

March 25, 2016

Mr. James D. Dotchin
Chief, Bureau of Industrial Site Cleanup
Nevada Division of Environmental Protection
2030 East Flamingo Road, Suite 230
Las Vegas, Nevada 89119

Subject: Amendment No. 1 to Work Plan (#2015-140) for Initial Sampling of Groundwater, Revised Labor and Subcontractor Costs – Nevada Environmental Response Trust Remedial Investigation, Downgradient Study Area, Henderson, Nevada

Dear Mr. Dotchin:

AECOM is pleased to provide this amendment to the Work Plan for performing initial groundwater sampling and analyses (Work Plan) in support of the Downgradient Study Area component of the Nevada Environmental Response Trust (NERT) Remedial Investigation in Henderson, Nevada. The Work Plan, dated December 30, 2015, was approved by Nevada Division of Environmental Protection (NDEP) on January 8, 2016. This amendment includes revised labor hours, travel cost, and equipment cost for AECOM; revised subcontractor cost, including the 7 percent mark-up inadvertently omitted from the December 30, 2015, Work Plan; and cost for the analysis of dissolved total hexavalent chromium. The analysis of hexavalent chromium was requested by the NDEP in mid-January 2016, after the initial work plan had been submitted for NERT approval.

The objective of the initial groundwater sampling, which is to assess current groundwater conditions and provide current data that will help refine the understanding of data gaps, remains unchanged. These data will be used to select locations within the investigation area (Downgradient Study Area) where additional monitoring wells may be needed.

SCOPE OF WORK

The scope of work described in the December 30, 2015, Work Plan remains unchanged with the following exceptions:

1. Reduction in the number of wells to be sampled and increase in time estimated to access/sample each well,
2. Addition of dissolved chromium and dissolved hexavalent chromium to the analytical suite, and
3. Update and finalization of the Groundwater Sampling Plan (GSP).

Changes to Scope of Work

- **78 Wells to be Sampled** - After submittal of the Work Plan, detailed review of potentially available wells in the Downgradient Study Area showed that some wells that NDEP requested to be sampled have been abandoned or are no longer accessible. As such, 78 wells are included in this scope of work. The wells to be sampled are shown on **Figure 1** and well details are summarized in **Table 1**.

- **Dissolved Total Chromium Analysis** - Costs for analysis of dissolved total chromium were not included in the Work Plan because this analysis was not required by NDEP as part of the analytical program at that time. Laboratory costs for TestAmerica have been revised to include analysis of 78 groundwater samples per the proposed analytical program and to include analysis of dissolved total chromium.
- **Dissolved Hexavalent Chromium Analysis** - Costs for analysis of dissolved hexavalent chromium were not included in the December 2015 Work Plan because this analysis was required by NDEP as part of the analytical program at that time. Silver State Laboratories will be responsible for hexavalent chromium analysis from groundwater samples collected from the 78 wells. This laboratory was not previously included in the initial work plan but has been added because of their local presence allowing analysis of dissolved hexavalent chromium within the 24-hour hold-time.
- **Groundwater Sampling Plan** - Incorporating additional analyses in the GSP and finalizing for final submittal.

AECOM Labor

- AECOM labor, travel, and equipment rates were revised to account for additional efforts as described below and for the difference in field days based on the reduced number of wells. The following sub-tasks of the groundwater sampling scope of work require additional level of effort:
 - Task Order Management –The level of effort increased because invoicing requirements and project controls implemented to manage the task are more labor intensive than originally anticipated.
 - Groundwater Sampling Plan – The GSP, which was originally developed under Task 110, required additional work due to the expansion of the analytical suite and to address stakeholder comments not included in the Task 110 budget.
 - Subcontractor Management – Additional time is required for subcontractor management to allow for implementation of project controls to ensure subcontractors abide by flow downs of the prime contract and access/permit agreements from well/property owners. Hours include time for the finance team to review weekly field sheets, invoices, and invoice backup (i.e., timesheets, expense reports, equipment logs).
 - GW Sampling – Overall field hours for the groundwater sampling activities did not change significantly due to the reduced number of wells because additional time is needed for field filtering for dissolved total chromium analysis and the travel time between wells increased, as some wells are in remote locations north of the Las Vegas Wash (LVW). Additional management time is required to allow for detailed planning and execution of the sampling program.
 - Data Validation – Additional time is required for data validation due to the expanded analytical suite. This time is partly offset by the reduction in the number of wells that are currently scheduled to be sampled.
 - Reporting – Additional hours were added to the reporting budget based on time and resources involved in reviews and response to comments of documents submitted to NDEP and stakeholders. Initial cost estimate did not include time to address stakeholder comments. The revised reporting budget includes one round of response to stakeholder comments. Hours were also added for additional reporting of dissolved

chromium and hexavalent chromium and the generation of five figures depicting the wells sampled, groundwater elevations, and results of perchlorate, chromium, and total dissolved solids.

- Deliverable(s): Technical Memorandum (Preliminary Draft, Final Draft, and Final).

Subcontractor Costs

- Subcontractor costs were revised based on the sampling of 78 wells, the added travel time required to access remote wells, added costs for the additional analyses, and to include the 7-percent mark-up previously not included. Following is the rationale for the estimated additional subcontractor level of effort and cost:
 - Added Travel Time - The detailed review showed that travel time to some wells along the LVW will take considerably longer than originally anticipated due to their remote location and indirect routes that must be traveled to access them. This added travel time applies to wells located north of the LVW where the field crew will have to drive approximately 3 miles west of the western boundary of the Downgradient Study Area to access the dirt road that leads to the wells and then travel 6 miles on the dirt road to the well locations. Travel on dirt roads will be at low speeds (15 miles per hour) to reduce dust generated by vehicular traffic. The distance and road conditions increase the time originally estimated to conduct surveys and sampling. Moreover, additional time will be needed to access the four wells on the Chimera Golf Course as equipment will have to be loaded onto golf carts, and it will take longer to travel to the four wells due to speed limits imposed on golf carts within the golf course. Subcontractor costs have been adjusted to account for added travel time between wells.
 - 7-Percent Mark-up – Subcontractor cost presented in this amendment include a 7-percent mark-up as allowed by the approved contract. This mark-up was inadvertently excluded from the December 30, 2015, Work Plan.

This scope of work will be conducted in conformance with the Quality Assurance Project Plan (QAPP) currently in preparation and the Final GSP issued on February 29, 2016.

PRELIMINARY SCHEDULE AND ESTIMATED COST

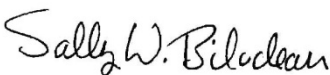
The following summarizes the revised preliminary implementation schedule, the cost estimate from the December 2015 Work Plan, total revised cost estimate and the difference (Amendment No. 1) between the cost estimate from the December 2015 Work Plan and the total revised cost estimate. Subcontractor costs include the 7-percent AECOM mark-up allowed by the contract on all subcontractors.

Task Order and Title	Approximate Schedule	Initial Est. Cost (Dec 2015)	Amendment No. 1 (R1)	Total Revised Est. Cost (March 2016)
2015-140-01 – Initial Sampling of Groundwater (AECOM)	December 2015 – July 2016	\$120,658	\$39,575	\$160,233
2015-140-02 – Groundwater Sampling Subcontractor (GES)	March 2016 – April 2016	\$54,552	(\$10,316)	\$44,236
2015-140-03 –Laboratory Subcontractor (TestAmerica)	March 2016 – April 2016	\$10,672	(\$1,965)	\$8,707
2015-140-03 Cr – Dissolved Total Chromium Laboratory Subcontractor (TestAmerica)	March 2016 – April 2016	\$0	\$3,103	\$3,103
2015-140-04 – Laboratory Subcontractor (Silver State)	March 2016 – April 2016	\$0	\$10,970	\$10,970
2015-140-05 – Surveyor Subcontractor (Stanley)	March 2016 – April 2016	\$9,000	\$7,125	\$16,125
2015-140-06 – Drilling Subcontractor (National)	March 2016 – April 2016	\$16,205	\$1,134	\$17,339
Work Plan Total		\$212,099	\$49,626	\$260,713

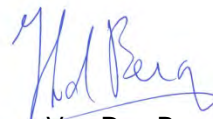
The total request for Addendum No. 1 is **\$49,626**. A detailed breakdown of the Addendum No. 1 cost is included in **Table 2**. Total cost for this Task Order, including cost requested in this amendment, is provided on **Table 3**. Scope of work and cost details for Task Order 2015-140-01 (AECOM labor) has already been approved by NDEP. The subcontractor task orders (2015-140-02, 2015-140-03, 2015-140-04, 2015-140-05 and 2015-140-06) will be uploaded once NDEP's approves this amendment. If this amendment meets with your approval, please send AECOM your authorization at your earliest convenience.

If you have any questions regarding this amendment, or if AECOM may be of further assistance, please contact Carmen Caceres-Schnell at (805) 764-4031 or either of the undersigned.

Sincerely,



Sally Bilodeau, CEM
 Project Manager



Harry Van Den Berg, PE
 Principal-in-Charge

Attachments: Table 1 – List of Wells Proposed for Sampling
 Table 2 – Amendment No. 1 Groundwater Sampling Cost Estimate

Table 3 – Groundwater Sampling Cost Estimate - Total Revised Cost
Figure 1 – Groundwater Sampling Locations

Table 1 List of Wells Proposed for Sampling
 NERT Remedial Investigation - Downgradient Study Area
 Henderson, Nevada

Well ID	Well Owner	Property Owner	Screen Interval (feet, bgs)	Water-Bearing Zone	Lithology
AA-08	LWC	CCPCS	5 - 35	Shallow	Qal
AA-20	LWC	LWC	10 - 30	Shallow	Qal
AA-22	LWC	COH	11 - 31	Shallow	Qal
AA-23R	LWC	COH	20 - 45	Shallow	Qal
AA-26	LWC	SBT	32 - 52	Shallow	Qal
AA-30	LWC	US BOR	11.7 - 31.7	Shallow	Qal
COH-1	SNWA	US BOR	157.9 - 167.9	Middle	UMCf
COH-1A	SNWA	US BOR	10 - 20	Shallow	Qal
COH-2A	SNWA	US BOR	40 - 50	Shallow	Qal
COH2B1	COH	US BOR	TBD	TBD	TBD
DBMW-1	LWC	COH	19 - 49	Shallow	Qal/UMCf
DBMW-4	LWC	COH	10 - 20	Shallow	Qal/UMCf
DBMW-5	LWC	LWC	15 - 35	Shallow	UMCf
DBMW-6	LWC	LWC	30 - 50	Shallow	Qal/UMCf
DBMW-7	LWC	COH	50 - 70	Shallow	UMCf
DBMW-8	LWC	COH	47.5 - 67.5	Shallow	UMCf
DBMW-22	LWC	CCPCS	35 - 55	Shallow	UMCf
DM4	LWC	LWC	8 - 23	Shallow	Qal
DM5	LWC	LWC	7 - 22	Shallow	Qal
HM-1	LWC	COH	TBD	TBD	TBD
HM-2	LWC	COH	? - 36.89	Shallow	TBD
HM-3	LWC	COH	TBD	TBD	TBD
HSW-1	LWC	COH	? - 23.78	TBD	TBD
HSW-2	LWC	COH	TBD	TBD	TBD
LNDMW1	SNWA	CCPCS	TBD	TBD	TBD
LNDMW2	SNWA	CCPCS	TBD	TBD	TBD
MCF-05	LWC	LWC	221 - 231	Middle	UMCf
MCF-06A-R	LWC	LWC	333 - 373	Deep	UMCf
MCF-06B	LWC	COH	67 - 82	Shallow	UMCf
MCF-06C	LWC	COH	44 - 59	Shallow	UMCf
MCF-08A	LWC	CCPCS	350 - 370	Deep	UMCf
MCF-08B-R	LWC	CCPCS	96.5 - 136.5	Middle	UMCf
MCF-18A	LWC	COH	360 - 400	Deep	UMCf
MCF-19A	LWC	COH	320 - 360	Deep	UMCf
MCF-20A	LWC	LWC	340 - 380	Deep	UMCf
MCF-31A	LWC	US BOR	361 - 381	Deep	UMCf
MCF-31B	LWC	US BOR	210 - 230	Middle	UMCf
MW-02	COH	US BOR	? - 45	Shallow	TBD

Table 1 List of Wells Proposed for Sampling
 NERT Remedial Investigation - Downgradient Study Area
 Henderson, Nevada

Well ID	Well Owner	Property Owner	Screen Interval (feet, bgs)	Water-Bearing Zone	Lithology
MW-03	COH	COH	? - 35	Shallow	Qal
MW-04	COH	COH	? - 30	Shallow	Qal
MW-05	COH	COH	? - 66.7	Shallow	TBD
MW-06	COH	COH	? - 52	Shallow	TBD
MW-08	COH	COH	TBD	Middle	UMCf
MW-09	COH	COH	TBD	NA	TBD
MW-10	COH	COH	? - 60	Shallow	TBD
MW-11	COH	COH	? - 70	Shallow	TBD
MW-12	COH	COH	? - 61	Shallow	TBD
MW-13	COH	COH	? - 48	Shallow	Qal
MW-14	COH	CCPCS	? - 43	Shallow	TBD
MW-K8	AMPAC	LWC	? - 50	Shallow	Qal
PC-74	NERT	CCPCS	39.5 - 49.5	Shallow	Qal
PC-76	NERT	CCPCS	15 - 20	Shallow	Qal
PC-77	NERT	CCPCS	29.5 - 39.5	Shallow	Qal
PC-78	NERT	CCPCS	11.5 - 21.5	Shallow	Qal
PMW-7	AMPAC	CCPCS	20 - 40	Shallow	Qal/xMCF
PMW-8	AMPAC	CCPCS	21 - 41	Shallow	Qal/xMCF
RIT-06	AMPAC	CCPCS	32 - 42	Shallow	Qal
RIT-10	AMPAC	CCPCS	25 - 40	Shallow	Qal
UZO-17	AMPAC	CCPCS	17 - 47	Shallow	Qal/xMCF
W02	SNWA	US BOR	TBD	Middle	UMCf
WMW3.5N	SNWA	CCPCS	TBD	TBD	TBD
WMW4.9N	SNWA	CCPCS	TBD	TBD	TBD
WMW4.9S	SNWA	CCPCS	TBD	TBD	TBD
WMW5.58S	SNWA	US BOR	TBD	TBD	TBD
WMW5.5S	SNWA	US BOR	TBD	TBD	TBD
WMW5.7N	SNWA	US BOR	TBD	TBD	TBD
WMW5.85S	SNWA	US BOR	TBD	TBD	TBD
WMW6.0N	SNWA	US BOR	TBD	TBD	TBD
WMW6.0S	SNWA	US BOR	TBD	TBD	TBD
WMW6.15N	SNWA	CCPCS	TBD	TBD	TBD
WMW6.15S	SNWA	CCPCS	TBD	TBD	TBD
WMW6.2N	SNWA	CCPCS	TBD	TBD	TBD
WMW6.55S	SNWA	CCPCS	TBD	TBD	TBD
WMW7.8N	SNWA	CCPCS	TBD	TBD	TBD
MW-1	CGC	CGC	TBD	TBD	TBD
MW-2	CGC	CGC	TBD	TBD	TBD
MW-3	CGC	CGC	TBD	TBD	TBD
MW-4	CGC	CGC	TBD	TBD	TBD

Table 1 List of Wells Proposed for Sampling
 NERT Remedial Investigation - Downgradient Study Area
 Henderson, Nevada

Well ID	Well Owner	Property Owner	Screen Interval (feet, bgs)	Water-Bearing Zone	Lithology
<p><u>Notes:</u> NDEP recommended the inclusion of the following wells to be sampled in the Groundwater Sampling AMPAC = American Pacific bgs = below ground surface LWC = LandWell Company US BOR = United States Bureau of Reclamation CCPCS = Clark County Parks and Community Services CGC = Chimera Golf Course COH = City of Henderson NA = Not available Qal = Quaternary Alluvium SBT = School Board of Trustees SNWA = Southern Nevada Water Authority TBD = to be determined UMCf = Upper Muddy Creek formation xMCf = Transitional (or reworked) Muddy Creek formation</p>					

**Table 2. Amendment No. 1 Groundwater Sampling Cost Estimate
Amendment No. 1 for Task Order 2015-140-01-R1
NERT Remedial Investigation, Downgradient Study Area**

LABOR			Task Order Management		GW Sampling		Subcontractor Mngmnt		Data Analysis + Valid		Reporting (Draft, RTC, Final)		RTC GSP		GRAND TOTAL			
Staff	Position Job Title	Units	Labor	Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		GRAND TOTAL		
			Bill Rate	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	
Harry Van Den Berg	Program Director/Principal	h	\$ 203.75	14	\$ 2,852.50	0	\$ -	\$ -	\$ -	5	\$ 1,018.75	10	\$ 2,037.50	3	\$ 611.25	32	\$ 6,520.00	
Mike Flack	Program Director/Principal	h	\$ 203.75		\$ -		\$ -	\$ -	\$ -	-2	\$ (407.50)	10	\$ 1,571.30	6	\$ 942.78	25	\$ 3,928.25	
Sally Bilodeau	Project Manager	h	\$ 157.13	14	\$ 2,199.82	0	\$ -	\$ -	\$ -	-5	\$ (785.65)	10	\$ 1,571.30	6	\$ 942.78	25	\$ 3,928.25	
Kevin Russell	Senior Scientist	h	\$ 156.66		\$ -	0	\$ -	\$ -	\$ -		\$ -		\$ -		\$ -	0	\$ -	
Steve Cole	Senior Scientist	h	\$ 156.66		\$ -		\$ -	\$ -	\$ -	5	\$ 783.29	0	\$ -		\$ -	5	\$ 783.29	
Chad Roper	Senior Scientist	h	\$ 156.66		\$ -		\$ -	\$ -	\$ -	0	\$ -	11	\$ 1,723.24	2	\$ 313.32	13	\$ 2,036.56	
Carmen Caceres-Schnell	Deputy Project Manager	h	\$ 125.41	14	\$ 1,755.74	16	\$ 2,006.56	22	\$ 2,759.02	4	\$ 501.64	30	\$ 3,762.30	10	\$ 1,254.10	96	\$ 12,039.36	
Brian Ho	Project/Staff Scientist	h	\$ 124.73		\$ -	16	\$ 1,995.68	12	\$ 1,496.76		\$ -	-16	\$ (1,995.68)		\$ -	12	\$ 1,496.76	
Sara Arav-Piper	Project/Staff Scientist	h	\$ 124.73		\$ -	8	\$ 997.84		\$ -		\$ -		\$ -		\$ -	8	\$ 997.84	
Tom Shook or Zoe Diernier	Project/Staff Scientist	h	\$ 124.73		\$ -	0	\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	
Karsten Kelm	Project Drafting	h	\$ 95.24		\$ -		\$ -		\$ -	-10	\$ (952.42)	20	\$ 1,904.85	11	\$ 1,047.67	21	\$ 2,000.09	
Budin/Pena/Olsen	Administrative/Clerical	h	\$ 72.83	20	\$ 1,456.65	0	\$ -	82	\$ 5,983.18		\$ -	0	\$ -	2	\$ 145.66	104	\$ 7,585.49	
TOTAL				62	\$ 8,264.71	40	\$ 5,000.08	116	\$ 10,238.96	-1	\$ 565.61	63	\$ 8,596.01	34	\$ 4,314.78	314	\$ 36,980.14	
																	2% Mark-up on Labor	\$ 739.60
																	314	\$ 37,719.74

NON-LABOR TASKS																
TRAVEL - DAILY			Task Order Management		GW Sampling		Subcontractor Mngmnt		Data Analysis + Valid		Reporting (Draft, RTC, Final)		RTC GSP		Total	
Description	Rate (per diem = GSA rates+ taxes)		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Units	Total
			Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total				
Airfare - Burbank to Las Vegas	\$ 354.00			\$ -	1	\$ 354.00		\$ -		\$ -		\$ -		\$ -	1	\$ 354.00
				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
SUBTOTAL				\$ -		\$ 354.00		\$ -		\$ -		\$ -		\$ -	1	\$ 354.00
Per Diem - Hotel	\$ 120.96	daily rate		\$ -	-6	\$ (725.76)		\$ -		\$ -		\$ -		\$ -	-6	\$ (725.76)
Per Diem - Meals	\$ 64.00	daily rate		\$ -	-3	\$ (192.00)		\$ -		\$ -		\$ -		\$ -	-3	\$ (192.00)
Car Rental (Stand'd SUV)	\$ 53.96	daily rate		\$ -	-7	\$ (377.72)		\$ -		\$ -		\$ -		\$ -	-7	\$ (377.72)
Gas (for rental vehicle)	\$ 3.25	per gallon		\$ -	50	\$ 162.50		\$ -		\$ -		\$ -		\$ -	50	\$ 162.50
Parking (airport)	\$ 15.00	daily rate		\$ -	-5	\$ (75.00)		\$ -		\$ -		\$ -		\$ -	-5	\$ (75.00)
SUBTOTAL				\$ -		\$ (1,207.98)		\$ -		\$ -		\$ -		\$ -	29	\$ (1,207.98)
TOTAL				\$ -		\$ (853.98)		\$ -		\$ -		\$ -		\$ -	30	\$ (853.98)

TRAVEL - MILEAGE			Task Order Management		GW Sampling		Subcontractor Mngmnt		Data Analysis + Valid		Reporting (Draft, RTC, Final)		RTC GSP		Total	
Description	Rate (Effective January 1, 2015)	miles/RT	Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Units	Total Cost
			Miles	Total	Miles	Total	Miles	Total	Miles	Total	Miles	Total	Hours	Total		
Camarillo to Airport	\$ 0.540	100		\$ -	-60	\$ (45.00)		\$ -		\$ -		\$ -		\$ -	-60	\$ (45.00)
TOTAL			0	\$ -	-60	\$ (45.00)		\$ -		0	\$ -		0	\$ -	-60	\$ (45.00)

EQUIPMENT - CONTRACT RATE			Task Order Management		GW Sampling		Subcontractor Mngmnt		Data Analysis + Valid		Reporting (Draft, RTC, Final)		RTC GSP		TOTAL	
Description	Rate	Hrs/Unit	Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Units	Total
			Qty	Total	Qty	Total	Qty	Total	Hours	Total	Hours	Total	Qty	Total		
Bladder pump w/controller	\$ 175.00	day		\$ -	7	\$ 1,225.00		\$ -		\$ -		\$ -		\$ -	7	\$ 1,225.00
Compressor for bladder pump	\$ 100.00	day		\$ -	7	\$ 700.00		\$ -		\$ -		\$ -		\$ -	7	\$ 700.00
Level D PPE	\$ 15.00	day		\$ -	-6	\$ (90.00)		\$ -		\$ -		\$ -		\$ -	-6	\$ (90.00)
TOTAL			0	\$ -	8	\$ 1,835.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -	8	\$ 1,835.00

EQUIPMENT - OTHER			Task Order Management		GW Sampling		Subcontractor Mngmnt		Data Analysis + Valid		Reporting (Draft, RTC, Final)		RTC GSP		TOTAL		
Description	Rate	Unit	Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Units	Total	
			Units	Total	Qty	Total	Qty	Total	Hours	Total	Hours	Total	Qty	Total			
Tubing, bladder pump (twin bonded), LDPE	\$ 0.55	FT		\$ -	0	\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	
Well Plugs 2" - hang tubing	\$ 6.90	EA		\$ -	0	\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	
Well plugs 4" - hang tubing	\$ 10.15	EA		\$ -	0	\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	
Field supplies	\$ 50.00	day		\$ -	-2	\$ (100.00)		\$ -		\$ -		\$ -		\$ -	-2	\$ (100.00)	
Water level meter (500 ft)	\$ 40.00	day		\$ -	5	\$ 200.00		\$ -		\$ -		\$ -		\$ -	5	\$ 200.00	
Bladders for Sample Pro	\$ 110.00	10/pack		\$ -	0	\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	
In-line water filter (0.45 micron) – 30 cm capacity	\$ 7.10	per filter		\$ -	85	\$ 603.50		\$ -		\$ -		\$ -		\$ -	85	\$ 603.50	
In-line water filter (0.45 micron) – 609 cm capacity	\$ 17.95	per filter		\$ -	12	\$ 215.40		\$ -		\$ -		\$ -		\$ -	12	\$ 215.40	
TOTAL			0	\$ -	100	\$ 918.90	0	\$ -	0	\$ -	0	\$ -	0	\$ -	100	\$ 918.90	
																GRAND TOTAL	\$ 39,574.66

**Table 2. Amendment No. 1 Groundwater Sampling Cost Estimate
Subcontractor Task Orders 2015-140-01
NERT Regional GW RI**

				Task Order Management	GW Sampling and Analysis	Subcontractor Mngmnt	Data Analysis + Valid	Reporting (Draft, RTC, Final)	RTC GSP											
SUBCONTRACTORS				Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		Task 2015-140-01		SUBTOTAL		TOTAL		
Description	Task Order	Rate	Hrs/Unit	Qty	Total	Qty	Total	Qty	Total	Hours	Total	Hours	Total	Qty	Total	Units	Total	7% Mark Up	Total	Total Difference
GES - Field Labor	2015-140-02	\$ 41,341.90	event		\$ -	1	\$ 41,341.90		\$ -		\$ -		\$ -		\$ -	1	\$ 41,341.90	\$ 2,893.93	\$ 44,235.83	\$ (10,316.17)
TestAmerica - Lab analysis	2015-140-03	\$ 70.15	per sample		\$ -	116	\$ 8,137.40		\$ -		\$ -		\$ -		\$ -	116	\$ 8,137.40	\$ 569.62	\$ 8,707.02	\$ (1,964.98)
TestAmerica - Chromium Lab Analysis	2015-140-03 Cr	\$ 25.00	per sample		\$ -	116	\$ 2,900.00		\$ -		\$ -		\$ -		\$ -	116	\$ 2,900.00	\$ 203.00	\$ 3,103.00	\$ 3,103.00
Silver State Laboratories - Hexavalent Chromium	2015-140-04 Cr	\$ 10,252.00	per event		\$ -	1	\$ 10,252.00		\$ -		\$ -		\$ -		\$ -	1	\$ 10,252.00	\$ 717.64	\$ 10,969.64	\$ 10,969.64
Stanley Land Surveying	2015-140-05	\$ 15,070.00	event		\$ -	1	\$ 15,070.00		\$ -		\$ -		\$ -		\$ -	1	\$ 15,070.00	\$ 1,054.90	\$ 16,124.90	\$ 7,124.90
National EWP Drilling - Schmeal Rig	2015-140-06	\$ 16,205.00	event		\$ -	1	\$ 16,205.00		\$ -		\$ -		\$ -		\$ -	1	\$ 16,205.00	\$ 1,134.35	\$ 17,339.35	\$ 1,134.35
			TOTAL	0	\$ -	236	\$ 93,906.30	0	\$ -	0	\$ -	0	\$ -	0	\$ -	236	\$ 93,906.30	\$ 6,573.44	\$ 100,479.74	\$ 10,050.74
			TOTAL NON-LABOR COSTS		\$ -		\$ 95,761.22		\$ -		\$ -		\$ -		\$ -					
			SUB-TASK TOTAL (Include. 2%)		\$ 8,430.00		\$ 100,861.30		\$ 10,443.74		\$ 576.92		\$ 8,767.93		\$ 4,401.07	ND TOTAL	\$ 133,480.96		GRAND TOTAL	\$ 49,625.40

DESCRIPTION AND ASSUMPTIONS

Scope: AECOM will conduct groundwater sampling activities in support of the NERT Regional Groundwater Remedial Investigation. The scope of work includes sampling of up to 90 groundwater monitoring wells within the Study Area. The objectives of the sampling are to assess current groundwater conditions and provide current data that will help refine the understanding of data gaps.

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- 4 days for survey + 1 day for set up = **5 days for Well Reconnaissance**
- 10 hr/day = 50 hrs
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- Travel time = 16 hrs RT; 1 mob required.
- Post- field – Table with information collected total depth, depth to gw - 12 hrs
- Total hours @ \$124.73 = 66 hrs
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 - 4 days x 5 wells per day = 20 wells
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 - 5 days x 2 deep wells per day = 10 deep wells

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- 11 hour field days
- 122 hours for GW sampling
- Field Prep & Post Field – Equipment orders, travel arrangements, tabulate field data, label pictures, 24 hrs
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Other Staff:

- Time for Kevin to kick-off field work and occasional site visit = 20 hrs
- Harry review and oversight - 20 hrs
- Sally review and oversight - 20 hrs
- Carmen review and field oversight – 44 hrs

**Table 2. Amendment No. 1 Groundwater Sampling Cost Estimate
Subcontractor Task Orders 2015-140-01
NERT Regional GW RI**

Subcontractor Management

- Currently spending 15 hours per week
- High volume of work through field work and one month after (11 weeks)
- 10 hrs x 11 weeks = 110 hrs @ \$72.83
- Original budget was 68 hrs; used 40 hrs; 68 hrs – 40 hrs = 28 hrs remaining.
- 110 hrs -28 hrs = 82 hrs. additional budget requested
- DPM 2 hrs per week x 11 weeks = 22 hrs @ \$124.73
- Time added for sub management during field work – 1 hr/day = 12 hrs
- Subcontractor management has taken longer than expected due to flow downs from access agreements and to make sure invoicing of field supplies and labor are in a format that is easily followed by client. All subcontractor invoices and back up will be reviewed to ensure accurate billing to client. Set-up of contracts, provide guidance on billing and invoices.

Reporting

- o Carmen Caceres-Schnell, including figure prep – 50 hrs (change from 30 hrs)
- o Brian Ho review – 10 hrs (change from 30 hrs)
- o Sally Bilodeau provide Senior Review – 25 hrs
- o Steve Cole provide review of DV section – 6 hrs
- o Chad Roper draft DV Section – 10 hrs
- o Figures:
 - Figure 1. Update of Sampling Locations
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 - Steve Cole – 2 hrs
 - Figures – 10 hrs

GSP Review

- Original estimate did not include time for stakeholder review. Comments required inputs from several members of project team. RTC took 34 hours to complete at a cost of \$4,315.
 - o CCS - 10 hrs
 - o Scope – 11 hrs
 - o Bilodeau – 6 hrs
 - o Van den Berg – 3 hrs
 - o Roper – 2 hr

**Table 3. Groundwater Sampling Cost Estimate - Total Revised Cost
Amendment No. 1 for Task Order 2015-140-01
NERT Remedial Investigaion, Downgradient Study Area**

LABOR			Task Order Management		GW Sampling		Subcontractor Mngmnt		Data Analysis + Valid		Reporting (Draft, RTC, Final)		RTC GSP		GRAND TOTAL			
Staff	Position Job Title	Units	Labor	Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		
			Bill Rate	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	
Harry Van Den Berg	Program Director/Principal	h	\$ 203.75	37	\$ 7,538.75	10	\$ 2,037.50		\$ -	5	\$ 1,018.75	12	\$ 2,445.00	3	\$ 611.25	67	\$ 13,651.25	
Mike Flack	Program Director/Principal	h	\$ 203.75	0	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	
Sally Bilodeau	Project Manager	h	\$ 157.13	14	\$ 2,199.82	10	\$ 1,571.30		\$ -	10	\$ 1,571.30	35	\$ 5,499.55	6	\$ 942.78	75	\$ 11,784.75	
Kevin Russell	Senior Scientist	h	\$ 156.66	0	\$ -	20	\$ 3,133.20		\$ -		\$ -		\$ -		\$ -	20	\$ 3,133.20	
Steve Cole	Senior Scientist	h	\$ 156.66	0	\$ -		\$ -		\$ -	15	\$ 2,349.87	10	\$ 1,566.58		\$ -	25	\$ 3,916.46	
Chad Roper	Senior Scientist	h	\$ 156.66	0	\$ -		\$ -		\$ -	80	\$ 12,532.66	16	\$ 2,506.53	2	\$ 313.32	98	\$ 15,352.51	
Carmen Caceres-Schnell	Deputy Project Manager	h	\$ 125.41	44	\$ 5,518.04	60	\$ 7,524.60	22	\$ 2,759.02	6	\$ 752.46	60	\$ 7,524.60	10	\$ 1,254.10	202	\$ 25,332.82	
Brian Ho	Project/Staff Scientist	h	\$ 124.73	0	\$ -	274	\$ 34,176.02	12	\$ 1,496.76		\$ -	14	\$ 1,746.22		\$ -	300	\$ 37,419.00	
Sara Piper or Zoe Diermier	Project/Staff Scientist	h	\$ 124.73	0	\$ -	8	\$ 997.84		\$ -		\$ -		\$ -		\$ -	8	\$ 997.84	
Karsten Kelm	Project Drafting	h	\$ 95.24	0	\$ -		\$ -		\$ -		\$ -	30	\$ 2,857.27	11	\$ 1,047.67	41	\$ 3,904.93	
Budin/Pena/Olsen	Administrative/Clerical	h	\$ 72.83	96	\$ 6,991.90	68	\$ 4,963.52	82	\$ 5,972.25		\$ -	20	\$ 1,456.65	2	\$ 145.66	268	\$ 19,529.99	
TOTAL				191	\$22,248.51	450	\$ 54,403.98	116	\$ 10,228.03	116	\$ 18,225.05	197	\$ 25,602.40	34	\$ 4,314.78	1,104	\$ 135,022.76	
																2% Mark-up on Labor		\$ 2,700.46
																GRAND TOTAL		\$ 137,723.21

NON-LABOR TASKS

TRAVEL - DAILY			Task Order Management		GW Sampling		Subcontractor Mngmnt		Data Analysis + Valid		Reporting (Draft, RTC, Final)		RTC GSP		Total	
Description	Rate (per diem = GSA rates+ taxes)	Units	Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Units	Total
			Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total	Hours	Total		
Airfare - Brian Ho (Burbank)	\$ 354.00			\$ -	3	\$ 1,062.00		\$ -		\$ -		\$ -		\$ -	3	\$ 1,062.00
	\$ 354.00			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -
SUBTOTAL				\$ -		\$ 1,062.00		\$ -		\$ -		\$ -		\$ -	3	\$ 1,062.00
Per Diem - Hotel	\$ 120.96	daily rate		\$ -	18	\$ 2,177.28	0	\$ -		\$ -		\$ -		\$ -	18	\$ 2,177.28
Per Diem - Meals	\$ 64.00	daily rate		\$ -	21	\$ 1,344.00	0	\$ -		\$ -		\$ -		\$ -	21	\$ 1,344.00
Car Rental (Stand'd SUV)	\$ 53.96	daily rate		\$ -	21	\$ 1,133.16	0	\$ -		\$ -		\$ -		\$ -	21	\$ 1,133.16
Gas (for rental vehicle)	\$ 3.25	per gallon		\$ -	300	\$ 975.00	0	\$ -		\$ -		\$ -		\$ -	300	\$ 975.00
Parking (airport)	\$ 15.00	daily rate		\$ -	21	\$ 315.00	0	\$ -		\$ -		\$ -		\$ -	21	\$ 315.00
SUBTOTAL				\$ -		\$ 5,944.44		\$ -		\$ -		\$ -		\$ -	381	\$ 5,944.44
TOTAL				\$ -		\$ 7,006.44		\$ -		\$ -		\$ -		\$ -	384	\$ 7,006.44

TRAVEL - MILEAGE			Task Order Management		GW Sampling		Subcontractor Mngmnt		Data Analysis + Valid		Reporting (Draft, RTC, Final)		RTC GSP		Total	
Description	Rate (Effective January 1, 2015)	miles/RT	Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Units	Total Cost
			Miles	Total	Miles	Total	Miles	Total	Miles	Total	Miles	Total	Hours	Total		
Camarillo to Airport	\$ 0.540	100		\$ -	300	\$ 162.00		\$ -		\$ -		\$ -		\$ -	300	\$ 162.00
TOTAL			0	\$ -	300	\$ 162.00		\$ -		\$ -		\$ -		\$ -	300	\$ 162.00

EQUIPMENT - CONTRACT RATE			Task Order Management		GW Sampling		Subcontractor Mngmnt		Data Analysis + Valid		Reporting (Draft, RTC, Final)		RTC GSP		TOTAL	
Description	Rate	Hrs/Unit	Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Units	Total
			Qty	Total	Qty	Total	Qty	Total	Hours	Total	Hours	Total	Qty	Total		
Bladder pump w/controller	\$ 175.00	day		\$ -	22	\$ 3,850.00		\$ -		\$ -		\$ -		\$ -	22	\$ 3,850.00
Compressor for bladder pump	\$ 100.00	day		\$ -	22	\$ 2,200.00		\$ -		\$ -		\$ -		\$ -	22	\$ 2,200.00
Level D PPE	\$ 15.00	day		\$ -	12	\$ 180.00		\$ -		\$ -		\$ -		\$ -	12	\$ 180.00
TOTAL			0	\$ -	56	\$ 6,230.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -	56	\$ 6,230.00

EQUIPMENT - OTHER			Task Order Management		GW Sampling		Subcontractor Mngmnt		Data Analysis + Valid		Reporting (Draft, RTC, Final)		RTC GSP		TOTAL			
Description	Rate	Unit	Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Units	Total		
			Units	Total	Qty	Total	Qty	Total	Hours	Total	Hours	Total	Qty	Total				
Tubing, bladder pump (twin bonded), LDPE	\$ 0.55	FT		\$ -	8000	\$ 4,400.00		\$ -		\$ -		\$ -		\$ -	8000	\$ 4,400.00		
Well Plugs 2" - hang tubing	\$ 6.90	EA		\$ -	20	\$ 138.00		\$ -		\$ -		\$ -		\$ -	20	\$ 138.00		
Well plugs 4" - hang tubing	\$ 10.15	EA		\$ -	65	\$ 659.75		\$ -		\$ -		\$ -		\$ -	65	\$ 659.75		
Field supplies	\$ 50.00	DAY		\$ -	19	\$ 950.00		\$ -		\$ -		\$ -		\$ -	19	\$ 950.00		
Water level meter (500 ft)	\$ 40.00	day		\$ -	12	\$ 480.00		\$ -		\$ -		\$ -		\$ -	12	\$ 480.00		
Bladders for Sample Pro	\$ 110.00	10/pack		\$ -	9	\$ 990.00		\$ -		\$ -		\$ -		\$ -	9	\$ 990.00		
QED Sample Pro Grab Plate	\$ 75.00	10/kit		\$ -	9	\$ 675.00		\$ -		\$ -		\$ -		\$ -	9	\$ 675.00		
In-line water filter (0.45 micron) - 30 cm capacity	\$ 7.10	per filter		\$ -	85	\$ 603.50		\$ -		\$ -		\$ -		\$ -	85	\$ 603.50		
In-line water filter (0.45 micron) - 609 cm capacity	\$ 17.95	per filter		\$ -	12	\$ 215.40		\$ -		\$ -		\$ -		\$ -	12	\$ 215.40		
TOTAL			0	\$ -	8231	\$ 9,111.65		\$ -	0	\$ -	0	\$ -	0	\$ -	8231	\$ 9,111.65		
																GRAND TOTAL		\$ 160,233.30

**Table 3. Groundwater Sampling Cost Estimate
Subcontractor Task Orders 2015-140-01
NERT Remedial Investigaiton, Downgradient Study Area**

SUBCONTRACTORS				Task Order Management		GW Sampling and Analysis		Subcontractor Mngmnt		Data Analysis + Valid		Reporting (Draft, RTC, Final)		RTC GSP		SUBTOTAL		TOTAL	
				Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Task 2015-140B-01		Units	Total	7% Mark Up	Total
Description	Task Order	Rate	Hrs/Unit	Qty	Total	Qty	Total	Qty	Total	Hours	Total	Hours	Total	Qty	Total				
GES - Field Labor	2015-140-02	\$ 41,341.90	event		\$ -	1	\$ 41,341.90		\$ -		\$ -		\$ -		\$ -	1	\$ 41,341.90	\$ 2,893.93	\$ 44,235.83
TestAmerica - Lab Analysis	2015-140-03	\$ 70.15	per sample		\$ -	116	\$ 8,137.40		\$ -		\$ -		\$ -		\$ -	116	\$ 8,137.40	\$ 569.62	\$ 8,707.02
TestAmerica - Chromium Lab Analysis	2015-140-03 Cr	\$ 25.00	per sample		\$ -	116	\$ 2,900.00		\$ -		\$ -		\$ -		\$ -	116	\$ 2,900.00	\$ 203.00	\$ 3,103.00
Silver State Laboratories	2015-140-04	\$ 10,252.00	78 wells		\$ -	1	\$ 10,252.00		\$ -		\$ -		\$ -		\$ -	1	\$ 10,252.00	\$ 717.64	\$ 10,969.64
Stanley Land Surveying	2015-140-05	\$ 15,070.00	event		\$ -	1	\$ 15,070.00		\$ -		\$ -		\$ -		\$ -	1	\$ 15,070.00	\$ 1,054.90	\$ 16,124.90
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			TOTAL NON-LABOR COSTS		\$ -		\$ 116,416.39												
			SUB-TASK TOTAL (Include. 2%)		\$22,693.48		\$ 171,908.45		\$ -		\$ 18,589.55		\$ 26,114.45			GRAND TOTAL	\$ 254,139.60	GRAND TOTAL	\$ 260,713.04

DESCRIPTION AND ASSUMPTIONS

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**Table 3. Groundwater Sampling Cost Estimate
Subcontractor Task Orders 2015-140-01
NERT Remedial Investigaion, Downgradient Study Area**

- Carmen review and field oversight – 44 hrs

Subcontractor Management

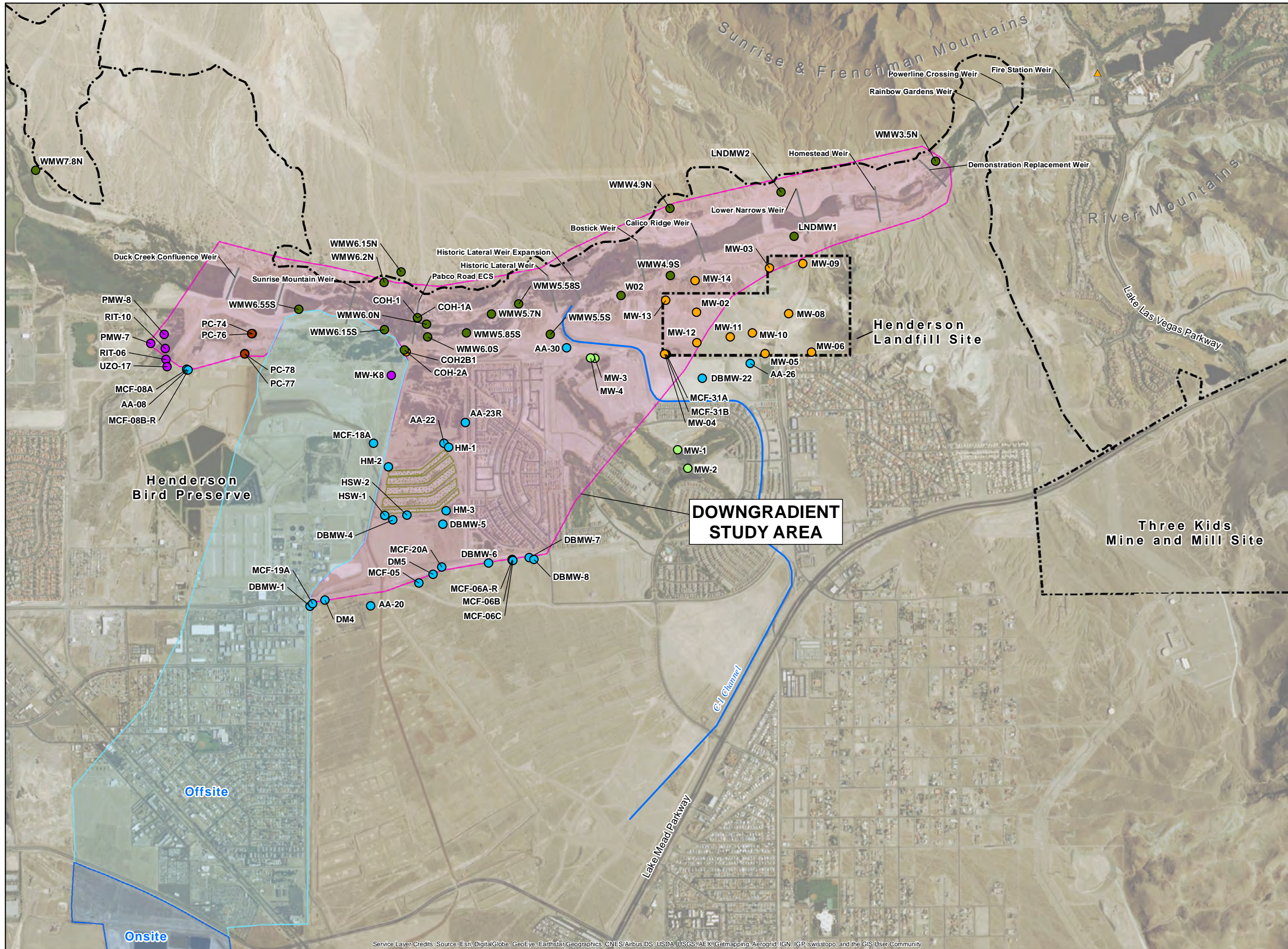
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Reporting

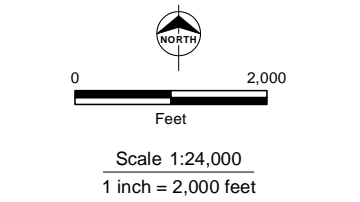
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 - o Scope – 11 hrs
 - o Bilodeau – 6 hrs
 - o Van den Berg – 3 hrs
 - o Roper – 2 hr



- Legend**
- American Pacific Well
 - Chimera Golf Course Well
 - City of Henderson Well
 - LandWell Company Well
 - NERT Well
 - Southern Nevada Water Authority Well
 - ▲ Lake Las Vegas Intake
 - Wetlands Trail
 - Channels
 - Evaporation Basin
 - Weir



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NERT
Remedial Investigation
Downgradient Study Area

**GROUNDWATER
SAMPLING LOCATIONS**

Date: 2/29/2016 Project: 60477365

AECOM Figure 1