KLEINFELDER
An employee owned company

April 20, 2006
Project No. 61801.2

RECEIVED
APR 24 2006
ENVIRONMENTAL PROTECTION

Mr. Scott Smale
Bureau of Corrective Actions
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701

SUBJECT: **Cornerstone Redevelopment Brownfields**
Phase II Site Investigation
March 2006 Quarterly Sampling
Henderson, Nevada

Dear Mr. Smale:

Kleinfelder, Inc. (Kleinfelder) is pleased to present the quarterly sampling report for March 2006 for the above-referenced site. The field sampling activities and laboratory analyses were performed per the original project Sampling and Analysis Plan (SAP) dated May 27, 2004, and the draft SAP Amendment dated October 12, 2005. Fieldwork was conducted in accordance with the site-specific Health and Safety Plan (HASP) revised and included as part of the SAP Amendment.

SITE BACKGROUND

Site Location and Background

The subject property is located on the northwest corner of the intersection of Stephanie Street and Wigwam Parkway in Henderson, Nevada, as shown on Figure 1 (Site Location Map) and consists of the following five parcels:

APN	Acres
178-16-601-003	25.69
178-16-601-004	18.60
178-16-710-002	24.29
178-16-501-001	29.19
178-16-510-002	2.83
Total Acres	**100.60**

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Based on historical information, surface water and groundwater at the site is impacted by perchlorate. The perchlorate contamination was discovered during soil, groundwater and surface water sampling by Brown and Caldwell in October 2000. Their report (dated 2001) indicated that the concentration of perchlorate was as high as 190 µg/kg in the soil, 510 µg/L in the groundwater, and 71 µg/L in the surface water. In 2004, the Nevada Division of Environmental Protection (NDEP) contracted Ninyo & Moore to perform a Phase II Environmental Site Assessment. The results of their report indicated the concentration of perchlorate was as high as 750 µg/kg in the soil, 85 µg/L in the groundwater, and 39 µg/L in the surface water. Ninyo & Moore noted the reduction of perchlorate concentrations in the groundwater and surface water in 2001 were likely due to the removal of the perchlorate source and concentrations should continue to decrease over time as the water gradually migrates off the subject property. However, they recommended groundwater and surface water on the property be monitored on a semi-annual or annual basis to ensure the perchlorate levels continue to decrease.

Kleinfelder submitted a scope of work and cost estimate to perform the quarterly sampling dated September 21, 2005 (Proposal No. 31-YP5374R). The scope-of-work was prepared in accordance with the SAP dated May 27, 2004, prepared by Ninyo & Moore and the SAP Amendment dated October 12, 2005, prepared by Kleinfelder. Work for two consecutive quarterly sampling events was authorized by the NDEP in a letter dated September 27, 2005 (NDEP Contract No. 06-015).

Regional Geology

The Las Vegas Valley is a topographic basin located in southern Nevada in the Basin and Range Physiographic Province in a transitional area between the "younger" Great Basin of Nevada and Utah and the "older" Basin and Range topography of Arizona and California. The Las Vegas Valley is bounded on the west by the Spring Mountains, on the north by the Desert Sheep and Las Vegas Ranges, on the east by the Frenchman and Sunrise Mountains, and on the south by the River Mountains and McCullogh Range. The mountains to the north, east, and west consist primarily of Paleozoic and Mesozoic sedimentary rocks. The mountains to the south consist of predominately of Tertiary volcanic rocks overlying Precambrian metamorphic and granitic rocks.

Reference: Longwell, et al, 1965.

Hydrogeology

The central portion of the subject property consists of a lake, pond, and slough (see Figure 2). There is a concrete culvert that enters the southern margin of the lake under Wigwam Parkway and a drainage culvert that enters the northeastern margin of the pond in the northern portion of the site.

Most of the groundwater in the Las Vegas Valley is derived from the alluvial soils in the Basin Fill and Muddy Creek Formation. Natural groundwater flow in the Las Vegas Valley is generally toward the Las Vegas Wash to the northeast. However, groundwater pumping and areas of caliche beds can locally alter flow directions.

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Historical mining operations on the subject property have lowered the topography considerably. The presence of the lake and pond on the subject property indicates the water table locally intersects the land surface at the site.

SCOPE OF WORK

Groundwater Sampling

On March 28, 2006, six monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6) at the site (see Figure 3) were measured for depth to groundwater, purged of at least three well volumes, measured for pH, temperature, and electrical conductivity with a Horiba water quality meter. Once the water quality parameters indicated consistent readings, and after three well volumes were purged, groundwater samples were collected.

Clean, disposable polyethylene bailers were used to collect groundwater samples from each monitoring well. Each sample was placed into laboratory-provided containers and then labeled with the monitoring well number, matrix type, and sample number, consistent with the labeling format described in the SAP and used previously by Ninyo & Moore (see Table 1). The samples were then immediately placed into secure, ice-filled chests. The samples were recorded on an EPA-approved chain-of-custody form and transported to the Del Mar Analytical office in Las Vegas. The samples were subsequently transferred to the Del Mar Analytical laboratory in Phoenix, Arizona for testing of perchlorate, chloride, nitrate-N, sulfate, and TDS, and to the Sierra Environmental Monitoring (SEM) laboratory in Sparks, Nevada for testing of chlorate.

Purged water from the monitoring wells and decontamination rinsate water was placed on-site into a 55-gallon polyethylene drum. H2O Environmental Services of Las Vegas picked up the stored water at the site for disposal.

Surface Water Sampling

On March 28, 2005, seven surface water samples were collected from three sample locations in the lake (W-1, W-2, and W-3) and one sample location in the pond (W-4). Surface water samples were collected from two feet below the surface at all four locations by submerging a sample container to the proper depth and opening the container. Surface water samples were collected from 10 feet below the surface from the three locations in the lake by using a Kemmerer-type bomb sampler. The bomb sampler was decontaminated after each sample collection to prevent cross-contamination.

Each sample was labeled with the surface water sampling location, matrix type, sample depth, and sample number, consistent with the labeling format described in the SAP and previously used in the September and December 2005 events (see Table 1). The samples were then immediately placed into a secure, ice-filled chest. The samples were recorded on an EPA-approved chain-of-custody form and transported to the Del Mar Analytical office in Las Vegas. The samples were subsequently transferred to the Del Mar Analytical laboratory in Phoenix, Arizona for testing of perchlorate, chloride,

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nitrate-N, sulfate, and TDS, and to the SEM laboratory in Sparks, Nevada for testing of chlorate. Decontamination rinsate water was placed in the same 55-gallon polyethylene drum mentioned above.

Field Quality Control Sampling

A duplicate groundwater sample was collected from monitoring well MW-3 and a duplicate surface water sample W-1 was collected at the two-foot sample depth. The duplicate water samples were labeled MW7-GW-7 and W6-SW-2-9, respectively, to ensure the blind nature of the samples at the lab. Duplicate water samples were collected using the same fore mentioned methods of water sampling.

One equipment blank sample was collected from the surface water collection equipment. The equipment blank was obtained by passing deionized water over the bomb sampler, and by collecting, packaging, and labeling the sample using the same fore mentioned methods of surface water sampling. The equipment blank water sample was labeled W5-SW-2-8 to ensure the blind nature of the sample at the lab.

DISCUSSION

Groundwater

Table 2 presents a summary of the groundwater elevations for this and the previous sampling events since January 2005. The ground levels in MW-1 and 3 decreased slightly. The ground levels in MW-4, 5, and 6 increased slightly. The level in MW-2 increased almost seven feet.

Table 3 presents a summary of perchlorate concentrations from groundwater samples. Perchlorate concentrations in each of the six monitoring wells exceeded the Nevada Public Notice Standard of 18 μg/L. The current perchlorate concentrations were compared to the December 2005 concentrations. The concentrations did not change from the December 2005 values in MW-1, MW-2, and MW-3, and decreased slightly in MW-3, MW-4, and MW-5. It increased slightly in MW-6. The concentrations in the wells are similar to those measured in January 2005. Past values and the values from March 2006 suggest that the perchlorate concentrations fluctuate from seasonal or other hydrologic influences, however there has not been much hydrologic changes since December.

Table 4 presents a summary of water quality analyte concentrations. Chlorate concentrations in groundwater are less than the laboratory-reporting limit of 0.5 mg/l in all samples. Concentrations of chloride, sulfate, and TDS exceeded drinking water standards of 250 mg/l, 250 mg/L, and 500 mg/L, respectively, in all groundwater samples, and nitrate concentrations exceeded the maximum contaminant level (MCL) of 10 mg/l in monitoring wells MW-1, MW-4, and MW-6. These results are similar to the results from the previous sampling events.

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Surface Water

Table 3 presents a summary of perchlorate concentrations from surface water samples. Perchlorate concentrations in each surface water sample exceeded the Nevada Public Notice Standard of 18 μg/l. The perchlorate concentrations in the pond have increased at each sampling location an average of 40 percent from the December 2005 event. Like December 2005, the range of concentrations in the pond samples is small (43 to 48 μg/L). These concentrations are higher than the results from previous events

Table 4 presents a summary of water quality analyte concentrations. Chlorate concentrations in the surface water on the subject property are less than the laboratory-reporting limit of 0.5 mg/l in all samples. Nitrate concentrations exceeded the maximum contaminant level (MCL) of 10 mg/l at all sample points except W-4. Concentrations of chloride, sulfate, and TDS were similar in magnitude to the groundwater sample results.

Results of Quality Control Samples

The results of the two duplicate water samples were within 10 percent accuracy. This is within acceptable limits for quality control. The equipment blank sample showed no analytes above laboratory detection limits. According to the laboratory analytical reports, the analyses met their respective method criteria for QA/QC. A Level IV QA package has been prepared and submitted to DataVal, Inc. for data validation. Results of the data validation for the March 2006 package will be provided to NDEP in a separate letter report.

RECOMMENDATIONS

Perchlorate concentrations in the groundwater and surface water at the subject property exceeded the Nevada Public Notice Standard of 18 μg/L. These concentrations indicate an increasing trend in the perchlorate concentrations in the surface water on the subject property over the course of a year. Perchlorate concentrations in the groundwater and surface water should be further evaluated to assess the trend in the concentrations. Kleinfelder recommends at least one more quarterly monitoring event to assess the perchlorate concentration trend.

LIMITATIONS

This groundwater monitoring report is based on the field observations made by Kleinfelder personnel and laboratory analytical data obtained from Del Mar Analytical. The services performed by Kleinfelder were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in Nevada. No warranty, express or implied, is made.

This report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both onsite and offsite) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall

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notify Kleinfelder of such intended use. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

CLOSING

If you have any questions or comments, or should you require more information, please call Gary Carter at (702) 736-2936. We appreciate the opportunity to work with you on this project.

Respectfully submitted,

KLEINFELDER, INC.

Gary A. Carter, P.E., C.E.M.
Project Manager
Nevada Environmental Manager #1909
Expires January 26, 2007

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances.

GAC/map

Enclosures:	Figure 1:	Site Location Map
	Figure 2:	Site Plan
	Figure 3:	Sampling Locations
	Table 1:	Sample Identification
	Table 2:	Groundwater Elevation Data
	Table 3:	Summary of Analytical Results: PCE
	Table 4:	Summary of Analytical Results: Water Quality Parameters
	Appendix A:	Laboratory Analytical Reports
	Appendix B:	Groundwater Sampling Field Notes

cc: Mr. Todd Croft, Bureau of Corrective Actions, 1771 E. Flamingo Rd, Ste 121-A, Las Vegas, NV 89119-0837

Ms. Brenda Pohlmann, City of Henderson, 240 Water Street Henderson, NV 89009-5050

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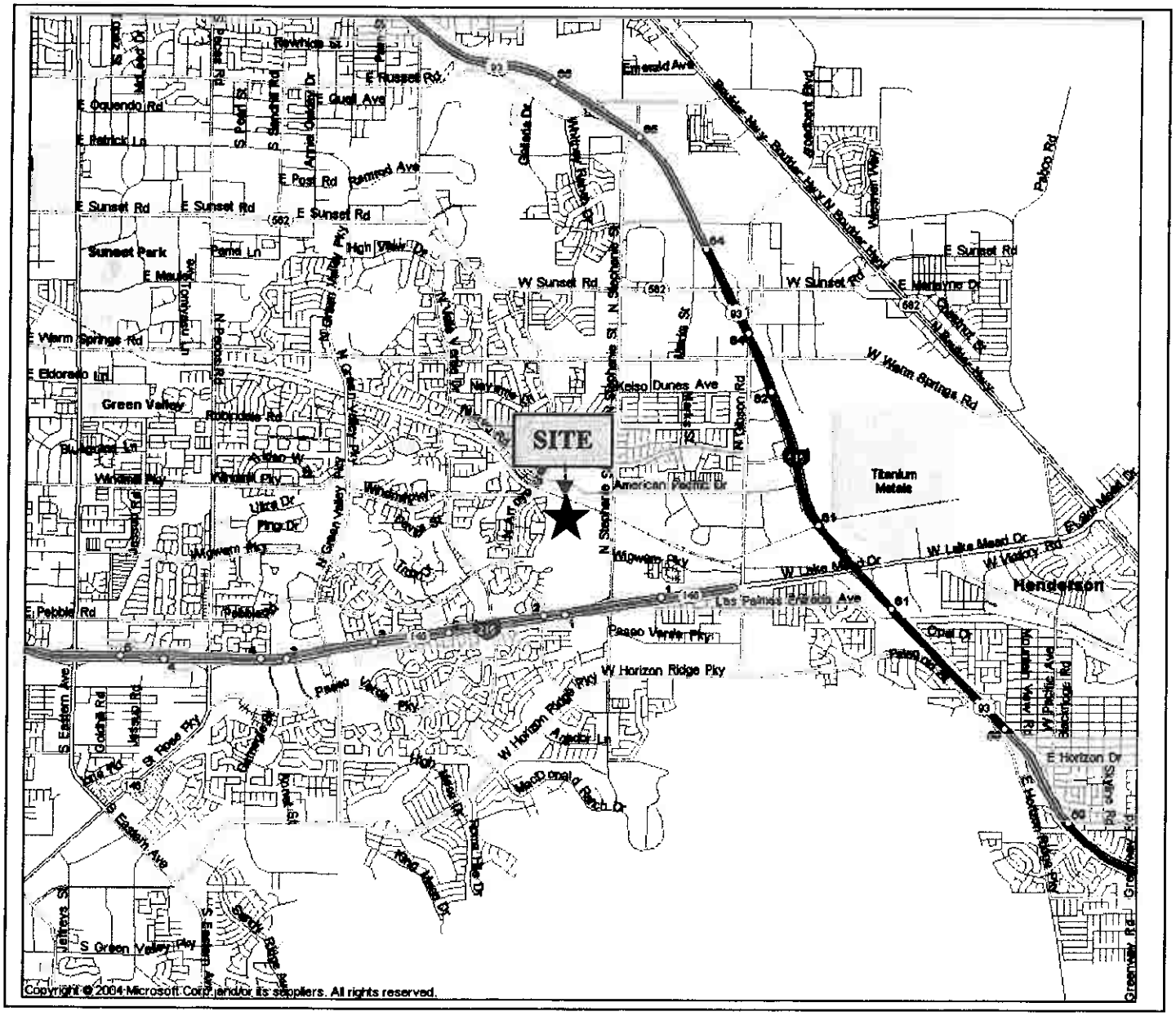
FIGURES



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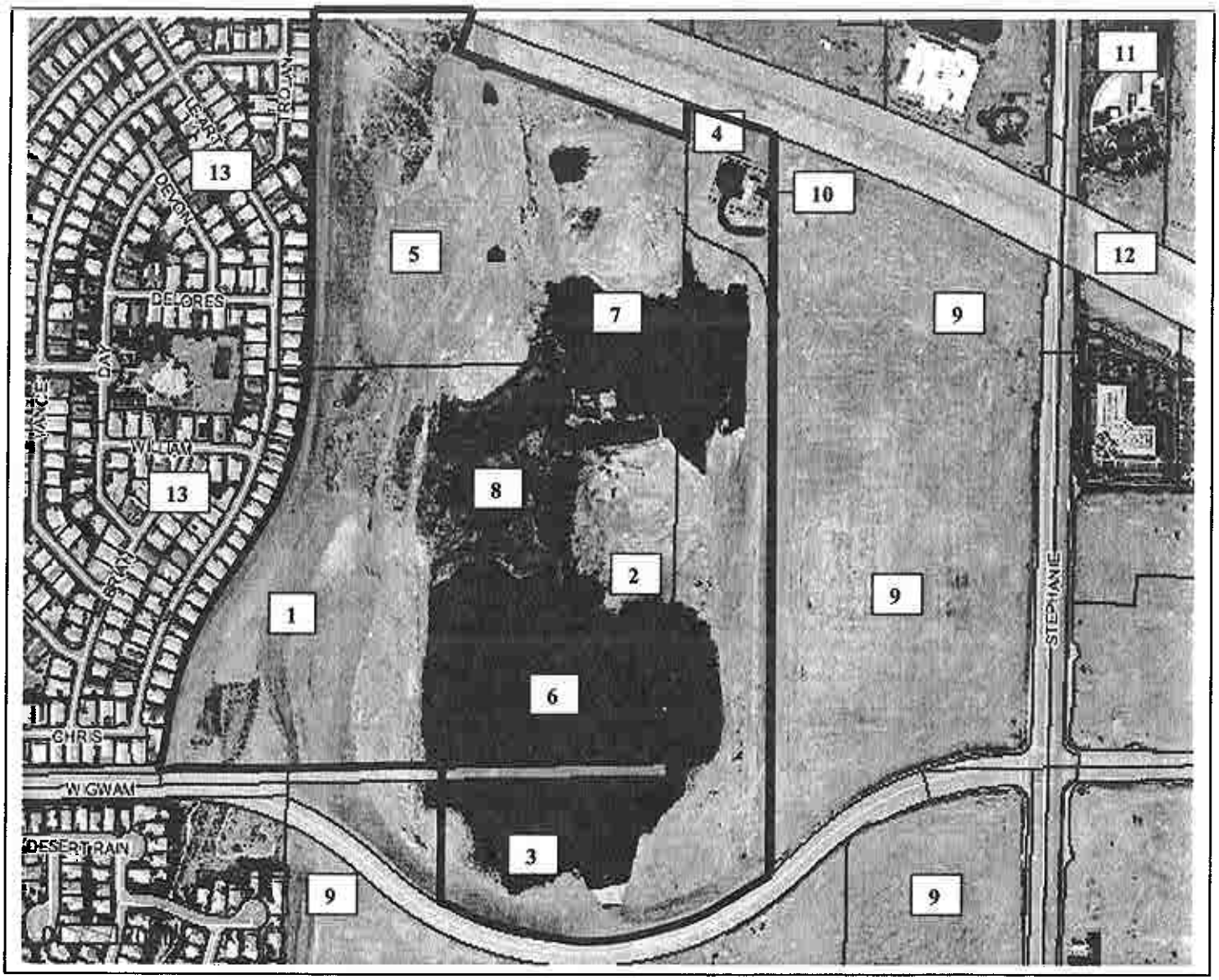
SITE LOCATION MAP

CORNERSTONE REDEVELOPMENT AREA
HENDERSON, NEVADA

Figure
1



Reference: 2005 Clark County Tax Assessor Website

LEGEND

1 Parcel 178-16-601-003
2 Parcel 178-16-601-004
3 Parcel 178-16-710-002
4 Parcel 178-16-510-002
5 Parcel 178-16-501-001
6 Site Lake
7 Site Pond
8 Slough
9 Vacant Land
10 City of Henderson Pumping Station
11 Dept. of Motor Vehicles
12 UPRR Right-of-Way
13 Residential Properties
14 Boundaries of Subject Site

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SITE PLAN

CORNERSTONE REDEVELOPMENT AREA
HENDERSON, NEVADA

Figure
2

LEGEND

- ● **Groundwater Monitoring Wells**
- ⬡ **Surface Water Sample Points**
- ▬ **Boundaries of Subject Site**

N

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SAMPLE LOCATION MAP

CORNERSTONE REDEVELOPMENT AREA
HENDERSON, NEVADA

Figure
3

TABLES

Table 1
Sample Identification

Sample Location	Sample Identification	
	Field	Laboratory
MW-1	MW1-GW-1	PPC0823-01
MW-2	MW2-GW-2	PPC0823-02
MW-3	MW3-GW-3	PPC0823-03
MW-3	MW7-GW-7 *	PPC0823-07
MW-4	MW4-GW-4	PPC0823-04
MW-5	MW5-GW-5	PPC0823-05
MW-6	MW6-GW-6	PPC0823-06
W-1, 2 ft.	W1-SW-2-1	PPC0823-08
W-1, 2 ft.	W6-SW-2-9 *	PPC0823-16
W-1, 10 ft.	W1-SW-10-2	PPC0823-09
W-2, 2 ft.	W2-SW-2-3	PPC0823-10
W-2, 10 ft.	W2-SW-10-4	PPC0823-11
W-3, 2 ft.	W3-SW-2-5	PPC0823-12
W-3, 10 ft.	W3-SW-10-6	PPC0823-13
W-4, 2 ft.	W4-SW-2-7	PPC0823-14
-	W5-SW-2-8 **	PPC0823-15

NOTES
* Field Duplicate
** Equipment Blank
- Not Applicable

Table 2
Groundwater Elevation Data

Well Number	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Well Head Elevation (ft)	1891.65	1888.97	1881.88	1882.03	1886.77	1883.86
Total Well Depth (ft)	21.71	34.61	29.90	19.29	22.75	18.71
	Groundwater Elevations (ft)					
1/19/2005	1886.33	1874.51	1867.92	1880.84	1878.42	*
6/20/2005	1885.65	1868.20	1865.21	1879.03	1877.05	1882.09
9/29/2005	1886.40	1870.07	1867.53	1879.89	1878.76	1882.81
12/20/2005	1886.73	1868.63	1865.95	1880.47	1878.22	1883.31
3/28/2006	1886.70	1875.39	1865.64	1880.48	1878.27	1883.36

* Groundwater elevation not calculated due to artesian flow conditions

Table 3
Summary of Analytical Results for Perchlorate

Groundwater Samples

Sample Date	Perchlorate (µg/L)						
	MW-1	MW-2	MW-3	MW-3	MW-4	MW-5	MW-6
	MW1-GW-1	MW2-GW-2	MW3-GW-3	MW7-GW-7	MW4-GW-4	MW5-GW-5	MW6-GW-6
Jan-05	60	85	59	57	55	33	74
Sep-05	55	30	56	54	45	28	64
Dec-05	60	64	59	61	54	18	74
Mar-06	60	64	55	56	53	14	77

Surface Water Samples

Sample Date	Perchlorate (µg/L)								
	W-1	W-1	W-1	W-2	W-2	W-3	W-3	W-4	Equip.Blank
	W1-SW-2-1	W6-SW-2-9	W1-SW-10-2	W2-SW-2-3	W2-SW-10-4	W3-SW-2-5	W3-SW-10-6	W4-SW-2-7	W5-SW-2-8
Jan-05	37	39	37	38	37	38	37	38	< 2.0
Sep-05	20	22	24	22	23	23	21	19	< 2.0
Dec-05	34	31	31	34	33	34	34	32	< 2.0
Mar-06	47	47	45	43	46	46	45	48	< 4.0

NOTES:
µg/L = micrograms per liter
The laboratory reporting limit for perchlorate is 4.0 µg/L for the March 2006 event.

Table 4
Summary of Analytical Results for Water Quality Parameters
March 2006

Groundwater Samples

Analyte mg/L	MW-1	MW-2	MW-3	MW-3	MW-4	MW-5	MW-6
	MW1-GW-1	MW2-GW-2	MW3-GW-3	MW7-GW-7	MW4-GW-4	MW5-GW-5	MW6-GW-6
Chlorate	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloride	470	360	280	340	500	280	360
Nitrate – N	15	8.7	6.1	5.5	13	1.1	18
Sulfate	1500	1700	550	630	960	1800	1800
TDS	3000	3600	1800	1700	2400	3700	4200

Surface Water Samples

Analyte mg/L	W-1	W-1	W-1	W-2	W-2	W-3	W-3	W-4	Equip.Blank
	W1-SW-2-1	W6-SW-2-9	W1-SW-10-2	W2-SW-2-3	W2-SW-10-4	W3-SW-2-5	W3-SW-10-6	W4-SW-2-7	W5-SW-2-8
Chlorate	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloride	290	290	190	300	290	290	270	310	< 0.5
Nitrate - N	11	11	11	11	11	11	11	9.4	< 0.1
Sulfate	1900	2100	1300	2000	1900	1900	1800	1700	< 0.5
TDS	3600	3600	3600	3600	3600	3600	3600	3600	< 20

NOTES:
mg/L = milligrams per liter

APPENDIX A

Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

LABORATORY REPORT

Prepared For: Kleinfelder, Inc. - Las Vegas
6380 S. Polaris Ave
Las Vegas, NV 89118
Attention: Gary Carter

Project: 61801/Cornerstone

Sampled: 03/28/06
Received: 03/29/06
Issued: 04/05/06 08:43

NELAP #01109CA Nevada #AZ907

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain(s) of Custody, 4 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PPC0823-01	MW1-GW-1	Water
PPC0823-02	MW2-GW-2	Water
PPC0823-03	MW3-GW-3	Water
PPC0823-04	MW4-GW-4	Water
PPC0823-05	MW5-GW-5	Water
PPC0823-06	MW6-GW-6	Water
PPC0823-07	MW7-GW-7	Water
PPC0823-08	W1-SW-2-1	Water
PPC0823-09	W1-SW-10-2	Water
PPC0823-10	W2-SW-2-3	Water
PPC0823-11	W2-SW-10-4	Water
PPC0823-12	W3-SW-2-5	Water
PPC0823-13	W3-SW-10-6	Water
PPC0823-14	W4-SW-2-7	Water
PPC0823-15	W5-SW-2-8	Water
PPC0823-16	W6-SW-2-9	Water

Del Mar Analytical - Phoenix
Linda Eshelman
Project Manager

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Del Mar Analytical

Kleinfelder, Inc. - Las Vegas
6380 S. Polaris Ave
Las Vegas, NV 89118
Attention: Gary Carter

Project ID: 61801/Cornerstone

Report Number: PPC0823

Sampled: 03/28/06
Received: 03/29/06

SAMPLE RECEIPT:	Samples were received intact, at 3°C, on ice and with chain of custody documentation.
HOLDING TIMES:	All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers. M-3 - Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
COMMENTS:	No significant observations were made.
SUBCONTRACTED:	Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:

Del Mar Analytical - Phoenix
Linda Eshelman
Project Manager

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Del Mar Analytical

Kleinfelder, Inc. - Las Vegas
6380 S. Polaris Ave
Las Vegas, NV 89118
Attention: Gary Carter

Project ID: 61801/Cornerstone

Report Number: PPC0823

Sampled: 03/28/06
Received: 03/29/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PPC0823-01 (MW1-GW-1 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	1.0	**15**	10	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**3000**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-01RE1 (MW1-GW-1 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**470**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**1500**	100	4/3/2006	4/3/2006	
Sample ID: PPC0823-02 (MW2-GW-2 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6C2907	50	**360**	100	3/29/2006	3/29/2006	
Nitrate-N	EPA 300.0	P6C2907	0.10	**8.7**	1	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**3600**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-02RE2 (MW2-GW-2 - Water)								
Reporting Units: mg/l								
Sulfate	EPA 300.0	P6D0303	50	**1700**	100	4/3/2006	4/3/2006	
Sample ID: PPC0823-03 (MW3-GW-3 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	0.10	**6.1**	1	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**1800**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-03RE1 (MW3-GW-3 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**280**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**550**	100	4/3/2006	4/3/2006	
Sample ID: PPC0823-04 (MW4-GW-4 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	1.0	**13**	10	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**2400**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-04RE1 (MW4-GW-4 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**500**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**960**	100	4/3/2006	4/3/2006	

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Kleinfelder, Inc. - Las Vegas
6380 S. Polaris Ave
Las Vegas, NV 89118
Attention: Gary Carter

Project ID: 61801/Cornerstone

Report Number: PPC0823

Sampled: 03/28/06
Received: 03/29/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PPC0823-05 (MW5-GW-5 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	0.10	**1.1**	1	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**3700**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-05RE1 (MW5-GW-5 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**280**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**1800**	100	4/3/2006	4/3/2006	
Sample ID: PPC0823-06 (MW6-GW-6 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	1.0	**18**	10	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**4200**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-06RE1 (MW6-GW-6 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**360**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**1800**	100	4/3/2006	4/3/2006	
Sample ID: PPC0823-07 (MW7-GW-7 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	0.10	**5.5**	1	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**1700**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-07RE1 (MW7-GW-7 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**340**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**630**	100	4/3/2006	4/3/2006	
Sample ID: PPC0823-08 (W1-SW-2-1 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	1.0	**11**	10	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**3600**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-08RE1 (W1-SW-2-1 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**290**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**1900**	100	4/3/2006	4/3/2006	

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Attention: Gary Carter

Project ID: 61801/Cornerstone

Report Number: PPC0823

Sampled: 03/28/06
Received: 03/29/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PPC0823-09 (W1-SW-10-2 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	1.0	**11**	10	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**3600**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-09RE1 (W1-SW-10-2 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**190**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**1300**	100	4/3/2006	4/3/2006	
Sample ID: PPC0823-10 (W2-SW-2-3 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	1.0	**11**	10	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**3600**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-10RE1 (W2-SW-2-3 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**300**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**2000**	100	4/3/2006	4/3/2006	
Sample ID: PPC0823-11 (W2-SW-10-4 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	1.0	**11**	10	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**3600**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-11RE1 (W2-SW-10-4 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**290**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**1900**	100	4/3/2006	4/3/2006	
Sample ID: PPC0823-12 (W3-SW-2-5 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	1.0	**11**	10	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**3600**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-12RE1 (W3-SW-2-5 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**290**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**1900**	100	4/3/2006	4/3/2006	

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INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PPC0823-13 (W3-SW-10-6 - Water)								
Reporting Units: mg/l								
Nitrate-N	EPA 300.0	P6C2907	1.0	**11**	10	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**3600**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-13RE1 (W3-SW-10-6 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6D0303	50	**270**	100	4/3/2006	4/3/2006	
Sulfate	EPA 300.0	P6D0303	50	**1800**	100	4/3/2006	4/3/2006	
Sample ID: PPC0823-14 (W4-SW-2-7 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6C2907	50	**310**	100	3/29/2006	3/29/2006	
Nitrate-N	EPA 300.0	P6C2907	0.10	**9.4**	1	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**3600**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-14RE1 (W4-SW-2-7 - Water)								
Reporting Units: mg/l								
Sulfate	EPA 300.0	P6D0303	50	**1700**	100	4/3/2006	4/3/2006	
Sample ID: PPC0823-15 (W5-SW-2-8 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6C2907	0.50	ND	1	3/29/2006	3/29/2006	
Nitrate-N	EPA 300.0	P6C2907	0.10	ND	1	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	20	ND	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-15RE1 (W5-SW-2-8 - Water)								
Reporting Units: mg/l								
Sulfate	EPA 300.0	P6D0303	0.50	ND	1	4/3/2006	4/3/2006	
Sample ID: PPC0823-16 (W6-SW-2-9 - Water)								
Reporting Units: mg/l								
Chloride	EPA 300.0	P6C2907	50	**290**	100	3/29/2006	3/29/2006	
Nitrate-N	EPA 300.0	P6C2907	1.0	**11**	10	3/29/2006	3/29/2006	
Total Dissolved Solids	SM2540C	P6C3014	100	**3600**	5	3/30/2006	3/30/2006	
Sample ID: PPC0823-16RE1 (W6-SW-2-9 - Water)								
Reporting Units: mg/l								
Sulfate	EPA 300.0	P6D0303	50	**2100**	100	4/3/2006	4/3/2006	

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INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PPC0823-01 (MW1-GW-1 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**60**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-02 (MW2-GW-2 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**64**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-03 (MW3-GW-3 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**55**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-04 (MW4-GW-4 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**53**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-05 (MW5-GW-5 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**14**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-06 (MW6-GW-6 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**77**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-07 (MW7-GW-7 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**56**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-08 (W1-SW-2-1 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**47**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-09 (W1-SW-10-2 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**45**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-10 (W2-SW-2-3 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**43**	1	3/30/2006	3/30/2006	

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Attention: Gary Carter

Project ID: 61801/Cornerstone

Report Number: PPC0823

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Received: 03/29/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PPC0823-11 (W2-SW-10-4 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**46**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-12 (W3-SW-2-5 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**46**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-13 (W3-SW-10-6 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**45**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-14 (W4-SW-2-7 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**48**	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-15 (W5-SW-2-8 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	ND	1	3/30/2006	3/30/2006	
Sample ID: PPC0823-16 (W6-SW-2-9 - Water)								
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6C30069	4.0	**47**	1	3/30/2006	3/30/2006	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: MW1-GW-1 (PPC0823-01) - Water					
EPA 300.0	2	03/28/2006 12:10	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 16:32
Sample ID: MW2-GW-2 (PPC0823-02) - Water					
EPA 300.0	2	03/28/2006 13:00	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 12:01
Sample ID: MW3-GW-3 (PPC0823-03) - Water					
EPA 300.0	2	03/28/2006 11:25	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 12:16
Sample ID: MW4-GW-4 (PPC0823-04) - Water					
EPA 300.0	2	03/28/2006 10:50	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 16:48
Sample ID: MW5-GW-5 (PPC0823-05) - Water					
EPA 300.0	2	03/28/2006 10:00	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 12:48
Sample ID: MW6-GW-6 (PPC0823-06) - Water					
EPA 300.0	2	03/28/2006 12:30	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 17:04
Sample ID: MW7-GW-7 (PPC0823-07) - Water					
EPA 300.0	2	03/28/2006 12:00	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 13:20
Sample ID: W1-SW-2-1 (PPC0823-08) - Water					
EPA 300.0	2	03/28/2006 10:45	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 17:19
Sample ID: W1-SW-10-2 (PPC0823-09) - Water					
EPA 300.0	2	03/28/2006 10:55	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 17:35
Sample ID: W2-SW-2-3 (PPC0823-10) - Water					
EPA 300.0	2	03/28/2006 10:20	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 17:51
Sample ID: W2-SW-10-4 (PPC0823-11) - Water					
EPA 300.0	2	03/28/2006 10:30	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 18:48
Sample ID: W3-SW-2-5 (PPC0823-12) - Water					
EPA 300.0	2	03/28/2006 09:50	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 19:04
Sample ID: W3-SW-10-6 (PPC0823-13) - Water					
EPA 300.0	2	03/28/2006 10:00	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 19:20
Sample ID: W4-SW-2-7 (PPC0823-14) - Water					
EPA 300.0	2	03/28/2006 11:00	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 19:35
Sample ID: W5-SW-2-8 (PPC0823-15) - Water					
EPA 300.0	2	03/28/2006 14:30	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 20:23
Sample ID: W6-SW-2-9 (PPC0823-16) - Water					
EPA 300.0	2	03/28/2006 09:30	03/29/2006 08:35	03/29/2006 10:33	03/29/2006 21:57

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P6C2907 Extracted: 03/29/06										
Blank Analyzed: 03/29/2006 (P6C2907-BLK1)										
Nitrate-N	ND	0.10	mg/l							
Chloride	ND	0.50	mg/l							
LCS Analyzed: 03/29/2006 (P6C2907-BS1)										
Nitrate-N	2.55	0.10	mg/l	2.50		102	90-110			
Chloride	5.19	0.50	mg/l	5.00		104	90-110			
LCS Dup Analyzed: 03/29/2006 (P6C2907-BSD1)										
Chloride	5.18	0.50	mg/l	5.00		104	90-110	0	15	
Nitrate-N	2.56	0.10	mg/l	2.50		102	90-110	0	15	
Matrix Spike Analyzed: 03/30/2006 (P6C2907-MS1)					**Source: PPC0823-02RE1**					
Nitrate-N	34.8	1.0	mg/l	25.0	8.7	104	80-120			
Chloride	357	5.0	mg/l	50.0	350	14	80-120			*M2*
Matrix Spike Dup Analyzed: 03/30/2006 (P6C2907-MSD1)					**Source: PPC0823-02RE1**					
Nitrate-N	34.7	1.0	mg/l	25.0	8.7	104	80-120	0	15	
Chloride	357	5.0	mg/l	50.0	350	14	80-120	0	15	*M2*
Batch: P6C3014 Extracted: 03/30/06										
Blank Analyzed: 03/30/2006 (P6C3014-BLK1)										
Total Dissolved Solids	ND	20	mg/l							
LCS Analyzed: 03/30/2006 (P6C3014-BS1)										
Total Dissolved Solids	384	20	mg/l	400		96	80-115			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P6C3014 Extracted: 03/30/06										
LCS Dup Analyzed: 03/30/2006 (P6C3014-BSD1)										
Total Dissolved Solids	384	20	mg/l	400		96	80-115	0	10	
Duplicate Analyzed: 03/30/2006 (P6C3014-DUP1)					**Source: PPC0791-01**					
Total Dissolved Solids	7440	100	mg/l		7500			1	10	
Duplicate Analyzed: 03/30/2006 (P6C3014-DUP2)					**Source: PPC0823-07**					
Total Dissolved Solids	1700	100	mg/l		1700			0	10	
Batch: P6D0303 Extracted: 04/03/06										
Blank Analyzed: 04/03/2006 (P6D0303-BLK1)										
Chloride	ND	0.50	mg/l							
Sulfate	ND	0.50	mg/l							
LCS Analyzed: 04/03/2006 (P6D0303-BS1)										
Sulfate	5.02	0.50	mg/l	5.00		100	90-110			
Chloride	4.80	0.50	mg/l	5.00		96	90-110			
LCS Dup Analyzed: 04/03/2006 (P6D0303-BSD1)										
Sulfate	5.04	0.50	mg/l	5.00		101	90-110	0	15	
Chloride	4.84	0.50	mg/l	5.00		97	90-110	1	15	
Matrix Spike Analyzed: 04/03/2006 (P6D0303-MS1)					**Source: PPC0823-12RE2**					
Chloride	336	5.0	mg/l	50.0	310	52	80-120			*M-HA*
Sulfate	1170	5.0	mg/l	50.0	1200	-60	80-120			*M-HA*
Matrix Spike Dup Analyzed: 04/03/2006 (P6D0303-MSD1)					**Source: PPC0823-12RE2**					
Sulfate	1170	5.0	mg/l	50.0	1200	-60	80-120	0	15	*M-HA*
Chloride	346	5.0	mg/l	50.0	310	72	80-120	3	15	*M-HA*

Del Mar Analytical - Phoenix
Linda Eshelman
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

Del Mar Analytical

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Kleinfelder, Inc. - Las Vegas
6380 S. Polaris Ave
Las Vegas, NV 89118
Attention: Gary Carter

Project ID: 61801/Cornerstone

Report Number: PPC0823

Sampled: 03/28/06
Received: 03/29/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6C30069 Extracted: 03/30/06										
Blank Analyzed: 03/30/2006 (6C30069-BLK1)										
Perchlorate	ND	4.0	ug/l							
LCS Analyzed: 03/30/2006 (6C30069-BS1)										
Perchlorate	50.4	4.0	ug/l	50.0		101	85-115			*M-3*

Del Mar Analytical - Phoenix
Linda Eshelman
Project Manager

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Kleinfelder, Inc. - Las Vegas
6380 S. Polaris Ave
Las Vegas, NV 89118
Attention: Gary Carter

Project ID: 61801/Cornerstone

Report Number: PPC0823

Sampled: 03/28/06
Received: 03/29/06

DATA QUALIFIERS AND DEFINITIONS

M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M-3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
M-HA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

Del Mar Analytical - Phoenix
Linda Eshelman
Project Manager

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Del Mar Analytical

Kleinfelder, Inc. - Las Vegas
6380 S. Polaris Ave
Las Vegas, NV 89118
Attention: Gary Carter

Project ID: 61801/Cornerstone

Report Number: PPC0823

Sampled: 03/28/06
Received: 03/29/06

Certification Summary

Del Mar Analytical - Phoenix

Method	Matrix	Nelac	Nevada
EPA 300.0	Water		X
EPA 314.0	Water		
SM2540C	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Del Mar Analytical *NELAC Cert #01108CA, California Cert #1197, Arizona Cert #AZ0671, Nevada Cert #CA72-2002-63*

17461 Derian Ave. Suite 100 - Irvine, CA 92614

Method Performed: EPA 314.0

Samples: PPC0823-01, PPC0823-02, PPC0823-03, PPC0823-04, PPC0823-05, PPC0823-06, PPC0823-07, PPC0823-08, PPC0823-09, PPC0823-10, PPC0823-11, PPC0823-12, PPC0823-13, PPC0823-14, PPC0823-15, PPC0823-16

Sierra Environmental Monitoring, Inc.

1135 Financial Blvd. - Reno, NV 89502

Analysis Performed: Chlorate (300.1) - O

Samples: PPC0823-01, PPC0823-02, PPC0823-03, PPC0823-04, PPC0823-05, PPC0823-06, PPC0823-07, PPC0823-08, PPC0823-09, PPC0823-10, PPC0823-11, PPC0823-12, PPC0823-13, PPC0823-14, PPC0823-15, PPC0823-16

Del Mar Analytical - Phoenix
Linda Eshelman
Project Manager

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Del Mar Analytical LPC0060 - PPC0823

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589
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2520 E. Sunset Rd., Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address: Kleinfelder

Project/PO Number: 61801; Cornerstone

Project Manager: Gary Carter

Phone Number: 736-2936

Sampler:

Fax Number: 361-9094

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	ClO4	ClO3	NO3, Cl, SO4 TDS							Special Instructions
MW1-GW-1	W	P	3	3/28	12:10		X	X	X				PPC0823-01			
MW2-GW-2	↓	↓	↓	↓	13:00		↓	↓	↓						-02	Lab QC Sample
MW3-GW-3	↓	↓	↓	↓	11:25		↓	↓	↓						-03	
MW4-GW-4	↓	↓	↓	↓	10:50		↓	↓	↓						-04	ClO3-SEM
MW5-GW-5	↓	↓	↓	↓	10:00		↓	↓	↓						-05	ClO4-DMT
MW6-GW-6	↓	↓	↓	↓	12:30		↓	↓	↓						-06	
MW7-GW-7	↓	↓	↓	↓	12:00		↓	↓	↓						-07	
W1-SW-2-1	↓	↓	↓	↓	10:45		↓	↓	↓						-08	
W1-SW-10-2	↓	↓	↓	↓	10:55		↓	↓	↓						-09	
W2-SW-2-3	↓	↓	↓	↓	10:20		↓	↓	↓						-10	
W2-SW-10-4	↓	↓	↓	↓	10:30		↓	↓	↓						-11	
W3-SW-2-5	↓	↓	↓	↓	9:50		↓	↓	↓						-12	Lab QC Sample
W3-SW-10-6	↓	↓	↓	↓	10:00		↓	↓	↓						-13	
W4-SW-2-7	↓	↓	↓	↓	11:00		↓	↓	↓						-14	

Provide a level IV QA data package as well as analytical data reports

Relinquished By:	Date /Time:	Received by:	Date /Time:
[signature]	3/28/06 2:50 pm	[signature]	3/28 14:00
[signature]	3/28 [illegible]		3/28/6
		Received in Lab by: [signature]	3/29/6 0835

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact ✓ on ice 10.1

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

CA O/N 3/29/6

3.3

Del Mar Analytical

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2520 E. Sunset Rd., Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

LPC0060 - PPC0823

CHAIN OF CUSTODY FORM

Client Name/Address: Kleinfelder

Project/PO Number: 61801; Cornerstone

Project Manager:

Phone Number: 736-2936

Sampler:

Fax Number: 361-9094

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	ClO4	ClO3	NO3, Cl, SO4 TDS							Special Instructions
W5-SW-2-8	W	P	3	3/28	14:30		X	X	X					PPC0823-		15
W6-SW-2-9	W	P	3	↓	9:30		X	X	X					↓		-16

Relinquished By:	Date /Time:	Received by:	Date /Time:
[signature]	3/28/06 2:50 pm	[signature]	3/28 14:50
[signature] 3/28 UG CA 2/N			3/28/6
		Received in Lab by: [signature]	3/28/6 0835

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact ____ on ice 10.1

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

3/29/6 [initials]

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
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Del Mar Analytical

CHAIN OF CUSTODY FORM

IPC 2854 Page 1 of 2

Client Name/Address: DMAP

Project/PO Number: PPC0823

Project Manager: Linda Esheimon

Phone Number: NA

Sampler:

Fax Number:

Analysis Required: CLO4 (Perchlorate)

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	CLO4 (Perchlorate)	Special Instructions
PPC0823-01	W	500P	1	3/28	12:10	—	X	DMAI
PPC0823-02					13:00	—	X	
PPC0823-03					11:25	—	X	
PPC0823-04					10:50	—	X	
PPC0823-05					10:00	—	X	
PPC0823-06					12:30	—	X	
PPC0823-07					12:00	—	X	
PPC0823-08					10:45	—	X	
PPC0823-09					10:55	—	X	NAM
PPC0823-10					10:20	—	X	2-24@ 1038
PPC0823-11					10:30	—	X	
PPC0823-12					9:50	—	X	
PPC0823-13					10:00	—	X	
PPC0823-14					11:00	—	X	

Relinquished By: Lauman 3/28 4a CAPN Date /Time:

Relinquished By: Date /Time:

Relinquished By: Date /Time:

Received by: Date /Time:

Received by: Date /Time:

Received in Lab by: Nicholas May Date /Time: 3-29-06 0855

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X 4/4/06

Sample Integrity: (Check)
intact X on ice X 5°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

(5)

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Del Mar Analytical

CHAIN OF CUSTODY FORM

Client Name/Address: DMAP

Project/PO Number: PPC0823

Project Manager: Linda Eshelman

Sampler:

Phone Number:

Fax Number: NA

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	C104									Special Instructions
PPC0823-05	w	500P	1	3/28	14:30	—	X									-DMAT
PPC0823-16	↓	↓	↓	↓	9:30	—	X									

Relinquished By: [signature] Date /Time: 3/28/06 UACA 9h

Received by: Date /Time:

Relinquished By: Date /Time:

Received by: Date /Time:

Relinquished By: Date /Time:

Received in Lab by: Nicholas Mary Date /Time: 3-29-06 0855

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal 4/4/06

Sample Integrity: (Check)
intact X on ice X 5°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Laboratory Report
Report ID: 74920

Sierra Environmental Monitoring, Inc.

Del Mar Analytical
Attn: Linda Eshelman
9830 South 51th Street, Ste B-120
Phoenix, Arizona 85044

Date:	4/13/2006
Client:	DMR-101
Taken by:	Client
PO #:	PPC0823

Dear Linda Eshelman,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:

- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

Approved By: **Date:**

Sierra Environmental Monitoring, Inc. 4/13/2006

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

John Kobza, Ph.D.
Laboratory Director

1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager

Laboratory Report
Report ID: 74920

Sierra Environmental Monitoring, Inc.

Del Mar Analytical
Attn: Linda Eshelman
9830 South 51th Street, Ste B-120
Phoenix, Arizona 85044

Date: 4/13/2006
Client: DMR-101
Taken by: Client
PO #: PPC0823

Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2345	PPC0823-01	3/28/2006	12:10 PM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2346	PPC0823-02	3/28/2006	1:00 PM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2347	PPC0823-03	3/28/2006	11:25 AM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2348	PPC0823-04	3/28/2006	10:50 AM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

John Kobza, Ph.D.
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John C. Seher
Special Consultant
Quality Assurance Manager

Laboratory Report
Report ID: 74920

Sierra Environmental Monitoring, Inc.

Del Mar Analytical
Attn: Linda Eshelman
9830 South 51th Street, Ste B-120
Phoenix, Arizona 85044

Date: 4/13/2006
Client: DMR-101
Taken by: Client
PO #: PPC0823

Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2349	PPC0823-05	3/28/2006	10:00 AM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2350	PPC0823-06	3/28/2006	12:30 PM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2351	PPC0823-07	3/28/2006	12:00 PM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2352	PPC0823-08	3/28/2006	10:45 AM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

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John C. Seher
Special Consultant
Quality Assurance Manager

Laboratory Report
Report ID: 74920

Sierra Environmental Monitoring, Inc.

Del Mar Analytical
Attn: Linda Eshelman
9830 South 51th Street, Ste B-120
Phoenix, Arizona 85044

Date: 4/13/2006
Client: DMR-101
Taken by: Client
PO #: PPC0823

Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2353	PPC0823-09	3/28/2006	10:55 AM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2354	PPC0823-10	3/28/2006	10:20 AM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2355	PPC0823-11	3/28/2006	10:30 AM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2356	PPC0823-12	3/28/2006	9:50 AM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

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John C. Seher
Special Consultant
Quality Assurance Manager

Laboratory Report
Report ID: 74920

Sierra Environmental Monitoring, Inc.

Del Mar Analytical
Attn: Linda Eshelman
9830 South 51th Street, Ste B-120
Phoenix, Arizona 85044

Date: 4/13/2006
Client: DMR-101
Taken by: Client
PO #: PPC0823

Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2357	PPC0823-13	3/28/2006	10:00 AM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2358	PPC0823-14	3/28/2006	11:00 AM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2359	PPC0823-15	3/28/2006	2:30 PM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200603-2360	PPC0823-16	3/28/2006	9:30 AM	3/30/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.1	Henderson	4/11/2006	

Data Flag Legend:

John Kobza, Ph.D.
Laboratory Director

1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager

Laboratory Report
Report ID: 74920

Sierra Environmental Monitoring, Inc.

Del Mar Analytical
Attn: Linda Eshelman
9830 South 51th Street, Ste B-120
Phoenix, Arizona 85044

Date: 4/13/2006
Client: DMR-101
Taken by: Client
PO #: PPC0823

Quality Control Report

Parameter	*LCS, % Recovery*	*MS, % Recovery*	*MSD, % Recovery*	*RPD, %*	*Method Blank*
Chlorate	101.0	106.0	102.0	3.85	<0.5 mg/L

Legend: LCS- Laboratory Control Standard MS- Matrix Spike MSD- Matrix Spike Duplicate
RPD- Relative Percent Difference

John Kobza, Ph.D.
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Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 806, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd., Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

14926

Client Name/Address: Del Mar 9830 S 51st St, Suite B-120 Phoenix, AZ 85044

Project/PO Number: PPC0823

Project Manager: Linda Eshelman

Phone Number: 480)785-0043

Sampler:

Fax Number: 480)785-0851

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	ClO3 (chlorate)									Special Instructions
PPC0823-01	W	SLOP	1	3/28	12:10	NONE	X									SEM
PPC0823-02					13:00		X									
PPC0823-03					11:25		X									
PPC0823-04					10:50		X									
PPC0823-05					10:00		X									
PPC0823-06					12:30		X									
PPC0823-07					12:00		X									
PPC0823-08					10:45		X									
PPC0823-09					10:55		X									
PPC0823-10					10:20		X									
PPC0823-11					10:30		X									
PPC0823-12					9:50		X									
PPC0823-13					10:00		X									
PPC0823-14					11:00		X									

Relinquished By: [signature] Date/Time: 3/28 via Fed Ex

Received by: Date/Time:

Relinquished By: Date/Time:

Received by: Date/Time:

Relinquished By: Fed Ex# 7920 5631 8724 Date/Time:

Received in Lab by: Tracey Smithson Date/Time: 3/30/06 @ 1150

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal 4/4 X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Del Mar Analytical

1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
8630 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd., Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address: Del Mar - Phoenix

Project/PO Number: PPC0823

Project Manager: Linda Eshelman

Sampler:

Phone Number:

Fax Number:

Analysis Required: CLD3

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Special Instructions
PPC0823-15	w	500P	1	3/28	14:30	—	SEM
PPC0823-16	↓	↓	↓	↓	9:30	—	

Relinquished By: [illegible] Date/Time: 3/28 4a FedEx

Received by: Date/Time:

Relinquished By: Date/Time:

Received by: Date/Time:

Relinquished By: Fed Ex #7920 5631 8724 Date/Time:

Received in Lab by: [illegible] Date/Time: 3/30/06 @ 1150

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact X on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

APPENDIX B

Groundwater Sampling Field Data Sheet

Project Name: Cornerstone
Date: 3/28/06
By: PJD/LMW
Project No.: 61801
Weather/Site Conditions: Cloudy, 60°
Monitoring Well ID: MW-2
Site Location: Stephanie and Wigwam

Casing Diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other
Casing Material ☒ SCH 40-PVC ☐ Other: S. Steel
Total Depth (ft-TOC): (A) 34.16
Total Depth (ft-TOC): (B) 13.58
LNAPL Observed ☐ Yes ☒ No
DNAPL Observed ☐ Yes ☒ No
LNAPL Thickness
DNAPL Thickness
2"/8¼" = 0.78 g/ft = (D)
4"/9" = 1.33 G/FT = (D)
4"/8¼" = 1.19 G/FT = (D)
4"/10¼" = 1.51 G/FT = (D)
A - B = C
Water Column Height (feet) (C) 20.58
x 1.5 = (E)
Approx. Min. Purge Vol. (gallons)
Distance between TOC and ground surface = (+/-)
(1 borehole volume)
(1.5 borehole volume)

Water Level Measurement Equip.: ☐ Heron H. 01L 150' ☒ Water Line ☐ Heron Dipper T Cleaned Yes
Purging Method/Equipment: ☐ xp-100 Pump ☐ Quickie Bailer ☒ Hand Bailer Cleaned Disposable

Sampling Equipment: Bailer ☒ PVC ☐ SS ☐ Low Flow ☐ Pumps ☐ Dedicated/Non-dedicated ☐ Peristaltic Pump

Sampling Method/Equipment Disposable Bailer
Bailer Rope-New or cleaned?: New
Sampled By: PJD/LMW
Sample Time: 1300
Sample ID: MW2-GW-2

PARAMETER	USEPA METHOD	CONTAINERS/VOLUME/TYPE (VOA/Glass/Plastic	PRESERVATIVES

Time (24 hr)	PURGE VOL. (gallons)	pH	COND. ~~(µ/cm)~~ S/m	TURBIDITY (NTU)	TEMP. ~~(mS/cm)~~ °C	DO	SALINITY	Comments (color, odor, sheen, etc.)
12:41	2.5	7.37	0.438	–	14.57	13.3	0.2	
12:46	4.0	7.45	1.3	–	14.28	13.5	0	
12:50	6.0	7.51	0.432	–	14.20	13.4	0.2	

Depth to Water After Purging (ft) = (F)

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 12:37	G_1 13.58	H_1	I_1
T_2 12:41	G_2 19.85	H_2	I_2
T_3 12:46	G_3 19.82	H_3	I_3
T_4 12:50	G_4 19.54	H_4	I_4

Total Vol. Purged (gal): 10.2
Max. Drawdown: (J)
Time Finished Purging:

$A - B = C$; $G_x - B = H_x$; $F - B = J$; $\frac{H_x}{r} - 1 \times 100 = I_x$; $\frac{I_x - I_1}{T_x - T_1} x120 = \%$ recovery in 2 hrs.

Groundwater Sampling Field Data Sheet

Project Name: Cornerstone
Date: 3/28/06
By: PJD/LMW
Project No.: 61801
Weather/Site Conditions: Cloudy, 60°
Monitoring Well ID: MW-3
Site Location: Stephanie & Wigwam

Casing Diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other
Casing Material ☒ SCH 40-PVC ☐ Other: S. Steel
Total Depth (ft-TOC): (A) 29.9
Total Depth (ft-TOC): (B) 16.24
LNAPL Observed ☐ Yes ☒ No
LNAPL Thickness
DNAPL Observed ☐ Yes ☒ No
DNAPL Thickness

2"/8¼"= 0.78 g/ft = (D)
4"/9" = 1.33 G/FT = (D)
4"/8¼" = 1.19 G/FT = (D)
4"/10¼" = 1.51 G/FT = (D)

A - B = C
Water Column Height (feet) (C) 13.66
Distance between TOC and ground surface = (+/-)
(1 borehole volume)
x 1.5 = (E)
(1.5 borehole volume)
Approx. Min. Purge Vol. (gallons)

Water Level Measurement Equip.: ☐ Heron H. 01L 150' ☒ Water Line ☐ Heron Dipper T Cleaned Yes
Purging Method/Equipment: ☐ xp-100 Pump ☐ Quickie Bailer ☒ Hand Bailer Cleaned Disposable

Sampling Equipment: Bailer ☒ PVC ☐ SS ☐ Low Flow ☐ Pumps ☐ Dedicated/Non-dedicated ☐ Peristaltic Pump

Sampling Method/Equipment Disposable Bailer
Bailer Rope-New or cleaned?: New
Sampled By: PJD/LMW
Sample Time: 1125 / 1200
Sample ID: MW3-GW-3 / MW7-GW-7

PARAMETER	USEPA METHOD	CONTAINERS/VOLUME/TYPE (VOA/Glass/Plastic	PRESERVATIVES

Time (24 hr)	PURGE VOL. (gallons)	pH	COND. ~~(µ/cm)~~ S/M	TURBIDITY (NTU)	TEMP. ~~(µS/cm)~~ °C	DO	SALINITY	Comments (color, odor, sheen, etc.)
11:16	4.0	6.86	0.245	–	21.00	8.5	0.1	
11:20	5.0	7.04	0.249	–	20.97	8.4	0.1	
11:23	7.5	7.20	0.233	–	21.06	8.4	0.1	

Depth to Water After Purging (ft) = (F)

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 11:08	G_1 16.24	H_1	I_1
T_2 11:16	G_2 16.48	H_2	I_2
T_3 11:20	G_3 16.51	H_3	I_3
T_4 11:23	G_4	H_4	I_4

Total Vol. Purged (gal): ~~6.76~~ 7.50
Max. Drawdown: (J)
Time Finished Purging:

$A - B = C$; $G_x - B = H_x$; $F - B = J$; $\frac{H_x}{r} - 1 \times 100 = I_x$; $\frac{I_x - I_1}{T_x - T_1} x120 = \%$ recovery in 2 hrs.

Groundwater Sampling Field Data Sheet

Project Name: Cornerstone
Date: 3/28/06
By: PJD/LMW
Project No.: 61801
Weather/Site Conditions: Cloudy, 60°
Monitoring Well ID: MW-4
Site Location: Stephanie and Wigwam

Casing Diameter: [X] 2" [ ] 4" [ ] 6" [ ] Other
Casing Material [X] SCH 40-PVC [ ] Other: S. Steel
Total Depth (ft-TOC): (A) 19.29
LNAPL Observed [ ] Yes [X] No
DNAPL Observed [ ] Yes [X] No
Total Depth (ft-TOC): (B) 1.55
LNAPL Thickness
DNAPL Thickness
2"/8¼"= 0.78 g/ft = (D)
4"/9" = 1.33 G/FT = (D)
4"/8¼" = 1.19 G/FT = (D)
4"/10¼" = 1.51 G/FT = (D)
A - B = C
Water Column Height (feet) (C) 17.74
x 1.5 = (E)
Approx. Min. Purge Vol. (gallons)
Distance between TOC and ground surface = (+/-)
(1 borehole volume)
(1.5 borehole volume)

Water Level Measurement Equip.: [ ] Heron H. 01L 150' [X] Water Line [ ] Heron Dipper T Cleaned Yes
Purging Method/Equipment: [ ] xp-100 Pump [ ] Quickie Bailer [X] Hand Bailer Cleaned Disposable

Sampling Equipment: Bailer [X] PVC [ ] SS [ ] Low Flow [ ] Pumps [ ] Dedicated/Non-dedicated [ ] Peristaltic Pump

Sampling Method/Equipment: Disposable Bailer
Bailer Rope-New or cleaned?: New
Sampled By: PJD/LMW
Sample Time: 1050
Sample ID: MW4-GW-4

PARAMETER	USEPA METHOD	CONTAINERS/VOLUME/TYPE (VOA/Glass/Plastic	PRESERVATIVES

Time (24 hr)	PURGE VOL. (gallons)	pH	COND. ~~(µ/cm)~~ S/m	TURBIDITY (NTU)	TEMP. ~~(nS/cm)~~ °C	DO	SALINITY	Comments (color, odor, sheen, etc.)
10:40	2.0	6.73	0.333	65.6	18.60	8.2	0.2	
10:45	5.0	7.11	0.090	240.0	19.82	7.9	–	
10:50	9.0	7.20	0.350	182.0	20.15	9.7	0.2	

Depth to Water After Purging (ft) = (F)

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 10:34	G_1 1.55	H_1	I_1
T_2 10:40	G_2 1.67	H_2	I_2
T_3 10:45	G_3 1.92	H_3	I_3
T_4 10:50	G_4 1.95	H_4	I_4

Total Vol. Purged (gal): 9.0
Max. Drawdown: (J)
Time Finished Purging:

$A - B = C$; $G_x - B = H_x$; $F - B = J$; $\frac{H_x}{r} - 1 \times 100 = I_x$; $\frac{I_x - I_1}{T_x - T_1} x120 = \%$ recovery in 2 hrs.

Groundwater Sampling Field Data Sheet

Project Name: Cornerstone
Project No.: 61801
Monitoring Well ID: MW-5

Date: 3/28/06
Weather/Site Conditions: Cloudy, 60°
Site Location: Stephanie and Wigwam

By: PJD / LMW

Casing Diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other
Casing Material ☒ SCH 40-PVC ☐ Other: S. Steel
Total Depth (ft-TOC): (A) 22.75
Total Depth (ft-TOC): (B) 8.50
LNAPL Observed ☐ Yes ☒ No
LNAPL Thickness
DNAPL Observed ☐ Yes ☒ No
DNAPL Thickness

2"/8¼" = 0.78 g/ft = (D)
4"/9" = 1.33 G/FT = (D)
4"/8¼" = 1.19 G/FT = (D)
4"/10¼" = 1.51 G/FT = (D)

A - B = C
Water Column Height (feet) (C) 14.25
Distance between TOC and ground surface = (+/-)

(1 borehole volume)
x 1.5 = (E)
(1.5 borehole volume)
Approx. Min. Purge Vol. (gallons)

Water Level Measurement Equip.: ☐ Heron H. 01L 150' ☒ Water Line ☐ Heron Dipper T Cleaned Yes
Purging Method/Equipment: ☐ xp-100 Pump ☐ Quickie Bailer ☒ Hand Bailer Cleaned Disposable

Sampling Equipment: Bailer ☒ PVC ☐ SS ☐ Low Flow ☐ Pumps ☐ Dedicated/Non-dedicated ☐ Peristaltic Pump

Sampling Method/Equipment: Disposable Bailer
Bailer Rope-New or cleaned?: New
Sampled By: PJD / LMW
Sample Time: 1000
Sample ID: MW5-GW-5

PARAMETER	USEPA METHOD	CONTAINERS/VOLUME/TYPE (VOA/Glass/Plastic	PRESERVATIVES

Time (24 hr)	PURGE VOL. (gallons)	pH	COND. ~~(µ/cm)~~ S/m	TURBIDITY (NTU)	TEMP. ~~(µS/cm)~~ °C	DO	SALINITY	Comments (color, odor, sheen, etc.)
9:50	2.5	6.94	0.423	93.9	19.23	8.0	0.2	
9:55	5.0	7.14	0.429	367.0	20.03	6.2	0.2	
10:00	7.5	7.20	0.430	450.0	20.06	5.5	0.2	

Depth to Water After Purging (ft) = (F)

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 9:45	G_1 8.50	H_1	I_1
T_2 9:50	G_2 8.91	H_2	I_2
T_3 9:55	G_3 9.83	H_3	I_3
T_4 10:00	G_4 10.01	H_4	I_4

Total Vol. Purged (gal): 7.5

Max. Drawdown: (J)
Time Finished Purging:

$A - B = C$; $G_x - B = H_x$; $F - B = J$; $\frac{H_x}{r} - 1 \times 100 = I_x$; $\frac{I_x - I_1}{T_x - T_1} x120 = \%$ recovery in 2 hrs.

Groundwater Sampling Field Data Sheet

Project Name: Cornerstone
Date: 3/28/06
By: PJD / LMW
Project No.: 61801
Weather/Site Conditions: Cloudy, 60°
Monitoring Well ID: MW-6
Site Location: Stephanie and Wigwam

Casing Diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other
Casing Material ☒ SCH 40-PVC ☐ Other: S. Steel
Total Depth (ft-TOC): (A) 18.71
Total Depth (ft-TOC): (B) 0.50
LNAPL Observed ☐ Yes ☒ No
LNAPL Thickness
DNAPL Observed ☐ Yes ☒ No
DNAPL Thickness

2"/8¼"= 0.78 g/ft = (D)
4"/9" = 1.33 G/FT = (D)
4"/8¼" = 1.19 G/FT = (D)
4"/10¼" = 1.51 G/FT = (D)

A - B = C
Water Column Height (feet) (C) 18.21
Distance between TOC and ground surface = (+/-)
(1 borehole volume)
x 1.5 = (E)
(1.5 borehole volume)
Approx. Min. Purge Vol. (gallons)

Water Level Measurement Equip.: ☐ Heron H. 01L 150' ☒ Water Line ☐ Heron Dipper T Cleaned Yes
Purging Method/Equipment: ☐ xp-100 Pump ☐ Quickie Bailer ☒ Hand Bailer Cleaned Disposable

Sampling Equipment: Bailer ☒ PVC ☐ SS ☐ Low Flow ☐ Pumps ☐ Dedicated/Non-dedicated ☐ Peristaltic Pump

Sampling Method/Equipment: Disposable Bailer
Bailer Rope-New or cleaned?: New
Sampled By: PJD / LMW
Sample Time: 1230
Sample ID: MW6-GW-6

PARAMETER	USEPA METHOD	CONTAINERS/VOLUME/TYPE (VOA/Glass/Plastic	PRESERVATIVES

Time (24 hr)	PURGE VOL. (gallons)	pH	COND. ~~(µ/cm)~~ S/m	TURBIDITY (NTU)	TEMP. ~~(mS/cm)~~ °C	DO	SALINITY	Comments (color, odor, sheen, etc.)
12:20	2.5	7.13	–	394.0	21.97	9.6	0	
12:23	4.0	7.16	–	–	22.66	9.1	0	
12:25	5.0	7.19	–	518.0	22.75	9.0	0.2	
12:30	9.0	7.17	0.477	369.0	22.45	9.0	0.2	

Depth to Water After Purging (ft) = (F)

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 12:15	G_1 0.50	H_1	I_1
T_2 12:20	G_2 0.50	H_2	I_2
T_3 12:23	G_3 0.50	H_3	I_3
T_4 12:25	G_4 0.50	H_4	I_4

Total Vol. Purged (gal): 9.0
Max. Drawdown: (J)
Time Finished Purging:

$A - B = C$; $G_x - B = H_x$; $F - B = J$; $\frac{H_x}{r} - 1 \times 100 = I_x$; $\frac{I_x - I_1}{T_x - T_1} x120 = \%$ recovery in 2 hrs.

KLEINFELDER

Environmental Field Daily Report

Project Name : Cornerstone | Date : 3/27/06 | Report # :

Project / Task # : 61801 | Site Location : Stephanie and Wigwam

Field notes continued :

8:30 PJD and LMW on site
set up for sampling event

9:30 Calibrate Horiba

@ 21.54°C pH 4.00 = 3.99
cond. 0.0 = 0.0
DO = 5.6

EDFR Submitted to _____

Reviewed by : _____ Signature : _____

Groundwater Sampling Field Data Sheet

Project Name: Cornerstone
Date: 3/28/06
By: PJD/LMW
Project No.: 61801
Weather/Site Conditions: Cloudy, 60°
Monitoring Well ID: MW-1
Site Location: Stephanie and Wigwam

Casing Diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other
Casing Material ☒ SCH 40-PVC ☐ Other: S. Steel
Total Depth (ft-TOC): (A) 21.71
Total Depth (ft-TOC): (B) 4.95
LNAPL Observed ☐ Yes ☒ No
DNAPL Observed ☐ Yes ☒ No
LNAPL Thickness
DNAPL Thickness
2"/8¼"= 0.78 g/ft = (D)
4"/9" = 1.33 G/FT = (D)
4"/8¼" = 1.19 G/FT = (D)
4"/10¼" = 1.51 G/FT = (D)
A - B = C
Water Column Height (feet) (C) 16.76
Distance between TOC and ground surface = (+/-)
(1 borehole volume)
x 1.5 = (E)
(1.5 borehole volume)
Approx. Min. Purge Vol. (gallons)

Water Level Measurement Equip.: ☐ Heron H. 01L 150' ☒ Water Line ☐ Heron Dipper T Cleaned Yes
Purging Method/Equipment: ☐ xp-100 Pump ☐ Quickie Bailer ☒ Hand Bailer Cleaned Disposable

Sampling Equipment: Bailer ☒ PVC ☐ SS ☐ Low Flow ☐ Pumps ☐ Dedicated/Non-dedicated ☐ Peristaltic Pump

Sampling Method/Equipment Disposable Bailer
Bailer Rope-New or cleaned?: New
Sampled By: PJD/LMW
Sample Time: 12:10 pm
Sample ID: MW1-GW-1

PARAMETER	USEPA METHOD	CONTAINERS/VOLUME/TYPE (VOA/Glass/Plastic	PRESERVATIVES

Time (24 hr)	PURGE VOL. (gallons)	pH	COND. ~~(µ/cm)~~ S/M	TURBIDITY (NTU)	TEMP. ~~(µS/cm)~~ °C	DO	SALINITY	Comments (color, odor, sheen, etc.)
11:45	2.5	6.92	0.387	805.0	20.83	9.8	0.2	
11:50	5.0	7.04	0	—	21.03	9.6	0	
11:55	6.0	7.17	0.388	—	21.38	8.8	0.2	
12:05	8.0	7.14	0.389	—	21.17	9.1	0.2	

Depth to Water After Purging (ft) = (F)

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 11:38	G_1 4.95	H_1	I_1
T_2 11:45	G_2 6.30	H_2	I_2
T_3 11:50	G_3 5.98	H_3	I_3
T_4 11:55	G_4 5.86	H_4	I_4

Total Vol. Purged (gal): 8.3
Max. Drawdown: (J)
Time Finished Purging:

$A - B = C$; $G_x - B = H_x$; $F - B = J$; $\frac{H_x}{r} - 1 \times 100 = I_x$; $\frac{I_x - I_1}{T_x - T_1} x120 =$ % recovery in 2 hrs.

KLEINFELDER

Environmental
Field Daily Report

Project Name : Cornerstone | Date : 3/28/06 | Report # :

Project / Task # : 61801 | Site Location : Stephanie and Wigwam

Field notes continued :

W-1 @ 2' / 10' / duplicate @ 2'

W-2 @ 2' / 10'

W-3 @ 2' / 10'

W-4 @ surface

W-5 @ rinse blank

MW-5

MW-4

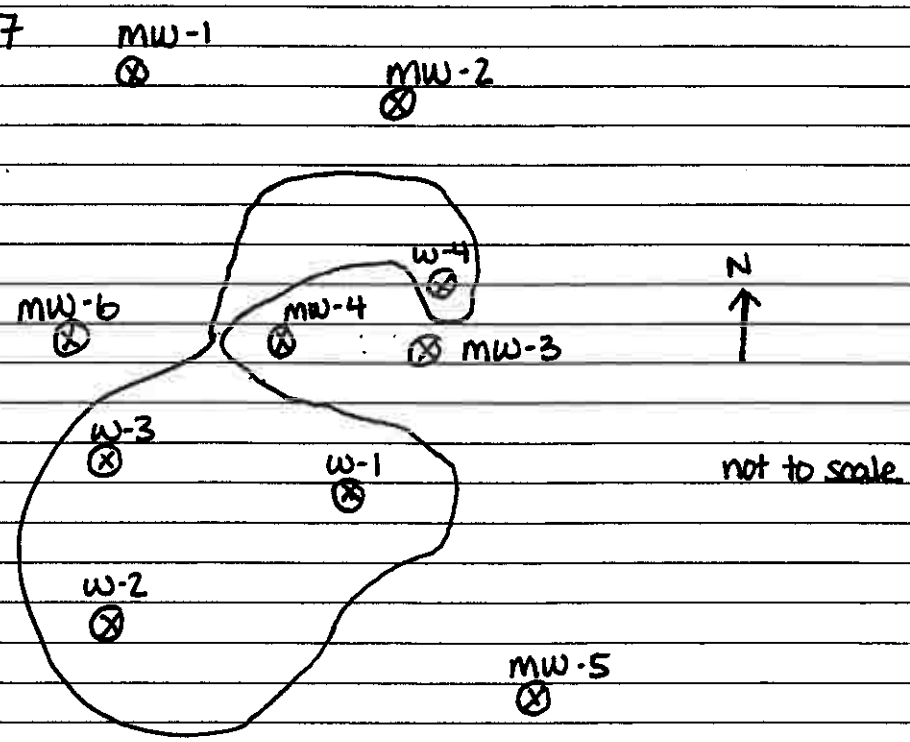
MW-3 / MW-7

MW-1

MW-2

MW-6

MW-2



EDFR Submitted to : _____

Reviewed by : _____ Signature : _____

KLEINFELDER

Environmental
Field Daily Report

Project Name : Cornerstone | Date : 3/28/06 | Report # :

Project / Task # : 61801 | Site Location : Stephanie and Wigwam

Field notes continued :

9:20 PJD and LMW onsite.
Lisa dropped Paul off at landing site

9:40 Strong winds making it very difficult to maniuver / anchor boat

~~10:50~~
9:50 Start sampling W-3

10:20 Sampled W-3

EDFR Submitted to : _____

Reviewed by : _____ Signature : _____