

PROGRESS REPORT

July 1, 2014 – December 31, 2014

(45th REPORT)



Camp Stanley Storage Activity

Boerne, Texas

USEPA ID No. TX2210020739

January 2015

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ACRONYMS AND ABBREVIATIONS

µg/l	micrograms per liter
1,1-DCE	1,1-dichloroethene
AOC	Area of Concern
APAR	affected property assessment report
APPL	Agriculture & Priority Pollutants Laboratories, Inc.
As	arsenic
Ba	barium
bgs	Below ground surface
BTOC	Below top of casing
CAH	chlorinated aliphatic hydrocarbons
Cd	cadmium
<i>cis</i> -1,2-DCE	<i>cis</i> -1,2-dichloroethene
COC	contaminant of concern
Cr	chromium
CSSA	Camp Stanley Storage Activity
Cu	copper
CY	cubic yard
DO	Dissolved oxygen
DQO	data quality objective
GAC	granular activated carbon
Hg	mercury
IRA	Interim removal action
I/SM	interim/stabilization measures
ISCO	in-situ chemical oxidation
LGR	Lower Glen Rose
LTMO	long-term monitoring optimization
MCL	maximum contaminant level
Mn	manganese
MPMW	multi-port monitoring well
NFA	No Further Action
NH	nonhazardous
Ni	nickel
O&M	operations and maintenance
Order	§3008(h) Administrative Order on Consent
Pb	lead
PBR	permit-by-rule
PCE	tetrachloroethene
PCL	protective concentration level
QAPP	Quality Assurance Program Plan
RAL	Residential Action Level
RCRA	Resource Conservation and Recovery Act
RFI	RCRA facility investigation
RIR	Release Investigation Report
RL	reporting limit
RMU	Range Management Unit
SCADA	supervisory control and data acquisition

SIW	steam injection well
SVE	soil vapor extraction
SVOC	semi-volatile organic compound
SWMU	Solid Waste Management Unit
TAC	Texas Administrative Code
TCE	trichloroethene
TCEQ	Texas Commission on Environmental Quality
<i>trans</i> -1,2-DCE	<i>trans</i> -1,2-dichloroethene
TSW	Treatability study well
UGR	Upper Glen Rose
UIC	underground injection control
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VC	vinyl chloride
VEW	vapor extraction well
VOC	volatile organic compound
WP	work plan
WWTP	wastewater treatment plant
XRF	x-ray fluorescence
Zn	zinc

PROGRESS REPORT JULY 1, 2014 – DECEMBER 31, 2014 (45TH PERIOD)

INTRODUCTION

This 45th Progress Report for Camp Stanley Storage Activity (CSSA), Boerne, Texas, U.S. Environmental Protection Agency (USEPA) Identification Number TX2210020739, is submitted in accordance with the Administrative Order on Consent (Order) issued to CSSA on May 5, 1999, pursuant to §3008(h) of the Safe Drinking Water Act, as amended by the Resource Conservation and Recovery Act (RCRA), and further amended by the Hazardous and Solid Waste Act of 1984, 42 United States Code §6928(h). This report addresses the project progress from July 1, 2014 through December 31, 2014. In June 2006, CSSA switched from quarterly to semi-annual progress reporting, as approved by USEPA. Subsequent progress reports will continue to be submitted on a semi-annual basis, until the Order is closed.

Summary of Activities this Period

Between July 1 and December 31, 2014, significant activities related to the Order included:

- Continuation of Solid Waste Management Unit (SWMU) B-3 bioreactor treatability studies;
- Continuation of AOC-65 in-situ chemical oxidation (ISCO) treatability study;
- Continuation of the groundwater monitoring program under the regulator-approved data quality objectives (DQO);
- Regulatory approval of the RCRA Facility Investigation (RFI) Work Plan;
- Submittal and Regulatory Approval of the RFI Report;
- Submittal of the Corrective Measures Study (CMS) Report;
- Continued maintenance of off-post granular activated carbon (GAC) systems; and
- Continuation of administrative record maintenance.

Details regarding these activities are summarized in this report.

Report Organization

This report details work completed on tasks associated with the four project phases outlined in the Order. Phase names and task names listed in **Table 1** are taken directly from the Order. Information for tasks active from July 1 through December 31, 2014 is provided in this report. No current information is provided for tasks that are not active; however, a summary of all tasks, subtasks, and their status has been presented in previous reports. Details of the evaluation of the percent complete by awarded projects are included in **Table 2**. An updated project team contact information chart with telephone numbers and addresses is included in **Table 3**. **Attachment 1** shows the locations of groundwater wells referenced in this report. A summary of the status of all identified SWMUs, AOCs, and RMUs at CSSA is provided in **Attachment 2**. **Attachment 3** is a summary of the physical percent complete of each order related task being conducted at CSSA. **Attachment 4** is a summary of groundwater results for sampling events conducted this period.

Table 1 §3008(h) Administrative Order on Consent Project Phases

3008(h) Order Phase and Subtasks	Phase Purpose	Phase's % of Overall Order	Subtask's % of Phase	Physical % Complete of Subtask	Subtask portion of Phase % Complete	Physical % Complete of Phase	Active During P45
Interim Measures		30%				100%	
Interim Measures Work Plan	Mitigate a current or potential threat to human health and/or the environment.		7%	100%	7%		No
Interim Measures Implementation			70%	100%	70%		No
Reports			23%	100%	23%		No
RCRA Facility Investigation		30%				99%	
Preliminary Report	Characterize the environmental setting of CSSA; define the sources of contamination; define the degree and extent of contamination; identify actual or potential receptors; and assess whether any additional interim/stabilization measures may be warranted.		5%	100%	5%		No
RFI Work Plan			5%	100%	5%		No
Facility Investigation			40%	100%	40%		Yes
Risk Assessment			10%	100%	10%		No
Investigation Analysis			10%	100%	10%		No
Groundwater Investigation			15%	99%	15%		Yes
Treatability Studies			10%	95%	10%		Yes
Progress Reports			5%	99%	5%		Yes
Corrective Measures Study		10%				99%	
Identify and Develop Alternatives	Identification, screening, and development of alternatives for removal, containment, treatment, and/or other remediation of the contamination.		15%	100%	15%		Yes
Evaluate Alternatives			60%	100%	60%		Yes
Reports			25%	95%	24%		Yes
Corrective Measures Implementation		30%				52%	
Implementation Program Plan	Design, construct, operate, maintain, and monitor the performance of corrective measure(s) selected to protect human health and the environment.		5%	46%	2%		Yes
Corrective Measure Design			15%	45%	7%		Yes
Corrective Measure Construction			70%	50%	35%		Yes
Reports			10%	75%	8%		Yes
% of All Phases Complete						85%	

RCRA FACILITY INVESTIGATION

The RCRA Facility Investigation (RFI) was conducted to characterize the environmental setting of CSSA, define the sources of contamination, define the degree and extent of contamination, identify actual or potential receptors, and assess whether any additional interim/stabilization measures (I/SM) may be warranted. The discussions below include only the tasks related to Facility Investigations and Treatability Studies. Discussion of other RFI subtasks will be included in future reports if changes or additions to previously reported activities occur. The majority of current ongoing environmental activities at CSSA are part of the RFI task. Work on each of these tasks is described in the following paragraphs. The main areas of work during this period included:

- RFI report;
- Groundwater monitoring of on- and off-post wells;
- Groundwater monitoring of Westbay[®]-equipped wells;
- Verification and validation of analytical data;
- SVE system O&M and treatability studies at AOC-65; and
- Continuation of bioreactor operation and other treatability studies at SWMU B-3;

RFI Work Plan

The Order requires the RFI Work Plan task to include a Project Management Plan, Data Collection Quality Assurance Plan, Health and Safety Plan, and a Community Relations Plan. As previously agreed by USEPA, because the CSSA Environmental Encyclopedia includes all information required by the Order, it is used to fulfill this requirement. This task makes up approximately 5 percent of the RFI phase. The RFI Work Plan was submitted to USEPA and TCEQ on April 11, 2014; and was approved by USEPA on July 25, 2014 and by TCEQ on August 11, 2014.

Environmental Encyclopedia Updates

The CSSA website (www.stanley.army.mil) was updated with documents added to the Environmental Encyclopedia through the end of December 2014. The website serves as CSSA's Administrative Record as required under the Order. The Environmental Encyclopedia was updated with all final reports through December 2014. Updates made in Period 45 included the following:

July 2014

- Baseline Risk Assessment
- Period 44 Semi-Annual Progress Report

August 2014

- RFI Report
- June 2014 Off-Post Groundwater Monitoring Report
- June 2014 On-Post Groundwater Monitoring

October 2014

- Corrective Measures Study (CMS) Report

November 2014

- September 2014 Off-Post Groundwater Monitoring Report
- September 2014 On-Post Groundwater Monitoring Report

Throughout Period 45:

- Various correspondence to and from CSSA;
- Various meeting minutes; and
- Various tables of contents, site chronologies, and indices.

Facility Investigations

An investigation of the facility is being conducted to:

- Characterize the environmental setting of the facility;
- Define the source(s) of contamination;
- Define the nature and extent of contamination; and
- Identify actual or potential receptors.

A total of 84 SWMUs, AOCs, and RMUs have been identified at CSSA, and investigations have been conducted at most of those sites. A summary of the status of each site, including whether the site is recommended for closure or if closure is approved, is provided in Attachment 2. To date, closure of 77 CSSA sites has been approved by TCEQ, and four sites (SWMUs B-2, B-8, B-20/21, and B-24) will be combined into RMU-1. The three open sites include SWMU B-3, AOC-65, and RMU-1, as summarized below.

The remaining sites are listed in the table below, and additional information regarding recent actions are provided in the following paragraphs.

Remaining Sites at CSSA

Site Name	Status
<ul style="list-style-type: none"> ○ SWMU B-3 ○ AOC-65 	Ongoing remediation or treatability study for groundwater.
<ul style="list-style-type: none"> ○ SWMU B-2 ○ SWMU B-8 ○ SWMU B-20/21 ○ SWMU B-24 <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> } RMU-1 </div>	Sites located in current active range fan. Closure to be deferred to when range (RMU-1) closes, per USEPA Memo re: CSSA North Pasture Fencing (February 29, 2012).

Site Closure Investigations

No site closure investigations were performed during Period 45.

Human/Ecological Risk Assessment Efforts

The Baseline Risk Assessment Report for CSSA was approved by USEPA on April 21, 2014.

Corrective Measures Study

Investigation results were used to develop and evaluate alternatives during the CMS. The CMS consists of the identification, screening, and development of alternatives for removal, containment, treatment, and/or other remediation of the contamination identified at CSSA. The CMS is based on results of the RFI, identified corrective measure technologies, and results of any treatability studies. The study will include: identification and development of alternatives (15 percent of CMS), evaluation of alternatives (60 percent), and reports (25 percent). The Draft CMS was submitted to USEPA in October 2014. The percent complete values shown in Table 1 are based on the corrective measures that have been evaluated and implemented thus far at SWMU B-3 and AOC-65.

Groundwater Investigation

On- and off-post groundwater monitoring was conducted in accordance with regulator-approved DQOs during Period 45. Sampling frequencies for on-post and off-post wells are currently determined by the long-term monitoring optimization (LTMO) study updated in November 2010, as approved by TCEQ and USEPA. Updates to the LTMO and DQOs are planned in 2015. A map of the well locations is provided in Attachment 1 of this report.

The analyte list for each monitoring event was in accordance with the applicable work plans and DQOs. On- and off-post monitoring wells and Westbay-equipped wells were sampled for the SW-846 Method 8260B VOCs 1,1-dichloroethene (1,1-DCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), *trans*-1,2-dichloroethene (*trans*-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride (VC). On-post monitoring wells were sampled for the SW-846 Method 6010/6020 metals Pb, Cd, Hg, and Cr. On-post drinking water wells were also sampled for four additional metals: Ba, As, Cu, and Zn. Additional samples were collected off-post and from wells with GAC filtration systems. Samples were analyzed by Agriculture & Priority Pollutants Lab Inc. (APPL) in Clovis, California. Chemists validated and verified the data in accordance with the CSSA Quality Assurance Program Plan (QAPP). All detected concentrations of VOCs and metals are presented in Attachment 4.

June 2014 Sampling

Forty-three on-post wells were scheduled for sampling in June 2014 event. Off-post wells scheduled for sampling in June 2014 included 55 private and public drinking water wells. Eight Westbay well zones, from four multi-port wells (WB01-WB04), were also scheduled for sampling in June 2014; these wells will also be profiled to collect water level data in the area. Sampling was conducted June 2-20, 2014.

Analytical results from the June 2014 sampling event are included in Attachment 4. The average groundwater elevation in June 2014 increased 22.53 feet from that measured in March 2014. In San Antonio, water restrictions remained at Stage 2; as of May 1, 2012. The Trinity Glen Rose Groundwater Conservation District remained under stage 2 severe drought water restrictions, which went into effect June 1, 2011. The average depth to water in the Lower Glen Rose (LGR) screened wells was 277.54 feet below top of casing (BTOC) or 970.21 feet above mean sea level (msl).

The maximum contaminant levels (MCL) were exceeded in on-post monitoring wells CS-MW1-LGR, CS-MW16-LGR, CS-MW16-CC, and CS-MW36-LGR for PCE, TCE, and/or *cis*-1,2-DCE during the June 2014 event. No on-post wells scheduled for sampling exceeded the

MCL/AL/SS for metals in June 2014. Five of the 8 Westbay well (01-04) zones sampled in June 2014 exceeded the MCLs for PCE and TCE.

Analyses indicated that one off-post well, RFR-10, exceeded the MCL for PCE. Four other wells (LS-5, LS-6, LS-7, and RFR-11) had PCE or TCE detections above the reporting limit, but below the MCL. All of these wells are equipped with GAC filtration systems.

September 2014 Sampling

Fourteen on-post wells and 7 private and public off-post wells with 6 post-GAC samples were scheduled for sampling in September 2014 in accordance with the LTMO schedule. Five additional wells were added (CS-MW1-CC, CS-MW2-CC, CS-MW4-LGR, CS-MW17-LGR, and CS-MW21-LGR) to gather data for an upcoming TCEQ requirement for future drinking water well CS-13. All samples were analyzed for VOCs. In addition, the on-post samples were analyzed for selected metals. Analytical results from the September 2014 sampling event are included in Attachment 4.

Sampling was conducted September 2-17, 2014. Average groundwater elevations in September 2014 decreased 26.88 feet from the elevations measured in June 2014. The average depth to water in the LGR screened wells was approximately 299.78 feet below ground surface.

Thirteen of the 19 on-post wells scheduled and/or added to the sampling event in September 2014 were sampled. Six wells were not sampled due to water levels falling below the dedicated bladder pumps. All wells were analyzed for selected VOCs (CSSA short list) and metals (Cr, Cd, Hg, and Pb). Additional metals (As, Ba, Cu, and Zn) were collected from the drinking water wells. Seven off-post wells and 6 post-GAC samples were also collected in September 2014. All off-post samples scheduled for sampling in September 2014 were collected. No Westbay Well zones were scheduled for sampling in September; however these wells were profiled to collect water level data in the area.

The MCLs for PCE and TCE were exceeded in monitoring wells CS-MW1-LGR and CS-MW36-LGR in September 2014. No on-post wells scheduled for sampling in September 2014 reported metals above the MCL/AL/SS.

One off-post well (RFR-10) reported a detection of PCE above the MCL during the September 2014 event. This well is equipped with GAC filtration system. Four off-post wells (LS-5, LS-6, LS-7, and RFR-11) reported VOC concentrations below the MCL but above the RL.

GAC-filtered samples were also collected in September 2014. No VOCs were detected in any of these samples, indicating the GAC systems are functioning properly. GAC-filtered samples will be collected again during the March 2015 event.

December 2014 Sampling

Five on-post wells were scheduled for sampling during the December 2014 event. Off-post wells scheduled for sampling in December 2014 included 6 private and public drinking water wells. Thirty-seven Westbay well zones, from four multi-port wells (WB01-WB04), were also scheduled for sampling in December 2014; these wells were also profiled to collect water level data in the area. Sampling was conducted December 4-10, 2014. Laboratory results will be received in January 2015 and summarized in the next progress report.

Off-Post GAC Systems

Based on sampling results received in 2001, 2002, and 2011 indicating VOC levels above or approaching the MCL, GAC filtration systems were installed at six off-post wells. In accordance with the *CSSA Off-Post Monitoring Program Response Plan* dated June 2002 and the Groundwater Monitoring DQOs, the off-post GAC filtration systems are maintained by CSSA and sampled every six months. One of these wells (OFR-3) has been offline due to the electricity being shut off at the property. No samples can be collected and GAC maintenance has been discontinued until the well is put back online. The property is currently vacant and several attempts to contact the property owner have been made but no response has been received. A for sale sign was posted at the property in November 2014.

Monthly O&M activities for the off-post residential GAC filtration systems were performed this period. Work included inspection and replacement, as needed, of the pre- and post-GAC filters at wells LS-5, LS-6, LS-7, RFR-10, and RFR-11. Post-GAC confirmation samples from all of the off-post GAC systems were collected during the September 2014 event. All VOC results for the post-GAC water samples were non-detect. Semi-annual GAC maintenance was performed August 5, 2014. This involved replacing the first carbon canister in each GAC unit and other routine maintenance. This carbon exchange is performed semi-annually and will be due again in February 2015.

Data Validation and Verification

Laboratory results from sampling efforts and investigations are validated and verified by chemists to ensure results are in compliance with CSSA QAPP requirements. Data validation and verification continued during Period 45.

Treatability Studies

SWMU B-3 Bioreactor

Approximately 99,400,000 gallons of groundwater extracted from CS-MW16-LGR, CS-MW16-CC, CS-B3-EXW01, CS-B3-EXW02, CS-B3-EXW03, CS-B3-EXW04 and CS-B3-EXW05 have been injected into the bioreactor trenches since the start of injection in 2007. An annual underground injection control (UIC) report was submitted to the TCEQ early in Period 45 (July 2014) in accordance with CSSA's Class V Aquifer Remediation Injection Well Permit, TCEQ Authorization No. 5X2600431; WWC12002216. UIC reports are submitted on an annual basis with the next report scheduled for submission early in Period 46. SWMU B-3 Bioreactor Performance Status Reports will be submitted to CSSA, TCEQ, and USEPA during the next period. The reporting frequency is on an annual basis and the next performance status report is scheduled for submission early in Period 47.

Groundwater samples were collected from sumps, monitoring wells, Westbay-equipped wells, and the injection discharge. Sampling frequency was based on permit requirements and water availability. In general, injected groundwater samples are collected quarterly and monitoring samples from Westbay-equipped monitoring wells, injection trench sumps, and additional performance samples are collected semi-annually. All samples were analyzed for permit parameters – VOCs, total dissolved solids, and other selected performance parameters. Analyses were performed by APPL, DHL Laboratory, Microbial Insights, and Microseeps Laboratory. Collected field data included injection volumes, injection pressures, and the pH of recovered groundwater for TCEQ permit compliance. Results are reported on an annual basis

with the next report due for submission in Period 47. Analytical data collected for performance parameters include:

- Dissolved Organic Carbon;
- Methane, Ethane, and Ethene;
- Hydrogen;
- Temperature, pH, and specific conductivity;
- Oxidation Reduction Potential;
- Dissolved Oxygen;
- Total Organic Carbon;
- Carbon Dioxide;
- Hydrogen;
- Sulfide;
- Additional ions including Sulfate, Chloride, Ferrous Iron, and Manganese; and
- *Dehalococcoides* populations.

During Period 45, the bioreactor remained at saturated conditions due to the continued supply of water from wells CS-MW16-CC, CS-MW16-LGR, B3-EXW01, B3-EXW02, B3-EXW03, B3-EXW04 and B3-EXW05 as well as several heavy rainfall events during the period. Approximately 4,800,000 gallons of water were injected into bioreactor trenches 1 and 6 during Period 45.

Monitoring results continue to indicate that effective treatment of injected groundwater in the bioreactor is occurring; however, VOC components continue to remain in strata adjacent to and beneath the trenches. Breakdown products of highly chlorinated species, such as PCE and TCE, and minor amounts of fuel components, like toluene, are identified in groundwater samples from locations surrounding the bioreactor.

In-Situ Chemical Oxidation

ISCO treatability study activities at AOC-65 during Period 45 include quarterly regulatory and performance monitoring sampling following the Period 42 injections (May 2013), as well as an additional injection of 66 tons of alkaline activated sodium persulfate. Groundwater monitoring of off-post wells with GACs during this period included analyses for metals, VOCs, and anions (chloride, sulfate, and bicarbonate). Additional sampling was completed for on-post VEWs, treatability study wells (TSWs), and Westbay wells within AOC-65. Groundwater monitoring associated with the ISCO injections continued with quarterly groundwater monitoring in August and November 2014, and additional performance monitoring occurred during the two-month-long ISCO injection (September – November 2014). An ISCO Assessment Report is also being prepared.

Meetings

A meeting with USEPA was held on September 22, 2014 to discuss the remaining documents in the Order including the: Corrective Measures Implementation Program Plan (CMIPP), Corrective Measures Design (CMD) Report, Construction Quality Assurance Program Plan (CQAPP), and the Corrective Measures Implementation (CMI) Report. CSSA and Parsons presented USEPA with a list of existing documents that correspond with the required components of each of these documents. USEPA agreed that these existing documents, with some modifications and sufficient citation, could be used to fulfill the remaining documentation requirements of the Order. The timeline for closure of the Administrative Order was discussed

and revised with input from USEPA. USEPA concurred with CSSA submitting the CMIPP, CMD Report, CQAPP, and CMI Report concurrently. Also discussed was what mechanism will be put in place to ensure funding for the selected corrective measures once the Order is closed.

A regulatory meeting with USEPA and TCEQ was held on September 23, 2014 to present an overview of the CSSA environmental program to the new TCEQ regulator. The presentation included historical information, past site remediation activities, site closures under TCEQ residential standards, and current groundwater monitoring, treatability studies (SWMU B-3 bioreactor and AOC-65 ISCO), and sustainable practices at CSSA. Also discussed was the current status of the Order, the next steps toward closing the Order, and USEPA's comments on the Draft Corrective Measures Study. Site visits were made to the SWMU B-3 bioreactor, East Pasture, Building 93, Building 90, AOC-65, and several other former remediation sites. Parsons also presented the USGS 3-D groundwater model of CSSA.

A meeting with CSSA Environmental Management and USEPA was held on November 18, 2014 to discuss the current status and future of the Order. USEPA indicated that the order may be modified to address long-term Corrective Measures O&M.

Summary of Contacts

Letters summarizing the results of the June 2014 and September 2014 off-post groundwater monitoring events were mailed to owners of the off-post wells in Period 45. Groundwater sampling notification letters were sent to the USEPA and TCEQ one month prior to the start of the June 2014 and September 2014 sampling events. Other Order-related correspondence during Period 45 included:

- Submittal of Period 44 Semi-Annual EPA Progress Report (July 10, 2014)
- Submittal of RFI Report (August 14, 2014)
- Submittal of CMS Report (October 2, 2014)

PROJECTED WORK FOR THE NEXT PERIOD

SWMU, AOC, and RMU Investigations

No investigations are planned at any SWMUs, AOCs, or RMUs during Period 46. Open sites include SWMU B-3 and AOC-65, where groundwater treatability studies and monitoring continue, and RMU-1, the active firing range.

Groundwater Monitoring

Continued sampling of on- and off-post monitoring and water supply wells will continue in March and June 2015. Quarterly and annual groundwater monitoring reports will be submitted next period. O&M at the residential GAC filtration systems (LS-5, LS-6, LS-7, RFR-10, and RFR-11) will be conducted every three weeks during Period 45. The semi-annual carbon exchange will be performed in February 2015.

SWMU B-3 Bioreactor

Monitoring of the bioreactor at SWMU B-3 will continue during Period 46. Monitoring requirements will be performed to meet TCEQ's UIC authorization requirements. Performance monitoring data will be collected in accordance with the Bioreactor O&M Manual.

AOC-65 ISCO Treatability Study

CSSA will continue quarterly monitoring of the designated ISCO wells as identified in the AOC-65 Operation and Monitoring Plan as part of the performance determination of the ISCO treatability study. Scheduled quarterly groundwater monitoring will continue during Period 46 (February and May 2015) for permit-required and performance-based parameters. The ISCO Assessment Report will also be submitted next period.

Meetings

Quarterly groundwater meetings will be held prior to quarterly events scheduled in March and June 2015.

**Table 2, Environmental Project Task Completion to Date
 (Values updated through November 30, 2014)**

Project Number	Description of Task	Relation to Order	Percent Complete	Start/End Dates
Order 37	UST Investigations	NA	100%	1991-1995
Order 52	Investigation of F-14	I/SM/RFI	100%	1992-1993
Order 67	Groundwater sampling, Water Well Inventory, Hydrogeologic Report	I/SM/RFI	100%	1992-1996
Order 71	Environmental Assessment	I/M	100%	1992-1993
Order 126	B-20, F-14 Investigations, Background Soils Study	RFI	100%	1994-1996
RL17	Geophysical surveys, Well Installations Soil Sampling and Groundwater sampling	I/SM/RFI	100%	1995-2003
RL33	Site investigations, B-20 treatability studies and unexploded ordnance investigation	RFI	100%	1996-2002
Order 23	Groundwater Sampling	RFI	100%	1996-1998
RL53	SWMU and AOC Investigations	RFI	100%	1997-2003
RL83	Geophysical Surveys	RFI	100%	1999-2003
RL74	Current Conditions Report, Community Relations, Groundwater Monitoring	RFI	100%	1999-2001
DO5068	Soil Gas Surveys	RFI	100%	1999-2002
DO23	Groundwater Monitoring	RFI	100%	1998-2001
DO5084	Building 90 Investigation, Groundwater Monitoring	RFI	100%	2000-2003
TO0058	Treatability Study for AOC-65	RFI	100%	2001-2005
TO0042	Well Installations and Groundwater Monitoring	I/SM/RFI	100%	2001-2006
TO0017	East Pasture Removal Action	Other	100%	2005-2006
TO0019	SWMU Closures	RFI	100%	2003-2006
TO0005	Environmental Program Technical Support	I/SM/RFI	100%	2003-2007
TO0098	Miscellaneous Studies	Other	100%	2004-2007
TO0008	Groundwater Monitoring	I/SM/RFI	100%	2003-2008
TO0006	SWMU B-3 and AOC-65 Remediation	I/SM/RFI	100%	2004-2008
TO0207	Environmental Support, Groundwater Monitoring	I/SM/RFI	100%	2006-2008
DY01 (Weston)	Affected Property Assessment Investigations	RFI	100%	2006-2007
DY01 (Parsons)	Environmental Compliance, SWMU, and AOC Closure Investigations	RFI	100%	2006-2010
DY02 (Parsons)	Environmental Compliance, SWMU and AOC closure Investigations	I/SM/RFI	100%	2007-2009
DO11 (Parsons)	Environmental and Groundwater Investigations	RFI	100%	2008-2010

**Table 2 Continued, Environmental Project Task Completion to Date
 (Values updated through November 30, 2014)**

Project Number	Description of Task	Relation to Order	Percent Complete
DY02 (Weston)	Removal Action at AOC-64, B-71	RFI	100%
H&A (Parsons)	Administrative Support and Environmental Services	Other/RFI	100%
DO50 (Parsons)	Environmental and Groundwater Investigations	RFI	100%
Army Contract (Parsons)	Environmental and Groundwater Investigations	RFI	100%
DO07(Parsons)	Environmental Program Support	RFI	100%
Army Contract TO1 (Parsons)	Program Management	RFI	100%
Army Contract TO2 (Parsons)	O&M, Compliance, & Monitoring	RFI	100%
Army Contract TO3 (Parsons)	Site Investigations and Closures		
	AOC-51	RFI	100%
	AOC-74	RFI	100%
	RMU-5	RFI	100%
	SWMU B-27	RFI	100%
	AOC-72	RFI	100%
	SWMU B-4	RFI	100%
	SWMU B-13, AOC-75, RMU-4, RMU-3, SWMU B-34	RFI	100%
	Bldg 705	RFI	100%
Army Contract TO4 (Parsons)	Environmental Studies		
	AOC-65	RFI	100%
	AOC-51	RFI	100%
	AOC-65 Water Line Investigation	RFI	100%
Army Contract TO5 (Parsons)	SWMU B-3 EXW-05 Installation	RFI	100%
Army Contract TO6 (Parsons)	Building 95 Controls	RFI/Other	100%
Army Contract TO7 (Parsons)	Environmental Program Support		
	Project Management	RFI	100%
	Treatability Study	RFI/CMS	95%
	Compliance and Sampling	RFI	100%
	Groundwater Monitoring	RFI	100%

**Table 2 Continued, Project Task Completion to Date
 (Values updated through November 30, 2014)**

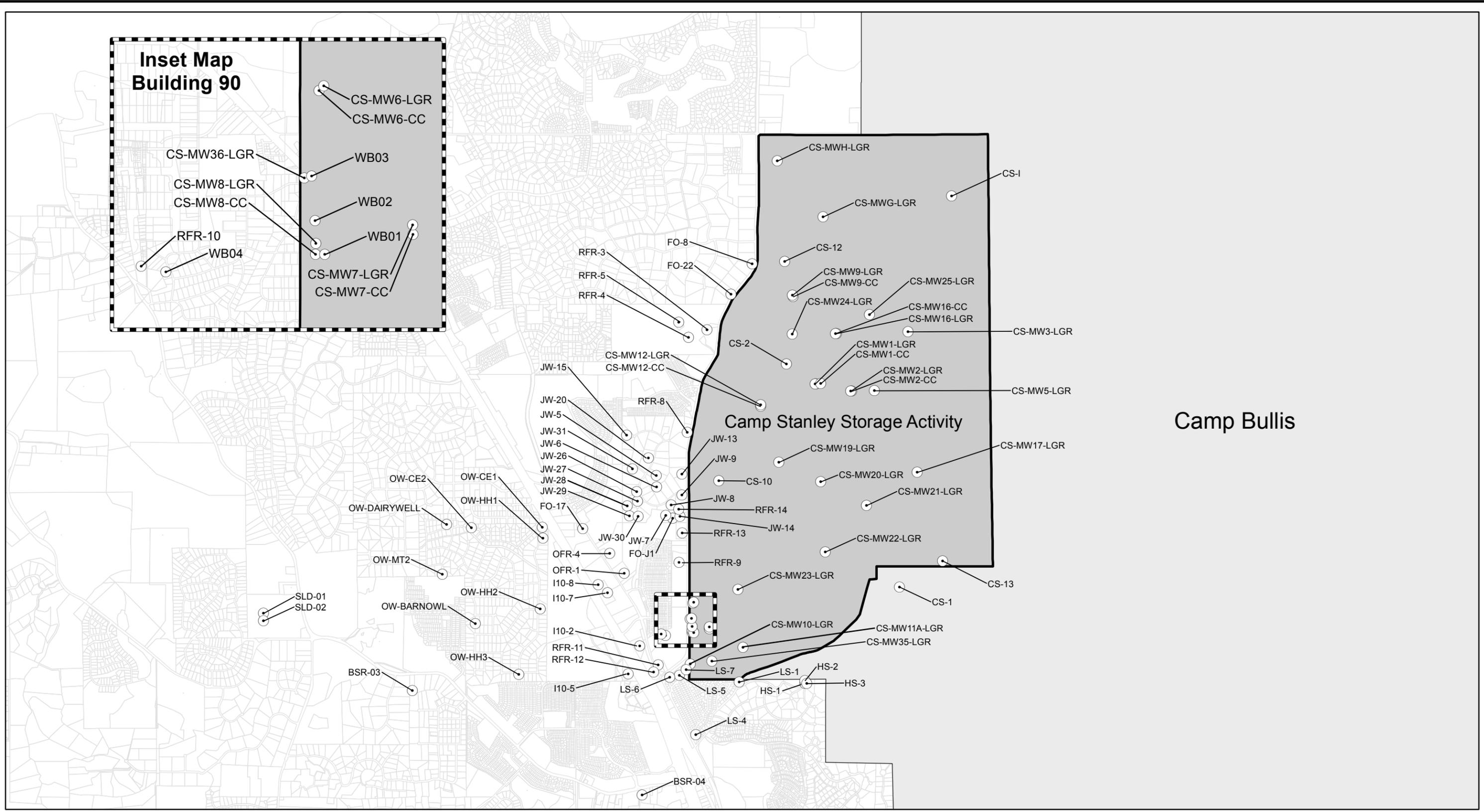
Project Number	Description of Task	Relation to Order	Percent Complete
Army Contract TO8 (Parsons)	Environmental Program and Facilities Support		
	Project Management	RFI	25%
	Administrative Support	RFI	25%
	Meetings	RFI	25%
	Treatability Study (Systems Operation)	RFI/CMS	25%
	Compliance and Sampling	RFI	10%
	Groundwater Monitoring	RFI	20%
	Site Investigations and Closure	RFI	0%
	Treatability Studies	RFI/CMS	20%
	Groundwater Tracer Study Design	RFI	0%
	Technology Assessment – Solar Array	RFI/CMS	10%
	AOC-65 Monitoring Wells and Studies	RFI	0%

Table 3, Project Team Contact Information

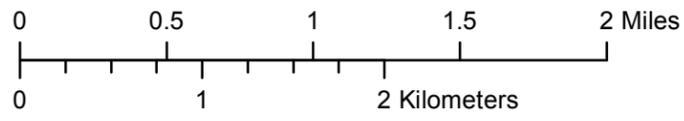
Name	Organization/Role	Street Address	City, State, Zip	Phone No.	Fax No.	E-mail
Arciniaga, Laura	Parsons, Task Mgr	8000 Centre Park Dr., Suite 200	Austin, TX 78754	(512) 719-6855	(512) 719-6099	laura.arciniaga@parsons.com
Burdey, Julie	Parsons, Project Mgr	8000 Centre Park Dr., Suite 200	Austin, TX 78754	(512) 719-6062	(512) 719-6099	julie.burdey@parsons.com
Caskey, Kyle	Parsons, Site Mgr	c/o Environmental Office, 25800 Ralph Fair Road	Boerne, TX 78015-4800	(210) 204-8529	(210) 295-7386	Kerry.k.caskey@parsons.com
Chang, Tammy	Parsons, Senior Scientist	8000 Centre Park Dr., Suite 200	Austin, TX 78754	(512) 719-6092	(512) 719-6099	tammy.chang@parsons.com
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Lyssy, Greg	USEPA, Project Manager	1445 Ross Avenue (6PD-N)	Dallas, TX 75202-2733	(214) 665-8317	(214) 665-6660	lyssy.gregory@epa.gov
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ATTACHMENT 1

ON-POST AND OFF-POST SAMPLED WELLS FIGURE



Camp Bullis



	Sampled Well		Camp Bullis Boundary
	CSSA Boundary		2013 Bexar County Parcels

Attachment 1

June and September 2014 Sampled
On-post and Off-post Groundwater Wells
Camp Stanley Storage Activity

PARSONS

ATTACHMENT 2
SUMMARY OF STATUS OF EACH SWMU/AOC/RMU SITE

**ATTACHMENT 2
STATUS OF SWMUs, AOCs, AND RMUs at CSSA**

Unit No.	Description	Investigation Report(s)	Recommendations	Requested Action				Closure Approved	Closure Type
				RRS1	NFA	Delisting	TRRP		
B-1	Powder and ammo burn area (1954).	RFI/Closure Report July 2002	NA	X				November-02	RRS1
B-2	Small arms ammunition burning area (1954) - North Pasture	RFI/Closure Report June 2002 Closure Report March 2005	Closure once range is inactive						
B-3	Landfill area (garbage disposal and burning trash); filled in 1990-91.	RFI Report March 2005	Bioreactor remediation ongoing						
B-4	Classified burn area (documents and trash).	APAR October 2012	Closure				X	February-13	TRRP
B-5	Possible fired small arms ammo brass area. Not located.	RFI/Closure Report July 2002	NA	X				October-02	RRS1
B-6	Possible solid waste disposal area.	RFI/Closure Report July 2002	NA	X				October-02	RRS1
B-7	Possible fired small arms ammunition brass disposal area	RFI/Closure Report July 2002	NA	X				October-02	RRS1
B-8	Fired small arms ammo brass disposal area (piles of fire bricks, ammo shells) - North Pasture	RFI Report December 2003	Excavate as necessary once range is inactive						
B-9	Miscellaneous solid waste (metal and weapons) disposal area.	RFI/Closure Report September 2002	NA	X				March-03	RRS1
B-10	Ammunition disposal area.	RFI/Closure Report May 2003	NA	X				January-04	RRS1
B-11	Miscellaneous solid waste disposal (ammo, scrap metal, const. debris).	RFI Closure Report June 04	NA	X				September-04	RRS1
B-12	Landfill, WPA trash when igloos were being built	RFI Report April 2005	NA	X				July-05	RRS1
B-13	Trash dump area.	RIR April 2013	Closure		X			July-13	NFA
B-14	Possible fired brass area - not located.	Delisting Request November 2007	NA			X		February-08	Delisting
B-15/16	Landfill (target vehicles, weapons mounts)	RIR June 2011	NA		X			September-11	NFA
B-19	Solid waste disposal area (metals and weapons).	RFI/Closure Report June 2002	NA	X				September-02	RRS1
B-20/21	Former OB/OD area & ammunition disposal areas - North Pasture	RFI Report July 2002	Closure once range is inactive						
		Combined with B-20							
B-22	Burn area (artillery shells).	RFI/Closure Report August 2002	NA	X				December-02	RRS1

**ATTACHMENT 2
STATUS OF SWMUs, AOCs, AND RMUs at CSSA**

Unit No.	Description	Investigation Report(s)	Recommendations	Requested Action				Closure Approved	Closure Type
				RRS1	NFA	Delisting	TRRP		
B-23	Disposal trenches (two green canisters)	RFI Report April 2005	NA	X				July-05	RRS1
B-23A	Disposal Trench (glass ampoules of liquid)	RFI Closure Report September 2004	NA	X				March-05	RRS1
B-24	Spent ammo/rockets area - North Pasture	RFI Report May 2002	MC removal once range is inactive						
B-25	Possible disposal trench	RFI Report April 2005	NA	X				July-05	RRS1
B-26	Possible disposal trench	Delisting Report August 2004	NA			X		November-04	Delisting
B-27	Sanitary landfill, consisting of 5-6 trenches (6 ft deep, 3 ft wide).	RFI Report July 2002 RIR September 2011	NA		X			December-11	NFA
B-28	Disposal trenches (molten metal, ammo, ammo parts)	RFI Report April 2002 RIR July 2011	NA		X			November-11	NFA
B-29	Solid waste disposal area (in old quarry)	RFI Report April 2005	NA	X				February-08	RRS1
B-30	Solid waste disposal area	RFI Report September 2004	NA	X				February-05	RRS1
B-31	Lead shot/sand pipe bedding	RFI/Closure Report July 2002	NA	X				November-02	RRS1
B-32	Lead shot/sand pipe bedding	RFI/Closure Report January 2003	NA	X				November-03	RRS1
B-33	Lead shot/sand pipe bedding	RFI Report September 2004	NA	X				November-04	RRS1
B-34	Maintenance pit floor drain and discharge point	RFI Report August 2002	Closure		X			April-14	NFA
B-71	Livestock area. Inner cantonment, SW of Well 16.	APAR	NA				X	October 2011	TRRP
AOC-64	Area east of SWMU B-4; flares observed in the area	APAR	NA				X	October 2011	TRRP
Bldg 40	less-than 90-day accumulation container storage area	RFI/Closure Report September 2003	NA	X				January-04 and January-06	RRS1
Bldg 43	Inactive makeshift ammo demolition facility	RFI Report April 2005	NA	X				August-05	RRS1
DD	Dud ammunition disposal area	RFI Report January 2005	NA	X				April-05	RRS1
F-14	Hazardous waste storage area (<90-day)	RFI/Closure Report, 1995	NA	X				November-95	RRS1

**ATTACHMENT 2
STATUS OF SWMUs, AOCs, AND RMUs at CSSA**

Unit No.	Description	Investigation Report(s)	Recommendations	Requested Action				Closure Approved	Closure Type
				RRS1	NFA	Delisting	TRRP		
I-1	Inactive incinerator (built in 1943), currently used for transformer storage	RFI Report February 2003	NA				X	November-08	NFA
O-1	Waste liquid/sludge oxidation pond (1975)	RFI/Closure Report October 2000	NA	X				April-02	RRS1
Coal Bins	Coal bins (no longer in use)	Delisting Requested January 2003	NA			X		February-08	Delisting
AOC-35	Area immediately around Well 16. Northeast area of inner cantonment.	RFI/Closure Report October 2002	NA	X				February-03	RRS1
AOC-36	Area between Well 16 and B-3. Possible waste verified not present by magnetometer survey.	RFI/Closure Report April 2002	NA	X				August-02	RRS1
AOC-37	Livestock area. NW of Well 16 and N of Well D.	RFI/Closure Report June 2004	NA	X				January-05	NFA
AOC-38	Livestock area. Inner cantonment, SW of Well 16.	RFI Report September 2004	NA	X				February-05	RRS1
AOC-39	None. Area west of Well 16 between North Outer Rd and cantonment fence.	RFI/Closure Report April 2002	NA	X				September-02	RRS1
AOC-40	None. Area east of Well 16 between North Outer Rd and cantonment fence.	RFI/Closure Report May 2002	NA	X				August-02	RRS1
AOC-41	Gate area east of well 16. North Pasture, north of gate 6.	NFA Report April 2005	NA		X			July-05	NFA
AOC-42	None. South of SWMUs B-28 and B-19, west of B-4.	RFI Report October 2002 RIR August 2011	NA		X			December-11	NFA
AOC-43	Shallow trench without mounds. Metal, UXO. Located 50 ft south of B-7.	RFI/Closure Report October 2002	NA	X				February-03	RRS1
AOC-44	Fox holes and trenches south of B-9 along west slope of hill. UXO includes Stokes mortars and 20-lb bombs.	Delisting Report April 2005	NA			X		July-05	Delisting
AOC-45	Flat area with spent and undamaged bullets. Located east of B-31, near bend in road.	RIR July 2011	NA		X			October-11	NFA
AOC-46	Bermed area with stockpile of lead shot and sand. Located south of Engineering on east side of Thompkins Road.	RFI/Closure Report April 2005	NA	X				July-05	RRS1
AOC-47	Area of trenches and mounds (similar to B-15/16). South of B-15/16, in SW area of East Pasture.	RFI/Closure Report June 2002	NA	X				September-02	RRS1
AOC-48	Three N-S trending mounds and a construction debris pile. Located north of B-15/16.	Delisting Report August 2004	NA			X		November-04	Delisting

**ATTACHMENT 2
STATUS OF SWMUs, AOCs, AND RMUs at CSSA**

Unit No.	Description	Investigation Report(s)	Recommendations	Requested Action				Closure Approved	Closure Type
				RRS1	NFA	Delisting	TRRP		
AOC-49	Trench (4 x 7 ft) without surficial debris. Located SW of deer stand 41 in central East Pasture.	Delisting Report April 2005	NA			X		July-05	Delisting
AOC-50	Area with orange discolored material (most likely nickel penetrate) at ground surface. South of B-30 along gravel road.	RFI/Closure Report January 2005	NA	X				April-05	RRS1
AOC-51	East pasture, east of active range, approximately 25 acres, area around B-9	RIR July 2012	Closure		X			October-12	NFA
AOC-52	Area west of B-4 towards Salado Creek near trees, two trenches	RIR August 2011	NA		X			December-11	NFA
AOC-53	Building foundation near B-27 at Central Road and road to "D" Tank, batteries at rear of slab	RFI/Closure Report April 2005	NA	X				July-05	RRS1
AOC-54	Area near gutting pit, east of Welding Shop Building, right side of road batteries were stored in the area	Closure Report July 2004	NA	X				November-04	RRS1
AOC-55	Landfill, south of Tenberg Drive, east of Salado Creek	RFI/Closure Report Feb 04	NA	X				June-08	RRS1
AOC-56	Landfill, at intersection of Bernard Road and East Outer Road, surface depression on south side of intersection	Closure Report June 04	NA	X				September-04	RRS1
AOC-57	East of Building 98 and KOA Area, cleaning/maintenance activities performed at temporary structures	RIR May 2011	NA		X			September-11	NFA
AOC-58	Suspected disposal trench within Inner Cantonment	RFI Report October 2002 RIR August 2011	NA		X			December-11	NFA
AOC-59	Trench-type anomaly located west Test Pad in the East Pasture	RIR July 2011	NA		X			October-11	NFA
AOC-60	Trench located west of tunnel and entrance roadway in the East Pasture.	Delisting Report April 2005	NA			X		July-05	Delisting
AOC-61	Suspected landfill	RFI/Closure Report October 2002	NA	X				February-03	RRS1
AOC-62	Located west of monitoring well MW-2 and east of Salado Creek.	RIR August 2011	NA		X			December-11	NFA
AOC-63	Area consisting of 3 barrels containing rocks, south of deer stand 41 in the East Pasture.	APAR October 2008	NA				X	July-09	TRRP
AOC-65	A concrete pit area that housed a metal vat that contained TCE and PCE.	RFI Report August 2003	Additional investigation, ISCO remediation ongoing						

ATTACHMENT 3
OVERALL H ORDER PERCENT COMPLETE

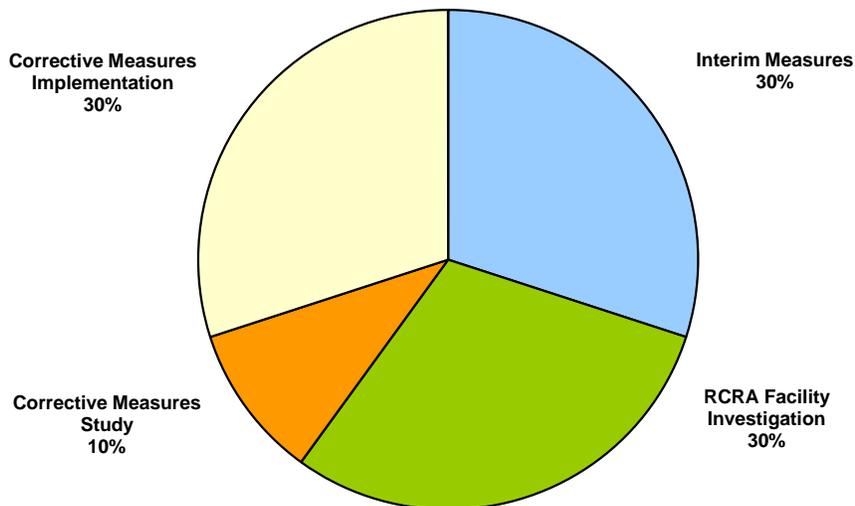
**ATTACHMENT 2
STATUS OF SWMUs, AOCs, AND RMUs at CSSA**

Unit No.	Description	Investigation Report(s)	Recommendations	Requested Action				Closure Approved	Closure Type
				RRS1	NFA	Delisting	TRRP		
AOC-66	Area north of Well 16 in the outer cantonment.	Closure Report June 04	NA	X				February-05	NFA
AOC-67	Concrete pad near Building 90 housed a vat containing cleaning solvents.	RIR July 2010	NA		X			September-10	NFA
AOC-68	Area includes metal slag/debris storage area from Wheelabrator operations next to Building 90-2.	RIR July 2010	NA		X			September-10	NFA
AOC-69	Located on west side of CSSA.	RIR June 2009	NA		X			October-09	NFA
AOC-70	Building used to mix pesticides. Near Building 1.	RIR June 2011	NA		X			September-11	NFA
AOC-72	Area containing concrete, possible asbestos. Located east of Building 94, in SW CSSA.	RIR March 2012	Closure		X			May-12	NFA
AOC-73	Ranch landfill with overgrown trenches. Near Well I1, in northwest corner of CSSA.	RIR September 2008	NA		X			January-09	NFA
AOC-74	Area with scattered building debris near Building 605 in the inner cantonment.	RIR February 2012	Closure		X			May-12	NFA
AOC-75	Area with high levels of mercury and barium.	RIR July 2013	Closure		X			November-13	NFA
RMU-1	Active firing range in the East Pasture	--	Investigation once range is inactive.						
RMU-2	Rifle range located in the inner cantonment.	RIR November 2011	NA		X			February-12	NFA
RMU-3	Firing range berm.	RIR May 2013	Closure		X			May-13	NFA
RMU-4	Former rifle range in East Pasture.	RIR October 2013	Closure		X			February-14	NFA
RMU-5	Former rocket range in North Pasture.	RIR June 2012	Closure		X			September-12	NFA

Attachment 3
Overall (H) Order Percent Complete

Task Name	% of Project	% of Phase	% Complete	% of Activity Complete	% of Task Complete
Interim Measures	30%				99.8%
Interim Measures Work Plan		7%	100.0%	7.0%	
Interim Measures Implementation Reports		70%	99.8%	69.9%	
		23%	99.8%	23.0%	
RCRA Facility Investigation	30%				99%
Preliminary Report		5%	100%	5%	
RFI Workplan		5%	100%	5%	
Facility Investigation		40%	100%	40%	
Risk Assessment		10%	100%	10%	
Investigation Analysis		10%	100%	10%	
Groundwater Investigation		15%	99%	15%	
Treatability Studies		10%	95%	10%	
Progress Reports		5%	99%	5%	
Corrective Measures Study	10%				99%
Identify and Develop Alternatives		15%	100%	15%	
Evaluate Alternatives		60%	100%	60%	
Reports		25%	94%	24%	
Corrective Measures Implementation	30%				52%
Implementation Program Plan		5%	46%	2%	
Corrective Measure Design		15%	45%	7%	
Corrective Measure Construction		70%	50%	35%	
Reports		10%	75%	8%	
% of Phase Complete					85%

Section 3008(h) Order Tasks



Attachment 3
Overall (H) Order Percent Complete

Task Name	% of Phase	% of Task	% Complete	% of Activity Complete	% of Activity Remaining	% of Task Complete	Comments/Status
1 Interim Measures Work Plan	7%					100.0%	
Draft IM Workplan		80%	100%	80%	0%		
Draft Final IM Workplan		15%	100%	15%	0%		
Final IM Workplan		5%	100%	5%	0%		
2 Interim Measures Implementation	70%					99.8%	
Sample 3 Off-Site Wells		1%	100%	1%	0%		
Sample 20 Off-Site Wells (6 events)		6%	100%	6%	0%		(remaining off-post sampling conducted under the RFI task)
2000 Groundwater Monitoring (4 events)		3%	100%	3%	0%		
2001 Groundwater Monitoring (4 events)		3%	100%	3%	0%		
2002 Groundwater Monitoring (4 events)		3%	100%	3%	0%		
2003 Groundwater Monitoring (4 events)		3%	100%	3%	0%		
2004 Groundwater Monitoring (4 events)		3%	100%	3%	0%		
2005 Groundwater Monitoring (4 events)		3%	100%	3%	0%		
2006 Groundwater Monitoring		3%	100%	3%	0%		
2007 Groundwater Monitoring		3%	100%	3%	0%		
2008 Groundwater Monitoring		3%	100%	3%	0%		
2009 Groundwater Monitoring		3%	100%	3%	0%		
2010 Groundwater Monitoring		3%	100%	3%	0%		
2011 Groundwater Monitoring		3%	100%	3%	0%		
2012 Groundwater Monitoring		3%	100%	3%	0%		
2013 Groundwater Monitoring		3%	100%	3%	0%		
2013 Groundwater Monitoring		3%	100%	3%	0%		
2014 Groundwater Monitoring		3%	100%	3%	0%		
Locate and map off-site wells		1%	100%	1%	0%		
O-1 Soil Borings		3%	100%	3%	0%		
O-1 Excavation, Stabilization, Dipsal		12%	100%	12%	0%		
Establish Treatment Unit		1%	50%	1%	50%		may or may not be necessary.
Determine appropriate disposition of soil piles		5%	100%	5%	0%		After treatability studies.
Treat/dispose of soil piles		20%	100%	20%	0%		Unfunded CSSA future work.
AOC 50 Excavation and Disposal		3%	100%	3%	0%		Not included as IM in the Order.
AOC 65 Excavation and Disposal		8%	100%	8%	0%		
3 Reports	23%					99.8%	
Quarterly Progress Report 1 (August 1999)		0.61%	100%	1%	0%		
Quarterly Progress Report 2 (November 1999)		0.61%	100%	1%	0%		
Quarterly Progress Report 3 (February 2000)		0.61%	100%	1%	0%		
Quarterly Progress Report 4 (May 2000)		0.61%	100%	1%	0%		
Quarterly Progress Report 5 (August 2000)		0.61%	100%	1%	0%		
Quarterly Progress Report 6 (November 2000)		0.61%	100%	1%	0%		
Quarterly Progress Report 7 (February 2001)		0.61%	100%	1%	0%		
Quarterly Progress Report 8 (May 2001)		0.61%	100%	1%	0%		
Quarterly Progress Report 9 (August 2001)		0.61%	100%	1%	0%		
Quarterly Progress Report 10 (November 2001)		0.61%	100%	1%	0%		
Quarterly Progress Report 11 (February 2002)		0.61%	100%	1%	0%		
Quarterly Progress Report 12 (May 2002)		0.61%	100%	1%	0%		
Quarterly Progress Report 13 (August 2002)		0.61%	100%	1%	0%		
Quarterly Progress Report 14 (November 2002)		0.61%	100%	1%	0%		
Quarterly Progress Report 15 (February 2003)		0.61%	100%	1%	0%		
Quarterly Progress Report 16 (May 2003)		0.61%	100%	1%	0%		
Quarterly Progress Report 17 (August 2003)		0.61%	100%	1%	0%		
Quarterly Progress Report 18 (November 2003)		0.61%	100%	1%	0%		
Quarterly Progress Report 19 (February 2004)		0.61%	100%	1%	0%		
Quarterly Progress Report 20 (May 2004)		0.61%	100%	1%	0%		
Quarterly Progress Report 21 (August 2004)		0.61%	100%	1%	0%		
Quarterly Progress Report 22 (November 2004)		0.61%	100%	1%	0%		
Quarterly Progress Report 23 (February 2005)		0.61%	100%	1%	0%		
Quarterly Progress Report 24 (May 2005)		0.61%	100%	1%	0%		
Quarterly Progress Report 25 (August 2005)		0.61%	100%	1%	0%		
Quarterly Progress Report 26 (October 2005)		0.61%	100%	1%	0%		
Quarterly Progress Report 27 (January 2006)		0.61%	100%	1%	0%		
Quarterly Progress Report 28 (April 2006)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 29 (Dec 2006)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 30 (July 2007)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 31 (Dec 2007)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 32 (July 2008)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 33 (Dec 2008)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 34 (July 2009)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 35 (Dec 2009)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 36 (July 2010)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 37 (Dec 2010)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 38 (July 2011)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 39 (Dec 2011)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 40 (July 2012)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 41 (Dec 2012)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 42 (July 2013)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 43 (Dec 2013)		0.61%	100%	1%	0%		
Semi-annual Progress Rpt 44 (July 2014)		0.61%	100%	1%	0%		
Draft O-1 IM Report		19%	100%	19%	0%		
Draft final O-1 IM Report		12%	100%	12%	0%		
Final O-1 IM Report		5%	100%	5%	0%		
Draft Soil Pile IM Report		20%	100%	20%	0%		
Draft Final Soil Pile IM Report		12%	100%	12%	0%		
Final Soil Pile IM Report		5%	100%	5%	0%		
% of Phase Complete						99.84%	

Attachment 3
Overall (H) Order Percent Complete

Task Name	% of Phase	% of Task	% Complete	% of Activity Complete	% of Activity Remaining	% of Task Complete	Comments/Status
Preliminary Report	5%					100.0%	
Draft DCC Report		80%	100%	80%	0%		
Draft Final DCC Report		15%	100%	15%	0%		
Final DCC Report		5%	100%	5%	0%		
RFI Workplan	5%					100.0%	
Draft Community Relations Plan		25%	100%	25%	0%		
Draft Final CRP		5%	100%	5%	0%		
Final CRP (2006)		10%	100%	10%	0%		
Draft RFI Workplans		20%	100%	20%	0%		
Draft Final RFI Workplan		5%	100%	5%	0%		
Final RFI Workplans		5%	100%	5%	0%		
Final Work Plans (DY01)		10%	100%	10%	0%		
Draft Work Plans (DY02)		10%	100%	10%	0%		
Final Work Plans (DY02)		10%	100%	10%	0%		
Facility Investigation¹	40%					100.0%	
Small Areas (0-2 acres in size)	74%						
B-3 Investigation/Report		1.24%	100%	1.240%	0%		Final report submitted, additional work required.
B-4 Investigation/Report		1.24%	100%	1.240%	0%		TRRP closure approved Feb 13
B-5 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Oct 02
B-6 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Oct 02
B-7 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Oct 02
B-8 Investigation/Report		1.24%	100%	1.240%	0%		Active range
B-9 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Mar 03
B-10 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Jan 04
B-11 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Sept 04
B-12 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved July 05
B-13 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved July 13
B-15/16 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved Sept 11
B-19 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Sept 02
B-23 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved July 05
B-23A Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Mar 05
B-25 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved July 05
B-26 Investigation/Report		1.24%	100%	1.240%	0%		Delisting approved November 04
B-27 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved Dec 11
B-28 Investigation/Report		1.24%	100%	1.240%	0%		NFA Closure approved Nov 11
B-30 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Feb 05
B-31 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Nov 02
B-32 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Nov 03
B-33 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Nov 04
B-34 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved Apr 14
B-71 Investigation/Report		1.24%	100%	1.240%	0%		TRRP closure approved Oct 11
BLDG-43 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Sept 05
Demo Dud Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Apr 05
F-14 Investigation/Report		1.24%	100%	1.240%	0%		Closure approved Nov 95
I-1 Investigation/Report		1.24%	100%	1.240%	0%		Closure approved Nov 08
AOC 35 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Feb 03
AOC 37 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Jan 05
AOC 39 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Sept 02
AOC 40 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Aug 02
AOC 43 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved Feb 03
AOC 44 Investigation/Report		1.24%	100%	1.240%	0%		Delisting approved July 2005
AOC 45 Investigation/Report		1.24%	100%	1.240%	0%		NFA Closure Approved Oct 11
AOC 46 Investigation/Report		1.24%	100%	1.240%	0%		RRS1 closure approved July 05
AOC 47 Investigation/Report		1.24%	100%	1.240%	0%		Closure approved Sep 02

Attachment 3
Overall (H) Order Percent Complete

Task Name	% of Phase	% of Task	% Complete	% of Activity Complete	% of Activity Remaining	% of Task Complete	Comments/Status
AOC 49 Investigation/Report		1.24%	100%	1.240%	0%		Delisting approved July 05
AOC 50 Investigation/Report		1.24%	100%	1.240%	0%		Closure approved Apr 05
AOC 52 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved Dec 11
AOC 53 Investigation/Report		1.24%	100%	1.240%	0%		Closure approved July 05
AOC 54 Investigation/Report		1.24%	100%	1.240%	0%		Closure approved Nov 04
AOC 55 Investigation/Report		1.24%	100%	1.240%	0%		Closure approved June 08
AOC 56 Investigation/Report		1.24%	100%	1.240%	0%		Closure approved Sept 04
AOC 58 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved Dec 11
AOC 59 Investigation/Report		1.24%	100%	1.240%	0%		NFA Closure Approved Oct 11
AOC 60 Investigation/Report		1.24%	100%	1.240%	0%		Delisting approved July 05
AOC 61 Investigation/Report		1.24%	100%	1.240%	0%		Closure approved Feb 03
AOC 62 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved Dec 11
AOC 63 Investigation/Report		1.24%	100%	1.240%	0%		Closure approved Aug 09
AOC 64 Investigation/Report		1.24%	100%	1.240%	0%		TRRP closure approved Oct 11
AOC 67 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved Sept 10
AOC 68 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved Sept 10
AOC 69 Investigation/Report		1.24%	100%	1.240%	0%		TRRP closure approved Oct 09
AOC 70 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved Sept 11
AOC 72 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved May 12
AOC 73 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved July 09
AOC 74 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved May 12
AOC 75 Investigation/Report		1.24%	100%	1.240%	0%		NFA closure approved Nov 13
Medium Areas (2-10 acres in size)							
B-1 Investigation/Report		1.2%	100%	1.220%	0%		Closure approved Nov 02
B-2 Investigation/Report		1.2%	100%	1.220%	0%		Active range
B-22 Investigation/Report		1.2%	100%	1.220%	0%		Closure approved Dec 02
B-24 Investigation/Report		1.2%	100%	1.220%	0%		Active range
B-29 Investigation/Report		1.2%	100%	1.220%	0%		Closure approved Feb 08
AOC 36 Investigation/Report		1.2%	100%	1.220%	0%		Closure approved Aug 02
AOC 41 Investigation/Report		1.2%	100%	1.220%	0%		Closure approved July 05
AOC 42 Investigation/Report		1.2%	100%	1.220%	0%		NFA closure approved Dec 11
AOC 48 Investigation/Report		1.2%	100%	1.220%	0%		Delisting approved Nov 04
AOC 57 Investigation/Report		1.2%	100%	1.220%	0%		NFA closure approved Sept 11
Large Areas (>10 acres in size)							
B-20/21 Investigation/Report		1.2%	100%	1.220%	0%		Active range
AOC 38 Investigation/Report		1.2%	100%	1.220%	0%		Closure approved February 05
AOC 51 Investigation/Report		1.2%	100%	1.220%	0%		NFA Closure approved Oct 12
AOC 66 Investigation/Report		1.2%	100%	1.220%	0%		NFA Closure approved Feb 05
RMU-5 Investigation/Report		1.2%	100%	1.220%	0%		NFA Closure approved Sept 12
AOC 65 Investigation/Report		1.2%	100%	1.220%	0%		Final report submitted, additional work recommended
AOC 69 Investigation/Report		1.2%	100%	1.220%	0%		Closure approved Oct 09
Coal Bins Investigation/Report		1.2%	100%	1.220%	0%		Site de-listed as an AOC
RMU-2 Investigation/Report		1.2%	100%	1.220%	0%		NFA closure approved Feb 12
RMU-3 Investigation/Report		1.2%	100%	1.220%	0%		NFA closure approved May 13
RMU-4 Investigation/Report		1.2%	100%	1.220%	0%		Final report submitted to TCEQ
Groundwater Investigation	15%					99%	
Well Installation		10%	90%	9%	10%		
Groundwater Monitoring 1999		3%	100%	3%	0%		
Groundwater Monitoring 2000		3%	100%	3%	0%		
Groundwater Monitoring 2001		3%	100%	3%	0%		
Groundwater Monitoring 2002		3%	100%	3%	0%		
Groundwater Monitoring 2003		3%	100%	3%	0%		
Groundwater Monitoring 2004		3%	100%	3%	0%		

Attachment 3
Overall (H) Order Percent Complete

Task Name	% of Phase	% of Task	% Complete	% of Activity Complete	% of Activity Remaining	% of Task Complete	Comments/Status
Groundwater Monitoring 2005		3%	100%	3%	0%		
Groundwater Monitoring 2006		3%	100%	3%	0%		
Groundwater Monitoring 2007		3%	100%	3%	0%		
Groundwater Monitoring 2008		3%	100%	3%	0%		
Groundwater Monitoring 2009		3%	100%	3%	0%		
Groundwater Monitoring 2010		3%	100%	3%	0%		
Groundwater Monitoring 2011		3%	100%	3%	0%		
Groundwater Monitoring 2012		3%	100%	3%	0%		
Groundwater Monitoring 2013		3%	100%	3%	0%		
Groundwater Monitoring 2014		3%	50%	1%	50%		
Conceptual Site Model (CSM)		20.0%	100%	20%	0%		
CSM Update		5.0%	100%	5%	0%		
LTMO 2005 (optimization study)		10%	100%	10%	0%		Complete
LTMO 2010 (review of optimization)		10%	100%	10%	0%		Complete
Risk Assessment	10%					100%	
Draft Report		20%	100%	20%	0%		
Draft Final Report		4%	100%	4%	0%		
Final Report		1%	100%	1%	0%		RA approved by EPA Apr 14.
Draft CSM		60%	100%	60%	0%		
Update to CSM		10%	100%	10%	0%		
Final CSM		5%	100%	5%	0%		
Investigation Analysis	10%					100%	
Collect Background Data		10%	100%	10%	0%		
Draft Investigation Analysis		85%	100%	85%	0%		
Final Investigation Analysis		5%	100%	5%	0%		Information included in facility investigation reports; percent complete based on overall percent complete of facility investigation tasks.
Treatability Studies	10%					95%	
Draft Treatability Study Report B-20		15%	100%	15%	0%		
Final Treatability Study Report B-20		5%	100%	5%	0%		
Continued O&M for B-3		10%	100%	10%	0%		
AOC-65 Treatability Studies		10%	100%	10%	0%		
Draft Treatability Study & Technology Evaluation Reports		10%	100%	10%	0%		
Final Treatability Study Report		25%	80%	20%	20%		
Recharge Study		25%	100%	25%	0%		
Progress Reports	5%					99%	
Quarter 1 (August 1999)		2.2%	100%	2.2%	0%		
Quarter 2 (November 1999)		2.2%	100%	2.2%	0%		
Quarter 3 (February 2000)		2.2%	100%	2.2%	0%		
Quarter 4 (May 2000)		2.2%	100%	2.2%	0%		
Quarter 5 (August 2000)		2.2%	100%	2.2%	0%		
Quarter 6 (November 2000)		2.2%	100%	2.2%	0%		
Quarter 7 (February 2001)		2.2%	100%	2.2%	0%		
Quarter 8 (May 2001)		2.2%	100%	2.2%	0%		
Quarter 9 (August 2001)		2.2%	100%	2.2%	0%		
Quarter 10 (November 2001)		2.2%	100%	2.2%	0%		
Quarter 11 (February 2002)		2.2%	100%	2.2%	0%		
Quarter 12 (May 2002)		2.2%	100%	2.2%	0%		
Quarter 13 (August 2002)		2.2%	100%	2.2%	0%		
Quarter 14 (November 2002)		2.2%	100%	2.2%	0%		
Quarter 15 (February 2003)		2.2%	100%	2.2%	0%		
Quarter 16 (May 2003)		2.2%	100%	2.2%	0%		
Quarter 17 (August 2003)		2.2%	100%	2.2%	0%		
Quarter 18 (November 2003)		2.2%	100%	2.2%	0%		
Quarter 19 (February 2004)		2.2%	100%	2.2%	0%		
Quarter 20 (May 2004)		2.2%	100%	2.2%	0%		
Quarter 21 (August 2004)		2.2%	100%	2.2%	0%		
Quarter 22 (November 2004)		2.2%	100%	2.2%	0%		
Quarter 23 (February 2005)		2.2%	100%	2.2%	0%		

Attachment 3
Overall (H) Order Percent Complete

Task Name	% of Phase	% of Task	% Complete	% of Activity Complete	% of Activity Remaining	% of Task Complete	Comments/Status
Quarter 24 (May 2005)		2.2%	100%	2.2%	0%		
Quarter 25 (August 2005)		2.2%	100%	2.2%	0%		
Quarter 26 (November 2005)		2.2%	100%	2.2%	0%		
Quarter 27 (February 2006)		2.2%	100%	2.2%	0%		
Quarter 28 (May 2006)		2.2%	100%	2.2%	0%		
Semi-Annual 29 (December 2006)		2.2%	100%	2.2%	0%		
Semi-Annual 30 (July 2007)		2.2%	100%	2.2%	0%		
Semi-Annual 31 (December 2007)		2.2%	100%	2.2%	0%		
Semi-Annual 32 (July 2008)		2.2%	100%	2.2%	0%		
Semi-Annual 33 (December 2008)		2.2%	100%	2.2%	0%		
Semi-Annual 34 (July 2009)		2.2%	100%	2.2%	0%		
Semi-Annual 35 (December 2009)		2.2%	100%	2.2%	0%		
Semi-Annual 36 (July 2010)		2.2%	100%	2.2%	0%		
Semi-Annual 37 (December 2010)		2.2%	100%	2.2%	0%		
Semi-Annual 38 (July 2011)		2.2%	100%	2.2%	0%		
Semi-Annual 39 (December 2011)		2.2%	100%	2.2%	0%		
Semi-Annual 40 (July 2012)		2.2%	100%	2.2%	0%		
Semi-Annual 40 (July 2012)		2.2%	100%	2.2%	0%		
Semi-Annual 41 (December 2012)		2.2%	100%	2.2%	0%		
Semi-Annual 42 (July 2013)		2.2%	100%	2.2%	0%		
Semi-Annual 43 (December 2013)		2.2%	100%	2.2%	0%		
Semi-Annual 44 (July 2014)		2.2%	100%	2.2%	0%		
Semi-Annual 45 (December 2014)		2.2%	100%	2.2%	0%		
% of Phase Complete						99.29%	
¹ Breakdown of percent complete for RFI facility investigations: Field work complete (25%), data validation (20%), boring logs (if applicable)(10%), analytical data tables (10%), figures (10%), draft report (20%), final report (5%). Note: if additional investigations are needed, then the percent complete will need to be adjusted on a site by site basis.							

Attachment 3
Overall (H) Order Percent Complete

Task Name	% of Phase	% of Task	% Complete	% of Activity Complete	% of Task Complete
Identify and Develop Alternatives	15%				100.0%
Update DCC Report		35%	100%	35%	
Establish Corrective Action Objectives		30%	100%	30%	
ID, Screen, Develop CM Alternatives		35%	100%	35%	
Evaluate Alternatives	60%				100.0%
Draft Description of CM Alternative		90%	100%	90%	
Final Description of CM Alternative		10%	100%	10%	
Reports	25%				94.0%
Draft CMS Report		75%	100%	75%	
Final CMS Report		5%	80%	4%	
Quarter 1 Progress Report (Period 43)		5%	100%	5%	
Quarter 2 Progress Report (Period 44)		5%	100%	5%	
Quarter 3 Progress Report (Period 45)		5%	100%	5%	
Quarter 4 Progress Report		5%	0%	0%	
% of Phase Complete					98.0%

Attachment 3
Overall (H) Order Percent Complete

Task Name	% of Phase	% of Task	% Complete	% of Activity Complete	% of Task Complete
Implementation Program Plan	5%				46.0%
Draft Program Management Plan		40%	20%	8%	
Final Program Management Plan		10%	0%	0%	
Draft Update to CRP		40%	95%	38%	
Final Update to CRP		10%	0%	0%	
Corrective Measure Design	15%				45%
Draft CMD Report		90%	50%	45%	
Final CMD Report		10%	0%	0%	
Corrective Measure Construction	70%				50%
Draft Construction QAPP		35%	50%	18%	
Final Construction QAPP		5%	50%	3%	
Implementation of Construction QAPP		60%	50%	30%	
Reports	10%				75%
Progress Report 1 (Period 43)		25%	100%	25%	
Progress Report 2 (Period 44)		25%	100%	25%	
Progress Report 3 (Period 45)		25%	100%	25%	
Progress Report 4		25%	0%	0%	
% of Phase Complete					54.00%

ATTACHMENT 4

GROUNDWATER RESULTS SUMMARY

Attachment 4
June 2014 Quarterly On-Post Groundwater Monitoring Analytical Results

Well ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Zinc	Mercury
CS-2	6/16/2014	NA	NA	0.0005U	0.001U	NA	0.0019U	NA	0.0001U
CS-MW1-LGR	6/12/2014	NA	NA	0.0005U	0.0019F	NA	0.0019U	NA	0.0001U
CS-MW1-LGR FD	6/12/2014	NA	NA	0.0005U	0.0019F	NA	0.0019U	NA	0.0001U
CS-MW1-CC	6/12/2014	NA	NA	0.0005U	0.0015F	NA	0.0019U	NA	0.0001U
CS-MW2-LGR	6/16/2014	NA	NA	0.0005U	0.0012F	NA	0.0019U	NA	0.0001U
CS-MW2-CC	6/16/2014	NA	NA	0.0005U	0.0015F	NA	0.0019U	NA	0.0001U
CS-MW3-LGR	6/11/2014	NA	NA	0.0005U	0.0038F	NA	0.0019U	NA	0.0001U
CS-MW5-LGR	6/16/2014	NA	NA	0.0005U	0.0011F	NA	0.0019U	NA	0.0001U
CS-MW6-LGR	6/17/2014	NA	NA	0.0005U	0.0015F	NA	0.0019U	NA	0.0001U
CS-MW6-CC	6/19/2014	NA	NA	0.0005U	0.0019F	NA	0.0019U	NA	0.0001U
CS-MW6-CC FD	6/19/2014	NA	NA	0.0005U	0.0036F	NA	0.0019U	NA	0.0001U
CS-MW7-LGR	6/20/2014	NA	NA	0.0005U	0.0014F	NA	0.0019U	NA	0.0001U
CS-MW7-CC	6/19/2014	NA	NA	0.0005U	0.003F	NA	0.0019U	NA	0.0001U
CS-MW8-LGR	6/17/2014	NA	NA	0.0005U	0.0011F	NA	0.0019U	NA	0.0001U
CS-MW8-CC	6/19/2014	NA	NA	0.0005U	0.0017F	NA	0.0019U	NA	0.0001U
CS-MW9-LGR	6/11/2014	NA	NA	0.0005U	0.0060F	NA	0.0019U	NA	0.0001U
CS-MW9-CC	6/11/2014	NA	NA	0.0005U	0.0014F	NA	0.0019U	NA	0.0001U
CS-MW10-LGR	6/19/2014	NA	NA	0.0005U	0.0053F	NA	0.0019U	NA	0.0001U
CS-MW10-LGR FD	6/19/2014	NA	NA	0.0005U	0.0048F	NA	0.0019U	NA	0.0001U
CS-MW11A-LGR	6/19/2014	NA	NA	0.0005U	0.0039F	NA	0.0019U	NA	0.0001U
CS-MW12-LGR	6/12/2014	NA	NA	0.0005U	0.0029F	NA	0.0019U	NA	0.0001U
CS-MW12-CC	6/12/2014	NA	NA	0.0005U	0.0017F	NA	0.0019U	NA	0.0001U
CS-MW16-LGR	6/18/2014	NA	NA	0.0005U	0.0032F	NA	0.0019U	NA	0.0001U
CS-MW16-CC	6/18/2014	NA	NA	0.0005U	0.001U	NA	0.0019U	NA	0.0001U
CS-MW17-LGR	6/11/2014	NA	NA	0.0005U	0.0097F	NA	0.0019U	NA	0.0001U
CS-MW19-LGR	6/16/2014	NA	NA	0.0005U	0.0015F	NA	0.0019U	NA	0.0001U
CS-MW20-LGR	6/18/2014	NA	NA	0.0005U	0.0038F	NA	0.0019U	NA	0.0001U
CS-MW21-LGR	6/18/2014	NA	NA	0.0005U	0.0016F	NA	0.0019U	NA	0.0001U
CS-MW22-LGR	6/18/2014	NA	NA	0.0005U	0.0021F	NA	0.0019U	NA	0.0001U
CS-MW23-LGR	6/18/2014	NA	NA	0.0005U	0.0034F	NA	0.0019U	NA	0.0001U
CS-MW24-LGR	6/16/2014	NA	NA	0.0005U	0.001U	NA	0.0019U	NA	0.0001U
CS-MW25-LGR	6/11/2014	NA	NA	0.0005U	0.0026F	NA	0.0019U	NA	0.0001U
CS-MW35-LGR	6/18/2014	NA	NA	0.0005U	0.0017F	NA	0.0019U	NA	0.0001U
CS-MW36-LGR	6/17/2014	NA	NA	0.0005U	0.001U	NA	0.0019U	NA	0.0001U
CS-MWG-LGR	6/11/2014	NA	NA	0.0005U	0.0018F	NA	0.0019U	NA	0.0001U
CS-MWH-LGR	6/11/2014	NA	NA	0.0005U	0.0017F	NA	0.0019U	NA	0.0001U
CS-I	6/11/2014	NA	NA	0.0005U	0.001U	NA	0.0019U	NA	0.0001U
CSSA Drinking Water Well System									
CS-1	6/23/2014	0.00027F	0.0325	0.0005U	0.0018F	0.016	0.0019U	0.523	0.0001U
CS-10	6/23/2014	0.00022U	0.0399	0.0005U	0.0013F	0.003U	0.0019U	0.040F	0.0001U
CS-12	6/23/2014	0.00022U	0.0314	0.0005U	0.001U	0.006F	0.0019U	0.121	0.0001U
CS-12 FD	6/23/2014	0.00022U	0.0293	0.0005U	0.0019F	0.006F	0.0019U	0.109	0.0001U
CS-13	6/23/2014	0.00497F	0.0322	0.0005U	0.0039F	0.004F	0.0019U	0.495	0.0001U

BOLD	≥ MDL
BOLD	≥ RL
BOLD	≥ MCL

All samples were analyzed by APPL, Inc.
VOC data reported in ug/L & metals data reported in mg/L.
Abbreviations/Notes:
FD Field Duplicate
TCE Trichloroethene
PCE Tetrachloroethene
DCE Dichloroethene
NA Not Analyzed for this parameter
Data Qualifiers:
U-The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
F-The analyte was positively identified but the associated numerical value is below the RL.

Attachment 4
June 2014 Quarterly On-Post Groundwater Monitoring Analytical Results

Well ID	Sample Date	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	Vinyl Chloride
CS-2	6/16/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW1-LGR	6/12/2014	0.12U	23.45	0.24F	17.34	32.51	0.08U
CS-MW1-LGR FD	6/12/2014	0.12U	22.22	0.29F	17.3	31.85	0.08U
CS-MW1-CC	6/12/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW2-LGR	6/16/2014	0.12U	0.51F	0.08U	0.06U	0.05U	0.08U
CS-MW2-CC	6/16/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW3-LGR	6/11/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW5-LGR	6/16/2014	0.12U	1.79	0.08U	0.77F	1.5	0.08U
CS-MW6-LGR	6/17/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW6-CC	6/19/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW6-CC FD	6/19/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW7-LGR	6/20/2014	0.12U	0.07U	0.08U	0.83F	0.05U	0.08U
CS-MW7-CC	6/19/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW8-LGR	6/17/2014	0.12U	0.07U	0.08U	3.26	0.05U	0.08U
CS-MW8-CC	6/19/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW9-LGR	6/11/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW9-CC	6/11/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW10-LGR	6/19/2014	0.12U	0.07U	0.08U	1.67	0.44F	0.08U
CS-MW10-LGR FD	6/19/2014	0.12U	0.07U	0.08U	2.16	0.46F	0.08U
CS-MW11A-LGR	6/19/2014	0.12U	0.07U	0.08U	0.92F	0.05U	0.08U
CS-MW12-LGR	6/12/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW12-CC	6/12/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW16-LGR	6/18/2014	0.12U	76.51	0.08U	70.97	86.11	0.08U
CS-MW16-CC	6/18/2014	0.12U	15.98	6.8	0.06U	6.11	0.08U
CS-MW17-LGR	6/11/2014	0.12U	0.07U	0.08U	0.27F	0.05U	0.08U
CS-MW19-LGR	6/16/2014	0.12U	0.07U	0.08U	0.68F	0.05U	0.08U
CS-MW20-LGR	6/18/2014	0.12U	0.07U	0.08U	1.52	0.05U	0.08U
CS-MW21-LGR	6/18/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW22-LGR	6/18/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW23-LGR	6/18/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW24-LGR	6/16/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW25-LGR	6/11/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW35-LGR	6/18/2014	0.12U	0.07U	0.08U	0.51F	0.05U	0.08U
CS-MW36-LGR	6/17/2014	0.12U	0.07U	0.08U	9.56	7.83	0.08U
CS-MWG-LGR	6/11/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MWH-LGR	6/11/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-I	6/11/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CSSA Drinking Water Well System							
CS-1	6/23/2014	0.12U	0.07U	0.08U	0.06U	0.37F	0.08U
CS-10	6/23/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-12	6/23/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-12 FD	6/23/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-13	6/23/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U

BOLD	≥ MDL
BOLD	≥ RL
BOLD	≥ MCL

All samples were analyzed by APPL, Inc.
VOC data reported in ug/L & metals data reported in mg/L.
Abbreviations/Notes:
FD Field Duplicate
TCE Trichloroethene
PCE Tetrachloroethene
DCE Dichloroethene
Data Qualifiers:
U-The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
F-The analyte was positively identified but the associated numerical value is below the RL.

Attachment 4
June 2014 Westbay Analytical Results

Well ID	Date Sampled	1,1-DCE	cis-1,2-DCE	TCE	PCE	trans-1,2-DCE	Vinyl Chloride
CS-WB01-LGR-09	6/25/2014	<0.12	0.35F	14.32	12.41	<0.08	<0.08
CS-WB02-LGR-09	6/24/2014	<0.12	0.28F	11.37	430.41*	<0.08	<0.08
CS-WB03-LGR-09	6/24/2014	<0.12	4.03	2.52	1.77	<0.08	<0.08
CS-WB04-LGR-06	6/25/2014	<0.12	2.58	7.83	32.19	0.23F	<0.08
CS-WB04-LGR-07	6/25/2014	<0.12	2.63	8.68	32.86	0.22F	<0.08
CS-WB04-LGR-09	6/25/2014	<0.12	<0.07	7.06	10.64	<0.08	<0.08
CS-WB04-LGR-10	6/25/2014	<0.12	<0.07	0.87F	2.38	<0.08	<0.08
CS-WB04-LGR-11	6/25/2014	<0.12	<0.07	<0.05	1.18F	<0.08	<0.08

Data Qualifiers

TCE Trichloroethene
PCE Tetrachloroethene
DCE Dichloroethene

F-The analyte was positively identified but the associated numerical value is below the RL.

* The analyte was run at a dilution of 10.

All values are reported in µg/L.

BOLD	≥ MDL
BOLD	≥ RL
BOLD	≥ MCL

Attachment 4
June 2014 Off-Post Groundwater Results

Subdivision	Well ID	Sample Date	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	Vinyl Chloride
Boerne Stage Road	BSR-03	6/6/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	BSR-04	6/10/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
Fair Oaks Ranch	FO-8	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	FO-17	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	FO-22	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	FO-J1	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
Hidden Springs	HS-1	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	HS-1 FD	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	HS-2	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	HS-3	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
IH-10	I10-2	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	I10-5	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	I10-7	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	I10-8	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
Jackson Woods	JW-5	6/3/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-6	6/3/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-7	6/3/2014	0.12U	0.07U	0.08U	0.34F	0.05U	0.08U
	JW-8	6/6/2014	0.12U	0.07U	0.08U	0.20F	0.05U	0.08U
	JW-9	6/20/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-13	6/16/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-14	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-14 FD	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-15	6/6/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-20	6/6/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-26	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-27	6/10/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-28	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-28 FD	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-29	6/6/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	JW-29 FD	6/6/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
JW-30	6/6/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U	
JW-31	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U	
Leon Springs Villas	LS-1	6/5/2014	0.12U	0.07U	0.08U	0.39F	0.05U	0.08U
	LS-4	6/5/2014	0.12U	0.07U	0.08U	0.08F	0.05U	0.08U
	LS-5	6/2/2014	0.12U	0.07U	0.08U	0.85F	2.75	0.08U
	LS-5 FD	6/2/2014	0.12U	0.07U	0.08U	1.17F	3.29	0.08U
	LS-6	6/2/2014	0.12U	0.07U	0.08U	0.91F	3.16	0.08U
LS-7	6/2/2014	0.12U	0.07U	0.08U	2.1	0.46F	0.08U	
The Oaks Water Supply	OW-BARNOWL	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	OW-CE1	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	OW-CE2	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	OW-HH1	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	OW-HH2	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	OW-HH3	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	OW-DAIRYWELL	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
OW-MT2	6/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U	
Old Fredericksburg	OFR-1	6/6/2014	0.12U	0.07U	0.08U	0.22F	0.05U	0.08U
	OFR-4	6/23/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U

**Attachment 4
June 2014 Off-Post Groundwater Results**

Subdivision	Well ID	Sample Date	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	Vinyl Chloride
Ralph Fair Road	RFR-3	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	RFR-4	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	RFR-5	6/5/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	RFR-8	6/6/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	RFR-9	6/6/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	RFR-10	6/2/2014	0.12U	0.07U	0.08U	9.39	4.88	0.08U
	RFR-11	6/2/2014	0.12U	0.07U	0.08U	0.69F	2.38	0.08U
	RFR-12	6/3/2014	0.12U	0.07U	0.08U	0.06U	0.67F	0.08U
	RFR-13	6/10/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	RFR-13 FD	6/10/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
RFR-14	6/6/2014	0.12U	0.07U	0.08U	0.14F	0.05U	0.08U	
Scenic Loop Drive	SLD-01	6/10/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
	SLD-02	6/10/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
Laboratory Detection Limits & Maximum Contaminant Level								
Method Detection Limit (MDL)			0.12	0.07	0.08	0.06	0.05	0.08
Reporting Limit (RL)			1.2	1.2	0.6	1.4	1	1.1
Max. Contaminant Level (MCL)			7	70	100	5	5	2

BOLD	≥ MDL
BOLD	≥ RL
BOLD	≥ MCL

All samples were analyzed by APPL, Inc.
VOC data reported in ug/L.
Abbreviations/Notes:
FD Field Duplicate
TCE Trichloroethene
PCE Tetrachloroethene
DCE Dichloroethene
Data Qualifiers:
--The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
F-The analyte was positively identified but the associated numerical value is below the RL.

Attachment 4
September 2014 Quarterly On-Post Groundwater Monitoring Analytical Results

Well ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Zinc	Mercury
CS-MW1-LGR	9/8/2014	NA	NA	0.0005U	0.0035F	NA	0.0019U	NA	0.0001U
CS-MW1-LGR FD	9/8/2014	NA	NA	0.0005U	0.0037F	NA	0.0019U	NA	0.0001U
CS-MW1-CC	9/8/2014	NA	NA	0.0005U	0.0011F	NA	0.0019U	NA	0.0001U
CS-MW2-LGR	9/8/2014	NA	NA	0.0005U	0.0012F	NA	0.0019U	NA	0.0001U
CS-MW8-LGR	9/4/2014	NA	NA	0.0005U	0.0016F	NA	0.0019U	NA	0.0001U
CS-MW11A-LGR	9/8/2014	NA	NA	0.0005U	0.0041F	NA	0.0019U	NA	0.0001U
CS-MW21-LGR	9/8/2014	NA	NA	0.0005U	0.0010U	NA	0.0019U	NA	0.0001U
CS-MW24-LGR	9/8/2014	NA	NA	0.0005U	0.0017F	NA	0.0019U	NA	0.0001U
CS-MW35-LGR	9/9/2014	NA	NA	0.0005U	0.0020F	NA	0.0019U	NA	0.0001U
CS-MW36-LGR	9/9/2014	NA	NA	0.0005U	0.0011F	NA	0.0019U	NA	0.0001U
CSSA Drinking Water Well System									
CS-1	9/9/2014	0.0005F	0.0355	0.0005U	0.0010U	0.003U	0.0019U	0.282	0.0001U
CS-10	9/17/2014	0.0021F	0.0385	0.0005U	0.0010U	0.016	0.0019U	0.133	0.0001U
CS-12	9/9/2014	0.0008F	0.0313	0.0005U	0.0010U	0.004F	0.0019U	0.08	0.0001U
CS-12 FD	9/9/2014	0.0002U	0.0316	0.0005U	0.0010U	0.006F	0.0019U	0.077	0.0001U
CS-13	9/9/2014	0.0044F	0.0331	0.0005U	0.0010U	0.003U	0.0019U	0.286	0.0001U

Well ID	Sample Date	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	Vinyl Chloride
CS-MW1-LGR	9/8/2014	0.12U	43.51	0.69	27.16	33.75	0.08U
CS-MW1-LGR FD	9/8/2014	0.12U	45.9	0.67	28.46	36.51	0.08U
CS-MW1-CC	9/8/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW2-LGR	9/8/2014	0.12U	0.61F	0.08U	0.06U	0.05U	0.08U
CS-MW8-LGR	9/4/2014	0.12U	0.07U	0.08U	1.54	0.05U	0.08U
CS-MW11A-LGR	9/8/2014	0.12U	0.07U	0.08U	0.97F	0.05U	0.08U
CS-MW21-LGR	9/8/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW24-LGR	9/8/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-MW35-LGR	9/9/2014	0.12U	0.07U	0.08U	0.35F	0.05U	0.08U
CS-MW36-LGR	9/9/2014	0.12U	0.63F	0.08U	16.3	22.55	0.08U
CSSA Drinking Water Well System							
CS-1	9/9/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-10	9/17/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-12	9/9/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-12 FD	9/9/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
CS-13	9/9/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U

BOLD	≥ MDL
BOLD	≥ RL
BOLD	≥ MCL

All samples were analyzed by APPL, Inc.
VOC data reported in ug/L & metals data reported in mg/L.

Abbreviations/Notes:

FD Field Duplicate
TCE Trichloroethene
PCE Tetrachloroethene
DCE Dichloroethene
AL Action Level
SS Secondary Standard
NA Not Analyzed for this parameter

Data Qualifiers:

U-The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
F-The analyte was positively identified but the associated numerical value is below the RL.

Attachment 4
September 2014 Quarterly Off-post Groundwater Analytical Results

Well ID	Sample Date	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	Vinyl Chloride
JW-20	9/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
JW-20 FD	9/4/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
LS-5	9/3/2014	0.12U	0.07U	0.08U	0.88F	3.14	0.08U
LS-5-A2	9/3/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
LS-6	9/3/2014	0.12U	0.07U	0.08U	0.80F	3.13	0.08U
LS-6-A2	9/3/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
LS-7	9/3/2014	0.12U	0.07U	0.08U	2.14	0.54F	0.08U
LS-7-A2	9/3/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
RFR-10	9/3/2014	0.12U	0.07U	0.08U	6.78	2.41	0.08U
RFR-10-A2	9/3/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
RFR-10-B2	9/3/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
RFR-11	9/3/2014	0.12U	0.07U	0.08U	0.73F	2.58	0.08U
RFR-11-A2	9/3/2014	0.12U	0.07U	0.08U	0.06U	0.05U	0.08U
SLD-01	9/4/2014	0.12U	0.07U	0.08U	0.09F	0.05U	0.08U

BOLD	≥ MDL
BOLD	≥ RL
BOLD	≥ MCL

All samples were analyzed by APPL, Inc.
VOC data reported in ug/L.

Abbreviations:

FD Field Duplicate
TCE Trichloroethene
PCE Tetrachloroethene
DCE Dichloroethene

Data Qualifiers:

U-The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
F-The analyte was positively identified but the associated numerical value is below the RL.