KLEINFELDER

June 20, 2006
Project No. 61801.2

RECEIVED
JUN 26 2006
ENVIRONMENTAL PROTECTION

Ms. Lisa Johnson
Bureau of Corrective Actions
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701

SUBJECT: **Quarterly Monitoring Report**
Second Quarter 2006
Cornerstone Redevelopment Brownfields
Phase II Site Investigation
Henderson, Nevada

Dear Ms. Johnson:

Kleinfelder, Inc. (Kleinfelder) is pleased to present the quarterly monitoring report for the second quarter 2006 for the above-referenced site. The field sampling activities and laboratory analyses were performed in accordance with 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. This work was performed under the existing contract between Kleinfelder and the Nevada Division of Environmental Protection (NDEP).

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, soil, 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 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 impacted groundwater gradually migrates off the subject property. The source was assumed to be regional groundwater contamination drawn onsite by groundwater pumping activities. 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). The Second Quarter 2006 sampling event is the last event under this work authorization.

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

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. 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.

SCOPE OF WORK

Groundwater Sampling

On June 1, 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 June 1, 2006, 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 used in the previous quarterly sampling events (see Table 1). The samples were

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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, 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 previously described 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 previously described 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 groundwater levels in all of the wells decreased. MW-2 had the largest decrease since March 2006 at 7.82 feet. This well had the largest fluctuations in groundwater elevations throughout the year. For example, the level in MW-2 increased almost seven feet from December 2005 to March 2006.

Table 3 presents a summary of perchlorate concentrations from groundwater samples. Perchlorate concentrations in five of the six monitoring wells exceeded the Nevada Public Notice Standard of 18 μg/L. The perchlorate concentration in MW-5 was 16 μg/L. The current perchlorate concentrations were compared to those from the previous quarterly events and the January 2005 event. Overall, the concentrations appear to be relatively consistent from quarter to quarter. Well MW-5 has shown a decrease since January 2005, going from 33 to 16 μg/L, with the last three sampling events showing consistent results ranging from 14 to 18 μg/L. The groundwater samples collected from MW-2 show the highest concentration variation that may be a result of groundwater elevation variation. The historical results from the other four wells demonstrate a fluctuation that has stayed within a range of 46 to 77 μg/L overall.

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

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standards and secondary Maximum Contaminant Level (MCL) of 250 mg/l, 250 mg/L, and 500 mg/L, respectively, in all groundwater samples, and nitrate concentrations exceeded the primary 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.

Surface Water

Table 3 presents a summary of perchlorate concentrations from surface water samples. As in the previous events, perchlorate concentrations in each surface water sample exceeded the Nevada Public Notice Standard of 18 μg/L. The perchlorate concentrations in the pond are very close to the results from March 2006 at each sampling location. Like previous events, the range of concentrations across all of the pond samples is small (46 to 47 μg/L). The perchlorate concentrations have shown an overall increase in the ponds since January 2005 but that concentration increase is only about 10 μg/L. The surface water analytical results show fluctuation that may be a result of seasonal precipitation or variation in groundwater elevation.

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 primary MCL of 10 mg/L at all sample points except W-4. Concentrations of chloride, sulfate, and TDS exceeded the secondary MCL's at all sample locations.

Results of Quality Control Samples

The results of the duplicate groundwater sample seem to be within acceptable accuracy for all of the analytes and within acceptable limits for quality control. However the duplicate surface water sample (W-1) was different by 20 percent for perchlorate, which is outside the range for good quality control. The water quality analytes for the W-1 duplicate were well within acceptable ranges for quality control. It appears there is no reason for this large difference in perchlorate concentration at W-1 based on field activities since the sample results from all of the other pond locations are so close (46 to 47 μg/L). The Level IV QA report will be evaluated to see if there may have been an instrument error upon analysis of the blind duplicate from W-1. Given that all of the pond samples were close in concentration similar to the March 2006 results, it appears that the W-1 blind duplicate result is an anomaly and not a quality control issue for these results.

The equipment blank sample showed three water quality analytes just slightly above laboratory detection limits which most likely is due to the quality of the store-purchased deionized water. According to the laboratory analytical reports, the analyses met their respective method criteria for QA/QC. A Level IV QA package has been prepared by Del Mar Analytical and will be kept on file.

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RECOMMENDATIONS

Perchlorate concentrations in the groundwater and surface water at the subject property continue to exceed the Nevada Public Notice Standard of 18 μg/L. Since January 2005 the historical results indicate the perchlorate concentrations are consistently between 20 to 80 μg/L in the groundwater and surface water on the subject property. Based on the available data, remediation does not appear to be warranted.

Kleinfelder recommends that the City of Henderson pursue redevelopment of the property considering a limited use restriction. A focused human health risk assessment based on the future use plan may also be warranted. Such a risk assessment would assess the magnitude of impact (if any) these concentrations would have and to help determine the type and extent of restrictive use. Such a study could help the City of Henderson determine whether or not additional features of the redevelopment plan would impact overall costs or determine if no significant costs will be incurred based on the results.

Given the consistent nature of the past five sampling events, further quarterly sampling is not recommended. However, the City of Henderson may desire to perform sampling on a less frequent basis to monitor the concentrations for significant changes.

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 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.

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CLOSING

If you have any questions or comments, or should you require more information, please call me (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.
Environmental Department 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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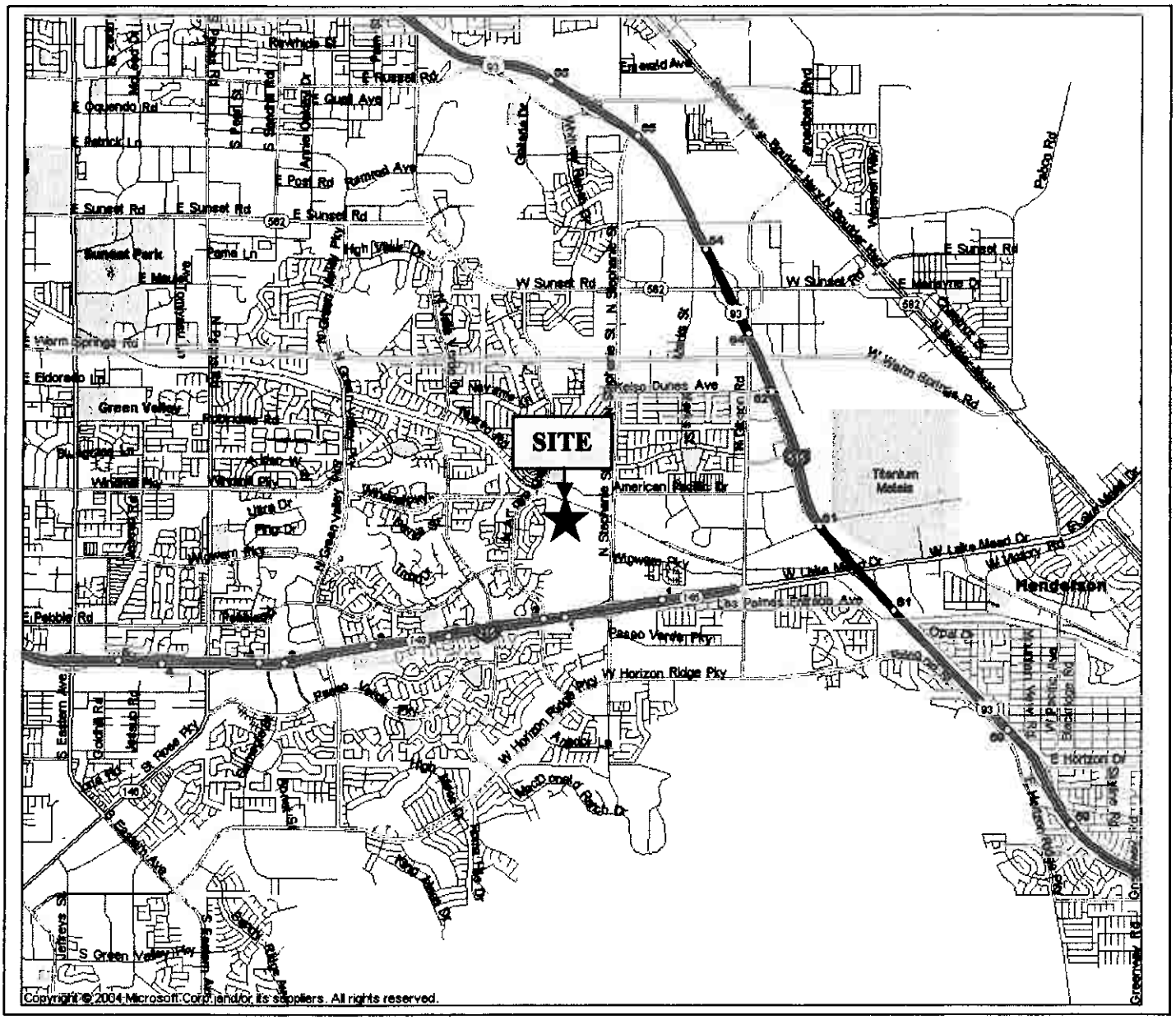

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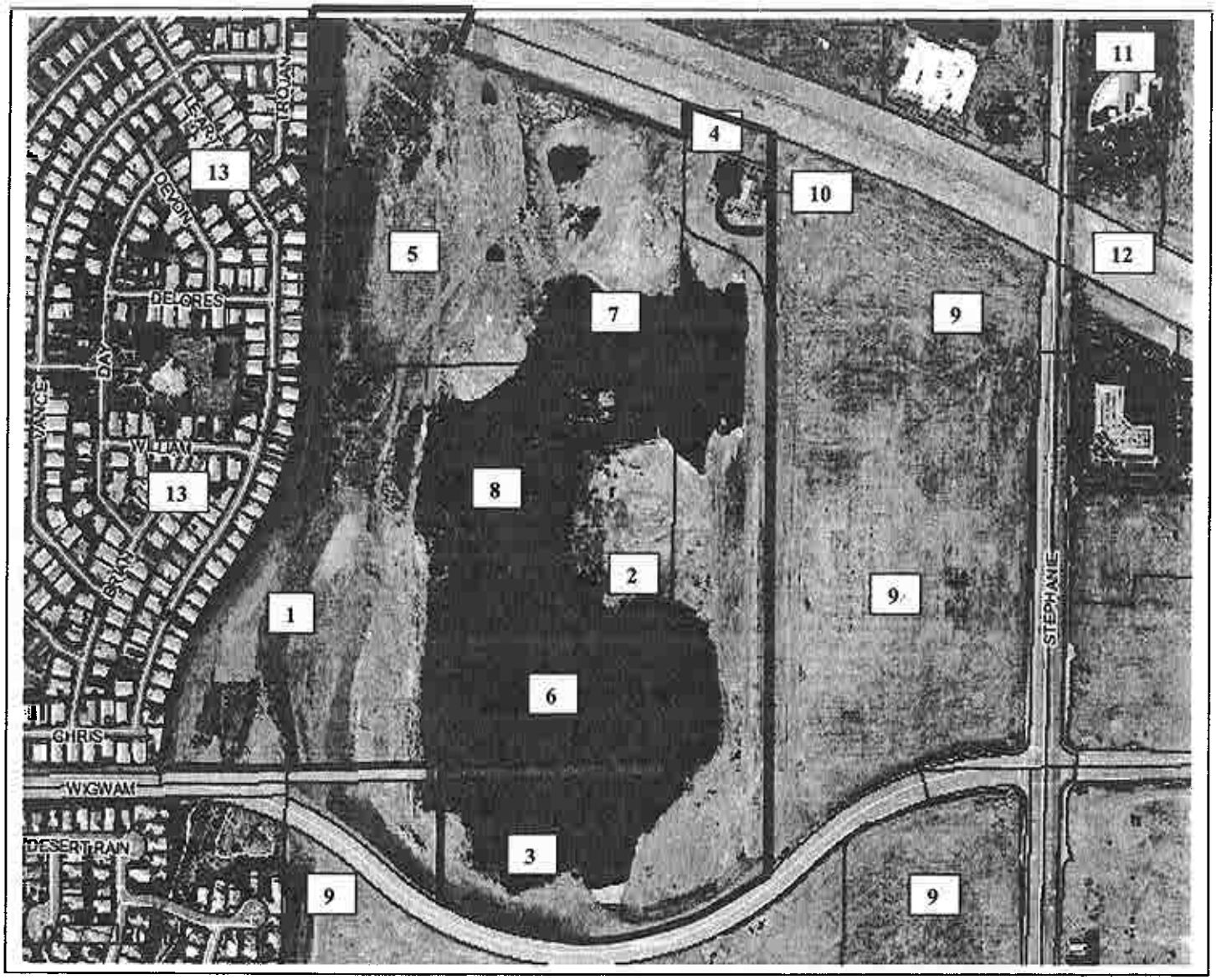
SITE LOCATION MAP

CORNERSTONE REDEVELOPMENT AREA
HENDERSON, NEVADA

Figure
1

PROJECT NO.: 61801



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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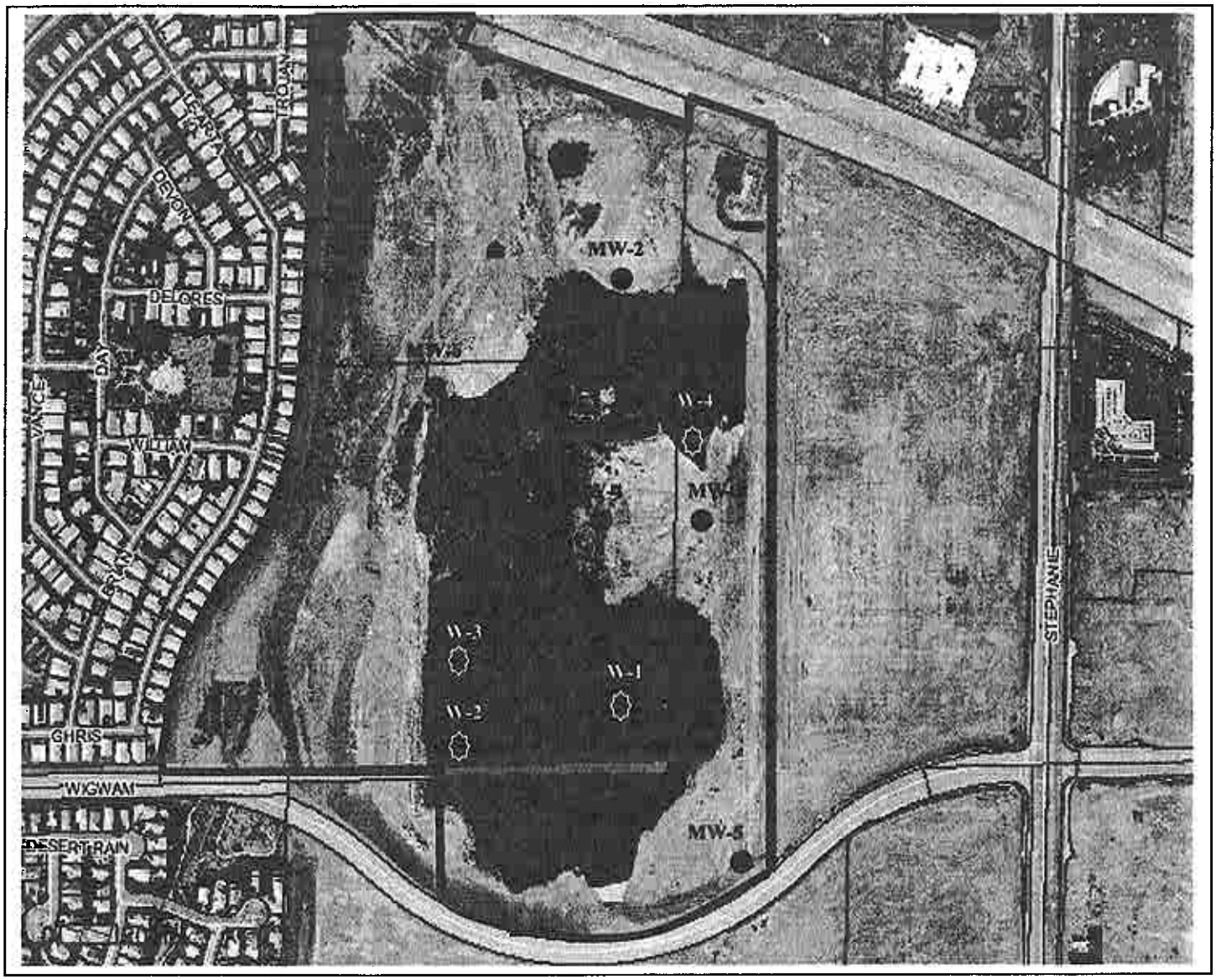
PROJECT NO.: 61801

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

Table 1
Sample Identification

Sample Location	Sample Identification	
	Field	Laboratory
MW-1	MW1-GW-1	PPF0028-10
MW-2	MW2-GW-2	PPF0028-11
MW-3	MW3-GW-3	PPF0028-12
MW-3	MW7-GW-7 *	PPF0028-16
MW-4	MW4-GW-4	PPF0028-13
MW-5	MW5-GW-5	PPF0028-14
MW-6	MW6-GW-6	PPF0028-15
W-1, 2 ft.	W1-SW-2-1	PPF0028-01
W-1, 2 ft.	W6-SW-2-9 *	PPF0028-09
W-1, 10 ft.	W1-SW-10-2	PPF0028-02
W-2, 2 ft.	W2-SW-2-3	PPF0028-03
W-2, 10 ft.	W2-SW-10-4	PPF0028-04
W-3, 2 ft.	W3-SW-2-5	PPF0028-05
W-3, 10 ft.	W3-SW-10-6	PPF0028-06
W-4, 2 ft.	W4-SW-2-7	PPF0028-07
-	W5-SW-2-8 **	PPF0028-08

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)					
01/19/2005	1886.33	1874.51	1867.92	1880.84	1878.42	*
06/20/2005	1885.65	1868.20	1865.21	1879.03	1877.05	1882.09
09/29/2005	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
03/28/2006	1886.70	1875.39	1865.64	1880.48	1878.27	1883.36
06/01/2006	1886.09	1867.57	1864.47	1879.68	1877.56	1882.64

* 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
Jun-06	46	36	55	54	55	16	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
Jun-06	47	59	47	47	46	47	47	47	< 4.0

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

Table 4
Summary of Analytical Results for Water Quality Parameters
June 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	540	360	400	470	540	370	580
Nitrate – N	15	4.8	5.7	5.8	13	1.6	20
Sulfate	1800	2000	760	890	1100	2400	2900
TDS	3200	4200	1800	1800	2500	3900	4800

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	350	380	310	380	350	380	400	390	1.7
Nitrate - N	11	11	11	11	11	11	11	8.6	< 0.1
Sulfate	2300	2500	2100	2500	2300	2500	2600	2200	7.9
TDS	4000	3900	3800	4000	4000	4000	3900	4100	24

NOTES:
mg/L = milligrams per liter

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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

Sampled: 06/01/06
Received: 06/02/06
Issued: 06/08/06 09:15

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
PPF0028-01	W1-SW-2-1	Water
PPF0028-02	W1-SW-10-2	Water
PPF0028-03	W2-SW-2-3	Water
PPF0028-04	W2-SW-10-4	Water
PPF0028-05	W3-SW-2-5	Water
PPF0028-06	W3-SW-10-6	Water
PPF0028-07	W4-SW-2-7	Water
PPF0028-08	W5-SW-2-8	Water
PPF0028-09	W6-SW-2-9	Water
PPF0028-10	MW1-GW-1	Water
PPF0028-11	MW2-GW-2	Water
PPF0028-12	MW3-GW-3	Water
PPF0028-13	MW4-GW-4	Water
PPF0028-14	MW5-GW-5	Water
PPF0028-15	MW6-GW-6	Water
PPF0028-16	MW7-GW-7	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

Report Number: PPF0028

Sampled: 06/01/06
Received: 06/02/06

SAMPLE RECEIPT:	Samples were received intact, at 1°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-NR - No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
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

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.

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

Project ID: 61801

Report Number: PPF0028

Sampled: 06/01/06
Received: 06/02/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PPF0028-01 (W1-SW-2-1 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**350**	100	6/2/2006	6/2/2006	
Nitrate-N	EPA 300.0	P6F0209	1.0	**11**	10	6/2/2006	6/2/2006	
Sulfate	EPA 300.0	P6F0209	50	**2300**	100	6/2/2006	6/2/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**4000**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-02 (W1-SW-10-2 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**310**	100	6/2/2006	6/2/2006	
Nitrate-N	EPA 300.0	P6F0209	1.0	**11**	10	6/2/2006	6/2/2006	
Sulfate	EPA 300.0	P6F0209	50	**2100**	100	6/2/2006	6/2/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**3800**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-03 (W2-SW-2-3 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**380**	100	6/2/2006	6/2/2006	
Nitrate-N	EPA 300.0	P6F0209	1.0	**11**	10	6/2/2006	6/2/2006	
Sulfate	EPA 300.0	P6F0209	50	**2500**	100	6/2/2006	6/2/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**4000**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-04 (W2-SW-10-4 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**350**	100	6/2/2006	6/2/2006	
Nitrate-N	EPA 300.0	P6F0209	1.0	**11**	10	6/2/2006	6/2/2006	
Sulfate	EPA 300.0	P6F0209	50	**2300**	100	6/2/2006	6/2/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**4000**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-05 (W3-SW-2-5 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**380**	100	6/2/2006	6/2/2006	
Nitrate-N	EPA 300.0	P6F0209	1.0	**11**	10	6/2/2006	6/2/2006	
Sulfate	EPA 300.0	P6F0209	50	**2500**	100	6/2/2006	6/2/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**4000**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-06 (W3-SW-10-6 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**400**	100	6/2/2006	6/3/2006	
Nitrate-N	EPA 300.0	P6F0209	1.0	**11**	10	6/2/2006	6/2/2006	
Sulfate	EPA 300.0	P6F0209	50	**2600**	100	6/2/2006	6/3/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**3900**	5	6/4/2006	6/4/2006	

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

Project ID: 61801

Report Number: PPF0028

Sampled: 06/01/06
Received: 06/02/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PPF0028-07 (W4-SW-2-7 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**390**	100	6/2/2006	6/3/2006	
Nitrate-N	EPA 300.0	P6F0209	0.10	**8.6**	1	6/2/2006	6/3/2006	
Sulfate	EPA 300.0	P6F0209	50	**2200**	100	6/2/2006	6/3/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**4100**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-08 (W5-SW-2-8 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	0.50	**1.7**	1	6/2/2006	6/3/2006	
Nitrate-N	EPA 300.0	P6F0209	0.10	ND	1	6/2/2006	6/3/2006	
Sulfate	EPA 300.0	P6F0209	0.50	**7.9**	1	6/2/2006	6/3/2006	
Total Dissolved Solids	SM2540C	P6F0401	20	**24**	1	6/4/2006	6/4/2006	
Sample ID: PPF0028-09 (W6-SW-2-9 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**380**	100	6/2/2006	6/3/2006	
Nitrate-N	EPA 300.0	P6F0209	1.0	**11**	10	6/2/2006	6/3/2006	
Sulfate	EPA 300.0	P6F0209	50	**2500**	100	6/2/2006	6/3/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**3900**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-10 (MW1-GW-1 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**540**	100	6/2/2006	6/3/2006	
Nitrate-N	EPA 300.0	P6F0209	1.0	**15**	10	6/2/2006	6/3/2006	
Sulfate	EPA 300.0	P6F0209	50	**1800**	100	6/2/2006	6/3/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**3200**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-11 (MW2-GW-2 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**360**	100	6/2/2006	6/3/2006	
Nitrate-N	EPA 300.0	P6F0209	0.10	**4.8**	1	6/2/2006	6/3/2006	
Sulfate	EPA 300.0	P6F0209	50	**2000**	100	6/2/2006	6/3/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**4200**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-12 (MW3-GW-3 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**400**	100	6/2/2006	6/3/2006	
Nitrate-N	EPA 300.0	P6F0209	0.10	**5.7**	1	6/2/2006	6/3/2006	
Sulfate	EPA 300.0	P6F0209	50	**760**	100	6/2/2006	6/3/2006	
Total Dissolved Solids	SM2540C	P6F0401	20	**1800**	1	6/4/2006	6/4/2006	

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

Project ID: 61801

Report Number: PPF0028

Sampled: 06/01/06
Received: 06/02/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PPF0028-13 (MW4-GW-4 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**540**	100	6/2/2006	6/3/2006	
Nitrate-N	EPA 300.0	P6F0209	1.0	**13**	10	6/2/2006	6/3/2006	
Sulfate	EPA 300.0	P6F0209	50	**1100**	100	6/2/2006	6/3/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**2500**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-14 (MW5-GW-5 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**370**	100	6/2/2006	6/3/2006	
Nitrate-N	EPA 300.0	P6F0209	0.10	**1.6**	1	6/2/2006	6/3/2006	
Sulfate	EPA 300.0	P6F0209	50	**2400**	100	6/2/2006	6/3/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**3900**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-15 (MW6-GW-6 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**580**	100	6/2/2006	6/3/2006	
Nitrate-N	EPA 300.0	P6F0209	1.0	**20**	10	6/2/2006	6/3/2006	
Sulfate	EPA 300.0	P6F0209	50	**2900**	100	6/2/2006	6/3/2006	
Total Dissolved Solids	SM2540C	P6F0401	100	**4800**	5	6/4/2006	6/4/2006	
Sample ID: PPF0028-16 (MW7-GW-7 - Water)				**Sampled: 06/01/06**				
Reporting Units: mg/l								
Chloride	EPA 300.0	P6F0209	50	**470**	100	6/2/2006	6/3/2006	
Nitrate-N	EPA 300.0	P6F0209	0.10	**5.8**	1	6/2/2006	6/3/2006	
Sulfate	EPA 300.0	P6F0209	50	**890**	100	6/2/2006	6/3/2006	
Total Dissolved Solids	SM2540C	P6F0401	20	**1800**	1	6/4/2006	6/4/2006	

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INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PPF0028-01 (W1-SW-2-1 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**47**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-02 (W1-SW-10-2 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**47**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-03 (W2-SW-2-3 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**47**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-04 (W2-SW-10-4 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**46**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-05 (W3-SW-2-5 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**47**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-06 (W3-SW-10-6 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**47**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-07 (W4-SW-2-7 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**47**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-08 (W5-SW-2-8 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	ND	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-09 (W6-SW-2-9 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**59**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-10 (MW1-GW-1 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**46**	1	6/2/2006	6/3/2006	

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Sampled: 06/01/06
Received: 06/02/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PPF0028-11 (MW2-GW-2 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**36**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-12 (MW3-GW-3 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**55**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-13 (MW4-GW-4 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**55**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-14 (MW5-GW-5 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**16**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-15 (MW6-GW-6 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**77**	1	6/2/2006	6/3/2006	
Sample ID: PPF0028-16 (MW7-GW-7 - Water)				**Sampled: 06/01/06**				
Reporting Units: ug/l								
Perchlorate	EPA 314.0	6F02117	4.0	**54**	1	6/2/2006	6/3/2006	

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Attention: Gary Carter

Project ID: 61801

Report Number: PPF0028

Sampled: 06/01/06
Received: 06/02/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: W1-SW-2-1 (PPF0028-01) - Water					
EPA 300.0	2	06/01/2006 10:35	06/02/2006 08:45	06/02/2006 11:52	06/02/2006 20:32
Sample ID: W1-SW-10-2 (PPF0028-02) - Water					
EPA 300.0	2	06/01/2006 09:40	06/02/2006 08:45	06/02/2006 11:52	06/02/2006 21:38
Sample ID: W2-SW-2-3 (PPF0028-03) - Water					
EPA 300.0	2	06/01/2006 09:50	06/02/2006 08:45	06/02/2006 11:52	06/02/2006 22:11
Sample ID: W2-SW-10-4 (PPF0028-04) - Water					
EPA 300.0	2	06/01/2006 09:55	06/02/2006 08:45	06/02/2006 11:52	06/02/2006 22:45
Sample ID: W3-SW-2-5 (PPF0028-05) - Water					
EPA 300.0	2	06/01/2006 10:45	06/02/2006 08:45	06/02/2006 11:52	06/02/2006 23:18
Sample ID: W3-SW-10-6 (PPF0028-06) - Water					
EPA 300.0	2	06/01/2006 10:50	06/02/2006 08:45	06/02/2006 11:52	06/02/2006 23:51
Sample ID: W4-SW-2-7 (PPF0028-07) - Water					
EPA 300.0	2	06/01/2006 11:00	06/02/2006 08:45	06/02/2006 11:52	06/03/2006 00:58
Sample ID: W5-SW-2-8 (PPF0028-08) - Water					
EPA 300.0	2	06/01/2006 14:30	06/02/2006 08:45	06/02/2006 11:52	06/03/2006 01:31
Sample ID: W6-SW-2-9 (PPF0028-09) - Water					
EPA 300.0	2	06/01/2006 11:30	06/02/2006 08:45	06/02/2006 11:52	06/03/2006 01:47
Sample ID: MW1-GW-1 (PPF0028-10) - Water					
EPA 300.0	2	06/01/2006 11:30	06/02/2006 08:45	06/02/2006 11:52	06/03/2006 02:21
Sample ID: MW2-GW-2 (PPF0028-11) - Water					
EPA 300.0	2	06/01/2006 12:45	06/02/2006 08:45	06/02/2006 11:52	06/03/2006 02:54
Sample ID: MW3-GW-3 (PPF0028-12) - Water					
EPA 300.0	2	06/01/2006 10:45	06/02/2006 08:45	06/02/2006 11:52	06/03/2006 03:27
Sample ID: MW4-GW-4 (PPF0028-13) - Water					
EPA 300.0	2	06/01/2006 10:20	06/02/2006 08:45	06/02/2006 11:52	06/03/2006 04:33
Sample ID: MW5-GW-5 (PPF0028-14) - Water					
EPA 300.0	2	06/01/2006 09:45	06/02/2006 08:45	06/02/2006 11:52	06/03/2006 05:07
Sample ID: MW6-GW-6 (PPF0028-15) - Water					
EPA 300.0	2	06/01/2006 12:15	06/02/2006 08:45	06/02/2006 11:52	06/03/2006 05:40
Sample ID: MW7-GW-7 (PPF0028-16) - Water					
EPA 300.0	2	06/01/2006 13:30	06/02/2006 08:45	06/02/2006 11:52	06/03/2006 06:13

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Project Manager

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Attention: Gary Carter

Project ID: 61801

Report Number: PPF0028

Sampled: 06/01/06
Received: 06/02/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P6F0209 Extracted: 06/02/06										
Blank Analyzed: 06/02/2006 (P6F0209-BLK1)										
Nitrate-N	ND	0.10	mg/l							
Sulfate	ND	0.50	mg/l							
Chloride	ND	0.50	mg/l							
LCS Analyzed: 06/02/2006 (P6F0209-BS1)										
Chloride	5.17	0.50	mg/l	5.00		103	90-110			*M-NR*
Nitrate-N	2.64	0.10	mg/l	2.50		106	90-110			
Sulfate	5.06	0.50	mg/l	5.00		101	90-110			*M-NR*
LCS Dup Analyzed: 06/02/2006 (P6F0209-BSD1)										
Sulfate	5.12	0.50	mg/l	5.00		102	90-110	1	15	*M-NR*
Chloride	5.16	0.50	mg/l	5.00		103	90-110	0	15	*M-NR*
Nitrate-N	2.65	0.10	mg/l	2.50		106	90-110	0	15	
Matrix Spike Analyzed: 06/02/2006 (P6F0209-MS1)					**Source: PPF0028-01RE1**					
Nitrate-N	35.4	1.0	mg/l	25.0	11	98	80-120			
Matrix Spike Dup Analyzed: 06/02/2006 (P6F0209-MSD1)					**Source: PPF0028-01RE1**					
Nitrate-N	35.9	1.0	mg/l	25.0	11	100	80-120	1	15	
Batch: P6F0401 Extracted: 06/04/06										
Blank Analyzed: 06/04/2006 (P6F0401-BLK1)										
Total Dissolved Solids	ND	20	mg/l							
LCS Analyzed: 06/04/2006 (P6F0401-BS1)										
Total Dissolved Solids	402	20	mg/l	400		100	80-115			

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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

Report Number: PPF0028

Sampled: 06/01/06
Received: 06/02/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P6F0401 Extracted: 06/04/06										
LCS Dup Analyzed: 06/04/2006 (P6F0401-BSD1)										
Total Dissolved Solids	380	20	mg/l	400		95	80-115	6	10	
Duplicate Analyzed: 06/04/2006 (P6F0401-DUP1)					**Source: PPF0028-01**					
Total Dissolved Solids	3770	100	mg/l		4000			6	10	
Duplicate Analyzed: 06/04/2006 (P6F0401-DUP2)					**Source: PPF0028-11**					
Total Dissolved Solids	4230	100	mg/l		4200			1	10	

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

Report Number: PPF0028

Sampled: 06/01/06
Received: 06/02/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6F02117 Extracted: 06/02/06										
Blank Analyzed: 06/03/2006 (6F02117-BLK1)										
Perchlorate	ND	4.0	ug/l							
LCS Analyzed: 06/03/2006 (6F02117-BS1)										
Perchlorate	49.6	4.0	ug/l	50.0		99	85-115			
Matrix Spike Analyzed: 06/03/2006 (6F02117-MS1)					**Source: PPF0028-01**					
Perchlorate	97.2	4.0	ug/l	50.0	47	100	80-120			
Matrix Spike Dup Analyzed: 06/03/2006 (6F02117-MSD1)					**Source: PPF0028-01**					
Perchlorate	96.5	4.0	ug/l	50.0	47	99	80-120	1	20	

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

Report Number: PPF0028

Sampled: 06/01/06
Received: 06/02/06

DATA QUALIFIERS AND DEFINITIONS

M-NR No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.

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

Project ID: 61801

Report Number: PPF0028

Sampled: 06/01/06
Received: 06/02/06

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: PPF0028-01, PPF0028-02, PPF0028-03, PPF0028-04, PPF0028-05, PPF0028-06, PPF0028-07, PPF0028-08, PPF0028-09, PPF0028-10, PPF0028-11, PPF0028-12, PPF0028-13, PPF0028-14, PPF0028-15, PPF0028-16

Sierra Environmental Monitoring, Inc.
1135 Financial Blvd. - Reno, NV 89502

Analysis Performed: Chlorate (300.1) - O
Samples: PPF0028-01, PPF0028-02, PPF0028-03, PPF0028-04, PPF0028-05, PPF0028-06, PPF0028-07, PPF0028-08, PPF0028-09, PPF0028-10, PPF0028-11, PPF0028-12, PPF0028-13, PPF0028-14, PPF0028-15, PPF0028-16

Del Mar Analytical - Phoenix
Linda Eshelman
Project Manager

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Del Mar Analytical LPF0001-PPF0028

2930 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: Kleinfelder, 6380 S. Polaris Ave, Las Vegas, NV 89119

Project/PO Number: 61801

Project Manager: Gary Carter

Phone Number: 702-736-2936

Sampler: PJD / LMW

Fax Number: 702-361-9094

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	ClO_4	ClO_3	Cl, SO_4	NO_3, TDS						Special Instructions
W1-SW-2-1	H_2O	Nal	3	6/1/06	10:35	None	X	X	X	X	PPF0028-				1	C103-SEM
W1-SW-10-2	↓	↓	↓	↓	9:40	↓	↓	↓	↓	↓				↓	2	C104-DMA I
W2-SW-2-3	↓	↓	↓	↓	9:50	↓	↓	↓	↓	↓				↓	3	
W2-SW-10-4	↓	↓	↓	↓	9:55	↓	↓	↓	↓	↓				↓	4	
W3-SW-2-5	↓	↓	↓	↓	10:45	↓	↓	↓	↓	↓				↓	5	
W3-SW-10-6	↓	↓	↓	↓	10:50	↓	↓	↓	↓	↓				↓	6	
W4-SW-2-7	↓	↓	↓	↓	11:00	↓	↓	↓	↓	↓				↓	7	
W5-SW-2-8	↓	↓	↓	↓	14:30	↓	↓	↓	↓	↓				↓	8	
W6-SW-2-9	↓	↓	↓	↓	11:30	↓	↓	↓	↓	↓				↓	9	
MW1-GW-1	↓	↓	↓	↓	11:30	↓	↓	↓	↓	↓				↓	10	
MW2-GW-2	↓	↓	↓	↓	12:45	↓	↓	↓	↓	↓				↓	11	
MW3-GW-3	↓	↓	↓	↓	10:45	↓	↓	↓	↓	↓				↓	12	
MW4-GW-4	↓	↓	↓	↓	10:20	↓	↓	↓	↓	↓				↓	13	
MW5-GW-5	↓	↓	↓	↓	9:45	↓	↓	↓	↓	↓				↓	14	

Relinquished By:	Date /Time:	Received by:	Date /Time:
[signature]	6/1/06 2:45	[signature]	6/1 14:46
[signature]	6/1/06 4:00 PM	[signature]	6-2-6
		Received in Lab by: [signature]	6-2-6 0845

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

Sample Integrity: (Check)
intact ✓ on ice ✓ 1.3°C

CA O/N

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 LP7001

CHAIN OF CUSTODY FORM

Client Name/Address: KleinFelder, 6380 S. Polaris Ave, Las Vegas, NV 89119

Project/PO Number: 61801

Project Manager: Gary Carter

Phone Number: 702-736-2936

Sampler: PJD/LMW

Fax Number: 702-361-9094

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	ClO_4	ClO_3	Cl, SO_4	NO_3, TDS						Special Instructions
MW6-GW-6	H_2O	Nal	3	6/1/06	12:15	None	X	X	X	X		PPFD0028-			15	
MW7-GW-7	↓	↓	↓	↓	13:30	↓	↓	↓	↓	↓					-16	

Relinquished By:	Date /Time:	Received by:	Date /Time:	Turnaround Time: (Check)
[signature]	6/1/06 7:45	[signature]	6/1/06 14:40	same day ____ 72 hours ____
Relinquished By: [signature] 6/1 Walsh	Date /Time:	Received by: [signature]	Date /Time: 6/2/06	24 hours ____ 5 days ____
				48 hours ____ normal ____
Relinquished By:	Date /Time:	Received in Lab by: [signature]	Date /Time: 6-2-6 0845	Sample Integrity: (Check)
				Intact ✓ on ice ✓ 1.3°

CA o/n

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.

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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) 505-9589
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

Del Mar Analytical

CHAIN OF CUSTODY FORM IPF0166

Client Name/Address: DMAP

Project/PO Number: PPF0028

Project Manager: Linda Eshelman

Phone Number: NA

Sampler:

Fax Number:

Analysis Required: C104

Nev certs

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	C104									Special Instructions
PPF0028-01	Aq	500 poly	1	6/1/06	10:35	X	X									DMAI
-02					9:40											
-03					9:50											
-04					9:55											
-05					10:45											
-06					10:50											
-07					11:00											
PPF0028-08					14:30											
-09					11:30											
-10					11:30											
-11					12:45											10:30
-12					10:45											
-13					10:20											
PPF0028-14					9:45											

Relinquished By:	Date /Time:	Received by:	Date /Time:
[signature]	6/2/06		
Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By:	Date /Time:	Received in Lab by: [signature]	Date /Time: 6-2-06 8:30

Turnaround Time: (Check)
same day ____ 72 hours X
24 hours ____ 5 days 6/8/06
48 hours ____ normal ____

Sample Integrity: (Check)
intact X on ice 0.4

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.

CS

447

Del Mar Analytical

...or Ave ... CA 926 ... 9) 261 ... (949) ...
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7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1842
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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., Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address: DMAP

Project/PO Number: PPF0028

Project Manager: Linda Eshelman

Sampler:

Phone Number:

Fax Number:

Analysis Required: C104

DMAI Nev. Certs

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	C104									Special Instructions
PPF0028-15	Aq	500p	1	6/1	12:15	X	X									
⊥ -16	⊥	⊥	⊥	⊥	13:30	⊥	X									

Relinquished By:	Date /Time:	Received by:	Date /Time:
[signature]	6/1 [illegible]		
Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By:	Date /Time:	Received in Lab by: [signature]	Date /Time: 6.2.06 8:30

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days 6/8/06
48 hours ____ normal ____

Sample Integrity: (Check)
intact X on ice x 0.4

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: 76215

Sierra Environmental Monitoring, Inc.

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

Date:	6/7/2006
Client:	DMR-101
Taken by:	Client
PO #:	PPF0028

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. 6/7/2006

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: 76215

Sierra Environmental Monitoring, Inc.

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

Date: 6/7/2006
Client: DMR-101
Taken by: Client
PO #: PPF0028

Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0104	PPF0028-01	6/1/2006	10:35 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0105	PPF0028-02	6/1/2006	9:40 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0106	PPF0028-03	6/1/2006	9:50 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0107	PPF0028-04	6/1/2006	9:55 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

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Laboratory Director

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John C. Seher
Special Consultant
Quality Assurance Manager

Laboratory Report
Report ID: 76215

Sierra Environmental Monitoring, Inc.

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

Date: 6/7/2006
Client: DMR-101
Taken by: Client
PO #: PPF0028

Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0108	PPF0028-05	6/1/2006	10:45 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0109	PPF0028-06	6/1/2006	10:50 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0110	PPF0028-07	6/1/2006	11:00 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0111	PPF0028-08	6/1/2006	2:30 PM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

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Laboratory Report
Report ID: 76215

Sierra Environmental Monitoring, Inc.

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

Date: 6/7/2006
Client: DMR-101
Taken by: Client
PO #: PPF0028

Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0112	PPF0028-09	6/1/2006	11:30 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0113	PPF0028-10	6/1/2006	11:30 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0114	PPF0028-11	6/1/2006	12:45 PM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0115	PPF0028-12	6/1/2006	10:45 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

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John C. Seher
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Quality Assurance Manager

Laboratory Report
Report ID: 76215

Sierra Environmental Monitoring, Inc.

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

Date: 6/7/2006
Client: DMR-101
Taken by: Client
PO #: PPF0028

Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0116	PPF0028-13	6/1/2006	10:20 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0117	PPF0028-14	6/1/2006	9:45 AM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0118	PPF0028-15	6/1/2006	12:15 PM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received
S200606-0119	PPF0028-16	6/1/2006	1:30 PM	6/2/2006

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Chlorate	EPA 300.0	<0.5	mg/L	0.5	Henderson	6/5/2006	

Data Flag Legend:

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Laboratory Director

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Quality Assurance Manager

Laboratory Report
Report ID: 76215

Sierra Environmental Monitoring, Inc.

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

Date: 6/7/2006
Client: DMR-101
Taken by: Client
PO #: PPF0028

Quality Control Report

Parameter	*LCS, % Recovery*	*MS, % Recovery*	*MSD, % Recovery*	*RPD, %*	*Method Blank*	
Chlorate	98.0	108.0	109.0	0.92	<0.5	mg/L

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

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Del Mar Analytical

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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
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

Page 2 of 2

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

Project/PO Number: PPF0028

Project Manager: Linda Eshelman

Phone Number: N/A (480) 785-0043

Sampler:

Fax Number: (480) 785-0851

Analysis Required: C103 chlorate; Nev. cerils

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	C103 chlorate	Special Instructions
PPF0028-15	w	coop	1	6/1/06	12:15	x	X	SEM
⊥ -16	⊥	⊥	⊥	⊥	13:30	X	X	
								custody seals were intact

Relinquished By: [signature] Date/Time: 4/6/06

Received by: Date/Time:

Relinquished By: Date/Time:

Received by: Date/Time:

Relinquished By: California Overnight #D100100933675 76 Date/Time:

Received in Lab by: Tracey Smithson Date/Time: 6/2/06 @ 0825

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

Sample Integrity. (Check)
intact X on ice X 1°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.

06/07/2006 13:31 7758572404 SIERRA ENVIRONMENTAL PAGE 08/08

Del Mar Analytical

76215

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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

Page 1 of 2

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

Project/PO Number: PPF0028

Project Manager: Linda Eshelman

Phone Number: N/A

Sampler:

Fax Number:

Analysis Required: ClO3-chlorate

Nevada certs

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	ClO3-chlorate									Special Instructions
PPF0028-01	Aq	SOOP	1	6/1/06	10:35	X	X									SEM
-02					9:40											
-03					9:50											custody seals
-04					9:55											were intact
-05					10:45											
PPF0028-06					10:50											Level IV
-07					11:00											
-08					14:30											
-09					11:30											
-10					11:30											
-11					12:45											
-12					10:45											
-13					10:20											
PPF0028-14					09:45											

Relinquished By:	Date /Time:	Received by:	Date /Time:
[signature]	6/1 Via Fedex CAON	sa	
Relinquished By:	Date /Time:	Received by:	Date /Time:
Relinquished By: California Overnight # D100100933 67576	Date /Time:	Received in Lab by: Tracey Smithson	Date /Time: 6/2/06 @ 0825

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

Sample Integrity: (Check)
intact X on ice X 1°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.

Groundwater Sampling Field Data Sheet

Project Name:	Cornerstone	Date:	6-1-06	By:	LMW/PJD
Project No.:	60801	Weather/Site Conditions:	Sunny, hot ~100°		
Monitoring Well ID:	MW-1	Site Location:	Stephenville, Wyoming		

Casing Diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other — Casing Material ☒ SCH 40-PVC ☐ Other: S. Steel

Total Depth (ft-TOC): (A) 21.71 — LNAPL Observed ☐ Yes ☒ No — DNAPL Observed ☐ Yes ☒ No

Total Depth (ft-TOC): (B) 5.56 — LNAPL Thickness — DNAPL Thickness

2"/8¼" = 0.78 g/ft = (D)

4"/9" = 1.33 G/FT = (D)

A - B = C — 4"/8¼" = 1.19 G/FT = (D)

Water Column Height (feet) (C) 16.15 — 4"/10¼" = 1.51 G/FT = (D) — 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

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: LMW/PJD

Sample Time: 11:30

Sample ID: MW1-GW-1

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

Time (24 hr)	PURGE VOL. (gallons)	pH	COND. ~~(µs/cm)~~ °/m	TURBIDITY (NTU)	TEMP. ~~(µS/cm)~~ °C	DO	SALINITY	Comments (color, odor, sheen, etc.)
11:20	3.0	7.38	0.436	–	25.86	5.1	0.2	
11:25	6.0	7.25	0.427	–	25.06	5.2	0.2	
11:30	8.0	7.29	0.417	–	24.63	5.2	0.2	

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

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 11:05	G_1 5.56	H_1	I_1
T_2 11:20	G_2 5.81	H_1	I_2
T_3 11:25	G_3 6.24	H_3	I_3
T_4 11:30	G_4 6.70	H_4	I_4

Total Vol. Purged (gal): 8.0

Max. Drawdown: (J)

Time Finished Purging:

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

Groundwater Sampling Field Data Sheet

Project Name:	Cornerstone	Date: 6-1-06	By: LMW / PJD
Project No.:	60801	Weather/Site Conditions:	Sunny, hot ≈ 100°
Monitoring Well ID:	MW 2	Site Location:	Stephanie Wigham

Casing Diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other — Casing Material ☒ SCH 40-PVC ☐ Other: S. Steel

Total Depth (ft-TOC): (A) 31.16 — LNAPL Observed ☐ Yes ☒ No — DNAPL Observed ☐ Yes ☒ No

Total Depth (ft-TOC): (B) 21.40 — LNAPL Thickness ____ — DNAPL Thickness ____

2"/8¼" = 0.78 g/ft = (D) ____

4"/9" = 1.33 G/FT = (D) ____

A - B = C — 4"/8¼" = 1.19 G/FT = (D) ____ — Approx. Min.

Water Column Height (feet) (C) 12.76 — 4"/10¼" = 1.51 G/FT = (D) ____ x 1.5 = (E) — Purge Vol.

Distance between TOC and ground surface = (+/-) — (1 borehole volume) — (1.5 borehole volume) — (gallons)

Water Level Measurement Equip.: ☐ Heron H. 01L 150' ☒ Water Line ☐ Heron Dipper T Cleaned ____

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: LMW / PJD

Sample Time: 12:45

Sample ID: MW2-GW-2

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

Time (24 hr)	PURGE VOL. (gallons)	pH	COND. ~~(µs/cm)~~ S/m	TURBIDITY (NTU)	TEMP. ~~(µS/cm)~~ °C	DO	SALINITY	Comments (color, odor, sheen, etc.)
12:20	2.5	7.60	0.498	—	20.64	6.4	0.3	
12:30	5.0	7.65	0.483	—	18.85	6.7	0.3	
12:45	7.5	7.60	0.425	—	19.05	6.4	0.2	

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

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 12:10	G_1 21.40	H_1	I_1
T_2 12:20	G_2 21.79	H_2	I_2
T_3 12:30	G_3 21.90	H_3	I_3
T_4 12:45	G_4 21.98	H_4	I_4

Total Vol. Purged (gal): 7.5

Max. Drawdown: (J) ____

Time Finished Purging: ____

$A - B = C$; $G_x - B = H_x$; $F - B = J$; $\frac{H_x}{\ } - 1 \times 100 = I_x$; $\frac{I_x - I_1}{\ } \times 120 =$ % recovery in 2 hrs.

Groundwater Sampling Field Data Sheet

Project Name:	Cornerstone	Date: 6-1-06	By: LMW/PJD
Project No.:	61801	Weather/Site Conditions:	Sunny, hot ≈ 100°
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) 29.90 — LNAPL Observed ☐ Yes ☒ No — DNAPL Observed ☐ Yes ☒ No

Total Depth (ft-TOC): (B) 17.41 — LNAPL Thickness _____ — DNAPL Thickness _____

2"/8¼" = 0.78 g/ft = (D) _____

4"/9" = 1.33 G/FT = (D) _____

A - B = C — 4"/8¼" = 1.19 G/FT = (D) _____

Water Column Height (feet) (C) 12.49 — 4"/10¼" = 1.51 G/FT = (D) _____ 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 _____

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: LMW

Sample Time: 10:45 / 13:30

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.)
10:30	2.5	7.33	0.287	—	24.86	4.8	0.1	
10:35	5.0	7.35	0.285	—	23.41	5.1	0.1	
10:40	7.0	7.36	0.280	—	22.89	5.1	0.1	

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

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 10:24	G_1 17.41	H_1	I_1
T_2 10:30	G_2 17.66	H_2	I_2
T_3 10:35	G_3 17.68	H_3	I_3
T_4 10:40	G_4 17.70	H_4	I_4

Total Vol. Purged (gal): 7.0

Max. Drawdown: (J) _____

Time Finished Purging: _____

$A - B = C$; $G_x - B = H_x$; $F - B = J$; $\frac{H_x}{} - 1 \times 100 = I_x$; $\frac{I_x - I_1}{} \times 120 = \%$ recovery in 2 hrs.

Groundwater Sampling Field Data Sheet

Project Name:	Cornerstone	Date: 6-1-06	By: LMW / PJD
Project No.:	61801	Weather/Site Conditions:	Sunny hot ≈ 100°
Monitoring Well ID:	MW 4	Site Location:	Stephanie & Wigwam

Casing Diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other — Casing Material ☒ SCH 40-PVC ☐ Other: S. Steel

Total Depth (ft-TOC): (A) 19.29 — LNAPL Observed ☐ Yes ☒ No — DNAPL Observed ☐ Yes ☒ No

Total Depth (ft-TOC): (B) 2.35 — LNAPL Thickness — DNAPL Thickness

2"/8¼" = 0.78 g/ft = (D)

4"/9" = 1.33 G/FT = (D)

A - B = C — 4"/8¼" = 1.19 G/FT = (D) — Approx. Min.

Water Column Height (feet) (C) 16.94 — 4"/10¼" = 1.51 G/FT = (D) — x 1.5 = (E) — Purge Vol.

Distance between TOC and ground surface = (+/-) — (1 borehole volume) — (1.5 borehole volume) — (gallons)

Water Level Measurement Equip.: ☐ Heron H. 01L 150' ☒ Water Line ☐ Heron Dipper T Cleaned

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: LMW

Sample Time: 10:20

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. ~~(µS/cm)~~ °C	DO	SALINITY	Comments (color, odor, sheen, etc.)
10:02	3.0	7.06	0.367	547	25.09	4.7	0.2	
10:10	6.0	7.15	0.366	836	24.23	4.9	0.2	
10:18	9.0	7.14	0.359	898	23.86	5.1	0.2	

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

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 9.55	G_1 2.35	H_1	I_1
T_2 10:02	G_2 2.50	H_2	I_2
T_3 10:10	G_3 2.54	H_3	I_3
T_4 10:18	G_4 2.59	H_4	I_4

Total Vol. Purged (gal): 9.0

Max. Drawdown: (J)

Time Finished Purging:

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

Groundwater Sampling Field Data Sheet

Project Name:	Cornerstone	Date: 6-1-06	By: LMW/PJD
Project No.:	61801	Weather/Site Conditions:	Sunny, hot ≈ 100°
Monitoring Well ID:	MW 5	Site Location:	Stephanie & Wigwam

Casing Diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other — Casing Material ☒ SCH 40-PVC ☐ Other: S. Steel

Total Depth (ft-TOC): (A) 22.75 — LNAPL Observed ☐ Yes ☒ No — DNAPL Observed ☐ Yes ☒ No

Total Depth (ft-TOC): (B) 9.21 — LNAPL Thickness — DNAPL Thickness

2"/8¼" = 0.78 g/ft = (D)

4"/9" = 1.33 G/FT = (D)

A - B = C — 4"/8¼" = 1.19 G/FT = (D) — Approx. Min.

Water Column Height (feet) (C) 13.54 — 4"/10¼" = 1.51 G/FT = (D) — x 1.5 = (E) — Purge Vol.

Distance between TOC and ground surface = (+/-) — (1 borehole volume) — (1.5 borehole volume) — (gallons)

Water Level Measurement Equip.: ☐ Heron H. 01L 150' ☒ Water Line ☐ Heron Dipper T Cleaned

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: LMW

Sample Time: 9:45

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.)
9:31	2.5	6.02	0.443	701	23.29	5.0	0.2	
9:36	5.0	6.52	0.438	782	22.28	5.2	0.2	
9:41	7.0	6.85	0.435	996	22.06	5.1	0.2	

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

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 9:24	G_1 9.21	H_1	I_1
T_2 9:31	G_2 9.77	H_2	I_2
T_3 9:36	G_3 10.26	H_3	I_3
T_4 9:41	G_4 9.50	H_4	I_4

Total Vol. Purged (gal): 7.0

Max. Drawdown: (J)

Time Finished Purging:

$A - B = C$; $G_x - B = H_x$; $F - B = J$; $\frac{H_x}{\ } - 1 \times 100 = I_x$; $\frac{I_x - I_1}{\ } \times 120 = \%$ recovery in 2 hrs.

Groundwater Sampling Field Data Sheet

Project Name: Cornerstone	Date: 6-1-06	By: LMW/PJD	
Project No.: 161801	Weather/Site Conditions: Sunny, hot ~100°		
Monitoring Well ID: MW-6	Site Location: Stephanie & Wigwam		

Casing Diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other — Casing Material ☒ SCH 40-PVC ☐ Other: S. Steel

Total Depth (ft-TOC): (A) 18.71 — LNAPL Observed ☐ Yes ☒ No — DNAPL Observed ☐ Yes ☒ No

Total Depth (ft-TOC): (B) 1.22 — LNAPL Thickness _____ — DNAPL Thickness _____

2"/8¼" = 0.78 g/ft = (D) _____

4"/9" = 1.33 G/FT = (D) _____

A - B = C — 4"/8¼" = 1.19 G/FT = (D) _____ — Approx. Min.

Water Column Height (feet) (C) 17.49 — 4"/10¼" = 1.51 G/FT = (D) _____ x 1.5 = (E) — Purge Vol.

Distance between TOC and ground surface = (+/-) — (1 borehole volume) — (1.5 borehole volume) — (gallons)

Water Level Measurement Equip.: ☐ Heron H. 01L 150' ☒ Water Line ☐ Heron Dipper T Cleaned _____

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: LMW/PJD

Sample Time: 12:15

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. ~~(µS/cm)~~ °C	DO	SALINITY	Comments (color, odor, sheen, etc.)
11:55	3.0	7.32	0.537	–	26.47	5.0	0.3	
12:05	6.0	7.28	0.535	–	25.33	5.2	0.3	
12:15	9.0	7.26	0.498	–	25.17	5.0	0.3	

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

TIME (24 HR)	DEPTH TO WATER (ft)	RESIDUAL DRAWDOWN (ft)	PERCENT RECOVERY
T_1 11:50	G_1 1.22	H_1	I_1
T_2 11:55	G_2 1.24	H_2	I_2
T_3 12:05	G_3 1.33	H_3	I_3
T_4 12:15	G_4 1.36	H_4	I_4

Total Vol. Purged (gal): 9.0

Max. Drawdown: (J) _____

Time Finished Purging: _____

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

KLEINFELDER

Environmental Field Daily Report

Project Name : Cornerstone	Date : 6-1-06	Report # :
Project / Task # : 61801	Site Location : Stephanie & Wigwam, Henderson NV	

Field notes continued :

8:45 Arrive on site
Unload boat and surface water supplies

9:00 Calibrate Horiba
pH 3.96 @ 29.31°C for pH=4 solution

9:30-13:00 Sample surface and groundwater

14:30 Arrive at Del Mar Analytical

14:40 Relinquished samples to Del Mar Analytical

15:00 Arrive at Kleinfelder

EDFR Submitted to _____

Reviewed by _____ Signature _____