15-19	16.0	3.1	0	68	68	206	206		282.51	36.09	15% solution
		11:10	11-15	15.0	2.7	68	137	69						
		12:02	7-11	16.0	2.8	137	206	69						
34 T8	10/22/2015	12:34	14-18	14.0	2.7	0	68	68	206	206		282.51	36.09	15% solution
		13:15	10-14	14.0	2.7	68	137	69						
		14:00	6-10	14.0	2.7	137	206	69						

PERSULF Ox. Catalyzed Persulfate

AECOM - Korkay

PersulfOx Injection Summary Log

Site Description

REGENESIS REMEDIATION SERVICES

Table 1

Injection Point	Date	Time	Injection Depth (feet)	Ave. Injection Pressure (psi)	Ave. Flow Rate (gpm)	Volume of PersulfOx Injected			Total gallons Per Location	Total Gallons at 15%	Total gallons at 20%	Pounds of PersulfOx Injected Per Location	Pounds of ORC-A Per Location	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval						
35 T6	10/22/2015	11:02	11-15	18.0	3.6	0	68	68	171	171		234.51	36.09	15% solution
		11:20	8-11	14.0	3.4	68	120	52						
		11:40	5-8	14.0	3.4	120	171	51						
36 T4	10/22/2015	10:02	11-15	18.0	4.5	0	68	68	171	171		234.51	36.09	15% solution
		10:25	8-11	12.0	2.8	68	120	52						
		10:50	5-8	12.0	2.8	120	171	51						
37 T2	10/22/2015	9:46	11-15	10.0	3.4	0	68	68	171	171		234.51	36.09	15% solution
		10:00	8-11	12.0	3.4	68	120	52						
		10:14	5-8	8.0	2.8	120	171	51						
38 R13	10/22/2015	9:03	9-13	12.0	2.6	0	69	69	137	137		187.88	36.09	15% solution
		9:28	5-9	12.0	3.0	69	137	68						
39 R11	10/22/2015	8:30	8-11	14.0	3.1	0	69	69	137	137		187.88	36.09	15% solution
		9:07	5-8	12.0	3.0	69	137	68						
40 R9	10/22/2015	7:48	7.5-12	14.0	3.4	0	60	60	120	120		164.57	36.09	15% solution
		7:08	5-7.5	12.0	3.1	60	120	60						
41 R7	10/22/2015	7:55	7.5-12	16.0	3.7	0	60	60	120	120		164.57	36.09	15% solution
		7:12	5-7.5	12.0	2.8	60	120	60						
42 R5	10/21/2015	8:22	7.5-12	12.0	3.0	0	60	60	120	120		164.57	36.09	15% solution
		8:50	5-7.5	8.0	2.8	60	120	60						
43 R3	10/21/2015	10:13	7.5-12	16.0	2.4	0	60	60	120	120		164.57	36.09	15% solution
		10:55	5-7.5	14.0	3.0	60	120	60						
44 R1	10/21/2015	10:30	8-11	12.0	2.2	0	60	60	120	120		164.57	36.09	15% solution
		11:25	5-8	12.0	2.6	60	120	60						
45 P12	10/21/2015	10:24	8-11	10.0	2.7	0	69	69	137	137		187.88	36.09	15% solution
		10:55	5-8	10.0	2.2	69	137	68						
46 P10	10/21/2015	10:49	8-11	12.0	2.0	0	60	60	120	120		164.57	36.09	15% solution
		11:30	5-8	14.0	1.8	60	120	60						
47 P8	10/21/2015	11:22	8-11	10.0	3.1	0	60	60	120	120		164.57	36.09	15% solution
		12:05	5-8	12.0	2.4	60	120	60						
48 P6	10/21/2015	12:00	8-11	14.0	2.3	0	60	60	120	120		164.57	36.09	15% solution
		12:33	5-8	10.0	3.3	60	120	60						
49 P4	10/21/2015	13:57	8.5-12	14.0	3.6	0	60	60	120	120		164.57	36.09	15% solution
		14:23	5-8.5	12.0	3.5	60	120	60						
50 P2	10/21/2015	14:00	8-11	10.0	3.3	0	60	60	120	120		164.57	36.09	15% solution
		14:25	5-8	10.0	2.9	60	120	60						
51 N13	10/21/2015	14:32	9-13	14.0	2.5	0	68	68	137	137		187.88	36.09	15% solution
		15:00	5-9	14.0	2.0	68	137	69						
52 N11	10/21/2015	15:02	9-13	12.0	3.0	0	68	68	137	137		187.88	36.09	15% solution
		15:38	5-9	10.0	2.0	68	137	69						

PERSULF Ox. Catalyzed Persulfate

AECOM - Korkay

PersulfOx Injection Summary Log

Site Description

REGENESIS REMEDIATION SERVICES

Table 1

Injection Point	Date	Time	Injection Depth (feet)	Ave. Injection Pressure (psi)	Ave. Flow Rate (gpm)	Volume of PersulfOx Injected			Total gallons Per Location	Total Gallons at 15%	Total gallons at 20%	Pounds of PersulfOx Injected Per Location	Pounds of ORC-A Per Location	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval						
53 N9	10/21/2015	15:51	8.5-12	16.0	2.2	0	60	60	120	120		164.57	36.09	15% solution
		16:22	5-8.5	12.0	2.0	60	120	60						
54 N7	10/21/2015	16:10	8.5-12	15.0	2.7	0	60	60	120	120		164.57	36.09	15% solution
		16:40	5-8.5	12.0	3.1	60	120	60						
55 N5	10/21/2015	16:31	8.5-12	12.0	3.3	0	60	60	120	120		164.57	36.09	15% solution
		17:00	5-8.5	12.0	2.3	60	120	60						
56 N3	10/21/2015	15:15	8.5-12	12.0	1.9	0	60	60	120	120		164.57	36.09	15% solution
		15:45	5-8.5	12.0	2.7	60	120	60						
57 N1	10/21/2015	16:15	8.5-12	10.0	2.3	0	60	60	120	120		164.57	36.09	15% solution
		16:35	5-8.5	10.0	3.0	60	120	60						
58 L12	10/21/2015	16:45	8.5-12	14.0	2.2	0	60	60	120	120		164.57	36.09	15% solution
		17:12	5-8.5	14.0	1.8	60	120	60						
59 L10	10/21/2015	17:22	8-11	10.0	3.1	0	51	51	103	103		141.25	36.09	15% solution
		17:31	5-8	10.0	2.4	51	103	52						
60 L8	10/21/2015	8:22	8.5-12	12.0	2.3	0	60	60	120	120		164.57	36.09	15% solution
		8:50	5-8.5	10.0	2.1	60	120	60						
61 L6	10/21/2015	8:45	8.5-12	18.0	2.3	0	60	60	120	120		164.57	36.09	15% solution
		9:20	5-8.5	12.0	2.2	60	120	60						
62 L4	10/21/2015	9:00	7.5-10	14.0	2.5	0	43	43	86	86		117.94	36.09	15% solution
		9:28	5-7.5	10.0	2.4	43	86	43						
63 L2	10/21/2015	7:34	7.5-10	12.0	2.7	0	43	43	86	86		117.94	36.09	15% solution
		8:05	5-7.5	8.0	2.8	43	86	43						
64 J13	10/20/2015	16:58	7.5-10	14.0	2.2	0	43	43	86	86		117.94	36.09	15% solution
		17:24	5-7.5	12.0	2.0	43	86	43						
65 J11	10/20/2015	16:40	7.5-10	12.0	2.5	0	43	43	86	86		117.94	36.09	15% solution
		17:02	5-7.5	12.0	2.6	43	86	43						
66 J9	10/20/2015	16:00	7.5-10	10.0	2.3	0	43	43	86	86		117.94	36.09	15% solution
		16:20	5-7.5	12.0	2.2	43	86	43						
67 J7	10/20/2015	15:32	7.5-10	16.0	2.1	0	43	43	86	86		117.94	36.09	15% solution
		15:55	5-7.5	12.0	1.9	43	86	43						
68 J5	10/20/2015	15:25	7.5-10	8.0	2.4	0	43	43	86	86		117.94	36.09	15% solution
		15:51	5-7.5	8.0	2.3	43	86	43						
69 J3	10/20/2015	15:02	7.5-10	10.0	2.4	0	43	43	86	86		117.94	36.09	15% solution
		15:33	5-7.5	10.0	2.0	43	86	43						
70 J1	10/20/2015	14:28	7.5-10	12.0	2.8	0	43	43	86	86		117.94	36.09	15% solution
		14:39	5-7.5	10.0	2.8	43	86	43						

AECOM - Korkay

PersulfOx Injection Summary Log

Site Description

Table 1

Injection Point	Date	Time	Injection Depth (feet)	Ave. Injection Pressure (psi)	Ave. Flow Rate (gpm)	Volume of PersulfOx Injected			Total gallons Per Location	Total Gallons at 15%	Total gallons at 20%	Pounds of PersulfOx Injected Per Location	Pounds of ORC-A Per Location	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval						
71 H14	10/20/2015	14:22	7.5-10	10.0	2.5	0	43	43	86	86		117.94	36.09	15% solution
		14:41	5-7.5	12.0	2.2	43	86	43						
72 H12	10/20/2015	14:13	7.5-10	14.0	1.7	0	43	43	86	86		117.94	36.09	Refusal @2'. Off set 3' and red re drill
		14:25	5-7.5	12.0	2.4	43	86	43						15% solution
73 H10	10/20/2015	14:04	7.5-10	16.0	2.2	0	43	43	86	86		117.94	36.09	Refusal @ 2'. Offset 2' and re drill
		14:20	5-7.5	12.0	2.3	43	86	43						15% solution
74 H8	10/20/2015	11:10	7.5-10	20.0	2.7	0	43	43	86	86		117.94	36.09	15% solution
		11:45	5-7.5	12.0	2.8	43	86	43						
75 H6	10/20/2015	11:30	7.5-10	12.0	3.0	0	43	43	86	86		117.94	36.09	15% solution
		11:55	5-7.5	12.0	2.8	43	86	43						
76 H4	10/20/2015	11:39	7.5-10	12.0	2.0	0	43	43	86	86		117.94	36.09	15% solution
		12:04	5-7.5	10.0	2.0	43	86	43						
77 H2	10/20/2015	11:52	7.5-10	10.0	2.3	0	43	43	86	86		117.94	36.09	15% solution
		12:21	5-7.5	10.0	2.1	43	86	43						
78 F17	10/20/2015	10:55	8-11	10.0	2.4	0	51	51	103	103		141.25	36.09	15% solution
		11:14	5-8	10.0	2.7	51	103	52						
79 F15	10/20/2015	10:23	8-11	8.0	2.3	0	51	51	103	103		141.25	36.09	15% solution
		10:41	5-8	8.0	2.0	51	103	52						
80 F13	10/20/2015	10:15	8-11	14.0	3.0	0	51	51	103	103		141.25	36.09	15% solution
		10:38	5-8	12.0	2.4	51	103	52						
81 F11	10/20/2015	9:54	8-11	6.0	3.4	0	51	51	103	103		141.25	36.09	15% solution
		10:33	5-8	0.0	3.7	51	103	52						
82 F9	10/20/2015	10:12	8-11	4.0	3.0	0	51	51	103	103		141.25	36.09	15% solution
		10:46	5-8	0.0	3.4	51	103	52						
83 F7	10/20/2015	10:19	8-11	0.0	3.5	0	51	51	103	103		141.25	36.09	15% solution
		10:26	5-8	0.0	3.3	51	103	52						
84 F5	10/20/2015	9:11	8-11	10.0	1.8	0	51	51	103	103		141.25	36.09	15% solution
		9:46	5-8	12.0	2.0	51	103	52						
85 F3	10/20/2015	9:41	8-11	11.0	2.5	0	51	51	103	103		141.25	36.09	15% solution
		10:05	5-8	2.0	3.2	51	103	52						
86 F1	10/20/2015	8:14	8-11	0.0	3.6	0	51	51	103	103		141.25	36.09	15% solution
		8:45	5-8	0.0	3.1	51	103	52						

PERSULF Ox. Catalyzed Persulfate

AECOM - Korkay

PersulfOx Injection Summary Log

Site Description

REGENESIS REMEDIATION SERVICES

Table 1

Injection Point	Date	Time	Injection Depth (feet)	Ave. Injection Pressure (psi)	Ave. Flow Rate (gpm)	Volume of PersulfOx Injected			Total gallons Per Location	Total Gallons at 15%	Total gallons at 20%	Pounds of PersulfOx Injected Per Location	Pounds of ORC-A Per Location	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval						
87 D18	10/20/2015	10:41	8-11	8.0	2.3	0	51	51	103	103		141.25	36.09	15% solution
		11:08	5-8	6.0	3.3	51	103	52						
88 D16	10/20/2015	11:22	8-11	4.0	2.9	0	51	51	103	103		141.25	36.09	15% solution
		11:45	5-8	5.0	3.0	51	103	52						
89 D14	10/20/2015	11:33	8-11	12.0	3.0	0	51	51	103	103		141.25	36.09	15% solution
		11:55	5-8	8.0	3.2	51	103	52						
90 D12	10/20/2015	11:41	8-11	10.0	3.3	0	51	51	103	103		141.25	36.09	15% solution
		12:09	5-8	8.0	3.3	51	103	52						
91 D10	10/19/2015	13:42	8-11	5.0	3.1	0	52	52	103	103		141.25	36.09	15% solution
		14:02	5-8	5.0	3.0	52	103	51						
92 D8	10/19/2015	14:25	8-11	8.0	3.2	0	51	51	103	103		141.25	36.09	15% solution
	10/20/2015	7:49	5-8	8.0	3.3	51	103	52						
93 D6	10/19/2015	13:32	8-11	6.0	3.2	0	51	51	103	103		141.25	36.09	15% solution
		13:55	5-8	6.0	3.0	51	103	52						
94 D4	10/19/2015	14:00	11-13	10.0	2.9	0	34	34	137	137		187.88	36.09	15% solution
		14:21	8-11	10.0	2.9	34	86	52						
		14:41	5-8	8.0	3.3	86	137	51						
95 D2	10/19/2015	14:15	8-11	6.0	3.4	0	60	60	120	120		164.57	36.09	15% solution
	10/20/2015	7:44	5-8	7.0	3.0	60	120	60						
96 B17	10/19/2015	11:02	7.5-10	4.0	2.3	0	43	43	86	86		117.94	36.09	15% solution
		11:29	5-7.5	5.0	2.5	43	86	86						
97 B15	10/19/2015	11:10	8-11	5.0	2.1	0	43	43	86	86		117.94	36.09	15% solution
		11:32	5-8	5.0	2.4	43	86	43						
98 B13	10/19/2015	11:50	7-9	6.0	2.4	0	34	34	69	69		94.63	36.09	15% solution
		12:23	5-7	6.0	2.5	34	69	35						
99 B11	10/19/2015	11:42	7-9	2.0	2.5	0	34	34	69	69		94.63	36.09	15% solution
		12:15	5-7	2.0	2.6	34	69	35						ORC completed at 13:10 on 10/19
							Page 6	**TOTALS**	**11435**	**8337**	**3098**	**17301.40**	**3320.00**	

Appendix E

Annual Monitoring Well Inspection Logs

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: ~~DS~~/BD
DATE/TIME: 10/12/15
WELL ID.: ASW

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572238.3959 NYTM Y 1538953.4708
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: ASW

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) NEW FRAME AND COVER	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: _____
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): AT GROUND LEVEL
PROTECTIVE CASING MATERIAL TYPE: PVC SCHEDULE 40
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): ~~5~~ 3/4"

LOCK PRESENT? NO LOCK OR PROVISION FOR.	X / ~~X~~
LOCK FUNCTIONAL?	N/A
DID YOU REPLACE THE LOCK?	N/A
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)	X
WELL MEASURING POINT VISIBLE?	X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 18.18'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 7.38
MEASURE WELL DIAMETER (Inches): 2"
WELL CASING MATERIAL: CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING: NEW SURFACE CAP GOOD / NEW
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE: AT INSIDE COVER
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: AT STREET & POWER pole 150' ± 25' INSIDE PERIMETER FENCE

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.): ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
TOTAL ACCESSIBILITY TOTAL PERIMETER OF 6'-0" CHAIN LINK FENCE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
TOTAL ASSESS NO, RESTORATION REQUIRED

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.): NONE

REMARKS:
NO PROVISION FOR WELL COVERS TO BE PADLOCK

Sketch

SITE NAME: Korkay

MONITORING WELL FIELD INSPECTION LOG

SITE ID.: 518014
INSPECTOR: DT / BD
DATE/TIME: 10/12/15 12:30 pm
WEll ID.: VEW -1

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572109.8066 NYTM Y 1538947.0719
PDOP Reading from Trimble Pathfinder:______ Satelites:_______
GPS Method (circle) Trimble (circled) And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? WRITTEN ON EXTERIOR OF COVER	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: VEW-1

ASW

	YES	NO
SURFACE SEAL PRESENT? NEW	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off. ↓	~~X~~	X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) ↓	X	

~~HEADSPACE READING~~ (ppm) AND INSTRUMENT USED

~~TYPE OF PROTECTIVE~~ CASING AND HEIGHT OF STICKUP IN FEET (If applicable): GROUND LEVEL
PROTECTIVE CASING MATERIAL TYPE: CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 5 3/4" clear to sides — 5 3/4"

	YES	NO
LOCK PRESENT? (3) Bolts holding cover down		X
LOCK FUNCTIONAL?		N/A
DID YOU REPLACE THE LOCK? NO WAY TO PADLOCK		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X
	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 10.80
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 6.94
MEASURE WELL DIAMETER (Inches): 5 3/4 clear
WELL CASING MATERIAL: CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING: (NEW) GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE: MARKED WITH PEN — AT EXTERIOR / WRITTEN
PROXIMITY TO UNDERGROUND ~~OR OVERHEAD UTILITIES~~: 30'

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.): ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

TOTAL ACCESS

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

OPEN MOWED LAWN. NO REMEDIATION REQUIRED

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

NONE. (8) HAZMAT DRUMS AND PLASTIC COVERED OF 1/2 cubic yard near entry gates

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: DS / BD
DATE/TIME: 10/12/13
WELL ID.: VEW-2

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572229.5803 NYTM Y 1538938.8822
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? Marked on cover exterior	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: VEW-2

ASW

	YES	NO
SURFACE SEAL PRESENT? (NEW)	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off. (NEW)	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) (NEW)	X	

~~HEADSPACE READING (ppm) AND INSTRUMENT USED~~	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) (New)	CAST-IRON
PROTECTIVE CASING MATERIAL TYPE:	CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 5 3/4"	

LOCK PRESENT?		N/A
LOCK FUNCTIONAL? None in place		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	10.81'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	6.96
MEASURE WELL DIAMETER (Inches):	5 3/4"
WELL CASING MATERIAL: (NEW)	CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING: (NEW)	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE Magic Marker	WRITTEN ON EXT of Cover
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	135' ±

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.): ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

TOTAL ACCESS — LAWN LIKE. EXTERIOR PERIMETER 6-0" CHAIN LINK FENCE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

OPEN FIELD. GRASS MOWED AND NO BRUSH.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

NONE. (8) HAZMAT DRUMS 1/2 CUBIC YARD OF PLASTIC COVERED DIRT.

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: DS/BD
DATE/TIME: 10/12/15 9:3[illegible] AM
WELL ID.: VEW-3

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572256.8570 NYTM Y 1538949.2594
PDOP Reading from Trimble PathFinder: _____ Satelites: _____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: VEW-3

	YES	NO
SURFACE SEAL PRESENT? PVC CAP / SLIDES ON & OFF	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) (NEW ICP)	X	

(HEADSPACE READING) (ppm) AND INSTRUMENT USED: _____
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): AT GROUND LEVEL
PROTECTIVE CASING MATERIAL TYPE: 2"
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): _____

LOCK PRESENT? COVER Bolted to NEW CONCRETE EMBED	X
LOCK FUNCTIONAL? No PROVISIONS TO PADLOCK	N/A
DID YOU REPLACE THE LOCK? NO WAY TO place padlock - COVER TO FRAME	N/A
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)	✓
WELL MEASURING POINT VISIBLE?	X
	X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 10.81'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 6.96'
MEASURE WELL DIAMETER (Inches): 5 3/4"
WELL CASING MATERIAL: CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING: NEW GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE _____
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: 135' ±

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.): ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
FULL ACCESS TO MOWED LAWN. ALL AREA INSIDE PERIMETER FREE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
IN OPEN CLEAR/CLEAN LAWN AREA

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
NONE

REMARKS:
UNLABELED OR IDENTIFIED WELLS OR COVERS

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: DS/BP
DATE/TIME: 10/12/15 11:30 AM
WELL ID.: VEW-4

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572249.9471 NYTM Y 1538963.6147
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? MARKED OUTSIDE OF COVER	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: ASW

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off. (NEWER NEW)		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED:

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	AT SURFACE LEVEL
PROTECTIVE CASING MATERIAL TYPE:	CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	5 3/4"

	YES	NO
LOCK PRESENT?		X
LOCK FUNCTIONAL?		N/A
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?		X
	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	10.85'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	7.42'
MEASURE WELL DIAMETER (Inches):	2"
WELL CASING MATERIAL:	CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING:	NEW / GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE AT INSIDE OF COVER	WRITTEN
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	130'

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
- FULL ACCESS

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
- ALL LAWN LIKE, CLEARED AND DEBRIS FREE. PAVED ARE AT EAST ENTRY GATES 25'± x 50'±

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
- NONE
(8) HAZ MAT DRUM NEAR ENTRY GATE.
(1) 1/2 CUBIC YARD OF PLASTIC COVERED DIRT.

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: ~~DT~~/BD
DATE/TIME: 12/12/15 12:45 PM
WELL ID.: ~~K-2~~

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572203.3716 NYTM Y 1538983.7256
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: K-2

ASW

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) IN GROUND	AT SURFACE LEVEL (-5')
PROTECTIVE CASING MATERIAL TYPE:	CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): (5 3/4" clear diameter)	

LOCK PRESENT?	✓
LOCK FUNCTIONAL?	~~X~~ NONE
DID YOU REPLACE THE LOCK?	N/A
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)	X
WELL MEASURING POINT VISIBLE?	X
	X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	13.82'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	6.78'
MEASURE WELL DIAMETER (Inches):	2"
WELL CASING MATERIAL:	CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING: NEW	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE MARKED AT ENTRANCE	
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES SURFACE	

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.): ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

TOTAL ACCESS. ENTRY POWER LINES OUTSIDE PROJECT AT CURB. METER/ POWER PANEL Pole 25±0 OUTO PROJECT FROM SOUTH POST OF LEFT ENTRY GATE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

AT OPEN SPACE, MOWED LAWN NO REMEDIATION REQUIRED

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

NONE (8) HAZMAT DRUMS AND 1/2 cubic YARD of plastic COVERED DIRT NEAR ENTRY GATE.

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: ~~DS~~ BD
DATE/TIME: 10/12/13 9:45 AM
WELL ID.: K-3

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572329.9710 NYTM Y 1538976.7422
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? AT COVER — MARKED AT INSIDE	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: ~~AT ENTRY GATE~~ K-3

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.	~~X~~	X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) (NEWER)	X	

(HEADSPACE READING) (ppm) AND INSTRUMENT USED: ASW
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): SURFACE LEVEL
PROTECTIVE CASING MATERIAL TYPE: CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 5 3/4" ±D

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL? NO PADLOCK OR PROTECTOR		X
DID YOU REPLACE THE LOCK?		N/A
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X
	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 10.35'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 7.00
MEASURE WELL DIAMETER (Inches): 2"
WELL CASING MATERIAL: DRY / STONE DUST ENCOUNTER AT WELL BOTTOM — GOOD / NEW
PHYSICAL CONDITION OF VISIBLE WELL CASING: NEW / GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE: CAST INTO COVER
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: 110'

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.): ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
SITE CLEARED OF ALL WELL PIPES / COVERS AND EQUIPMENT.
LAWN WHICH CAN BE DRIVEN OVER BY VEHICLES

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
Full ACCESS

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
NONE

REMARKS:
- WATER METER ENCOUNTED STONE DUST USED AS NEW PIPE FILL

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: BD DT
DATE/TIME: 10/14/15
WELL ID.: MW-8D

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572276.1700 NYTM Y 1538827.2842
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-8D

ASW

	YES	NO
SURFACE SEAL PRESENT? NEW	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED.....
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) GROUND LEVEL
PROTECTIVE CASING MATERIAL TYPE: CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 5 3/4" clear

LOCK PRESENT? NO, PROVISION TO USE PADLOCK		X
LOCK FUNCTIONAL?		N/A
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?		X
	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 55.70 ~~40.49~~
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 27.56 ~~6.88~~
MEASURE WELL DIAMETER (Inches): 5 3/4" clear diameter
WELL CASING MATERIAL: CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING: NEW GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE NONE PROVIDED PAINTED AT COVER TOP
PROXIMITY TO ~~UNDERGROUND OR~~ OVERHEAD UTILITIES: 2

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.): ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
TOTAL ACCESSIBILITY. SITE CLEARED/MOWED LAWN. OVHD POWER TO POLE METER AND PANEL BOX. 25'-0 FROM UTILITY SOURCE OUTSIDE SITE, NEAR ENTRY GATE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
IN MIDDLE OF LEVEL LAWN AREA.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
NONE. (8) ASSORT STEEL DRUMS AND A PLASTIC COVERED 1/2 CUBIC YARD OF MIXED DEBRIS PILE OF DIRT AND VARIOUS METAL PIECES

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: BD DT
DATE/TIME: 10/13/15
WELL ID.: ~~MW-8S~~

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572273.4623 NYTM Y 1538834.6069
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-8S

ASW

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.	~~X~~ NOW ↓	~~X~~
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED:

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	FLUSH TO GROUND
PROTECTIVE CASING MATERIAL TYPE:	CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	

LOCK PRESENT?	NO, PROVISION FOR Padlock	X
LOCK FUNCTIONAL?		N/A
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	~~X~~	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	10.49'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	6.80
MEASURE WELL DIAMETER (Inches): 5 3/4" clear diameter	
WELL CASING MATERIAL:	CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE: PAINTED AT TOP OF CASING	PAINTED
PROXIMITY TO ~~UNDERGROUND OR~~ OVERHEAD UTILITIES:	

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.): ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
TOTAL ACCESSIBILITY. SITE CLEARD / MOWED LAWN. OVHD POWER to Pole METER AND PANEL BOX 25'-0 FROM UTILITY SOURCE OUTSIDE SITE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
In the middle of level lawn area

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
NONE. (8) HAZMET STEEL DRUMS AND A PLASTIC COVERED 1/2 cubic yard MIXED DEBRIS PILE OF DIRT AND VARIOUS METAL PIECES

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: DT/BP
DATE/TIME: 10/12/15 2:00PM
WELL ID.: MW-155

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572189.5476 NYTM Y 1539111.5277
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE? PAINTED ON PROTECTIVE ENCLOSURE	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

ASW

	YES	NO
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:		X
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)		X

HEADSPACE READING (ppm) AND INSTRUMENT USED	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	36" ALUMINUM ENCASEMENT - 36" HIGH
PROTECTIVE CASING MATERIAL TYPE:	ALUMINUM TUBE
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	4" ALUMINUM VERTICAL TUBING

	YES	NO
LOCK PRESENT?	X	
LOCK FUNCTIONAL? NO PADLOCK AT COVER		X
DID YOU REPLACE THE LOCK?	X	
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X
	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	12.30'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	7.81'
MEASURE WELL DIAMETER (Inches):	ALUMINUM TUBE 4 1/2" ID
WELL CASING MATERIAL:	
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE	PAINT AT NORTH SIDE →
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	185'

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.): ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
TOTAL ACCESS. OVHD MAIN POWER ENTRY AT LEFT SIDE OF ENTRY GATE. 25' INFRONT CURB LINE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
OPEN MOWED LAWN

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
NONE.

REMARKS:
. HINGED ALUMINUM VERTICAL ENCASENT TOWER HAS COVER WHICH BROKEN OFF

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: ~~DT~~ BD
DATE/TIME: 10/12/15 1:30 pm
WELL ID.: MW-15D

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572182.5802 NYTM Y 1539106.5326
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: ASW

	YES	NO
SURFACE SEAL PRESENT?		X
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off. ~~COVER~~ Plug		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED_____
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) (36" HIGH) 36"
PROTECTIVE CASING MATERIAL TYPE: ALUMINUM TUBE
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 4 1/4"

LOCK PRESENT?	X	
LOCK FUNCTIONAL? NO, PAD LOCK INSTALLED		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): ~~75'~~ 43.20'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 27.75'
MEASURE WELL DIAMETER (Inches): 4-1/4" SQUARE
WELL CASING MATERIAL: ALUMINUM TUBING
PHYSICAL CONDITION OF VISIBLE WELL CASING: GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE PAINTED NUMBER
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES 185'

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
• TOTAL ACCESS. MOWED LAWN INSIDE PERIMETER CHAIN LINK FENCE
• NEAR REAR FENCE LINE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
• OPEN FLAT ~~GRASS~~ MOWED LAWN.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.): NONE

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: DS/BD
DATE/TIME: 10/12/15
WELL ID.: Flush Mt MW-16

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572358.1912 NYTM Y 1538982.7924
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) (Trimble) And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: Monitoring Well

ASW

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED.....
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): GROUND LEVEL — PVC (Schedule 40) 2"
PROTECTIVE CASING MATERIAL TYPE: PVC
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 2"

LOCK PRESENT?	X	X
LOCK FUNCTIONAL?		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?		X
	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): TOP OF INTERIOR PVC pipe) 25.75' 55.15
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): ~~NO WATER PRESENT~~ 25.75' 30.00
MEASURE WELL DIAMETER (Inches): 2"
WELL CASING MATERIAL: PVC pipe
PHYSICAL CONDITION OF VISIBLE WELL CASING: GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE: CAST VERBAGE IN COVER
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: 60' OHHD

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.): ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
ENTIRE SITE CLEAR LIKE A LOWN. THERE ARE NO TRAILERS, EQUIPMENT OR Well pipe extension ABOVE GRADE. ONLY ONE UTILITY POLE FOR POWER METER 25' IN FROM OUTSIDE MAIN POLE. (8) HAZARDOUS ~~WASTE~~ WASTE DRUMS AT SOUTH ENTRY GATE

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
IN MIDDLE OF MOWED LAWN OF ABANDONED SITE.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
(ONE) 1/2 CUBIC YARD OF PLASTIC COVERED FILL AT RIGHT OF ENTRY GATE

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: DT/BD
DATE/TIME: 10/12/15 2:15pm
WELL ID.: MW-17

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572255.6845 NYTM Y 1539120.2928
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MV-17

ASW

	YES	NO
SURFACE SEAL PRESENT? ADJUSTABLE PLUG USED		X
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) (NEW)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: INGROUND (6" TOP OF CAST IRON PVC)
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)
PROTECTIVE CASING MATERIAL TYPE: CONCRETE APRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 5 3/4" ID clear

LOCK PRESENT?		X
LOCK FUNCTIONAL? (NOT PRESENT OR WAS TO LOCK)		X
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 14.21'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 5.67'
MEASURE WELL DIAMETER (Inches): 2" PVC
WELL CASING MATERIAL: ~~CAST IRON~~
PHYSICAL CONDITION OF VISIBLE WELL CASING: NEW GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE Felt pen marks at outside lever NONE TO ATTACH
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: 18'

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.): ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
TOTAL ACCESSIBILITY IN MIDDLE OF MOWN FLAT LAWN.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
IN MIDDLE OF FLAT MOWED LAWN.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
NONE

REMARKS:
3/4" ϕ hard plastic tubing left in PVC INTERIOR FOR FUTURE PUMPING OUT

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: BD DT
DATE/TIME: ~~10/13/15~~ 10/14/15
WELL ID.: MW-18

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	
WELL COORDINATES? NYTM X 572264.1515 NYTM Y 1539048.0579		
PDOP Reading from Trimble Pathfinder: ____ Satelites: ____		
GPS Method (circle) Trimble And/Or Magellan		
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-18		

ASW

	YES	NO
SURFACE SEAL PRESENT? NEW	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	GROUND LEVEL
PROTECTIVE CASING MATERIAL TYPE:	CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 5 3/4" clear diameter	

LOCK PRESENT? NONE PROVIDED	X	~~X~~
LOCK FUNCTIONAL? NO PROVISION TO ACCEPT Padlock		X
DID YOU REPLACE THE LOCK?		N/A
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	X

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	14.50
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	6.65
MEASURE WELL DIAMETER (Inches): ~~4 3/4~~	
WELL CASING MATERIAL:	CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE NONE PROVIDED	PAINTED ON TOP OF COVER
PROXIMITY TO ~~UNDERGROUND OR~~ OVERHEAD UTILITIES: 25'-0	

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

TOTAL ACCESSIBILITY. SITE CLEARED / MOWED lawn. OVHD Power lines to onsite METER & POWER PANEL on Pole. 25'-0 FROM OVHD UTILITY SOURCE OUTSIDE SITE NEAR ENTRY GATE.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

IN Middle of level mowed lawn

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

NONE. (5) HALMET STEEL DRUMS AND A plastic COVERED 1/2 cubic yard of MIXED DEBRIS of DIRT AND VARIOUS pieces of METAL NEAR ENTRY GATE

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: BD DT
DATE/TIME: 10/14/15
WELL ID.: MW-19

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572091.0673 NYTM Y 1538541.4205
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-19

ASW

	YES	NO
SURFACE SEAL PRESENT? (NSW)	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

- HEADSPACE READING (ppm) AND INSTRUMENT USED: _____
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): GROUND LEVEL
PROTECTIVE CASING MATERIAL TYPE: _____
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 5 3/4" clear diameter

LOCK PRESENT?	X	
LOCK FUNCTIONAL? NONE AT WELL		X
DID YOU REPLACE THE LOCK?		N/A
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?		X
	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 9.40
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 4.31
MEASURE WELL DIAMETER (Inches): _____
WELL CASING MATERIAL: CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING: GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE .. NONE PROVIDED · PAINTED ON TOP OF COVER
PROXIMITY TO ~~UNDERGROUND OR~~ OVERHEAD UTILITIES: _____

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
TOTAL ACCESSIBILITY. SITE cleared / MOWED lawn. OVHD POWER lines TO ONSITE METER & POWER PANEL BOX Pole. 25'-0" FROM OVHD UTILITY SOURCE OUTSIDE SITE NEAR ENTRY GATE.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
IN MIDDLE OF LEVELED MOWED lawn

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
NONE. (8) HAZMAT STEEL DRUMS AND A plastic COVERED 1/2 cubic yard of MIXED DEBRIS OF DIRT AND VARIOUS pieces of metal near ENTRY GATE.

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: BD DT
DATE/TIME: 10/14/15
WELL ID.: ~~MW~~-20

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X572039.0796 NYTM Y1538730.7784
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) (Trimble) And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-20

ASW

	YES	NO
SURFACE SEAL PRESENT?	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

NEW ↓

HEADSPACE READING (ppm) AND INSTRUMENT USED.....
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): GROUND LEVEL
PROTECTIVE CASING MATERIAL TYPE: CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 5 3/4" clear diameter

LOCK PRESENT?		X
LOCK FUNCTIONAL? NO, PROVISION FOR PADLOCK		N/A
DID YOU REPLACE THE LOCK?		N/A
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?		X
	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 12.90
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 6.05
MEASURE WELL DIAMETER (Inches):
WELL CASING MATERIAL: CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING: GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE. NONE PROVIDED PAINTED ON OUTSIDE COVER
PROXIMITY TO ~~UNDERGROUND OR~~ OVERHEAD UTILITIES.....

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
TOTAL ACCESSIBILITY. SITE cleared/MOWED DOWN. OVHD POWER LINES TO ONSITE METER AND POWER PANEL BOX Pole. 25'-0 FROM Utility SOURCE OUTSIDE SITE NEAR ENTRY GATE!

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
IN middle of leveled MOWED DOWN.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
NONE. (8) HAZMET STEEL drums AND A plastic COVERED 1/2 CUBE YARD OF MIXED DEBRIS OF DIRT AND VARIOUS pieces OF METAL NEAR ENTRY GATE

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: BD DT
DATE/TIME: 10/14/15
WELL ID.: MW-21

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	
WELL COORDINATES? NYTM X 572188.2117 NYTM Y 1538816.2815		
PDOP Reading from Trimble Pathfinder: _____ Satelites: _____		
GPS Method (circle) (Trimble) And/Or Magellan		
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-2		
SURFACE SEAL PRESENT? ~~POOR~~ NEW	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

ASW

HEADSPACE READING (ppm) AND INSTRUMENT USED: GROUND LEVEL

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): 4

PROTECTIVE CASING MATERIAL TYPE: CAST IRON

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 5 3/4" clear diameter

	YES	NO
LOCK PRESENT? NONE PROVIDED		X
LOCK FUNCTIONAL? NO PROVISION		N/A
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 9.10

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 7.20

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL: CAST IRON

PHYSICAL CONDITION OF VISIBLE WELL CASING: GOOD

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE .... NONE PROVIDED

PROXIMITY ~~TO UNDERGROUND OR~~ OVERHEAD UTILITIES: PAINTED ON COVER TOP

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

TOTAL ACCESSIBILITY. SITE CLEAR / MOWED LAWN. OVHD POWER LINES TO ONSITE METER AND POWER PANEL BOX. 25'-0 FROM UTILITY SOURCE OUTSIDE SITE NEAR ENTRY GATE.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

In Middle of level MOWED LAWN.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

NONE. (8) HAZMET STEEL DRUMS AND A PLASTIC COVERED 1/2 CUBIC YARD OF MIXED DEBRIS OF DIRT AND VARIOUS PIECES OF METAL NEAR ENTRY GATE.

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: DT/BD
DATE/TIME: 10/12/15 1:05 PM
WELL ID.: MW-22

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572179.5224 NYTM Y 1539028.6464
PDOP Reading from Trimble Pathfinder: _____ Satelites: _____
GPS Method (circle) (Trimble) And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-22

ASW

	YES	NO
SURFACE SEAL PRESENT? (NEW)	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.		X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below) (NEW)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED: _____

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	CAST IRON (TOP -6")
PROTECTIVE CASING MATERIAL TYPE:	CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	(5 3/4" clear)

	YES	NO
LOCK PRESENT? NO, WAY TO PLACE padlock	X	
LOCK FUNCTIONAL?	X	
DID YOU REPLACE THE LOCK?		N/A
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)		X
WELL MEASURING POINT VISIBLE?		X
	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	9.22'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	5.30'
MEASURE WELL DIAMETER (Inches):	2"
WELL CASING MATERIAL:	CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE .... WRITTEN ON OUTSIDE OF COVER	MAGIC MARKER
PROXIMITY TO ~~UNDERGROUND~~ OR OVERHEAD UTILITIES:	145'

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
TOTAL ACCESS. MOWED LAWN. INCOMING OVHD POWER LINES ARE 25' IN FRONT MAIN POWER POLE NEAR SOUTH ENTRY GATE POST ON LEFT.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
MOWED LAWN/ INSIDE ENTRY GATE. NO REMEDIATION REQUIRED

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
NONE. (8) HAZMAT STEEL drums AND 1/2 CUBICYARD OF PLASTIC COVERED DIRT JUST INSIDE ENTRY GATE

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: DS / BD
DATE/TIME: 10/12/15
WELL ID.: MW-~~2~~ 23

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	

WELL COORDINATES? NYTM X 572242.2147 NYTM Y 1538905.5575
PDOP Reading from Trimble Pathfinder:_____ Satelites:_____
GPS Method (circle) Trimble And/Or Magellan

	YES	NO
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back) MW-23	X	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: ASW

	YES	NO
SURFACE SEAL PRESENT? (NEW)	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off. (NEW)	~~X~~	X
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

~~HEADSPACE READING (ppm)~~ AND INSTRUMENT USED	
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	AT GROUND LEVEL (-4")
PROTECTIVE CASING MATERIAL TYPE:	CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):	2"
LOCK PRESENT?	X
LOCK FUNCTIONAL?	N/A
DID YOU REPLACE THE LOCK?	N/A
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)	X
WELL MEASURING POINT VISIBLE?	X
MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	14.25'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	7.48
MEASURE WELL DIAMETER (Inches): 5 3/4 ID	5.3/4'
WELL CASING MATERIAL:	CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING: (NEW)	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE (ON COVER)	MARKED AT OUTSIDE
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	135'

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK. IF NECESSARY.
FULL ACCESS TO LAWN LIKE GROUNDS. POWER / MOTOR POLE 25' UNTO SITE AT SOUTH ENTRY GATE POST

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
LAWN LIKE / FIELD NO REMEDIATION REQUIRED

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
NONE

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
INSPECTOR: BD DT
DATE/TIME: 10/14/15
WELL ID.: MW-24

MONITORING WELL FIELD INSPECTION LOG

	YES	NO
WELL VISIBLE? (If not, provide directions below)	X	
WELL COORDINATES? NYTM X 572109.8066 NYTM Y 1538947.0719		
PDOP Reading from Trimble Pathfinder: _____ Satelites: _____		
GPS Method (circle) Trimble And/Or Magellan		
WELL I.D. VISIBLE?	X	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	X	
WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-24		
SURFACE SEAL PRESENT? NEW	X	
SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.	X	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	X	

HEADSPACE READING (ppm) AND INSTRUMENT USED.....

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)	GROUND LEVEL
PROTECTIVE CASING MATERIAL TYPE:	CAST IRON
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 5 3/4" clear diameter	

LOCK PRESENT?		X
LOCK FUNCTIONAL? ND, PROVISION TO PADLOCK		N/A
DID YOU REPLACE THE LOCK?		X
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		X
WELL MEASURING POINT VISIBLE?	X	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):	11.20
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):	7.58
MEASURE WELL DIAMETER (Inches): (5 3/4" clear diameter)	
WELL CASING MATERIAL:	CAST IRON
PHYSICAL CONDITION OF VISIBLE WELL CASING:	GOOD
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE NONE PROVIDED	PAINTED ON TOP OF COVER
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES	

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

TOTAL ACCESSIBILITY. SITE cleared / MOWED LAWN. OVHD POWER LINES TO ONSITE METER AND POWERPANEL BOX. 25'D FROM UTILITY SOURCE OUTSIDE SITE NEAR ENTRY GATE.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

IN Middle of level MOWED LAWN.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

NONE. (8) HAZMET STEEL DRUMS AND A plastic COVERED 1/2 CUBIC YARD OF MIXED DEBRIS OF DIRT AND VARIOUS METAL PIECES

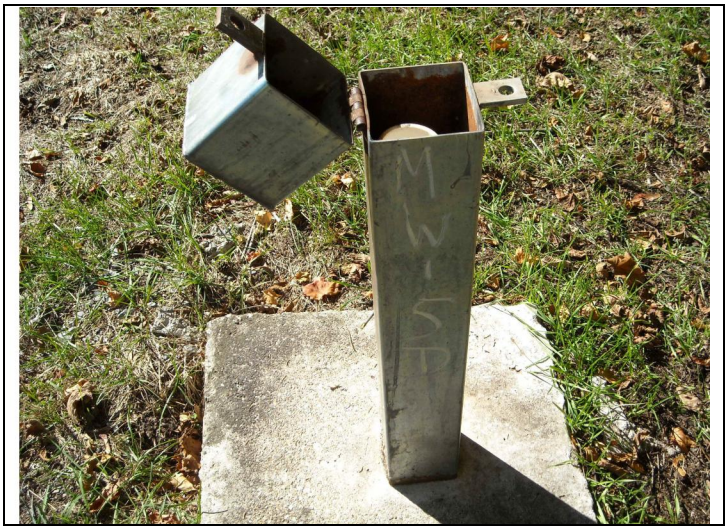
REMARKS:

Sketch

1. MW-16D *(formerly 'Flushmount')*

2. K-2

3. K-3



4. MW-15D

5. MW-15S

6. MW-8D

KORKAY SITE	IEG	SITE PHOTOGRAPHS MONITORING WELLS October 12-14, 2015
70 WEST MAIN ST., BROADALBIN, NY		

7. MW-8S

8. MW-17

9. MW-22

10. MW-23

11. VEW-1

12. VEW-2

KORKAY SITE	IEG	SITE PHOTOGRAPHS MONITORING WELLS October 12-14, 2015
70 WEST MAIN ST., BROADALBIN, NY		

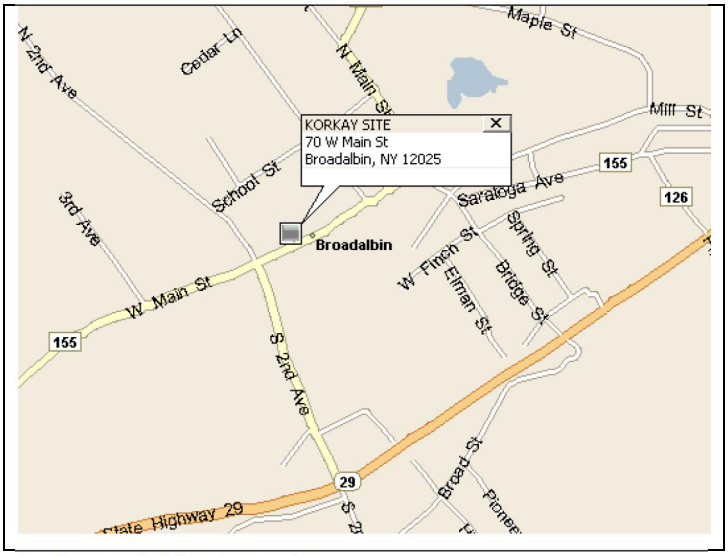
13. VEW-3

14. VEW-4

15. WELL SAMPLING

16. View of Site

17. AERIAL VIEW OF SITE/WELL LOCATIONS



18. SITE LOCATION MAP

KORKAY SITE		SITE PHOTOGRAPHS MONITORING WELLS October 12-14, 2015
70 WEST MAIN ST., BROADALBIN, NY		

Appendix F

PRR Photolog

AECOM SITE PHOTOLOG

June 2015 to June 2016

1) MW-17 completed installation – 9/14/15.

2) MW-19 completed installation – 9/15/15.

3) MW-20 completed installation – 9/15/15.

4) MW-21 completed installation – 9/15/15.

5) MW-22 completed installation – 9/16/15.

6) MW-23 completed installation – 9/15/15.

7) View to north at Site during October 2015 five-quarter groundwater sampling event. Chain link perimeter fence is still in place.

8) View on site to northeast during ISCO injection work – October 20, 2015.

9) View to north of site following May 2016 post-ISCO quarterly groundwater monitoring event. Note the eastern and southern sides of the chain link perimeter fence were removed in November 2015.