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LEGEND

- Burbank Operable Unit Boundary
- Former Operations Area
- Burbank Channel
- Monitoring Well (B-HSU)
- Extraction Well Observation Point (B-HSU)

Trend Category

- No Trend
- Stable Trend
- Decreasing Trend
- Increasing Trend
- (NS) Not Sampled
- (ND) Not Detected

NOTES:
1) All concentrations reported in micrograms per liter (µg/L).
2) The Water Quality Objective (WQO) for 1,2,3-Trichloropropane is 0.005 µg/L.
3) No 1,2,3-Trichloropropane results exceed the WQO in the B-HSU wells for this sampling round.
4) Trends determined from Mann-Kendall Analysis — See Appendix H.
5) In those wells where no trend is shown, Mann-Kendall testing was not possible due to a sample size less than 4, or because the analyte was never detected.

0 1,800 3,600
SCALE IN FEET

WELL SURVEY: KDM Meridian, Inc. (2012).
PROJECTION: NAD83 NSRS2007 State Plane California V FIPS0405 FT US

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BURBANK OPERABLE UNIT, BURBANK, CALIFORNIA

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1,2,3-Trichloropropane Concentration Trends in B-HSU Wells

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FIGURE 27

CITY: (KNOXVILLE) DIV/GROUP: (ENVIGIS) DB: (B-ALTOM) LD: (B-ALTOM) PC: (BLOHER) PM: (E-GAISER) TM: (E-GAISER)
PROJECT: B0038189.0000.00004 PATH: G:\GIS\Located Maps\Burbank\Maps\2012\2Q\S-GW-MOnd\F27 BCU_2SAGW 2012Q TCP B-HSU TREND.mxd DATE SAVED: 12/31/2012 3:00:00 AM

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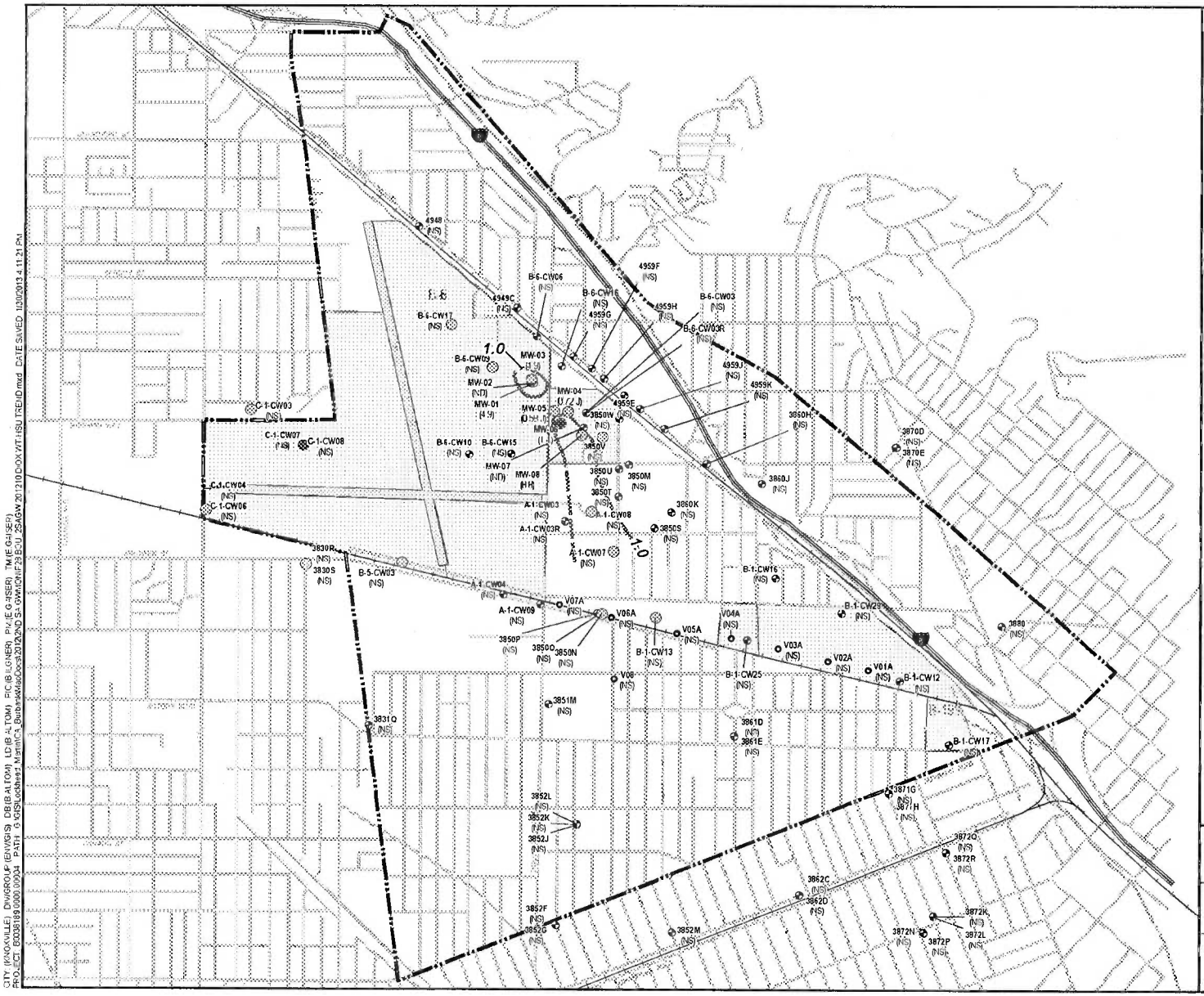

LEGEND

- Burbank Operable Unit Boundary
- Former Operations Area
- Burbank Channel
- Monitoring Well (WT-HSU)
- Extraction Well Observation Point (WT-HSU)
- 1.4-Dioxane Isocontour (µg/L)
- (inferred where dashed)

Trend Category

- No Trend
- Stable Trend
- Decreasing Trend
- Increasing Trend
- (NS) Not Sampled
- (ND) Not Detected
- (8.8) 1,4-Dioxane Concentration (µg/L)

NOTES:
1) All concentrations reported in micrograms per liter (µg/L).
2) The Water Qualtiy Objective (WQO) for 1,4-Dioxane is 1.0 µg/L.
3) Trends determined from Mann-Kendall Analysis — See Appendix H.
4) In those wells where no trend is shown, Mann-Kendall testing was not possible due to a sample size less than 4, or because the analyte was never detected.
5) Isocontours based on October 2012 monitoring event data.

0 1,800 3,600
SCALE IN FEET

WELL SURVEY: KDM Meridian, Inc. (2012).
PROJECTION: NAD83 NSRS2007 State Plane California V FIPS0405 FT US

LOCKHEED MARTIN CORPORATION
BURBANK OPERABLE UNIT, BURBANK, CALIFORNIA
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1,4-Dioxane Concentration Trends in WT-HSU Wells

ARCADIS

FIGURE **28**

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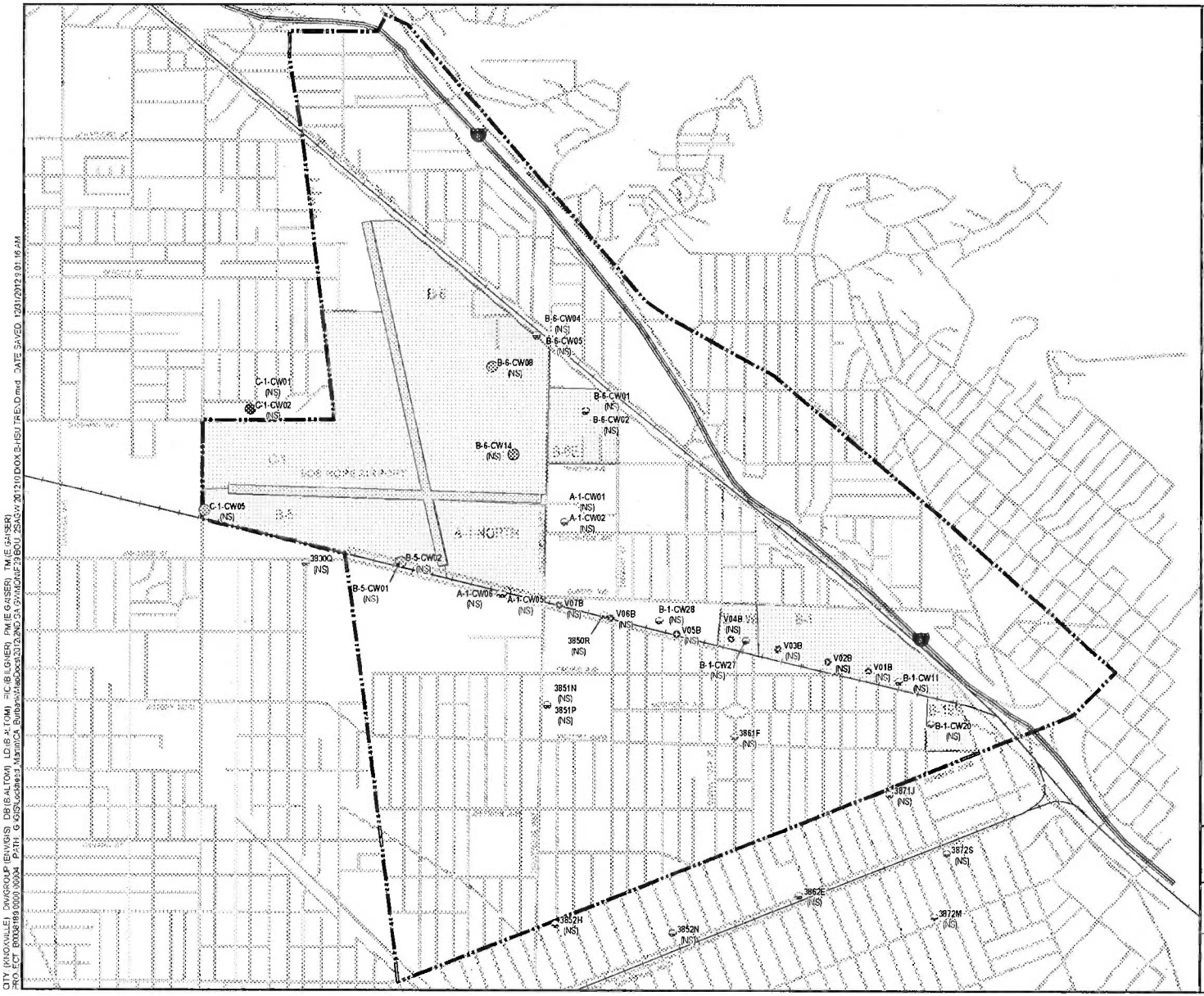

LEGEND

- Burbank Operable Unit Boundary
- Former Operations Area
- Burbank Channel
- Monitoring Well (B-HSU)
- Extraction Well Observation Point (B-HSU)

Trend Category

- No Trend
- Stable Trend
- Decreasing Trend
- Increasing Trend
- (NS) Not Sampled

NOTES:
1) All concentrations reported in micrograms per liter (µg/L).
2) The Water Quality Objective (WQO) for 1,4-Dioxane is 1.0 µg/L.
3) 1,4-Dioxane was not sampled in the B-HSU wells for this sampling round.
4) Trends determined from Mann-Kendall Analysis — See Appendix H.
5) In those wells where no trend is shown, Mann-Kendall testing was not possible due to a sample size less than 4, or because the analyte was never detected.

0 1,800 3,600
SCALE IN FEET

WELL SURVEY: KDM Meridian, Inc. (2012).
PROJECTION: NAD83 NSRS2007 State Plane California V FIPS0405 FT US

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2ND SEMIANNUAL GROUNDWATER REPORT, 2012

1,4-Dioxane Concentration Trends in B-HSU Wells

ARCADIS

FIGURE
29

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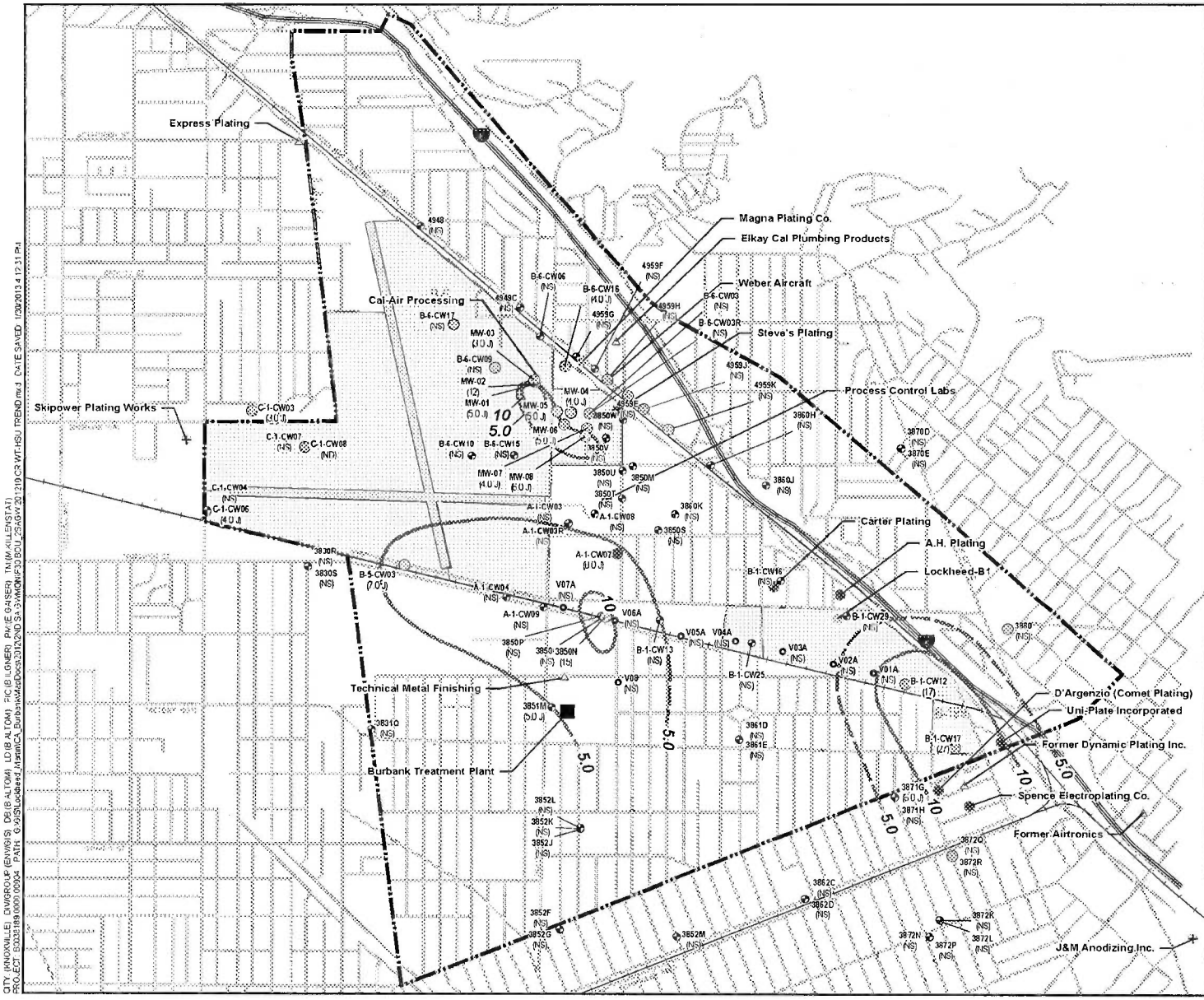

LEGEND

- Burbank Operable Unit Boundary
- Former Operations Area
- Burbank Channel
- Remedial Facility Treatment Plant
- Suspected Contamination (No Field Data)
- Soil Characterization
- Soil and Groundwater Characterization
- Partial Removal Action Completed
- Suspected Contamination (No Field Data), RWQBC Enforcement
- Suspected Contamination (No Field Data), Site Transferred to DTSC
- Monitoring Well (WT-HSU)
- Extraction Well Observation Point (WT-HSU)
- Total Chromium Isocontour (µg/L)
- (Inferred where dashed)

Trend Category

- No Trend
- Stable Trend
- Decreasing Trend
- Increasing Trend
- (NS) Not Sampled
- (ND) Not Detected
- (17) Total Chromium Concentration (µg/L)
- J Indicates value is estimated

NOTES:
1) All concentrations reported in micrograms per liter (µg/L).
2) The Water Quality Objective (WQO) for Total Chromium is 50 µg/L.
3) No Total Chromium results exceeded the WQO in the WT-HSU wells for this sampling round.
4) Trends determined from Mann-Kendall Analysis — See Appendix H.
5) In those wells where no trend is shown, Mann-Kendall testing was not possible due to a sample size less than 4, or because the analyte was never detected.
6) Isocontours based on October 2012 monitoring event data.

0 1,800 3,600
SCALE IN FEET

WELL SURVEY: KDM Meridian, Inc. (2012).
PROJECTION: NAD83 NSRS2007 State Plane California V FIPS0405 FT US

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Total Chromium Concentration Trends in WT-HSU Wells

ARCADIS

FIGURE **30**

LMC-PET-00000117

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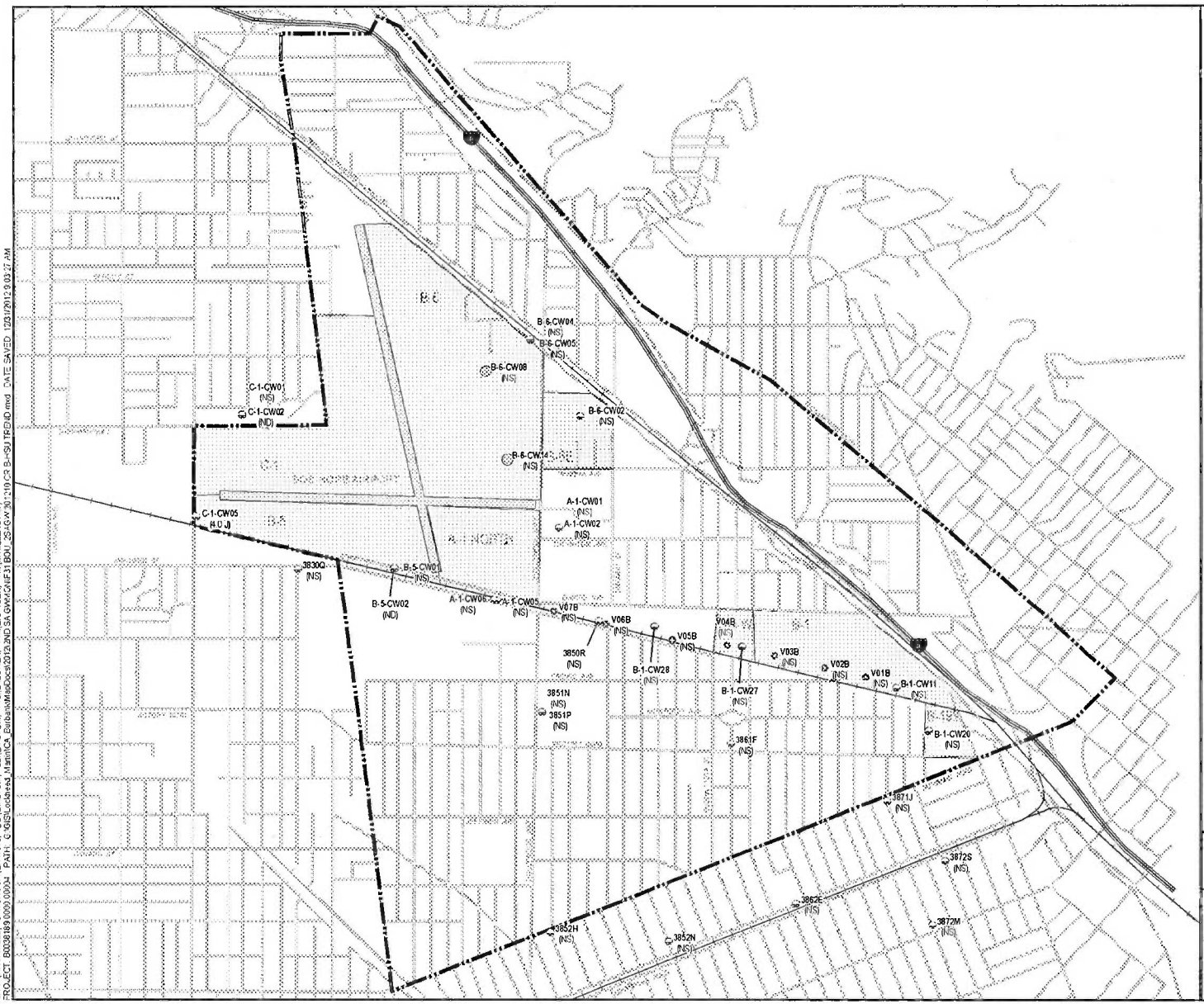

LEGEND

- Burbank Operable Unit Boundary
- Former Operations Area
- Burbank Channel
- Monitoring Well (B-HSU)
- Extraction Well Observation Point (B-HSU)

Trend Category

- No Trend
- Stable Trend
- Decreasing Trend
- Increasing Trend

(NS) Not Sampled

(ND) Not Detected

(4.0 J) Total Chromium Concentration (µg/L)

J Indicates value is estimated

NOTES:
1) All concentrations reported in micrograms per liter (µg/L).
2) The Water Quality Objective (WQO) for Total Chromium is 50 µg/L.
3) No Total Chromium results exceeded the WQO in the B-HSU wells for this sampling round.
4) Trends determined from Mann-Kendall Analysis — See Appendix H.
5) In those wells where no trend is shown, Mann-Kendall testing was not possible due to a sample size less than 4, or because the analyte was never detected.

0 1,800 3,600
SCALE IN FEET

WELL SURVEY: KDM Meridian, Inc. (2012).
PROJECTION: NAD83 NSRS2007 State Plane California V FIPS0405 FT US

LOCKHEED MARTIN CORPORATION
BURBANK OPERABLE UNIT, BURBANK, CALIFORNIA

2ND SEMIANNUAL GROUNDWATER REPORT, 2012

Total Chromium Concentration Trends in B-HSU Wells

ARCADIS

FIGURE 31

CITY (KNOXVILLE) DIV/GROUP (EHWICS) DB (B.ALTOM) LD (B.ALTOM) PIC (B.LOHER) PM (E.GAISER) TM (M.KULBHST-1)
PROJECT 80038189.0002.0000A PATH G:\Geo\Sites\Lockheed\Burbank_Burbank\Maps\2012\2ND SA GW\CAD\FIG\BOU_2SA GW 2012 TRENDS.mxd DATE SAVED 12/31/2012 9:03:27 AM

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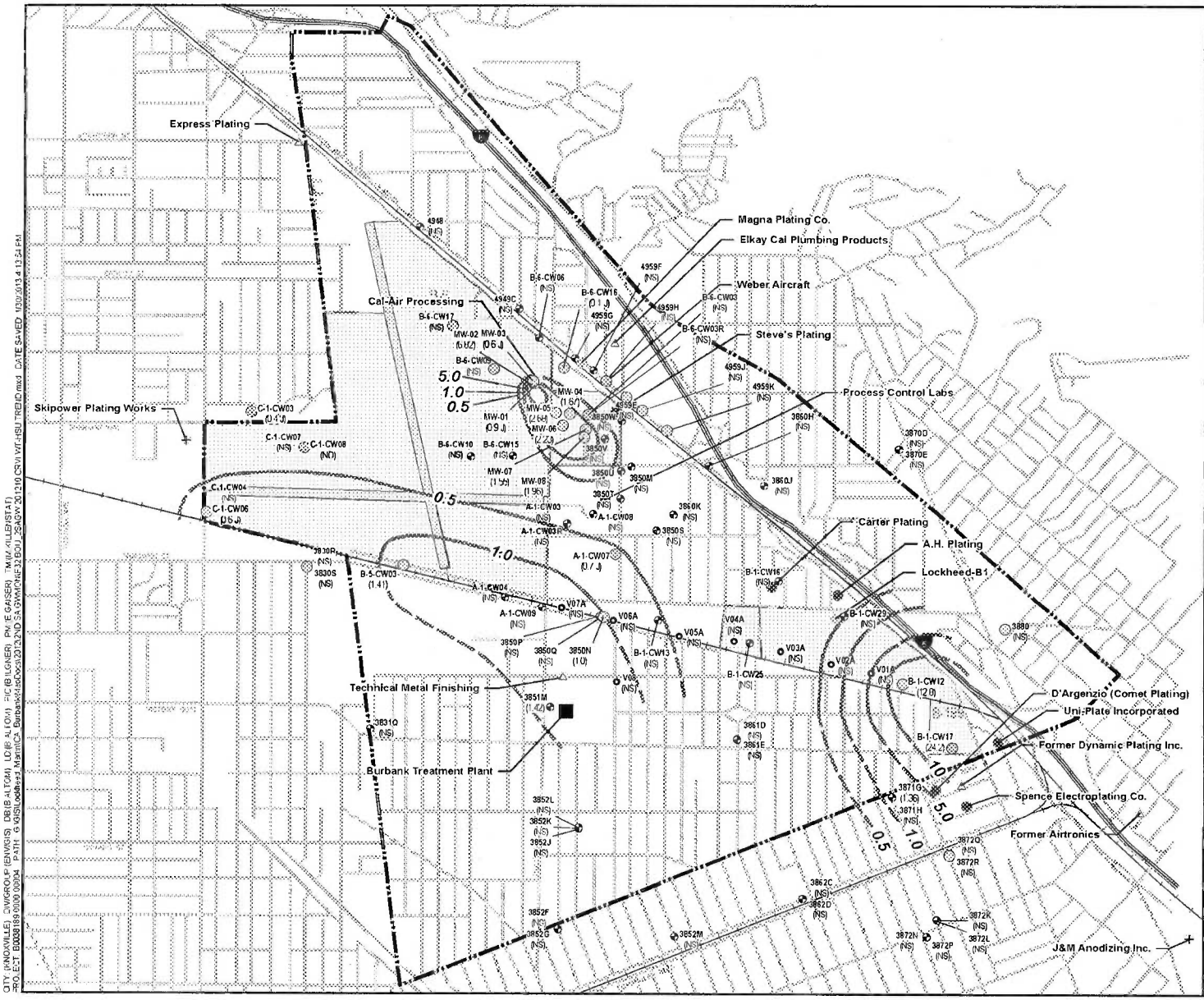

LEGEND

- Burbank Operable Unit Boundary
- Former Operations Area
- Burbank Channel
- Remedial Facility Treatment Plant
- Suspected Contamination (No Field Data)
- Soil Characterization
- Soil and Groundwater Characterization
- Partial Removal Action Completed
- Suspected Contamination (No Field Data), RWQBC Enforcement
- Suspected Contamination (No Field Data), Site Transferred to DTSC
- Monitoring Well (WT-HSU)
- Extraction Well Observation Point (WT-HSU)
- Hexavalent Chromium Isocontour (µg/L)
- (inferred where dashed)

Trend Category

- No Trend
- Stable Trend
- Decreasing Trend
- Increasing Trend

(NS) Not Sampled

(ND) Not Detected

(0.7) Hexavalent Chromium Concentration (µg/L)

NOTES:
1) All concentrations reported in micrograms per liter (µg/L).
2) The Water Quality Objective (WQO) for Hexavalent Chromium is 50 µg/L.
3) No Hexavalent Chromium results exceeded the WQO in the WT-HSU wells for this sampling round.
4) Trends determined from Mann-Kendall Analysis — See Appendix H.
5) In those wells where no trend is shown, Mann-Kendall testing was not possible due to a sample size less than 4, or because the analyte was never detected.
6) Isocontours based on October 2012 monitoring event data.

0 1,800 3,600
SCALE IN FEET

WELL SURVEY: KDM Meridian, Inc. (2012).
PROJECTION: NAD83 NSRS2007 State Plane California V FIPS0405 FT US

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BURBANK OPERABLE UNIT, BURBANK, CALIFORNIA

2ND SEMIANNUAL GROUNDWATER REPORT, 2012

Hexavalent Chromium Concentration Trends in WT-HSU Wells

ARCADIS

FIGURE 32

LMC-PET-00000119

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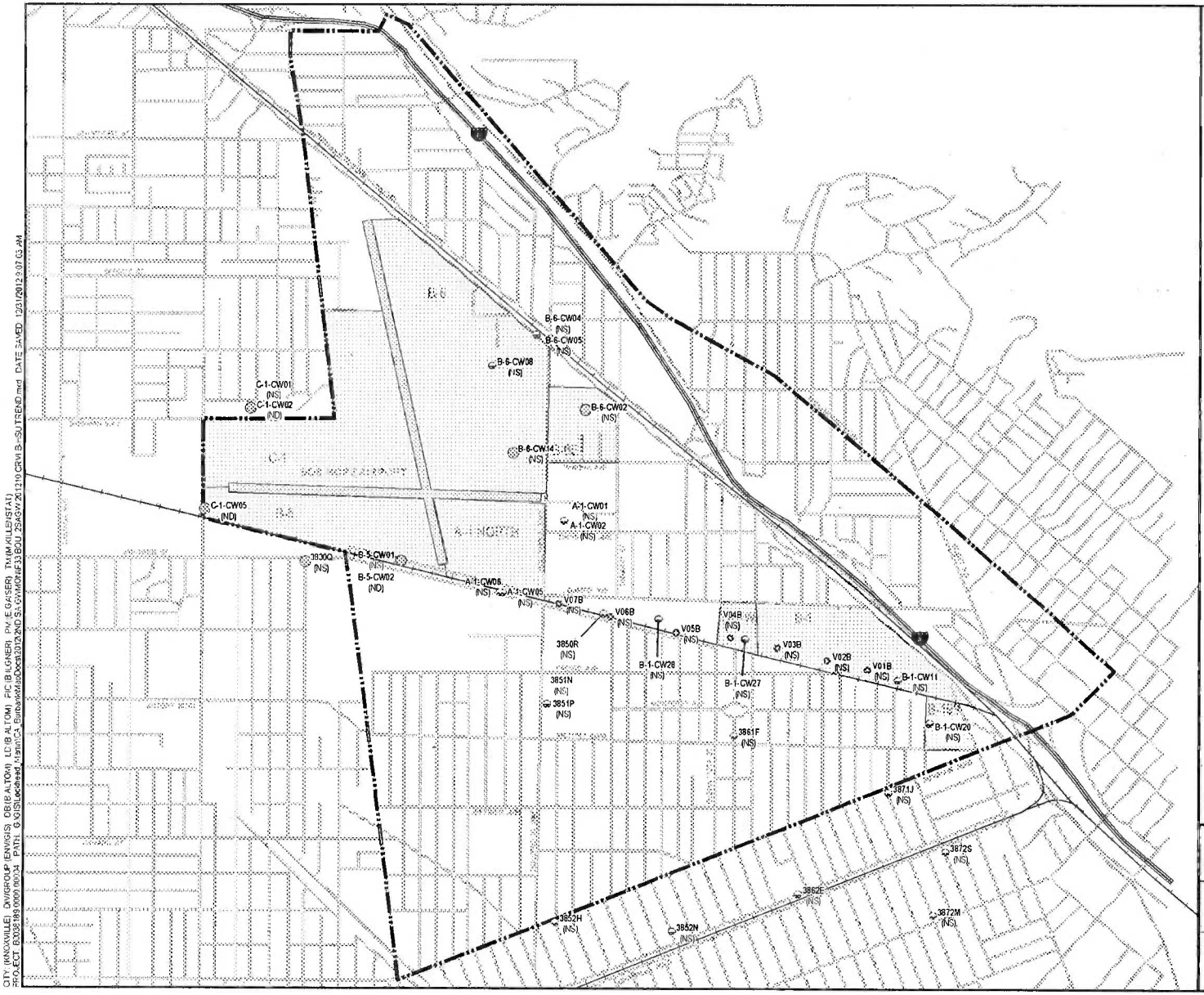

LEGEND

- Burbank Operable Unit Boundary
- Former Operations Area
- Burbank Channel
- Monitoring Well (B-HSU)
- Extraction Well Observation Point (B-HSU)

Trend Category

- No Trend
- Stable Trend
- Decreasing Trend
- Increasing Trend
- (NS) Not Sampled
- (ND) Not Detected

NOTES:
1) All concentrations reported in micrograms per liter (µg/L).
2) The Water Qualtiy Objective (WQO) for Hexavalent Chromium is 50 µg/L.
3) No Hexavalent Chromium results exceeded the WQO in the B-HSU wells for this sampling round.
4) Trends determined from Mann-Kendall Analysis — See Appendix H.
5) In those wells where no trend is shown, Mann-Kendall testing was not possible due to a sample size less than 4, or because the analyte was never detected.

0 1,800 3,600
SCALE IN FEET

WELL SURVEY: KDM Meridian, Inc. (2012).
PROJECTION: NAD83 NSRS2007 State Plane California V FIPS0405 FT US

LOCKHEED MARTIN CORPORATION
BURBANK OPERABLE UNIT, BURBANK, CALIFORNIA
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Hexavalent Chromium Concentration Trends in B-HSU Wells

ARCADIS

FIGURE
33

LMC-PET-00000120

Appendix A

Conceptual Site Model

Conceptual Site Model

The following sections present excerpts from the conceptual site model (CSM) developed for the Burbank Operable Unit (BOU) and presented in various Tetra Tech, Inc. (Tetra Tech) groundwater monitoring reports. The CSM, as presented, was based on the results and findings of previous investigations performed at the site. The main components of the CSM discussed are: physical setting, geology, hydrogeology, and groundwater quality.

1.1 PHYSICAL SETTING

The BOU is located in the southeastern portion of the San Fernando Valley (SFV) in the City of Burbank, California. The SFV is a triangular basin, roughly 226 square miles in area, located within the Transverse Ranges province in Southern California. The valley is bounded to the south by the Santa Monica Mountains, to the west-northwest by the Simi Hills, and to the east-northeast by the Verdugo and San Gabriel Mountains. Average rainfall within the SFV is approximately 17 inches per year[1].

1.2 GEOLOGY

The geology of the SFV increases in complexity with depth, a result of the tectonic forces native to the region. The stratigraphic column of the SFV area can be broken down to alluvial deposits (younger Holocene transitioning into older Pleistocene), overlying unconsolidated Pliocene-Pleistocene bedrock of marine and non-marine origin; overlying Tertiary marine sandstone, mudstone, and shale bedrock; overlying Mesozoic and older-age crystalline and metamorphic basement complex rocks.

The bedrock units crop out in the surrounding hills and mountains which form the valley boundaries. The eastern margin of the valley is bounded by the igneous and metamorphic rocks of the Verdugo Mountains, and the western edge of the valley is defined by the Simi Hills where sedimentary rock is exposed. The southern margin is defined by the Santa Monica Mountains where sedimentary and igneous rocks are exposed.

[1] California Department of Water Resources (CDWR). 2003. California's Groundwater: Bulletin, Update 2003, http://www.water.ca.gov/groundwater/bulletin118/update2003.cfm.

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The Quaternary alluvium beneath the BOU site consists of Holocene younger alluvium and Pleistocene older alluvium. The younger alluvium extends from ground surface to approximately 410 feet below ground surface (bgs), and the older alluvium extends from the base of the younger alluvium to more than 1,200 feet bgs[2]. The contact between the younger and older alluvium has been reported to be marked by a distinct basal cobble layer. The younger alluvium consists of coarse-grained sand, gravel, and cobbles interbedded with finer-grained units of sand, silty sand, sandy silt, silt, and clay. The units generally vary in elevation and thickness; the contacts between the units have a northeast-trending strike and dip towards the southeast. The lithology of the upper portion of the older alluvium varies from sand, gravel, and boulders in the northwestern portion of the site to interbedded silt and sand in the eastern and southern portions. The deeper portion of the older alluvium consists of silt and sand with interbedded gravel.

The northwest-trending Verdugo fault zone runs along the northeastern boundary of the BOU site. The fault zone has been interpreted as a low-permeability zone that can both impede and direct the flow of groundwater.

1.3 HYDROGEOLOGY

The San Fernando Basin is characterized as water-bearing alluvium that overlies a non-water-bearing bedrock complex of older sedimentary rock formations and crystalline and metamorphic basement complex rock. Groundwater enters the basin by infiltration of surface water runoff from the highlands, by deep penetration of rain on the valley floor, and by artificial means such as irrigation return or induced recharge. Outflow of groundwater from the basin is through groundwater extraction and a small amount of flow (surface and groundwater) through the Los Angeles Narrows (located southeast of the BOU site). Groundwater in the eastern portion of the San Fernando Basin flows mainly through two sedimentary units: the Pleistocene older alluvium and the Holocene younger alluvium. The aquifer in the older alluvium has been observed to be locally semi-confined to confined by clay and silt units, whereas the aquifer in the younger alluvium is generally unconfined to semi-confined depending on the location and thickness of the fine-grained units[2].

[2] HSI Geotrans. 1997. Draft Phase 2 Operational Sampling Plan, Burbank Operable Unit, Burbank, California. Prepared for Lockheed Martin, 2550 North Hollywood Way, Suite 306, Burbank, California 91505.

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The aquifer in the younger alluvium within the BOU site has been divided into five hydrostratigraphic units (HSUs) based on electrical resistivity responses in geophysical logs[3,4]. The five HSUs of the younger alluvium are identified from upper to lower as A′, X, A, Y, and B. The A′, A, and B HSUs are generally composed of coarser-grained material (coarse-grained sand, gravel, and cobbles). The X and Y HSUs separate the three HSUs listed above (A′, A, B) and consist of relatively finer-grained material (sand, silty sand, and silt). Based on the stratigraphic position of the units and the groundwater gradient; the A′, X, or A HSU may locally represent water table conditions depending on geographic location within the site area and are collectively referred to as water table (WT) HSUs[5].

The five HSUs of the younger alluvium are encountered throughout much of the southeastern San Fernando Basin. However, during the 1991 installation of groundwater monitoring wells 3860J, 3870D, 3870E, and 3880 northeast of the BOU site, boring data and geophysical logs confirmed the absence of the five HSUs and identified finer-grained silty sands and sandy silts[3]. Based on these data, a separate unit with distinct lithology was identified as the K HSU (also considered a WT HSU).

1.4 GROUNDWATER QUALITY AND SELECTION OF CPOCS

Water quality data from the United States Environmental Protection Agency (USEPA) San Fernando Valley database have been previously evaluated to determine which analytes should be classified as constituents of potential concern (COPCs). The evaluation was previously submitted to USEPA in Revised Phase 2 Operational Sampling Plan - Burbank Operable Unit[6].

Based on the prior analysis of historical data, the following analytes have been selected as primary COPCs for the BOU site: tetrachloroethene (PCE), trichloroethene (TCE), 1,2,3-trichloropropane (1,2,3-TCP), and hexavalent chromium. Nitrate is a secondary CPOC, and other constituents (metals and general minerals) will be measured biennially to verify or monitor that conditions are not changing.

[3] Hargis & Associates. 1991. Installation of Groundwater Monitoring Wells Along Vanowen Street, Lockheed Engineering and Science Company, Burbank, California.

[4] Simon Hydro search. 1993. Phase I Final Remedial Design Report, Burbank Operable Unit, Volumes V & VI prepared for LESAT, September 30.

[5] Earth Tech. 2000. Analysis of Groundwater Level Changes at the Burbank Operable Unit Extraction and Treatment Facility, Lockheed Martin Corporation, Burbank, California; Prepared for Lockheed Martin Corporation, Burbank Program Office, 2550 N. Hollywood Way, Suite 301, Burbank, California 91505.

6 Tetra Tech. 2004. Revised Phase 2 Operational Sampling Plan - Burbank Operable Unit. Prepared for Lockheed Martin.

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Appendix B

Field Procedures

Field Procedures

1.1 WELL GAUGING

Prior to gauging, the surface completion, well box, and riser of each well were inspected for signs of tampering, vandalism, wear, and general condition. Following visual inspection, the depth to groundwater in each monitoring well was measured using a water level meter attached to a measuring tape graduated to 0.01 foot and adjusted for the length of the probe. For consistency between monitoring events, measurements were made from reference points marked on or notched into the risers at the tops of the casings (if present).

1.2 WELL PURGING AND SAMPLING

Immediately prior to sampling, all but two wells (B-6-CW14 and 4959E) were purged a minimum of three (3) well casing volumes using the dedicated pumps installed in the wells. Explanations why wells B-6-CW14 and 4959E were not purged a minimum of 3 casing volumes are presented in Section 2.4. During well purging, pH, temperature, electrical conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential of the extracted groundwater were measured using a water quality meter.

Purging was considered complete when at least 3 well casing volumes of groundwater had been removed and field parameters had demonstrated stabilization. Field parameters were considered to have stabilized when three consecutive readings taken at least 3 minutes apart met the following criteria:

- pH ± 0.1 standard units
- electrical conductivity ±3%
- oxidation-reduction potential ±10 millivolts
- temperature ±3% (minimum of ±0.2 degree Celsius)
- dissolved oxygen ±10% or ±0.2 milligram per liter (mg/L) (whichever is greater)
- turbidity ±10% (less than 10 Nephelometric Turbidity Units [NTU])

Following purging, groundwater samples were collected directly from the dedicated pump discharge piping at each monitoring well into laboratory-supplied, method-appropriate containers in order of decreasing volatilization potential. Sample containers were labeled by location, sample depth, date, and time, placed in resealable plastic bags, stored in ice-chilled coolers at or below a temperature of 4 degrees Celsius, and submitted under proper chain-of-custody documentation to Associated Laboratories, a California Department of Public Health (CDPH)-accredited environmental laboratory, located in Orange, California.

1.3 EQUIPMENT DECONTAMINATION AND INVESTIGATION DERIVED WASTE HANDLING

All re-useable sampling equipment, including the electronic water level meter, was decontaminated between monitoring wells following a triple-rinse procedure consisting of a non-phosphate detergent and distilled water wash solution followed by two distilled water rinses. All decontamination fluids and purged groundwater were contained and transported in a portable tank and transferred to the BOU treatment plant for treatment and disposal, via the NPDES permit, in the Tank 600 stormwater treatment system. Approximately 6,905 gallons of groundwater were purged from the monitoring wells during this sampling event. The decontamination and investigation derived waste management activities were performed in accordance with the SOPs presented in the Draft Phase 2 OSP.

Appendix C

Electronic Data Gathering Environment (EDGE) Data Forms

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Summary of Water Level Measurements - Lockheed Martin-BOU

Location ID	Well ID	Meas. Date	Meas. Time	Ref. Elevation	Depth to Water (bmp)	Depth of Well (bmp)	Depth Unit	Remark	Technician	Approved	Appr. Date	Approved By	Exported	Exported Date
3830Q	3830Q	10/09/2012	9:54 am	702.56	208.14		Ft		Howard Armstrong				False	
3830R	3830R	10/09/2012	10:40 am		208.03		Ft		Howard Armstrong				False	
3830S	3830S	10/09/2012	10:40 am	702.37	208.22		Ft		Howard Armstrong				False	
3831Q	3831Q	10/09/2012	9:36 am		173.35		Ft	PID@0	Jesse Estrada				False	
3850M	3850M	10/09/2012	7:37 am	684.67	207.52		Ft		Howard Armstrong				False	
3850N	3850N	10/10/2012	11:36 am	658.07	193.15		Ft		Howard Armstrong				False	
3850N	3850N	10/10/2012	11:17 am	658.07	139.52		Ft		Howard Armstrong				False	
3850Q	3850Q	10/10/2012	11:28 am		179.33		Ft	PID@0	Heather Tauscher				False	
3850R	3850R	10/10/2012	11:16 am	657.49	179.61		Ft	PID@0	Heather Tauscher				False	
3850S	3850S	10/09/2012	12:04 pm	668.04	195.98		Ft		Howard Armstrong				False	
3850T	3850T	10/08/2012	2:08 pm	680.30	204.61		Ft		Howard Armstrong				False	
3850U	3850U	10/08/2012	1:49 pm	684.83	207.35		Ft		Howard Armstrong				False	
3850V	3850V	10/08/2012	12:46 pm	693.20	211.42		Ft		Howard Armstrong				False	
3850W	3850W	10/09/2012	7:47 am	693.01	212.12		Ft		Howard Armstrong				False	
3851M	3851M	10/08/2012	8:58 am	650.35	172.85		Ft	Pid @ O	Jesse Estrada				False	
3851N	3851N	10/08/2012	9:15 am	650.10	171.61		Ft	Pid@0	Jesse Estrada				False	
3851P	3851P	10/09/2012	8:02 am		167.59		Ft	Pid@0	Jesse Estrada				False	
3852F	3852F	10/08/2012	9:39 am	607.65	133.68		Ft	pid@0	Jesse Estrada				False	
3852G	3852G	10/08/2012	9:26 am	607.85	133.54		Ft	pid@0	Jesse Estrada				False	
3852H	3852H	10/08/2012	9:57 am	607.93	133.72		Ft	pid@0	Jesse Estrada				False	
3852J	3852J	10/09/2012	9:19 am		143.08		Ft	PID@-0	Jesse Estrada				False	
3852K	3852K	10/08/2012	10:17 am	623.08	144.05		Ft	pid@0	Jesse Estrada				False	

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Summary of Water Level Measurements - Lockheed Martin-BOU

Location ID	Well ID	Meas. Date	Meas. Time	Ref. Elevation	Depth to Water (bmp)	Depth of Well (bmp)	Depth Unit	Remark	Technician	Approved	Appr. Date	Approved By	Exported	Exported Date
3852L	3852L	10/08/2012	9:58 am	623.05	145.24		Ft	pid@0	Jesse Estrada				False	
3852M	3852M	10/08/2012	10:27 am	593.45	121.82		Ft	pid@0	Jesse Estrada				False	
3852N	3852N	10/08/2012	10:55 am	593.47	122.93		Ft	Pid@0	Jesse Estrada				False	
3860H	3860H	10/08/2012	8:36 am	674.85	227.00	200.90	Ft		Howard Armstrong				False	
3860J	3860J	10/08/2012	9:48 am	660.22	188.30		Ft		Howard Armstrong				False	
3860K	3860K	10/08/2012	2:09 pm	667.57	195.12		Ft		Howard Armstrong				False	
3861D	3861D	10/08/2012	2:28 pm	617.88	150.53		Ft	PID@0	Jesse Estrada				False	
3861E	3861E	10/09/2012	9:02 am		35.04		Ft	PID@0	Jesse Estrada				False	
3861F	3861F	10/08/2012	2:28 pm	617.46	143.78		Ft	PID@0	Jesse Estrada				False	
3862C	3862C	10/08/2012	11:17 am	587.57	118.60		Ft	PID@0	Jesse Estrada				False	
3862D	3862D	10/08/2012	11:04 am	587.50	119.28		Ft	pid@0	Jesse Estrada				False	
3862E	3862E	10/08/2012	11:28 am	587.35	113.59		Ft	PID@0	Jesse Estrada				False	
3870D	3870D	10/08/2012	10:45 am	639.78	151.27		Ft		Howard Armstrong				False	
3870E	3870E	10/08/2012	10:20 am		150.53		Ft		Howard Armstrong				False	
3871G	3871G	10/09/2012	8:49 am	591.86	124.97		Ft	PID@2.8	Jesse Estrada				False	
3871H	3871H	10/08/2012	1:27 pm	591.34	124.17		Ft	PID@1'8	Jesse Estrada				False	
3871J	3871J	10/09/2012	8:58 am	591.14	117.11		Ft	PID@0	Jesse Estrada				False	
3872K	3872K	10/08/2012	11:48 am	564.61	97.60		Ft	PID@0	Jesse Estrada				False	
3872L	3872L	10/08/2012	12:00 pm		98.24		Ft	PID@0	Jesse Estrada				False	
3872M	3872M	10/08/2012	12:06 pm	564.35	90.52		Ft	PID@1.2	Jesse Estrada				False	
3872N	3872N	10/08/2012	11:44 am		96.04		Ft	PID@0	Jesse Estrada				False	
3872P	3872P	10/08/2012	11:32 am		95.36		Ft	PID@0	Jesse Estrada				False	

LMC-PET-00000130

CONFIDENTIAL

Summary of Water Level Measurements - Lockheed Martin-BOU

Location ID	Well ID	Meas. Date	Meas. Time	Ref. Elevation	Depth to Water (bmp)	Depth of Well (bmp)	Depth Unit	Remark	Technician	Approved	Appr. Date	Approved By	Exported	Exported Date
3872Q	3872Q	10/08/2012	12:11 pm	575.25	108.78		Ft	PID@0	Jesse Estrada				False	
3872R	3872R	10/09/2012	8:04 am		108.07		Ft	PID@0	Jesse Estrada				False	
3872S	3872S	10/09/2012	8:30 am	574.95	101.26		Ft	PID@0	Jesse Estrada				False	
3880	3880	10/08/2012	10:57 am	620.06	145.31		Ft		Howard Armstrong				False	
4948	4948	10/11/2012	8:59 am	763.46	255.71		Ft		Howard Armstrong				False	
4949C	4949C	10/11/2012	9:01 am	733.32	238.13		Ft		Howard Armstrong				False	
4959E	4959E	10/08/2012	9:41 am	699.59	223.10		Ft		Howard Armstrong				False	
4959E	4959E	10/08/2012	9:17 am	699.59	217.46		Ft		Howard Armstrong				False	
4959G	4959G	10/11/2012	9:02 am	713.62	255.46		Ft		Howard Armstrong				False	
4959H	4959H	10/08/2012	9:30 am	704.76	220.34		Ft		Howard Armstrong				False	
4959J	4959J	10/08/2012	9:14 am	695.73	215.26	0.00	Ft		Howard Armstrong				False	
4959K	4959K	10/08/2012	8:41 am	689.10	211.29	211.29	Ft		Howard Armstrong				False	
A-1-CW01	A-1-CW01	10/09/2012	1:51 pm				Ft	Pid@0	Heather Tauscher				False	
A-1-CW02	A-1-CW02	10/09/2012	1:47 pm	684.64	201.31		Ft	Pid@0	Heather Tauscher				False	
A-1-CW03R	A-1-CW03 R	10/09/2012	1:49 pm		207.73		Ft	Pid@0	Heather Tauscher				False	
A-1-CW04	A-1-CW04	10/09/2012	3:09 pm	677.81	6.00	7.50	Ft		Howard Armstrong				False	
A-1-CW04	A-1-CW04	10/09/2012	2:39 pm	677.81	197.12		Ft		Howard Armstrong				False	
A-1-CW05	A-1-CW05	10/09/2012	3:07 pm	677.91	194.75		Ft		Howard Armstrong				False	
A-1-CW06	A-1-CW06	10/09/2012	3:09 pm		185.33		Ft		Howard Armstrong				False	
A-1-CW07	A-1-CW07	10/09/2012	11:29 am	674.35	202.34		Ft		Howard Armstrong				False	
A-1-CW08	A-1-CW08	10/09/2012	1:27 pm	682.74	206.64		Ft		Howard Armstrong				False	
A-1-CW09	A-1-CW09	10/09/2012	2:09 pm	673.80	200.19		Ft		Howard Armstrong				False	

LMC-PET-00000131

CONFIDENTIAL

Summary of Water Level Measurements - Lockheed Martin-BOU

Location ID	Well ID	Meas. Date	Meas. Time	Ref. Elevation	Depth to Water (bmp)	Depth of Well (bmp)	Depth Unit	Remark	Technician	Approved	Appr. Date	Approved By	Exported	Exported Date
B-1-CW11	B-1-CW11	10/09/2012	4:01 pm	610.05	134.40		Ft		Howard Armstrong				False	
B-1-CW12	B-1-CW12	10/09/2012	3:10 pm	609.85	144.98		Ft		Howard Armstrong				False	
B-1-CW13	B-1-CW13	10/08/2012	2:53 pm	651.49	185.04		Ft		Howard Armstrong				False	
B-1-CW16	B-1-CW16	10/08/2012	2:37 pm	639.07	173.29		Ft		Howard Armstrong				False	
B-1-CW17	B-1-CW17	10/09/2012	8:35 am	596.35	129.72		Ft	PID@0	Jesse Estrada				False	
B-1-CW20	B-1-CW20	10/08/2012	1:03 pm	600.23	124.84		Ft	PID@2.1	Jesse Estrada				False	
B-1-CW25	B-1-CW25	10/09/2012	2:37 pm	636.54	176.17		Ft		Heather Tauscher				False	
B-1-CW27	B-1-CW27	10/09/2012	2:39 pm	636.93	161.79		Ft	Pid@0	Heather Tauscher				False	
B-1-CW28	B-1-CW28	10/08/2012	3:06 pm	650.15	173.75		Ft		Howard Armstrong				False	
B-1-CW29	B-1-CW29	10/09/2012	3:11 pm	623.12	142.38		Ft	Pid@0	Heather Tauscher				False	
B-5-CW01	B-5-CW01	10/09/2012	10:48 am		202.55		Ft		Howard Armstrong				False	
B-5-CW02	B-5-CW02	10/09/2012	11:26 am	697.67	208.14		Ft		Howard Armstrong				False	
B-5-CW03	B-5-CW03	10/09/2012	11:27 am	697.26	207.76		Ft		Howard Armstrong				False	
B-6-CW01	B-6-CW01	10/08/2012	1:03 pm	699.99	199.07		Ft		Howard Armstrong				False	
B-6-CW02	B-6-CW02	10/08/2012	1:24 pm	699.99	208.31		Ft		Howard Armstrong				False	
B-6-CW03	B-6-CW03	10/08/2012	1:33 pm	699.89	0.00	216.35	Ft		Howard Armstrong				False	
B-6-CW03R	B-6-CW03 R	10/08/2012	1:34 pm	699.76	216.07		Ft		Howard Armstrong				False	
B-6-CW04	B-6-CW04	10/09/2012	8:19 am		226.71		Ft		Howard Armstrong				False	
B-6-CW05	B-6-CW05	10/09/2012	7:48 am	725.42	230.29		Ft		Howard Armstrong				False	
B-6-CW06	B-6-CW06	10/09/2012	8:17 am	725.51	0.00	244.50	Ft		Howard Armstrong				False	
B-6-CW08	B-6-CW08	10/08/2012	11:53 am	727.06	232.08		Ft		Howard Armstrong				False	
B-6-CW09	B-6-CW09	10/08/2012	11:44 am	727.04	234.08		Ft		Howard Armstrong				False	

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Summary of Water Level Measurements - Lockheed Martin-BOU

Location ID	Well ID	Meas. Date	Meas. Time	Ref. Elevation	Depth to Water (bmp)	Depth of Well (bmp)	Depth Unit	Remark	Technician	Approved	Appr. Date	Approved By	Exported	Exported Date
B-6-CW10	B-6-CW10	10/09/2012	2:05 pm	710.11	220.85		Ft		Howard Armstrong				False	
B-6-CW14	B-6-CW14	10/09/2012	1:34 pm	704.79	213.75		Ft		Howard Armstrong				False	
B-6-CW15	B-6-CW15	10/09/2012	1:18 pm		203.66		Ft		Howard Armstrong				False	
B-6-CW16	B-6-CW16	10/08/2012	12:44 pm	714.62	226.07		Ft		Howard Armstrong				False	
B-6-CW17	B-6-CW17	10/08/2012	11:09 am	742.39	244.91		Ft		Howard Armstrong				False	
C-1-CW02	C-1-CW02	10/09/2012	9:16 am	740.07	238.41		Ft		Howard Armstrong				False	
C-1-CW03	C-1-CW03	10/09/2012	9:18 am	740.39	23,878.0(		Ft		Howard Armstrong				False	
C-1-CW04	C-1-CW04	10/09/2012	9:19 am		218.79		Ft		Howard Armstrong				False	
C-1-CW05	C-1-CW05	10/09/2012	9:52 am	720.87	221.10		Ft		Howard Armstrong				False	
C-1-CW06	C-1-CW06	10/09/2012	9:53 am	720.91	221.63		Ft		Howard Armstrong				False	
C-1-CW07	C-1-CW07	10/09/2012	8:56 am		233.21		Ft		Howard Armstrong				False	
C-1-CW08	C-1-CW08	10/09/2012	8:21 am	731.72	233.20		Ft		Howard Armstrong				False	
MW-02	MW-02	10/09/2012	12:03 pm		232.08		Ft	PID@0	Jesse Estrada				False	
MW-05	MW-05	10/09/2012	10:47 am		219.21		Ft	PID@0	Jesse Estrada				False	
MW-06	MW-06	10/09/2012	10:56 am		220.81		Ft	PID@0	Jesse Estrada				False	
MW-08	MW-08	10/09/2012	1:31 pm		221.08		Ft		Heather Tauscher				False	
MW-1	MW-1	10/09/2012	12:02 pm	719.39	230.91		Ft	PID@0	Jesse Estrada				False	
MW-3	MW-3	10/09/2012	12:06 pm	720.63	131.28		Ft	PID@0	Jesse Estrada				False	
MW-3	MW-3	10/11/2012	5:41 pm	720.63	231.26	0.00	Ft	Be carefll measuring tape got stuck in pump wures	Howard Armstrong				False	
MW-4	MW-4	10/09/2012	10:49 am		217.40		Ft	PID@	Jesse Estrada				False	
MW-7	MW-7	10/09/2012	1:13 pm	698.00	215.48		Ft	PID@0	Heather Tauscher				False	
OW-V01A	OW-V01A	10/10/2012	8:48 am	617.28	142.95		Ft		Howard Armstrong				False	

LMC-PET-00000133

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Summary of Water Level Measurements - Lockheed Martin-BOU

Location ID	Well ID	Meas. Date	Meas. Time	Ref. Elevation	Depth to Water (bmp)	Depth of Well (bmp)	Depth Unit	Remark	Technician	Approved	Appr. Date	Approved By	Exported	Exported Date
OW-V01B	OW-V01B	10/10/2012	8:57 am	617.35	152.82		Ft		Howard Armstrong				False	
OW-V02A	OW-V02A	10/10/2012	8:58 am	621.81	159.21		Ft		Howard Armstrong				False	
OW-V02B	OW-V02B	10/10/2012	9:09 am		159.04		Ft		Howard Armstrong				False	
OW-V02B	OW-V02B	10/10/2012	10:00 am		173.37		Ft		Howard Armstrong				False	
OW-V03B	OW-V03B	10/10/2012	10:00 am	627.81	175.47		Ft		Howard Armstrong				False	
OW-V04A	OW-V04A	10/10/2012	10:16 am	639.66	164.35		Ft		Howard Armstrong				False	
OW-V04B	OW-V04B	10/10/2012	11:00 am	639.72	157.52		Ft		Howard Armstrong				False	
OW-V04B	OW-V04B	10/10/2012	9:10 am	639.72	169.96		Ft		Howard Armstrong				False	
OW-V05B	OW-V05B	10/10/2012	9:28 am	645.68	180.08		Ft		Howard Armstrong				False	
OW-V06A	OW-V06A	10/10/2012	11:01 am	656.38	188.42		Ft		Howard Armstrong				False	
OW-V06B	OW-V06B	10/10/2012	11:16 am	656.45	195.61		Ft		Howard Armstrong				False	
OW-V07A	OW-V07A	10/10/2012	10:00 am		188.63		Ft		Howard Armstrong				False	
OW-V07A	OW-V07A	10/10/2012	10:15 am		204.40		Ft		Howard Armstrong				False	
OW-V08	OW-V08	10/10/2012	1:11 pm		172.55		Ft		Howard Armstrong				False	
PW-01	PW-01	10/08/2012	2:00 pm	611.96	142.18		Ft	PID@0	Jesse Estrada				False	
Tt-PW-02	Tt-PW-02	10/08/2012	1:46 pm		133.01		Ft	PID@0	Jesse Estrada				False	

LMC-PET-00000134

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Water Sampling Log

Location	MW-4	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	MW-4	Site Location	Burbank, CA
Date	10/15/2012	Sampling Personnel	Howard Armstrong
Time	Begin 11:48 End 11:48	Weather	Hot, Sunny
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	
Sounded Well Depth (ft bmp)	275.00 (installed)
Depth to Water (ft bmp)	212.40
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	62.60
Casing Diameter (in)	4.00
Gallons in Well	40.87
Gallons Pumped/Bailed Prior to Sampling	124.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 9:22 End 11:49
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	0.84
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	9:22	NA	0.00								NA
40.00	9:23	NA	0.07	6.78	0.73 mS/cm	22.31	7.14 mg/L	185.00	0.00	clear	NA
80.00	9:51	NA	0.14	6.94	0.73 mS/cm	22.53	5.90 mg/L	173.00	0.00	clear	NA
120.00	10:33	NA	0.19	7.08	0.72 mS/cm	22.90	6.56 mg/L	171.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft. 1-1/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2":= 0.50 6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	C-1-CW02	Project Name and No.	Lockheed Martin-BOU,
Sample ID	C-1-CW02(10-12-2012)	Site Location	Burbank, CA
Date	10/12/2012	Sampling Personnel	Heather Tauscher
Time	Begin 14:03 End 14:03	Weather	Muggy, Partly Cloudy
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	740.07
Sounded Well Depth (ft bmp)	392.00 (installed)
Depth to Water (ft bmp)	238.41
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	153.59
Casing Diameter (in)	5.00
Gallons in Well	156.66
Gallons Pumped/Bailed Prior to Sampling	489.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 13:19 End 14:04
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	10.87
Packer Pressure (psi)	NA
PID Reading	0.00

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	13:19	NA	0.00								NA
161.00	13:19	NA	0.20	7.74	0.55 mS/cm	21.52	2.23 mg/L	-116.00	94.10	yellow	NA
322.00	13:38	NA	0.39	7.61	0.54 mS/cm	20.98	0.41 mg/L	-82.00	14.60	clear	NA
483.00	14:02	NA	0.57	7.10	0.55 mS/cm	20.29	0.36 mg/L	-73.00	9.20	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Heather Tauscher Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-1-CW20	Project Name and No.	Lockheed Martin-BOU,
Sample ID	B-1-CW20(10-13-2012)	Site Location	Burbank, CA
Date	10/13/2012	Sampling Personnel	Heather Tauscher
Time	Begin 9:22 End 9:22	Weather	Cool, Partly Cloudy
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	600.23
Sounded Well Depth (ft bmp)	310.00 (installed)
Depth to Water (ft bmp)	124.84
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	185.16
Casing Diameter (in)	5.00
Gallons in Well	188.86
Gallons Pumped/Bailed Prior to Sampling	595.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 8:21 End 9:15
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	11.02
Packer Pressure (psi)	NA
PID Reading	0.00

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	8:21	NA	0.00								NA
185.00	8:33	NA	0.36	8.28	0.57 mS/cm	18.40	2.99 mg/L	59.00	14.80	clear	NA
389.00	8:53	NA	0.73	7.88	0.68 mS/cm	19.20	4.72 mg/L	3.00	7.40	clear	NA
583.00	9:13	NA	1.05	7.62	0.70 mS/cm	19.37	4.37 mg/L	16.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Heather Tauscher Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	C-1-CW03	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	C-1-CW03	Site Location	Burbank, CA
Date	10/12/2012	Sampling Personnel	Howard Armstrong
Time	Begin 13:30 End 13:30	Weather	Sunny
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	740.39
Sounded Well Depth (ft bmp)	280.00 (installed)
Depth to Water (ft bmp)	238.81
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	41.19
Casing Diameter (in)	5.00
Gallons in Well	42.01
Gallons Pumped/Bailed Prior to Sampling	145.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 12:42 End 13:32
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	2.90
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
0.00	12:42	NA	0.00								NA
43.00	12:43	NA	0.06	8.20	0.70 mS/cm	21.50	**3.25 mg/L**	134.00	159.00	orange	NA
86.00	12:52	NA	0.11	8.09	0.68 mS/cm	20.50	7.25 mg/L	124.00	77.60	orange	NA
129.00	12:59	NA	0.17	8.08	0.68 mS/cm	20.50	6.27 mg/L	123.00	40.80	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-5-CW03	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	B-5-CW03	Site Location	Burbank, CA
Date	10/12/2012	Sampling Personnel	Howard Armstrong
Time	Begin 15:07 End 15:07	Weather	Cloudy
Replicate #	B-4-CW03 DUP		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	697.26
Sounded Well Depth (ft bmp)	231.00 (installed)
Depth to Water (ft bmp)	207.76
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	23.24
Casing Diameter (in)	5.00
Gallons in Well	23.70
Gallons Pumped/Bailed Prior to Sampling	98.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 14:54 End 15:11
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	5.76
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	14:54	3,611.00	0.00								NA
24.00	14:59	NA	0.03	8.03	0.77 mS/cm	20.39	5.21 mg/L	135.00	39.10	clear	NA
48.00	15:03	NA	0.05	7.92	0.77 mS/cm	20.39	6.42 mg/L	135.00	2.10	clear	NA
72.00	15:05	NA	0.08	7.84	0.77 mS/cm	20.36	6.97 mg/L	136.00	1.70	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

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Water Sampling Log

Location	MW-08	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	MW-8	Site Location	Burbank, CA
Date	10/16/2012	Sampling Personnel	Howard Armstrong
Time	Begin 9:16 End 9:16	Weather	Hot, Sunny
Replicate #	MW-8-DUP		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	
Sounded Well Depth (ft bmp)	N/A
Depth to Water (ft bmp)	221.08
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	
Casing Diameter (in)	
Gallons in Well	0.00
Gallons Pumped/Bailed Prior to Sampling	93.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 8:00 End 9:16
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	1.22
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	8:00	NA	0.00								NA
30.00	8:01	NA	0.06	8.07	0.73 mS/cm	22.65	5.20 mg/L	96.00	16.20	clear	NA
60.00	8:20	NA	0.12	7.08	0.72 mS/cm	22.50	4.99 mg/L	163.00	0.00	clear	NA
90.00	9:10	NA	0.16	7.08	0.72 mS/cm	22.59	4.99 mg/L	168.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	V08	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	V08(10-17-2012)	Site Location	Burbank, CA
Date	10/17/2012	Sampling Personnel	Howard Armstrong
Time	Begin ____ End ____	Weather	
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	645.14
Sounded Well Depth (ft bmp)	N/A
Depth to Water (ft bmp)	100.00
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	
Casing Diameter (in)	4.00
Gallons in Well	NA
Gallons Pumped/Bailed Prior to Sampling	

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 11:30 End
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	0.00
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	11:31	NA	0.00								NA
	11:33	NA	0.00								NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-6-CW02	Project Name and No.	Lockheed Martin-BOU,
Sample ID	B-6-CW02(10-13-2012)	Site Location	Burbank, CA
Date	10/13/2012	Sampling Personnel	Heather Tauscher, Howard Armstrong
Time	Begin 15:25 End 15:25	Weather	Hot
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	699.99
Sounded Well Depth (ft bmp)	340.00 (installed)
Depth to Water (ft bmp)	208.14
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	131.86
Casing Diameter (in)	5.00
Gallons in Well	134.50
Gallons Pumped/Bailed Prior to Sampling	450.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 14:08 End 15:25
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	5.84
Packer Pressure (psi)	NA
PID Reading	0.00

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	14:09	NA	0.00								NA
149.00	14:27	NA	0.17	8.79		20.95	1.20 mg/L	34.00	0.50	clear	NA
298.00	14:50	NA	0.33	7.62	0.53 mS/cm	21.05	1.36 mg/L	49.00	0.90	clear	NA
447.00	15:23	NA	0.48	7.66	0.53 mS/cm	21.15	1.46 mg/L	60.00	0.70	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Heather Tauscher Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	3850N	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	3850N(10-10-2012)	Site Location	Burbank, CA
Date	10/10/2012	Sampling Personnel	Howard Armstrong
Time	Begin ____ End ____	Weather	Cloudy
Replicate #	NA		
Water Quality Meter	LaMotte 2020 / Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	658.07
Sounded Well Depth (ft bmp)	220.00 (installed)
Depth to Water (ft bmp)	193.15
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	26.85
Casing Diameter (in)	5.00
Gallons in Well	27.39
Gallons Pumped/Bailed Prior to Sampling	

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 11:58 End ____
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	0.00
Packer Pressure (psi)	NA
PID Reading	0.10

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	11:58	NA	0.00								NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature: _____

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-1-CW17	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	B-1-CW17(10-11-2012)	Site Location	Burbank, CA
Date	10/11/2012	Sampling Personnel	Howard Armstrong
Time	Begin ____ End ____	Weather	
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	596.35
Sounded Well Depth (ft bmp)	170.00 (installed)
Depth to Water (ft bmp)	129.72
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	40.28
Casing Diameter (in)	5.00
Gallons in Well	41.09
Gallons Pumped/Bailed Prior to Sampling	138.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 12:12 End 12:44
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	4.31
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	12:12	NA	0.00								NA
42.00	12:24	NA	0.06	8.10	0.83 mS/cm	21.50	3.66 mg/L	126.00		clear	NA
42.00	12:27	NA	0.06	7.97	0.84 mS/cm	21.80	9.50 mg/L	127.00	0.00	clear	NA
42.00	12:34	NA	0.06	7.91	0.84 mS/cm	21.90	10.12 mg/L	127.00	0.00	clear	NA
	12:43	NA	0.00								NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	3850N	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	3850N	Site Location	Burbank, CA
Date	10/10/2012	Sampling Personnel	Howard Armstrong
Time	Begin 12:27 End 12:27	Weather	Cloudy
Replicate #	NA		
Water Quality Meter	LaMotte 2020 / Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	658.07
Sounded Well Depth (ft bmp)	220.00 (installed)
Depth to Water (ft bmp)	193.15
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	26.85
Casing Diameter (in)	5.00
Gallons in Well	27.39
Gallons Pumped/Bailed Prior to Sampling	127.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 12:02 End 12:34
Pump Intake Setting (ft bmp)	(Initial) NA 0.00 (Final)
Pumping Rate (gpm)	3.97
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	12:03	NA	0.00								NA
	12:15	NA	0.00	7.21		19.70			1.10	clear	NA
	12:20	NA	0.00	7.21	638.00 uS/cm	19.20			0.45	clear	NA
	12:24	NA	0.00	7.22	642.00 uS/cm	19.30			0.44	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-6-CW02	Project Name and No.	Lockheed Martin-BOU,
Sample ID	B-6-CW02(10-11-2012)	Site Location	Burbank, CA
Date	10/11/2012	Sampling Personnel	Heather Tauscher
Time	Begin 10:10 End 10:10	Weather	Cloudy, Cool, Light rain
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	699.99
Sounded Well Depth (ft bmp)	340.00 (installed)
Depth to Water (ft bmp)	208.31
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	131.69
Casing Diameter (in)	5.00
Gallons in Well	134.32
Gallons Pumped/Bailed Prior to Sampling	415.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 9:35 End 10:10
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	11.86
Packer Pressure (psi)	NA
PID Reading	0.00

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
138.00	9:35	NA	0.24	7.71	0.63 mS/cm	19.68	4.60 mg/L	153.00	0.00	clear	NA
276.00	9:49	NA	0.47	7.62	0.64 mS/cm	19.87	4.58 mg/L	101.00	0.00	clear	NA
415.00	10:09	NA	0.68	7.53	0.64 mS/cm	20.00	3.55 mg/L	92.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Heather Tauscher Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

Water Sampling Log

Location	B-6-CW01	Project Name and No.	Lockheed Martin-BOU,
Sample ID	B-6-CW01(10-10-2012)	Site Location	Burbank, CA
Date	10/10/2012	Sampling Personnel	Heather Tauscher, Howard Armstrong
Time	Begin _____ End _____	Weather	Cloudy, Humid
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	699.99
Sounded Well Depth (ft bmp)	590.00 (installed)
Depth to Water (ft bmp)	199.07
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	390.93
Casing Diameter (in)	5.00
Gallons in Well	398.75
Gallons Pumped/Bailed Prior to Sampling	

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 14:17 End
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	0.00
Packer Pressure (psi)	NA
PID Reading	0.00

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	14:17	NA	0.00								NA
410.00	14:41	NA	0.46	7.85	0.33 mS/cm	21.40	2.77 mg/L	126.00	61.90	yellow-brown	turbid
820.00	15:25	NA	0.89	7.68	0.33 mS/cm	20.47	4.08 mg/L	168.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Heather Tauscher Signature: _____

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

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Water Sampling Log

Location	A-1-CW09	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	A-1-CW09	Site Location	Burbank, CA
Date	10/11/2012	Sampling Personnel	Howard Armstrong
Time	Begin 15:21 End 15:21	Weather	
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	673.80
Sounded Well Depth (ft bmp)	232.00 (installed)
Depth to Water (ft bmp)	200.19
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	31.81
Casing Diameter (in)	5.00
Gallons in Well	32.45
Gallons Pumped/Bailed Prior to Sampling	122.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 15:11 End 15:22
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	11.09
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
0.00	15:11	NA	0.00								NA
33.00	15:13	NA	0.04	7.96	0.70 mS/cm	19.60	5.82 mg/L	142.00	0.00	clear	NA
33.00	15:14	NA	0.04	7.84	0.70 mS/cm	19.50	5.33 mg/L	142.00	0.00	clear	NA
33.00	15:18	NA	0.04	7.77	0.70 mS/cm	19.50	5.36 mg/L	142.00	0.00	clear	NA
	15:20	NA	0.00								NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	MW-3	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	MW-3(10-12-2012)	Site Location	Burbank, CA
Date	10/12/2012	Sampling Personnel	Howard Armstrong
Time	Begin ____ End ____	Weather	
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	720.63
Sounded Well Depth (ft bmp)	0.00 (10/11/2012)
Depth to Water (ft bmp)	231.26
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	-231.26
Casing Diameter (in)	4.00
Gallons in Well	33.78
Gallons Pumped/Bailed Prior to Sampling	

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 7:46 End
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	0.00
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
		NA	NA								NA
0.00	7:46	NA	0.00								NA
33.00	7:47	NA	0.07	7.50	776.00 mS/cm	19.50	10.37 mg/L	34.00	800.00	orange	turbid, Cloudy

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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infrastructure, environment, buildings

Water Sampling Log

Location	C-1-CW08	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	C-1-CW08	Site Location	Burbank, CA
Date	10/13/2012	Sampling Personnel	Howard Armstrong
Time	Begin 9:39 End 9:39	Weather	Sunny
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	731.72
Sounded Well Depth (ft bmp)	274.00 (installed)
Depth to Water (ft bmp)	233.40
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	40.60
Casing Diameter (in)	5.00
Gallons in Well	41.41
Gallons Pumped/Bailed Prior to Sampling	131.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 9:17 End 9:38
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	6.24
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	9:18	NA	0.00								NA
42.00	9:18	NA	0.08	7.76	0.51 mS/cm	20.10	8.02 mg/L	-131.00	21.80	clear	NA
84.00	9:26	NA	0.15	7.39	0.57 mS/cm	19.87	6.56 mg/L	-25.00	12.30	clear	NA
126.00	9:31	NA	0.22	7.57	0.57 mS/cm	19.94	5.51 mg/L	7.00	1.60	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

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Water Sampling Log

Location	MW-5	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	MW-5	Site Location	Burbank, CA
Date	10/16/2012	Sampling Personnel	Howard Armstrong
Time	Begin 11:52 End 11:52	Weather	Hot, Sunny
Replicate #	MW-5-DUP		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	
Sounded Well Depth (ft bmp)	282.50 (1/19/2012)
Depth to Water (ft bmp)	219.12
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	63.38
Casing Diameter (in)	4.00
Gallons in Well	33.21
Gallons Pumped/Bailed Prior to Sampling	101.50

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 10:17 End 11:53
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	1.06
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	10:00	NA	0.00								NA
33.00	10:47	NA	0.05	7.08	0.73 mS/cm	22.32	6.27 mg/L	181.00	0.00	clear	NA
66.00	11:17	NA	0.10	6.87	0.72 mS/cm	22.36	5.09 mg/L	187.00	0.00		NA
99.00	11:48	NA	0.14	6.84	0.72 mS/cm	22.34	4.90 mg/L	187.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

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Water Sampling Log

Location	B-6-CW16	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	B-6-CW16(10-16-2012)	Site Location	Burbank, CA
Date	10/16/2012	Sampling Personnel	Howard Armstrong
Time	Begin _____ End _____	Weather	Hot, Sunny
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	714.62
Sounded Well Depth (ft bmp)	265.00 (installed)
Depth to Water (ft bmp)	226.07
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	38.93
Casing Diameter (in)	5.00
Gallons in Well	39.71
Gallons Pumped/Bailed Prior to Sampling	

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 12:46 End
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	0.00
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	12:46	NA	0.00								NA
25.00	12:50	NA	0.03	8.22	0.76 mS/cm	20.80	5.27 mg/L	137.00	79.20		NA
75.00	13:01	NA	0.10	7.51	0.75 mS/cm	20.59	7.51 mg/L	153.00	14.60	clear	NA
75.00	13:06	NA	0.10	7.31	0.75 mS/cm	20.75	7.57 mg/L	155.00	1.40	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature: _____

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

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Water Sampling Log

Location	C-1-CW08	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	C-1-CW08(10-13-2012)	Site Location	Burbank, CA
Date	10/13/2012	Sampling Personnel	Howard Armstrong
Time	Begin ____ End ____	Weather	
Replicate #	NA		
Water Quality Meter		Serial #	

Purge Data

Measuring Point Elevation	731.72
Sounded Well Depth (ft bmp)	274.00 (installed)
Depth to Water (ft bmp)	
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	
Casing Diameter (in)	5.00
Gallons in Well	41.62
Gallons Pumped/Bailed Prior to Sampling	

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin ____ End ____
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

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Water Sampling Log

Location	MW-6	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	MW-6(10-13-2012)	Site Location	Burbank, CA
Date	10/13/2012	Sampling Personnel	Howard Armstrong
Time	Begin 13:22 End 13:22	Weather	Sunny
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	
Sounded Well Depth (ft bmp)	265.00 (installed)
Depth to Water (ft bmp)	220.81
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	44.19
Casing Diameter (in)	4.00
Gallons in Well	28.85
Gallons Pumped/Bailed Prior to Sampling	103.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 13:04 End 13:26
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	4.68
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	13:05	NA	0.00								NA
28.00	13:05	NA	0.04	7.58	0.74 mS/cm	22.41	8.44 mg/L	150.00	0.00	clear	NA
56.00	13:14	NA	0.07	7.96	0.74 mS/cm	21.68	7.80 mg/L	148.00	0.00	clear	NA
84.00	13:20	0.00	0.10	8.02	0.75 mS/cm	21.54	7.52 mg/L	147.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

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Water Sampling Log

Location	A-1-CW09	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	A-1-CW09(10-11-2012)	Site Location	Burbank, CA
Date	10/11/2012	Sampling Personnel	Howard Armstrong
Time	Begin _____ End _____	Weather	
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	673.80
Sounded Well Depth (ft bmp)	232.00 (installed)
Depth to Water (ft bmp)	200.19
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	31.81
Casing Diameter (in)	5.00
Gallons in Well	32.45
Gallons Pumped/Bailed Prior to Sampling	

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 15:09 End
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	0.00
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
33.00	15:09	NA	0.04								NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature: _____

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-6-CW16	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	B-6-CW16	Site Location	Burbank, CA
Date	10/16/2012	Sampling Personnel	Howard Armstrong
Time	Begin 13:30 End 13:30	Weather	Hot, Sunny
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	714.62
Sounded Well Depth (ft bmp)	265.00 (installed)
Depth to Water (ft bmp)	226.07
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	38.93
Casing Diameter (in)	5.00
Gallons in Well	39.71
Gallons Pumped/Bailed Prior to Sampling	81.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 12:44 End 13:29
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	1.80
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	12:44	NA	0.00								NA
25.00	12:56	NA	0.03	8.22	0.76 mS/cm	20.80	5.27 mg/L	137.00	79.20	clear	NA
50.00	13:01	NA	0.06	7.51	0.75 mS/cm	20.59	7.31 mg/L	153.00	14.60	clear	NA
75.00	13:28	NA	0.09	7.31	0.75 mS/cm	20.75	7.57 mg/L	155.00	1.40	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

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Water Sampling Log

Location	B-1-CW12	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	B-1-CW12(10-12-2012)	Site Location	Burbank, CA
Date	10/12/2012	Sampling Personnel	Howard Armstrong
Time	Begin _____ End _____	Weather	Sunny
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	609.85
Sounded Well Depth (ft bmp)	175.00 (installed)
Depth to Water (ft bmp)	158.04
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	16.96
Casing Diameter (in)	5.00
Gallons in Well	17.30
Gallons Pumped/Bailed Prior to Sampling	

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 11:21 End
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	0.00
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature: _____

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-6-CW03R	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	B-6-CW03R(10-11-2012)	Site Location	Burbank, CA
Date	10/11/2012	Sampling Personnel	Howard Armstrong
Time	Begin ____ End ____	Weather	
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	699.76
Sounded Well Depth (ft bmp)	265.00 (installed)
Depth to Water (ft bmp)	216.07
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	48.93
Casing Diameter (in)	5.00
Gallons in Well	49.91
Gallons Pumped/Bailed Prior to Sampling	166.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 9:58 End 10:38
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	4.15
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	9:59	NA	0.00								NA
52.00	10:07	NA	0.09	6.84	0.81 mS/cm	19.66	4.50 mg/L	52.00	9.20	clear	NA
52.00	10:12	NA	0.08		0.79 mS/cm	20.27	5.49 mg/L	35.00	0.00	clear	NA
52.00	10:14	NA	0.08	7.19	0.78 mS/cm	20.36	6.40 mg/L	52.00	0.00	clear	NA
	10:38	NA	0.00								NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-6-CW01	Project Name and No.	Lockheed Martin-BOU,
Sample ID	B-6-CW01(10-10-2012)	Site Location	Burbank, CA
Date	10/10/2012	Sampling Personnel	Heather Tauscher, Howard Armstrong
Time	Begin 16:23 End 16:23	Weather	Cloudy, Humid
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	699.99
Sounded Well Depth (ft bmp)	590.00 (installed)
Depth to Water (ft bmp)	199.07
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	390.93
Casing Diameter (in)	5.00
Gallons in Well	398.75
Gallons Pumped/Bailed Prior to Sampling	1,231.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 16:23 End 16:22
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	-1,231.00
Packer Pressure (psi)	NA
PID Reading	0.00

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Heather Tauscher Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

ARCADIS
infrastructure, environment, buildings

Water Sampling Log

Location	3871G	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	3871G	Site Location	Burbank, CA
Date	10/13/2012	Sampling Personnel	Howard Armstrong
Time	Begin 8:23 End 8:23	Weather	Sunny
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	591.86
Sounded Well Depth (ft bmp)	140.00 (installed)
Depth to Water (ft bmp)	124.92
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	15.08
Casing Diameter (in)	5.00
Gallons in Well	15.38
Gallons Pumped/Bailed Prior to Sampling	53.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 8:07 End 8:22
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	3.53
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
0.00	8:07	NA	0.00								NA
15.00	8:08	NA	0.03	7.99	**1.10 mS/cm**	18.60	5.24 mg/L	149.00	75.80	clear	NA
30.00	8:15	NA	0.06	7.77	1.11 mS/cm	19.50	7.25 mg/L	130.00	22.10	clear	NA
45.00	8:18	NA	0.09	7.36	1.11 mS/cm	19.70	7.36 mg/L	96.00	5.50	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	MW-07	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	MW-7	Site Location	Burbank, CA
Date	10/15/2012	Sampling Personnel	Howard Armstrong
Time	Begin 14:36 End 14:36	Weather	Hot, Sunny
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	
Sounded Well Depth (ft bmp)	N/A
Depth to Water (ft bmp)	215.48
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	
Casing Diameter (in)	
Gallons in Well	0.00
Gallons Pumped/Bailed Prior to Sampling	223.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 13:24 End 14:35
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	3.14
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	13:24	NA	0.00								NA
29.00	13:25	NA	0.04	6.99	0.73 mS/cm	23.45	5.79 mg/L	179.00	0.00	clear	NA
58.00	13:54	NA	0.07	6.58	0.74 mS/cm	22.67	5.47 mg/L	204.00	0.00	clear	NA
87.00	14:02	NA	0.10	6.73	0.74 mS/cm	22.74	5.14 mg/L	198.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks

NEED NEW WELL BOX INSTALLED,BOX IS SUNK BELOW GRADE WATER WILL FILL BOX DURING RAINS

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-1-CW25	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	B-1-CW25	Site Location	Burbank, CA
Date	10/11/2012	Sampling Personnel	Howard Armstrong
Time	Begin 16:41 End 16:41	Weather	
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	636.54
Sounded Well Depth (ft bmp)	195.00 (installed)
Depth to Water (ft bmp)	176.12
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	18.88
Casing Diameter (in)	5.00
Gallons in Well	19.26
Gallons Pumped/Bailed Prior to Sampling	64.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 16:22 End 16:41
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	3.37
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
20.00	16:23	NA	0.02	7.80	0.64 mS/cm	20.40	5.78 mg/L	146.00	20.80	clear	NA
20.00	16:26	NA	0.02	7.69	0.63 mS/cm	20.40	5.78 mg/L	145.00	14.40	clear	NA
20.00	16:29	NA	0.02	7.63	0.63 mS/cm	20.50	7.10 mg/L	142.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	MW-3	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	MW-3	Site Location	Burbank, CA
Date	10/12/2012	Sampling Personnel	Howard Armstrong
Time	Begin 8:22 End 8:22	Weather	Cloudy
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	720.63
Sounded Well Depth (ft bmp)	0.00 (10/11/2012)
Depth to Water (ft bmp)	231.26
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	-231.26
Casing Diameter (in)	4.00
Gallons in Well	33.78
Gallons Pumped/Bailed Prior to Sampling	119.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 8:16 End 8:23
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	17.00
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
0.00	8:17	NA	0.00								NA
33.00	8:17	NA	0.07	7.50	0.78 mS/cm	19.50	10.37 mg/L	34.00	800.00	orange	NA
33.00	8:19	NA	0.07	7.16	0.78 mS/cm	19.60	7.10 mg/L	22.00	263.00	orange	NA
33.00	8:20	NA	0.07	7.15	0.78 mS/cm	19.80	4.82 mg/L	43.00	93.70	cloudy	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	3851M	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	3851M	Site Location	Burbank, CA
Date	10/11/2012	Sampling Personnel	Howard Armstrong
Time	Begin 11:29 End 11:29	Weather	
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	650.35
Sounded Well Depth (ft bmp)	220.00 (installed)
Depth to Water (ft bmp)	172.89
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	47.11
Casing Diameter (in)	5.00
Gallons in Well	48.05
Gallons Pumped/Bailed Prior to Sampling	157.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 10:52 End 11:28
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	4.36
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
0.00	10:52	NA	0.00								NA
49.00	11:06	NA	0.07		0.73 mS/cm	19.40	8.91 mg/L	136.00	0.00	clear	NA
49.00	11:15	NA	0.07	7.65	0.74 mS/cm	19.30	9.04 mg/L	137.00	0.00	clear	NA
50.00	11:18	NA	0.07	7.50	0.74 mS/cm	19.40	8.99 mg/L	140.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	3830Q	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	3830Q(10-05-2012)	Site Location	Burbank, CA
Date	10/05/2012	Sampling Personnel	Howard Armstrong
Time	Begin 16:57 End 16:57	Weather	Cold, Cool ,50F
Replicate #	DUP-01		
Water Quality Meter	Solinst 101 / Solinst 101	Serial #	

Purge Data

Measuring Point Elevation	702.56
Sounded Well Depth (ft bmp)	360.00 (installed)
Depth to Water (ft bmp)	200.00
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	160.00
Casing Diameter (in)	5.00
Gallons in Well	163.20
Gallons Pumped/Bailed Prior to Sampling	500.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 16:50 End 16:52
Pump Intake Setting (ft bmp)	12.00 (Initial) (Final) NA
Pumping Rate (gpm)	250.00
Packer Pressure (psi)	NA
PID Reading	0.00

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
500.00	16:50	NA	0.49								NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-1-CW28	Project Name and No.	Lockheed Martin-BOU,
Sample ID	B-1-CW28(10-11-2012)	Site Location	Burbank, CA
Date	10/11/2012	Sampling Personnel	Heather Tauscher
Time	Begin _____ End _____	Weather	Cloudy, Cool
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	650.15
Sounded Well Depth (ft bmp)	351.00 (installed)
Depth to Water (ft bmp)	173.75
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	177.25
Casing Diameter (in)	5.00
Gallons in Well	180.79
Gallons Pumped/Bailed Prior to Sampling	563.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 12:03 End 12:44
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	13.73
Packer Pressure (psi)	NA
PID Reading	0.00

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	12:03	NA	0.00								NA
186.00	12:15	NA	0.25	7.68	0.62 mS/cm	19.64	4.05 mg/L	108.00	0.00	clear	NA
372.00	12:27	NA	0.50	7.61	0.62 mS/cm	19.33	4.08 mg/L	43.00	0.00	clear	NA
558.00	12:42	NA	0.73	7.57	0.62 mS/cm	19.29	4.01 mg/L	68.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Heather Tauscher Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	C-1-CW06	Project Name and No.	Lockheed Martin-BOU,
Sample ID	C-1-CW06(10-13-2012)	Site Location	Burbank, CA
Date	10/13/2012	Sampling Personnel	Heather Tauscher
Time	Begin 12:12 End 12:12	Weather	Cool, Partly Cloudy
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	720.91
Sounded Well Depth (ft bmp)	248.00 (installed)
Depth to Water (ft bmp)	221.65
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	26.35
Casing Diameter (in)	5.00
Gallons in Well	26.88
Gallons Pumped/Bailed Prior to Sampling	85.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 11:22 End 12:10
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	1.77
Packer Pressure (psi)	NA
PID Reading	0.00

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	11:22	NA	0.00								NA
28.00	11:42	NA	0.04	8.37	0.80 mS/cm	21.02	5.43 mg/L	110.00	7.20	clear	NA
56.00	11:53	NA	0.08	8.11	0.79 mS/cm	21.03	5.08 mg/L	113.00	5.30	clear	NA
83.00	12:09	NA	0.11	8.02	0.79 mS/cm	20.93	5.10 mg/L	121.00	3.20	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Heather Tauscher Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	A-1-CW07	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	A-1-CW07	Site Location	Burbank, CA
Date	10/15/2012	Sampling Personnel	Howard Armstrong
Time	Begin 16:07 End 16:07	Weather	Hot, Sunny
Replicate #	A-1-CW07 DUP		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	674.35
Sounded Well Depth (ft bmp)	229.00 (installed)
Depth to Water (ft bmp)	202.34
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	26.66
Casing Diameter (in)	5.00
Gallons in Well	27.19
Gallons Pumped/Bailed Prior to Sampling	53.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 15:37 End 15:58
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	2.52
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	15:37	NA	0.00								NA
17.00	15:38	NA	0.02	8.25	0.68 mS/cm	22.45	6.16 mg/L	122.00	0.00	clear	NA
34.00	15:42	NA	0.04	7.82	0.69 mS/cm	22.05	6.45 mg/L	92.00	9.40	clear	NA
	15:47	NA	0.00	7.48	0.00 mS/cm	21.13	0.69 mg/L	98.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft. 1-1/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2":= 0.50 6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-1-CW12	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	B-1-CW12(10-12-2012)	Site Location	Burbank, CA
Date	10/12/2012	Sampling Personnel	Howard Armstrong
Time	Begin ____ End ____	Weather	, Cloudy
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	609.85
Sounded Well Depth (ft bmp)	175.00 (installed)
Depth to Water (ft bmp)	146.88
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	28.12
Casing Diameter (in)	5.00
Gallons in Well	28.68
Gallons Pumped/Bailed Prior to Sampling	121.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 9:06 End 9:31
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	4.84
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	9:06	NA	0.00								NA
30.00	9:07	NA	0.05	7.57	0.78 mS/cm	20.90	6.34 mg/L	96.00	1.20	clear	NA
60.00	9:26	NA	0.11	7.58	0.80 mS/cm	21.00	6.47 mg/L	97.00	0.00	clear	NA
90.00	9:28	NA	0.16	7.65	0.81 mS/cm	21.10	6.53 mg/L	97.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature: _____

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

ARCADIS
infrastructure, environment, buildings

Water Sampling Log

Location	B-1-CW27	Project Name and No.	Lockheed Martin-BOU,
Sample ID	B-1-CW27(10-10-2012)	Site Location	Burbank, CA
Date	10/10/2012	Sampling Personnel	Heather Tauscher
Time	Begin 19:39 End 19:39	Weather	
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	636.93
Sounded Well Depth (ft bmp)	339.00 (installed)
Depth to Water (ft bmp)	161.27
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	177.73
Casing Diameter (in)	5.00
Gallons in Well	181.28
Gallons Pumped/Bailed Prior to Sampling	117.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 19:34 End 19:39
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	23.40
Packer Pressure (psi)	NA
PID Reading	0.00

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
117.00	19:34	NA	0.10	6.86	0.55 mS/cm	20.06	4.14 mg/L	147.00	0.00	clear	NA
234.00	19:36	NA	0.20	7.25		19.67	4.81 mg/L	116.00	0.00	clear	NA
351.00	19:37	NA	0.30	7.31	0.51 mS/cm	19.73	4.79 mg/L	104.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Heather Tauscher Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	B-1-CW13	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	B-1-CW13	Site Location	Burbank, CA
Date	10/12/2012	Sampling Personnel	Howard Armstrong
Time	Begin 11:50 End 11:50	Weather	Sunny
Replicate #	B-1-C13 DUP		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	651.49
Sounded Well Depth (ft bmp)	215.00 (installed)
Depth to Water (ft bmp)	185.04
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	29.96
Casing Diameter (in)	5.00
Gallons in Well	30.56
Gallons Pumped/Bailed Prior to Sampling	107.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 11:33 End 11:57
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	4.46
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	11:33	NA	0.00								NA
31.00	11:34	NA	0.04	8.23	0.70 mS/cm	21.20	7.16 mg/L	145.00	50.30	clear	NA
62.00	11:41	NA	0.09	8.04	0.70 mS/cm	20.04	5.49 mg/L	140.00	0.50	clear	NA
93.00	11:48	NA	0.13	7.95	0.70 mS/cm	20.10	5.50 mg/L	134.00	0.00	clear	NA
	11:50	NA	0.00								NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	C-1-CW05	Project Name and No.	Lockheed Martin-BOU,
Sample ID	C-1-CW05(10-11-2012)	Site Location	Burbank, CA
Date	10/11/2012	Sampling Personnel	Heather Tauscher
Time	Begin 14:59 End 14:59	Weather	Cloudy, Cool, Dark, Scattered Showers
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	720.87
Sounded Well Depth (ft bmp)	386.00 (installed)
Depth to Water (ft bmp)	165.00
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	221.00
Casing Diameter (in)	5.00
Gallons in Well	225.42
Gallons Pumped/Bailed Prior to Sampling	525.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 14:14 End 14:58
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	11.93
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	14:14	NA	0.00								NA
173.00	14:26	NA	0.20	7.89	0.51 mS/cm	18.73	2.76 mg/L	86.00	0.00	clear	NA
346.00	14:42	NA	0.39	7.60	0.51 mS/cm	18.59	3.26 mg/L	89.00	0.00	clear	NA
519.00	14:57	NA	0.58	7.20	0.51 mS/cm	18.54	2.43 mg/L	82.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Heather Tauscher Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

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Water Sampling Log

Location	A-1-CW08	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	A-1-CW08(10-13-2012)	Site Location	Burbank, CA
Date	10/13/2012	Sampling Personnel	Howard Armstrong
Time	Begin _____ End _____	Weather	Sunny
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	682.74
Sounded Well Depth (ft bmp)	240.00 (installed)
Depth to Water (ft bmp)	233.40
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	6.60
Casing Diameter (in)	5.00
Gallons in Well	6.73
Gallons Pumped/Bailed Prior to Sampling	

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 9:11 End
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	0.00
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
0.00	9:12	NA	0.00								NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature:

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

ARCADIS
infrastructure, environment, buildings

Water Sampling Log

Location	B-1-CW29	Project Name and No.	Lockheed Martin-BOU, B0038189.0000
Sample ID	B-1-CW29(10-15-2012)	Site Location	Burbank, CA
Date	10/15/2012	Sampling Personnel	Howard Armstrong
Time	Begin ____ End ____	Weather	Sunny
Replicate #	NA		
Water Quality Meter	Horiba U-52	Serial #	

Purge Data

Measuring Point Elevation	623.12
Sounded Well Depth (ft bmp)	176.00 (installed)
Depth to Water (ft bmp)	142.38
Depth to Packer (tl bmp)	NA
Water Column in Well (ft)	33.62
Casing Diameter (in)	5.00
Gallons in Well	34.29
Gallons Pumped/Bailed Prior to Sampling	108.00

Field Parameters

Sample Method	Volume Purge
Evacuation Method	Submersible Electric Pump
Purge Time	Begin 8:08 End ____
Pump Intake Setting (ft bmp)	(Initial) NA (Final) NA
Pumping Rate (gpm)	-0.22
Packer Pressure (psi)	NA
PID Reading	NA

Field Parameters

Purge Volume Desc	Time	DTW (feet)	Pump Rate	pH (std units)	SCond	TEMP. (°C)	DO	ORP (mV)	TURB (NTUs)	COLOR	Appearance
	8:08	NA	0.00								NA
	8:08	NA	0.00	8.11	0.80 mS/cm	20.50	7.51 mg/L	90.00	0.00	clear	NA
70.00	8:19	NA	0.14	7.88	0.78 mS/cm	20.80	7.16 mg/L	95.00	0.00	clear	NA
105.00	8:22	NA	0.21	8.00	0.78 mS/cm	20.90	8.89 mg/L	101.00	0.00	clear	NA

Parameter	Container	Number	Preservative

Remarks NA

Sampling Personnel: Howard Armstrong Signature: _____

Well Casing Volumes

Gal./Ft.	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2":= 0.50	6"=1.47

bmp	below measuring point	ml	mililiter	NTU	Nephelometric Turbidity Units
'C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
it	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

Material Code

AG - Amber Glass CG - Clear Glass PE - Polyethylene PP - Polypropylene T - Teflon S - Silicone O - Other

Version 1.01

Appendix D

Laboratory Analytical Results and Chain-of-Custody Documentation

(Provided on CD)

ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 FAX 714 538-1209

CLIENT: ARCADIS
ATTN: Leah Levy

LAB REQUEST: 311877

PROJECT: BOU Burbank

FULL DATAPACKAGE

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ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 FAX 714 538-1209

ARCADIS
BOU Burbank Project
ALAB # 311877
Level III Data Package

ALAB Project Manger: Danielle Roberts
ALAB Laboratory Director: Ed Behare PhD
ALAB Quality Control Manager: Hongling Cao

Associated Laboratories
806 N. Batavia - Orange, CA 92868
Tel (714)771-6900 Fax (714)538-1209
www.associatedlabs.com
Info@associatedlabs.com

ACCREDITED IN ACCORDANCE WITH nelac
04232CA

Client:	ARCADIS	Lab Request:	311877
Address:	3750 Schaufele Ave., Suite 225 Long Beach, CA 90808	Report Date:	10/31/2012
		Date Received:	10/10/2012
Attn:	Leah Levy	Client ID:	14099

Comments: BOU Burbank
B0038189.0000.00001

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
311877-001	3850R
311877-002	B-1-CW27
311877-003	3850N
311877-004	TB101012
311877-005	B-6-CW01

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Lab Director

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

ALAB : 00002

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/10/2012 12:49	Site:	Notes:
Sample #: 311877-001	Client Sample #: 3850R	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	Prep Method: EPA 5030B						QCBatchID: QC1130649	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/17/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/17/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/17/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/17/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/17/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/17/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/17/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/17/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/17/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/17/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/17/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroform	0.9	1	0.044	0.5	ug/L	10/17/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/17/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/10/2012 12:49	Site:	Notes:
Sample #: 311877-001	Client Sample #: 3850R	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Iscpropylbenzene	ND	1	0.089	0.5	ug/L	10/17/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/17/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/17/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/17/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/17/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/17/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/17/12	Liaoyuanz	
Tetrachloroethene	140	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Trichloroethene	12	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*93*	*70-145*	
4-Bromofluorobenzene (SUR)	*97*	*70-145*	
Dibromodifluoromethane (SUR)	*91*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/10/2012 10:21	Site:	Notes:
Sample #: 311877-002	Client Sample #: B-1-CW27	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 NELAC	Prep Method: EPA 5030B						QCBatchID: QC1130649	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/17/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/17/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/17/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/17/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/17/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/17/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/17/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/17/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/17/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/17/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/17/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/17/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/17/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/10/2012 10:21	Site:	Notes:
Sample #: 311877-002	Client Sample #: B-1-CW27	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/17/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/17/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/17/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/17/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/17/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/17/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/17/12	Liaoyuanz	
Tetrachloroethene	**8.9**	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Trichloroethene	**3.8**	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*95*	*70-145*	
4-Bromofluorobenzene (SUR)	*95*	*70-145*	
Dibromodifluoromethane (SUR)	*94*	*70-145*	
Toluene-d8 (SUR)	*102*	*70-145*	

Method: EPA 8260M **Prep Method:** EPA 5030B **QCBatchID:** QC1130672

1,2,3-Trichloropropane	ND	1	0.005	0.005	ug/L	10/18/12	akk	

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	*123*	*50-150*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water
Sampled: 10/10/2012 12:27
Sample #: 311877-003

Client: ARCADIS
Site:
Client Sample #: 3850N

Collector: Client
Notes:

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	Prep Method: EPA 218.6						QCBatchID: QC1130675	
Hexavalent Chromium	1.0	1	0.1	1	ug/L	10/16/12	rybechay	
Method: EPA 6010 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1130591	
Chromium	0.015	1	0.002	0.01	mg/L	10/17/12	nina	
Method: EPA 8260 *NELAC*	Prep Method: EPA 5030B						QCBatchID: QC1130649	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/17/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/17/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/17/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/17/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/17/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/17/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/17/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/17/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/17/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/17/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/17/12	Liaoyuanz	
Carbon Tetrachloride	1.4	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroform	1.4	1	0.044	0.5	ug/L	10/17/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,2-Dichloroethene	1.1	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor